



Marfrig Global Foods S/A

2024 Questionário corporativo do CDP de 2024

Versão do Word

Importante: esta exportação exclui questões não respondidas

Este documento é uma exportação da resposta do questionário CDP da sua organização. Contém todos os pontos de dados para questões que foram respondidas ou em curso. Pode haver questões ou pontos de dados que lhe tenham sido pedido para fornecer, que estão em falta neste documento porque estão sem resposta no momento.

[Termos de divulgação do questionário corporativo 2024 - CDP](#)

Conteúdos

C1. Introdução

(1.1) Sua resposta está sendo enviada em qual idioma?

Selecione de:

Inglês

(1.2) Selecione a moeda usada para todas as informações financeiras divulgadas em sua resposta.

Selecione de:

BRL

(1.3) Apresente uma visão geral e apresentação para sua organização.

(1.3.2) Tipo de organização

Selecione de:

Empresa privada

(1.3.3) Descrição da organização

Marfrig Global Foods S.A. is a Brazilian multinational company that operates in the food sector. With a diversified production platform in the Americas, Marfrig is the second largest bovine protein company in the world (in capacity), with a production capacity of 30.1 thousand heads of cattle slaughtered per day. It has the leadership when it comes to hamburgers, with a capacity of 222 thousand tons per year. Marfrig is also a pioneer when it comes to the production of items based on vegetable protein. The Company resides in Brazil and is headquartered in the city of São Paulo. Its business model is made up of 21 slaughterhouses, 12 processing plants and 8 distribution centers in Brazil, Argentina, Uruguay, Chile and the United States. In 2018, Marfrig acquired National Beef, the fourth largest beef processor in the United States. Headquartered in Kansas City, Missouri, the company accounts for approximately 14% of the total slaughter in the country and has three plants for this purpose. Its products are targeted at large food service chains and also sold in supermarkets to end consumers, all recognized for premium quality, resulting from processes that respect the environment and animal welfare. With a workforce of more than 32,000 employees, Marfrig Global Foods operates in the foodservice, retail and food processing segments, delivering innovative, safe and healthy solutions. It has a diversified and comprehensive portfolio of products that can be found in major chains of restaurants and supermarkets, reaching millions of consumers in more than 100 countries. Its business model comprises operations located in two regions: - North America: responsible for primary processing and deboning (primary and portion cuts) of beef cattle from the United States. The products are sold internally through retail, wholesale and food service channels, in addition to being exported to various markets. The business also includes sales of auxiliary/supplementary and process by-products, tannery operations, logistics and direct online sales to consumers. - South America: responsible for primary

processing and deboning (primary and divided cuts) of beef cattle from Brazil, Uruguay and Argentina; and for the production of other industrialized products such as canned meat, beef jerky, sauces, sachets and more. The products are sold internally through retail, wholesale and food service channels, as well as exported to various markets. The business also includes sales of auxiliary/supplementary and process by-products and distribution and sale of products in Chile. Sustainability is part of Marfrig Global Foods' business strategy. To be sustainable, a company must balance its economic, social and environmental performance. In order to meet this objective, the Company maintains the continuous strengthening of five strategic sustainability pillars: Work environment, customers, suppliers, environment and social. They permeate all divisions and units and are a reference for the development of actions, which, together, promote and ensure the sustainability of the entire production system. Marfrig's commitment to sustainability is reflected in its business strategy and in the partnerships and commitments assumed by the Company with renowned and recognized organizations in the social and environmental areas. More information about the company can be checked on our website <https://www.marfrig.com.br/en>.

[Linha fixa]

(1.4) Indique a data de término do ano sobre o qual estão sendo divulgados dados. Para os dados de emissões, indique se serão apresentados os dados de emissões para os anos de reporte passados.

| | Data de término do ano de reporte | Alinhamento deste período de reporte com o seu período de reporte financeiro | Indique se estão sendo fornecidos dados de emissões de anos de reporte passados |
|--|-----------------------------------|--|---|
| | 12/31/2023 | Selecione de: <input checked="" type="checkbox"/> Sim | Selecione de: <input checked="" type="checkbox"/> Não |

[Linha fixa]

(1.4.1) What is your organization's annual revenue for the reporting period?

136484982585

(1.5) Dê detalhes sobre os limites de reporte.

| | |
|--|--|
| | Seu limite do reporte para a divulgação no CDP é igual ao usado em suas demonstrações financeiras? |
| | Selecione de: <input checked="" type="checkbox"/> Sim |

[Linha fixa]

(1.6) A organização tem um código ISIN ou outro identificador único (por exemplo, Ticker, CUSIP, etc.)?

Código ISIN - título

(1.6.1) Sua organização usa esse identificador único?

Selecione de:

Sim

(1.6.2) Forneça o identificador único

USU63768AB83 US566007AC41 USU63768AA01

Código ISIN – ações

(1.6.1) Sua organização usa esse identificador único?

Selecione de:

Sim

(1.6.2) Forneça o identificador único

BRMRFGACNOR0

Número CUSIP

(1.6.1) Sua organização usa esse identificador único?

Selecione de:

Não

Símbolo no Ticker

(1.6.1) Sua organização usa esse identificador único?

Selecione de:

Sim

(1.6.2) Forneça o identificador único

MRF3

Código SEDOL

(1.6.1) Sua organização usa esse identificador único?

Selecione de:

Não

Número LEI

(1.6.1) Sua organização usa esse identificador único?

Selecione de:

Não

Número D-U-N-S

(1.6.1) Sua organização usa esse identificador único?

Selecione de:

Não

Outro identificador único

(1.6.1) Sua organização usa esse identificador único?

Selecione de:

Sim

(1.6.2) Forneça o identificador único

Código CVM 2078-8
[Adicionar linha]

(1.7) Selecione os países/áreas em que a organização opera.

Selecione todos os aplicáveis

Argentina

Brasil

Chile

Estados Unidos da América

Uruguai

(1.8) É possível fornecer dados de geolocalização das instalações?

| | | |
|--|---|---|
| | É possível fornecer dados de geolocalização das instalações? | Explique |
| | Selecione de: <input checked="" type="checkbox"/> Sim, para todas as instalações | <i>It's possible to provide geolocation data for all units selected in the previous question.</i> |

[Linha fixa]

(1.8.1) Indique todos os dados de geolocalização disponíveis para as instalações.

Row 1

(1.8.1.1) Identificador

Liberal

(1.8.1.2) Latitude

37.05

(1.8.1.3) Longitude

-100.9

(1.8.1.4) Explique

-

Row 2

(1.8.1.1) Identificador

Villa Mercedes

(1.8.1.2) Latitude

-33.692425

(1.8.1.3) Longitude

-65.455875

(1.8.1.4) Explique

-

Row 3

(1.8.1.1) Identificador

Itupeva

(1.8.1.2) Latitude

-23.15

(1.8.1.3) Longitude

-4.7

(1.8.1.4) Explique

-

Row 4

(1.8.1.1) Identificador

Dodge City

(1.8.1.2) Latitude

37.75

(1.8.1.3) Longitude

-99.99

(1.8.1.4) Explique

-

[Adicionar linha]

**(1.11) As emissões de gases de efeito estufa e/ou os impactos hídricos decorrentes das atividades de produção, processamento/fabricação, distribuição ou o consumo de produtos são relevantes para a divulgação atual para o CDP?
[AINDA NÃO DISPONÍVEL]**

Produção

(1.11.1) Relevância das emissões e/ou impactos hídricos

Selecione de:

Cadeia de valor (incluindo a própria terra)

Processamento/Fabricação

(1.11.1) Relevância das emissões e/ou impactos hídricos

Selecione de:

Operações diretas

Distribuição

(1.11.1) Relevância das emissões e/ou impactos hídricos

Selecione de:

Ambas operações diretas e cadeia de valor <i>upstream/downstream</i>

Consumo

(1.11.1) Relevância das emissões e/ou impactos hídricos

Selecione de:

Sim

[Linha fixa]

(1.22) Dê detalhes sobre as <i>commodities</i> que a organização produz e/ou obtém.

Produto florestal madeireiro

(1.22.1) Produzidas e/ou obtidas

Selecione de:

Aprovisionado

(1.22.2) Etapa da cadeia de valor de <i>commodity</i>

Selecione todos os aplicáveis

Processamento

(1.22.4) Indique se está apresentando o volume total de <i>commodity</i> produzida e/ou obtida

Selecione de:

Sim, este é o volume total

(1.22.5) Volume total de <i>commodity</i> (toneladas métricas)

(1.22.8) O volume total de <i>commodity</i> foi convertido de uma unidade para toneladas métricas?

Selecione de:

 Sim**(1.22.9) Unidade original**

Selecione todos os aplicáveis

 Metros cúbicos Outro, especifique :unit of pallets; paper reams.**(1.22.10) Dê detalhes sobre os métodos, os fatores de conversão usados e o volume total de <i>commodity</i> na unidade original**

Marfrig's timber products consumed in 2023 consisted of three materials: paper, cardboards, wood pallets and firewood. Cardboard consumption data is already monitored in metric tons, with a valor of 23,163.23 metric tons acquired, so a conversion factor was used for wood pallets, other conversion factor was used for firewood and other for paper. The original metric unit of wood pallets considered was "unit of pallets", with 196,769 pallets acquired in 2023, and the conversion factor used was 0.030 tons per unit of pallet, totalizing 5,903.7 metric tons. For firewood, the original metric unit is cubic meters, with 389,239.82 m3 acquired in 2023, and the conversion factor used was 0.225 tons per cubic meters, totalizing 87,599.21 metric tons. For paper, the data is monitored by paper reams, where each ream was estimated to have 0,0025 tons. Both of conversion factors were estimated via analysis made by Marfrig.

(1.22.11) Forma da <i>commodity</i>

Selecione todos os aplicáveis

 Papel Embalagem primária Embalagem secundária Toras de madeira dura Bioenergia à base de madeira Produto florestal madeireiro serrado, compensados, cavacos**(1.22.12) % dos gastos com aquisições**

Selecione de:

1-5%

(1.22.13) % da receita dependente da <i>commodity</i>

Selecione de:

1-10%

(1.22.14) Na configuração do questionário, foi indicado que a organização está fazendo a divulgação sobre esta <i>commodity</i>?

Selecione de:

Sim, divulgando

(1.22.15) Esta <i>commodity</i> é considerada significativa para a organização em termos de receita?

Selecione de:

Não

(1.22.19) Explique

The timber products that Marfrig acquires consist of three types: pallets for transporting livestock in its operational units; cardboard for storing and distributing products, as a form of packaging; biomass, in the form of firewood and wood chips, for feeding boilers in some of its operational units; papers, for administrative uses. The organization's revenue comes mainly from the sale of meat and cattle products. Therefore, since the operation has little dependence on these materials, timber products represent only a small part of Marfrig's total revenue, and these are more significant in areas with a potential risk of deforestation.

Produtos da pecuária

(1.22.1) Produzidas e/ou obtidas

Selecione de:

Produzidas e obtidas

(1.22.2) Etapa da cadeia de valor de <i>commodity</i>

Selecione todos os aplicáveis

- Produção
- Processamento

(1.22.4) Indique se está apresentando o volume total de <i>commodity</i> produzida e/ou obtida

Selecione de:

- Sim, este é o volume total

(1.22.5) Volume total de <i>commodity</i> (toneladas métricas)

1693095.13

(1.22.8) O volume total de <i>commodity</i> foi convertido de uma unidade para toneladas métricas?

Selecione de:

- Não

(1.22.11) Forma da <i>commodity</i>

Selecione todos os aplicáveis

- Carne
- Gado

(1.22.12) % dos gastos com aquisições

Selecione de:

- 71-80%

(1.22.13) % da receita dependente da <i>commodity</i>

Selecione de:

- 91-99%

(1.22.14) Na configuração do questionário, foi indicado que a organização está fazendo a divulgação sobre esta <i>commodity</i>?

Selecione de:

Sim, divulgando

(1.22.15) Esta <i>commodity</i> é considerada significativa para a organização em termos de receita?

Selecione de:

Sim

(1.22.19) Explique

Cattle is the main raw material used by the company. Therefore, through the responsible purchase of this commodity, we focus on combating deforestation in biomes. In this way, for the Brazil operations, for example, we do not buy cattle from ranches located in critical areas of the Amazon and Cerrado biomes. The trace our entire production process helps us in this endeavor because it records the journey of each head of cattle, by managing together with suppliers, its entire trajectory through the value chain. It is possible, through tracing, to identify the ranches of origin for each head of cattle along with its feeding regime. Other data relevant to the production process is also recorded such as batch, and slaughter date, along with storage and transport information. Based on such information, we can act when problems arise and move to constantly improve our systems. In addition, we also count with a partnership between the Federal Public Ministry (MPF) and Imaflora, an interaction that takes place through the Homogenized Protocol for the Purchase of Cattle in the Beef Industry. We have just one owned cattle unit production unit, localized in Uruguay, while the remaining volume is obtained solely for slaughter.

Soja

(1.22.1) Produzidas e/ou obtidas

Selecione de:

Aprovisionado

(1.22.2) Etapa da cadeia de valor de <i>commodity</i>

Selecione todos os aplicáveis

Processamento

(1.22.3) Indique se a soja direta e/ou embutida faz parte da cadeia de valor da organização

Selecione de:

- Mistura de soja incorporada e direta

(1.22.4) Indique se está apresentando o volume total de <i>commodity</i> produzida e/ou obtida

Selecione de:

- Sim, este é o volume total

(1.22.5) Volume total de <i>commodity</i> (toneladas métricas)

43352.65

(1.22.6) Do volume total de <i>commodity</i>, defina a quantidade de soja incorporada (toneladas métricas)

37799.83

(1.22.7) Do volume total de <i>commodity</i>, defina a quantidade de soja direta (toneladas métricas)

5552.82

(1.22.8) O volume total de <i>commodity</i> foi convertido de uma unidade para toneladas métricas?

Selecione de:

- Não

(1.22.11) Forma da <i>commodity</i>

Selecione todos os aplicáveis

- Derivados de soja
 Soja integral

(1.22.12) % dos gastos com aquisições

Selecione de:

- 1-5%

(1.22.13) % da receita dependente da <i>commodity</i>

Selecione de:

1-10%

(1.22.14) Na configuração do questionário, foi indicado que a organização está fazendo a divulgação sobre esta <i>commodity</i>?

Selecione de:

Sim, divulgando

(1.22.15) Esta <i>commodity</i> é considerada significativa para a organização em termos de receita?

Selecione de:

Não

(1.22.19) Explique

The soy acquired by Marfrig is used only in one of the company's operational units, located in Uruguay, which has its own confinement area for raising cattle. The soy is acquired from this unit in the form of hulls, bran and flour, and is used as one of the ingredients in animal feed. Also, the embedded soy disclosed is from a minor part of the feeding from the sourced cattle for slaughter. From the four countries where Marfrig sources its cattle, it is identified that a relevant consumption of soybeans in the suppliers' feedlots only occurs in Brazil and Uruguay, and just some number of heads consumes soy-based ration through their farming. In the United States of America and in Argentina, this consume can be classified as negligible. Because of those factors, and because soybeans are not the only source of animal feed for owned and sourced confined cattle, the company's dependence on this commodity for its revenue is not considered relevant.

[Linha fixa]

(1.23) Quais das seguintes <i>commodities</i> agrícolas produzidas e/ou obtidas pela organização são as mais importantes para os negócios, em termos de receita?

Algodão

(1.23.1) Produzidas e/ou obtidas

Selecione de:

Não

Derivados do leite e ovos

(1.23.1) Produzidas e/ou obtidas

Selecione de:

Não

Peixes e frutos do mar da aquicultura

(1.23.1) Produzidas e/ou obtidas

Selecione de:

Não

Frutas

(1.23.1) Produzidas e/ou obtidas

Selecione de:

Não

Milho

(1.23.1) Produzidas e/ou obtidas

Selecione de:

Não

Nozes

(1.23.1) Produzidas e/ou obtidas

Selecione de:

Não

Outros grãos (por exemplo, cevada, aveia)

(1.23.1) Produzidas e/ou obtidas

Selecione de:

Não

Outras sementes oleaginosas (por exemplo, óleo de colza)

(1.23.1) Produzidas e/ou obtidas

Selecione de:

Não

Aves e suínos

(1.23.1) Produzidas e/ou obtidas

Selecione de:

Não

Arroz

(1.23.1) Produzidas e/ou obtidas

Selecione de:

Não

Açúcar

(1.23.1) Produzidas e/ou obtidas

Selecione de:

Não

Chá

(1.23.1) Produzidas e/ou obtidas

Selecione de:

Não

Tabaco

(1.23.1) Produzidas e/ou obtidas

Selecione de:

Não

Verduras

(1.23.1) Produzidas e/ou obtidas

Selecione de:

Não

Trigo

(1.23.1) Produzidas e/ou obtidas

Selecione de:

Não

Outra<i> commodity</i>

(1.23.1) Produzidas e/ou obtidas

Selecione de:

Não

[Linha fixa]

(1.24) A organização mapeou sua cadeia de valor?

(1.24.1) Cadeia de valor mapeada

Selecione de:

Sim, mapeamos ou, no momento, estamos no processo de mapear nossa cadeia de valor

(1.24.2) Etapas da cadeia de valor abrangidas no mapeamento

Selecione todos os aplicáveis

Cadeia de valor <i>upstream</i>

Cadeia de valor <i>downstream</i>

(1.24.3) Camada mais alta de fornecedores mapeada

Selecione de:

Fornecedores da Camada 2

(1.24.4) Camada mais alta de fornecedor conhecida, porém não mapeada

Selecione de:

Fornecedores da Camada 3

(1.24.6) Inclusão de pequeno produtor no mapeamento

Selecione de:

Pequenos produtores relevantes e incluídos

(1.24.7) Descrição do processo e da abrangência do mapeamento

We adopted several initiatives in the raw material acquisition process, including responsible purchasing practices, geomonitoring of supplier farms and product traceability, in addition to engaging suppliers in the best sustainable livestock practices. On this last front, we have the Marfrig Club, a protocol that aims to share with producers the socio-environmental commitments assumed and offer them technical support, in order to contribute to the constant improvement in the application of good animal welfare practices. and socio-environmental compliance. By 2025, in line with the objectives of Marfrig Verde, several actions are planned so that 100% of our suppliers, including indirect ones, operate in areas free of deforestation. In 2023, our achievements were: - 100% of direct suppliers' properties are monitored via satellite. - Unified Protocol Beef on Track: we implemented the first cycle of auditing under the Amazon Region Cattle Suppliers Monitoring Protocol. The company was judged to be 100% in compliance in this first cycle of auditing in the livestock farming chain, performed by the MPF, demonstrating the differential the company offers and its commitment to promoting and encouraging respect for socio-environmental legislation. - Third Party Audits: For the eleventh consecutive year, the processes for purchasing cattle from farms in the Amazon Biome met 100% of the criteria and guidelines established by the Public Commitment to Amazon Livestock. - Geospatial monitoring: In the Amazon biome, we have been monitoring since 2009, and in the Cerrado since 2020. This work is based on maps of farms obtained by the CAR (Rural Environmental Registry), information crossed with satellite images of the farms, provided by INPE (National Institute of Space Research), and aims to ensure that the properties are free of deforestation and conflicts with indigenous lands or conservation units. - Blockchain-based traceability platform (Conecta): developed from the conjunction of satellite monitoring with blockchain technology, over the previous year, Conecta helps us to verify the presence of deforestation and other socio-environmental non-compliance in the production chain. The platform crosses information about farms and herds, made available by suppliers through an application, and public data. In 2023, Conecta was made available to more than 15,000 direct producers operating in Mato Grosso and Rondônia. - VISIPEC: We obtained 99.5% of our chain of

[Linha fixa]

(1.24.1) A organização mapeou onde plástico foi produzido, comercializado, usado e/ou descartado nas operações diretas ou outra parte da cadeia de valor?

| | Mapeamento dos plásticos | Etapas da cadeia de valor abrangidas no mapeamento |
|--|---|--|
| | <i>Selecione de:</i> <input checked="" type="checkbox"/> Sim, mapeamos ou, no momento, estamos no processo de mapear plástico na cadeia de valor | <i>Selecione todos os aplicáveis</i> <input checked="" type="checkbox"/> Outro, especifique :Mapping in operation, disposal, and post-consumption through reverse packaging logistics |

[Linha fixa]

(1.24.2) Quais <i>commodities</i> a organização mapeou na cadeia de valor <i>upstream</i> (ou seja, cadeia de fornecimento)?

Produto florestal madeireiro

(1.24.2.1) Cadeia de valor mapeada para esta <i>commodity</i> obtida

Selecione de:

Sim

(1.24.2.2) Camada mais alta de fornecedores mapeada para esta <i>commodity</i> obtida

Selecione de:

Fornecedores da Camada 1

(1.24.2.3) Porcentagem de fornecedores da camada 1 mapeados

Selecione de:

100%

(1.24.2.7) Camada mais alta de fornecedores conhecidos, porém não mapeada para esta <i>commodity</i> obtida

Selecione de:

Fornecedores da Camada 2

Produtos da pecuária

(1.24.2.1) Cadeia de valor mapeada para esta <i>commodity</i> obtida

Selecione de:

Sim

(1.24.2.2) Camada mais alta de fornecedores mapeada para esta <i>commodity</i> obtida

Selecione de:

Fornecedores da Camada 2

(1.24.2.3) Porcentagem de fornecedores da camada 1 mapeados

Selecione de:

100%

(1.24.2.4) Porcentagem de fornecedores da camada 2 mapeados

Selecione de:

100%

(1.24.2.7) Camada mais alta de fornecedores conhecidos, porém não mapeada para esta <i>commodity</i> obtida

Selecione de:

Todas as camadas de fornecedores conhecidos foram mapeadas para esta <i>commodity</i> obtida

Soja

(1.24.2.1) Cadeia de valor mapeada para esta <i>commodity</i> obtida

Selecione de:

Sim

(1.24.2.2) Camada mais alta de fornecedores mapeada para esta <i>commodity</i> obtida

Selecione de:

Fornecedores da Camada 1

(1.24.2.3) Porcentagem de fornecedores da camada 1 mapeados

Selecione de:

100%

(1.24.2.7) Camada mais alta de fornecedores conhecidos, porém não mapeada para esta <i>commodity</i> obtida

Selecione de:

Fornecedores da Camada 2

[Linha fixa]

C2. Identificação, avaliação e gestão de dependências, impactos, riscos e oportunidades

(2.1) Como a organização define os horizontes de tempo de curto, médio e longo prazo em relação à identificação, avaliação e gestão das suas dependências, impactos, riscos e oportunidades ambientais?

Curto prazo

(2.1.1) De (anos)

0

(2.1.3) A (anos)

3

(2.1.4) Como esse horizonte de tempo está vinculado ao planejamento estratégico e/ou financeiro

To make strategic decisions, Marfrig, like all other companies, must analyze the time horizons of financial risks and opportunities. These time horizons are called short, medium and long term and are directly related to the company's risk management policy. Short-term: In this time frame, the company focuses on risks and opportunities that may arise in the next year. These may include market changes, regulatory changes, or even operational risks. The company's immediate financial security depends on properly managing these risks.

Médio prazo

(2.1.1) De (anos)

3

(2.1.3) A (anos)

7

(2.1.4) Como esse horizonte de tempo está vinculado ao planejamento estratégico e/ou financeiro

This period allows the company to plan and prepare for potential opportunities and risks. This may include strategic investments, market expansion or risk reduction in the short term.

Longo prazo

(2.1.1) De (anos)

7

(2.1.2) O horizonte de tempo de longo prazo da organização está em aberto?

Selecione de:

Não

(2.1.3) A (anos)

30

(2.1.4) Como esse horizonte de tempo está vinculado ao planejamento estratégico e/ou financeiro

In this case, the company plans far into the future. This helps Marfrig identify and prepare for trends, industry changes, and other factors that may affect the company's long-term financial health. These timelines comply with Marfrig's risk management guidelines. The organization recognizes that each time horizon has its own risks and opportunities, and that successful management of these horizons is critical to long-term financial success. As a result, Marfrig strives to balance and manage these risks and opportunities across all three time horizons.

[Linha fixa]

(2.2) A organização tem um processo para identificar, avaliar e gerir dependências e/ou impactos ambientais?

| | Processo em vigor | Dependências e/ou impactos avaliados neste processo |
|--|-------------------|---|
| | Selecione de: | Selecione de: |

| | Processo em vigor | Dependências e/ou impactos avaliados neste processo |
|--|---|--|
| | <input checked="" type="checkbox"/> Sim | <input checked="" type="checkbox"/> Tanto dependências quanto impactos |

[Linha fixa]

(2.2.1) A organização tem um processo para identificar, avaliar e gerir riscos e/ou oportunidades ambientais?

| | Processo em vigor | Riscos e/ou oportunidades avaliados neste processo | Este processo é informado pelo processo de dependências e/ou impactos? |
|--|---|---|--|
| | <i>Selecione de:</i> <input checked="" type="checkbox"/> Sim | <i>Selecione de:</i> <input checked="" type="checkbox"/> Tanto riscos quanto oportunidades | <i>Selecione de:</i> <input checked="" type="checkbox"/> Sim |

[Linha fixa]

(2.2.2) Dê detalhes sobre o processo da organização para identificar, avaliar e gerir dependências, impactos, riscos e/ou oportunidades ambientais.

Row 1

(2.2.2.1) Problema ambiental

Selecione todos os aplicáveis

Água

(2.2.2.2) Indique quais dependências, impactos, riscos e oportunidades são abrangidos pelo processo para este problema ambiental

Selecione todos os aplicáveis

- Dependências
- Impactos
- Riscos
- Oportunidades

(2.2.2.3) Etapas da cadeia de valor abrangidas

Selecione todos os aplicáveis

- Operações diretas
- Cadeia de valor <i>upstream</i>

(2.2.2.4) Abrangência

Selecione de:

- Total

(2.2.2.5) Camadas de fornecedores abrangidas

Selecione todos os aplicáveis

- Fornecedores da Camada 1

(2.2.2.7) Tipo de avaliação

Selecione de:

- Qualitativa e quantitativa

(2.2.2.8) Frequência da avaliação

Selecione de:

- Anualmente

(2.2.2.9) Horizontes de tempo abrangidos

Selecione todos os aplicáveis

- Curto prazo
- Médio prazo
- Longo prazo

(2.2.2.10) Integração do processo de gestão de riscos

Selecione de:

- Integrado no processo de gestão de riscos multidisciplinar da organização como um todo

(2.2.2.11) Especificidade local usada

Selecione todos os aplicáveis

- Local

(2.2.2.12) Ferramentas e métodos usados

Ferramentas disponíveis comercial/publicamente

- WRI Aqueduct

Metodologias e normas internacionais

- Norma de Gestão Ambiental ISO 14001

Bancos de dados

- Bancos de dados do governo regional

Outros

- Consultores externos
- Análise de cenários

(2.2.2.13) Tipos de risco e critérios considerados

Parâmetro físico agudo

- Estiagem

Físico crônico

- Estresse hídrico

Política

- Maior dificuldade de obtenção de autorização para captações de água

Mercado

- Acesso inadequado aos serviços de abastecimento de água, saneamento e higiene

Reputação

- Conflitos entre as partes interessadas a respeito dos recursos hídricos no nível da bacia ou do represamento

Tecnológico

- Transição para produtos e tecnologias com eficiência hídrica e de baixa intensidade de uso da água

Responsabilidade

- Não conformidade com a regulamentação

(2.2.2.14) Partes interessadas e parceiros considerados

Selecione todos os aplicáveis

- ONGs
- Clientes
- Funcionários
- Investidores
- Fornecedores
- Comunidades locais
- Órgãos reguladores

(2.2.2.15) Este processo mudou desde o ano de reporte anterior?

Selecione de:

Não

(2.2.2.16) Outros detalhes do processo

Marfrig adopts a comprehensive approach to identify, assess, and manage water dependency, impact, risks, and opportunities across 100% of its direct operational units and supply chain, recognizing that effective water management requires covering its entire operation. Methodology/data sources used: Marfrig uses tools that include the Water Footprint Network, WRI - Aqueduct, Ceres AquaGauge, WWF Water Risk Filter, and Scenario Analysis methodology. These tools provide mapping of water-stressed regions and quantitative risk indicators for each operational unit. Watersheds serve as a dataset, categorizing stress levels both qualitatively and quantitatively, enabling Marfrig to effectively assess and manage water-related issues. Specifically in Brazil, Marfrig conducts on-site analyses based on qualitative and quantitative water availability maps provided by the National Water Agency (ANA), a government database. This localized approach allows Marfrig to maintain accurate data reporting and anticipate potential water-related challenges, such as monitoring rainfall rates in water-stressed areas. Integrated process for the company's risk management: Decisions regarding water dependency, severity of impact, and potential risks and opportunities are assessed by Marfrig's Sustainability Committee and the Finance and Risk Management Committee. These committees periodically review investment and financial plans, assessing their impact on the company's capital structure, and report directly to the Board. Marfrig integrates the assessment results into its decision-making processes, identifying opportunities and prioritizing areas for continuous improvement. The methodology for assessing probability and impact is based on the use of WRI – Aqueduct and ANA to analyze the quantitative and qualitative water balance. Additionally, scenario analysis was used to evaluate acute physical risks in future scenarios over the coming decades, such as prolonged drought periods or flood risks associated with climate change. These analyses include historical evaluations to assess the likelihood of future events. At the same time, the company quantifies the potential impact on its operations and supply chains, considering aspects of dependency, economic, and operational impacts, allowing for the measurement of magnitude. It is also worth noting that in monitoring dependency, impact, risks, and opportunities, the company regularly monitors water availability at the watershed level to develop action plans in case of scarcity, which is essential for its operations, ensuring high water quality standards to maintain product safety. This monitoring also includes the annual review of the identification of operations in water-stressed areas using the Aqueduct and ANA tools. Marfrig continuously assesses potential conflicts among stakeholders and complies with relevant regulations to ensure its business operations run smoothly

Row 2

(2.2.2.1) Problema ambiental

Selecione todos os aplicáveis

Mudanças climáticas

Biodiversidade

(2.2.2.2) Indique quais dependências, impactos, riscos e oportunidades são abrangidos pelo processo para este problema ambiental

Selecione todos os aplicáveis

- Dependências
- Impactos
- Riscos
- Oportunidades

(2.2.2.3) Etapas da cadeia de valor abrangidas

Selecione todos os aplicáveis

- Operações diretas
- Cadeia de valor <i>upstream</i>
- Cadeia de valor <i>downstream</i>

(2.2.2.4) Abrangência

Selecione de:

- Parcial

(2.2.2.5) Camadas de fornecedores abrangidas

Selecione todos os aplicáveis

- Fornecedores da Camada 1

(2.2.2.7) Tipo de avaliação

Selecione de:

- Qualitativa e quantitativa

(2.2.2.8) Frequência da avaliação

Selecione de:

- Mais do que uma vez por ano

(2.2.2.9) Horizontes de tempo abrangidos

Selecione todos os aplicáveis

- Curto prazo
- Médio prazo
- Longo prazo

(2.2.2.10) Integração do processo de gestão de riscos

Selecione de:

- Integrado no processo de gestão de riscos multidisciplinar da organização como um todo

(2.2.2.11) Especificidade local usada

Selecione todos os aplicáveis

- Local

(2.2.2.12) Ferramentas e métodos usados

Ferramentas disponíveis comercial/publicamente

- Outras ferramentas disponíveis comercial/publicamente, especifique :TCFD

Gestão de riscos corporativos

- Gestão de riscos corporativos

Metodologias e normas internacionais

- Projeções de Mudanças Climáticas do IPCC
- Norma de Gestão Ambiental ISO 14001

Outros

- Consultores externos
- Avaliação da materialidade

(2.2.2.13) Tipos de risco e critérios considerados

Parâmetro físico agudo

- Precipitações intensas (chuva, granizo, neve/gelo)

Físico crônico

- Estresse térmico

Política

- Mudanças na legislação nacional

Mercado

- Mudança no comportamento do consumidor

Reputação

- Cobertura negativa da imprensa com relação ao apoio a projetos ou atividades com impactos negativos ao ambiente (por exemplo, emissões de GEE, desmatamento e conversão, estresse hídrico)

Tecnológico

- Transição para tecnologias e produtos com menor índice de emissões

Responsabilidade

- Não conformidade com a regulamentação

(2.2.2.14) Partes interessadas e parceiros considerados

Selecione todos os aplicáveis

- ONGs
- Clientes
- Funcionários
- Investidores
- Fornecedores
- Comunidades locais
- Órgãos reguladores

(2.2.2.15) Este processo mudou desde o ano de reporte anterior?

Selecione de:

Não

(2.2.2.16) Outros detalhes do processo

The process of identifying, assessing and managing dependencies, impacts, risks and opportunities at Marfrig is comprehensive and systematic, covering 100% of its direct operations, which include slaughter and processing plants, distribution centers and corporate offices in all countries where the company operates, such as Argentina, Brazil, Chile, Uruguay and the USA. The cattle supply chain in Brazil is also assessed. For data that is not obtained directly from operations, Marfrig uses climate scenarios developed by the IPCC, specifically the SSP1-2.6 and SSP3-7.0 scenarios, and climate data from CMIP6. Climate transition risks and opportunities are analyzed using NGFS scenarios, including the NDC and NetZero scenarios. The integration of this process into the company's risk management system is carried out through a structured and continuous analysis, which considers both financial and transition risks. The impact and probability of risks are assessed based on financial, reputational, operational and regulatory investments. Scenario analysis is a crucial tool, using different emission and socioeconomic development trajectories to predict potential impacts. This process is coordinated by the Sustainability Committee and the Risk Management and Finance Committee. To determine which risks and opportunities may have a material financial or strategic impact, Marfrig considers those that may impact more than 0.5% of adjusted EBITDA. The methodology used involves both qualitative and quantitative factors, prioritizing actions that offer the greatest net benefits. Forecasting models are used to assess the magnitude of impacts, considering historical data and climate projections. Trade-off analysis is an integral part of the process, allowing the assessment of trade-offs between different environmental and business objectives. Continuous monitoring of dependencies, impacts, risks and opportunities is carried out through monthly meetings of the Sustainability Committee and the Board of Directors, where ongoing strategies and actions are reviewed. In addition, the company regularly reviews climate maps, plant reports, supply and demand scenarios, price curves and economic scenarios to adjust its mitigation strategies and take advantage of emerging opportunities. This comprehensive process ensures that Marfrig's risk management is proactive and integrated into its operations and business strategies.

Row 3

(2.2.2.1) Problema ambiental

Selecione todos os aplicáveis

Florestas

(2.2.2.2) Indique quais dependências, impactos, riscos e oportunidades são abrangidos pelo processo para este problema ambiental

Selecione todos os aplicáveis

Dependências

Impactos

Riscos

Oportunidades

(2.2.2.3) Etapas da cadeia de valor abrangidas

Selecione todos os aplicáveis

- Operações diretas
- Cadeia de valor <i>upstream</i>

(2.2.2.4) Abrangência

Selecione de:

- Total

(2.2.2.5) Camadas de fornecedores abrangidas

Selecione todos os aplicáveis

- Fornecedores da Camada 1
- Fornecedores da Camada 2

(2.2.2.7) Tipo de avaliação

Selecione de:

- Qualitativa e quantitativa

(2.2.2.8) Frequência da avaliação

Selecione de:

- Mais do que uma vez por ano

(2.2.2.9) Horizontes de tempo abrangidos

Selecione todos os aplicáveis

- Curto prazo
- Médio prazo
- Longo prazo

(2.2.2.10) Integração do processo de gestão de riscos

Selecione de:

- Integrado no processo de gestão de riscos multidisciplinar da organização como um todo

(2.2.2.11) Especificidade local usada

Selecione todos os aplicáveis

- Específico do local
- Local
- Subnacional
- Nacional

(2.2.2.12) Ferramentas e métodos usados

Ferramentas disponíveis comercial/publicamente

- Boi na Linha

Gestão de riscos corporativos

- Gestão de riscos corporativos

Outros

- Análise de cenários

(2.2.2.13) Tipos de risco e critérios considerados

Parâmetro físico agudo

- Inundação (costeira, fluvial, pluvial, de águas subterrâneas)

Físico crônico

- Estresse térmico
- Aumento na vulnerabilidade do ecossistema
- Estresse hídrico

Política

- Mudanças na legislação nacional

Mercado

- Disponibilidade e/ou maior custo das matérias-primas
- Mudança no comportamento do consumidor
- Mercados irregulares
- Incerteza sobre a origem e/ou legalidade da <i>commodity</i>

Reputação

- Maior preocupação e <i>feedback</i> negativo dos parceiros e partes interessadas
- Cobertura negativa da imprensa com relação ao apoio a projetos ou atividades com impactos negativos ao ambiente (por exemplo, emissões de GEE, desmatamento e conversão, estresse hídrico)

Tecnológico

- Incapacidade de aumentar o rendimento das áreas de produção existentes

Responsabilidade

- Moratórias e acordos voluntários
- Não conformidade com a regulamentação

(2.2.2.14) Partes interessadas e parceiros considerados

Selecione todos os aplicáveis

- ONGs
- Clientes
- Funcionários
- Investidores
- Fornecedores
- Povos indígenas
- Comunidades locais
- Órgãos reguladores
- Outros usuários/produtores de <i>commodity</i> no nível local

(2.2.2.15) Este processo mudou desde o ano de reporte anterior?

Selecione de:

Não

(2.2.2.16) Outros detalhes do processo

Timber: Marfrig conducts internal assessments to identify environmental risks associated with its use of wood, including paper, cardboard, and other forestry materials used in packaging and administration. The company ensures that all consumed materials are certified by the FSC (Forest Stewardship Council) or other recognized certifications, verifying the responsible origin of the wood. Marfrig extends this risk assessment to its supply chain, requiring suppliers to adopt sustainable practices as outlined in its 2020 Forest Material Acquisition Policy. This policy ensures deforestation-free production chains by avoiding wood from illegally deforested areas or suppliers that violate human rights. The company also promotes the use of recyclable cardboard packaging and recycles wooden pallets to reduce the need for new materials. Firewood used in boilers is certified, sourced from eucalyptus wood of known origin from planted commercial areas, and acquired with proper documentation to guarantee legal origin. Effective forestry risk management is crucial for Marfrig to maintain its positive image, meet growing stakeholder expectations for sustainability, and avoid potential reputational and financial impacts. Cattle: Marfrig employs various tools and methodologies, such as socio-environmental risk mapping and environmental performance indicators, to identify risk areas and prioritize mitigation actions. Continuous monitoring of supplier farms using satellite imagery and information from the Rural Environmental Registry (CAR) helps verify ecosystem preservation and identify deforestation and conflicts. The company integrates this monitoring into its organization-wide risk management process, enabling regular and periodic oversight of high-risk areas. In 2023, Marfrig achieved 100% compliance in the first cycle of auditing under the Amazon Region Cattle Suppliers Monitoring Protocol ('Beef on Track'), reflecting its commitment to socio-environmental legislation. Marfrig requires its animal suppliers to meet socio-environmental criteria, including commitments against deforestation and adherence to land and environmental laws, while prohibiting animal rearing in indigenous or quilombola territories. Soy: Marfrig sources soy for animal feed in Uruguay and for certain industrialized products in Brazil, ensuring all purchases follow responsible sourcing procedures with guaranteed origin. The company works with suppliers committed to the Soy Moratorium, a global agreement to prevent deforestation in the Amazon. Marfrig uses the Deforestation Risk Map to identify and prioritize actions in areas exposed to socio-environmental risks, combining data from Mapbiomas and Trase for comprehensive risk analysis. The company's continuous evaluation of soy suppliers considers both current and future risks over a six-year period. Marfrig's soy purchases, primarily from national suppliers like ADM, Brevil, and Dupont, align with strict policies against sourcing from deforested areas. These suppliers, including BRF, undergo self-assessments covering aspects like harvesting area, soil fertility monitoring, and pesticide use, reinforcing the socio-environmental practices outlined in their Codes of Conduct.
[Adicionar linha]

(2.2.7) As interconexões entre dependências, impactos, riscos e/ou oportunidades ambientais são avaliadas?

(2.2.7.1) As interconexões entre dependências, impactos, riscos e/ou oportunidades ambientais são avaliadas

Selecione de:

Sim

(2.2.7.2) Descrição de como as interconexões são avaliadas

Integrating different environmental dependencies, impacts, risks and opportunities into a single process requires a holistic and structured approach. The first step is the initial mapping and assessment, which involves identifying the organization's activities that depend on natural resources and generate environmental impacts. This includes a detailed analysis of the value chain and internal processes. Next, an analysis of the risks associated with the identified dependencies and impacts is carried out, also seeking to identify opportunities for mitigation and improvement. In the integration phase, the organization looks for synergies, that is, areas where risk mitigation initiatives can create opportunities. For example, reducing greenhouse gas (GHG) emissions can be aligned with improving energy efficiency, generating both environmental and economic benefits. In addition, the organization implements practices that contribute to multiple objectives, such as the adoption of technologies that reduce the use of natural resources and reduce operating costs. Trade-off analysis is crucial in this process, evaluating the possible trade-offs between different environmental and business objectives. An example of this is the need to balance emissions reduction with the necessary investments in new technologies. Decisions are based on quantitative and qualitative data, prioritizing actions that offer the greatest net benefits. To illustrate how the interconnections between dependencies, impacts, risks and opportunities are considered, one can cite the control of origin and use of natural resources. The controlled origin of raw materials not only reduces environmental impacts, such as deforestation, but also ensures the sustainability of the supply chain. Another example is the relationship between GHG emissions and animal welfare; practices that improve animal welfare can also reduce emissions, such as proper handling that minimizes animal stress and increases feed efficiency. In effluent and waste management, appropriate measures can minimize negative environmental impacts and contribute to the company's social responsibility, involving the local community in recycling programs. Marfrig's climate risk assessment follows the procedures established in the Corporate Risk Policy, using impact and probability rules. Impacts are assessed in financial, reputational, operational and regulatory terms. For physical climate risks, threats such as changes in wind patterns, landslides, river floods, heat waves, meteorological drought and storms are considered, which represent material risks to the company's operating units and value chain. Transition risks are assessed in the categories of market, regulations, reputation and technologies, considering the context of the sector in each country of operation. The assessment covers Marfrig's direct operations, including slaughter and processing operations, distribution centers and corporate offices in all countries wh
[Linha fixa]

(2.3) Foram identificados locais prioritários na cadeia de valor da organização?

(2.3.1) Identificação de locais prioritários

Selecione de:

- Sim, identificamos locais prioritários

(2.3.2) Etapas da cadeia de valor onde os locais prioritários foram identificados

Selecione todos os aplicáveis

- Operações diretas
- Cadeia de valor <i>upstream</i>
- Cadeia de valor <i>downstream</i>

(2.3.3) Tipos de locais prioritários identificados

Locais sensíveis

- ☑ Áreas importantes para a biodiversidade
- ☑ Áreas de alta integridade ecossistêmica
- ☑ Áreas de disponibilidade de água limitada, inundações e/ou má qualidade da água
- ☑ Áreas de importância para a entrega de serviços ecossistêmicos

Locais com grandes dependências, impactos, riscos e/ou oportunidades

- ☑ Locais com grandes dependências, impactos, riscos e/ou oportunidades relacionados às florestas
- ☑ Locais com grandes dependências, impactos, riscos e/ou oportunidades relacionados à água
- ☑ Locais com grandes dependências, impactos, riscos e/ou oportunidades relacionados à biodiversidade

(2.3.4) Descrição do processo para identificar locais prioritários

Rich text input [must be under 3000 characters] x Marfrig assesses climate risks in accordance with its Corporate Risk Policy, applying impact and probability rules to identify financial, reputational, operational and regulatory risks. Physical risks include changes in wind patterns, landslides, floods, heat waves, meteorological drought and storms. Transition risks are assessed in the categories of market, regulations, reputation and technologies, considering the sectoral and local context. The assessment covers Marfrig's direct operations and supply chain in Argentina, Brazil, Chile, Uruguay and the USA. It uses IPCC climate scenarios (RCPs and SSPs) and CMIP6 data, focusing on two main scenarios: SSP1-2.6 and SSP3-7.0 for the 2030 and 2050 horizons. The company also assesses NGFS transition scenarios (NDC and NetZero). The magnitude of physical impacts is determined by the financial relevance of the units (revenue) or operational relevance (tons produced). Probabilities are calculated based on historical climate extremes, converted to a scale of 0 to 1 to correlate frequency, duration and severity. Additionally, Marfrig incorporates the WRI Aqueduct tool to analyze water stress levels across its operations, providing insights into regional water stress and helping to assess water-related risks and impacts in conjunction with climate data. Financial impacts are assessed cumulatively until 2050, considering significant exposure if the impact exceeds 5% of Adjusted EBITDA (R45 million) or if it leads to the destruction of infrastructure without recovery. The Verde Program highlights the integration of the assessment of environmental dependencies, impacts, risks and opportunities, with an investment of R100 million to control 100% of the supply chain by 2025. The program includes the recovery of 100 thousand hectares of degraded pastures, restoration of 6 thousand hectares of native forests, intensification of regenerative agriculture, genetic improvement of livestock and certification of carbon credits. To identify priority locations, Marfrig uses advanced tools and reliable data, combining emission and socioeconomic development scenarios to determine the importance of impacts and risks in specific locations. Geospatial monitoring and the Socioenvironmental Risk Mitigation Map help identify areas exposed to risks in the Amazon and Cerrado biomes. The “Conecta” blockchain platform promotes traceability and verifies deforestation incidents. By 2024, around 15,000 suppliers have been pre-registered on Conecta. In the future, Marfrig plans to improve the identification of priority locations by developing more advanced climate modeling tools, integrating new data sources and refining indicators. Collaboration with research institutions and international organizations will be strengthened to keep assessments aligned with best practices and scientific advances, ensuring proactive management of climate risks and protection.

(2.3.5) A organização divulgará uma lista/mapa espacial dos locais prioritários?

Selecione de:

- Não, temos uma lista/mapa geoespacial dos locais prioritários, mas não vamos divulgá-la
[Linha fixa]

(2.4) Como a organização define efeitos significativos para ela?

Riscos

(2.4.1) Tipo de definição

Selecione todos os aplicáveis

- Qualitativa
- Quantitativa

(2.4.2) Indicador usado para definir efeito significativo

Selecione de:

- EBITDA

(2.4.3) Mudança para indicador

Selecione de:

- Porcentagem de redução

(2.4.4) Porcentagem de mudança para indicador

Selecione de:

- Menos de 1%

(2.4.6) Métricas consideradas na definição

Selecione todos os aplicáveis

- Frequência em que ocorre o efeito

- Horizonte de tempo em que o efeito ocorre

(2.4.7) Aplicação da definição

Marfrig's corporate risks are managed based on two main approaches. The first involves significant risks that are covered by its own policies, such as exchange rate fluctuations, interest rates, commodity prices and liquidity. These risks are monitored and addressed continuously, with quarterly reviews, in accordance with the Risk Management Policy. Transactions with related parties and conflicts of interest are regulated by specific policies that ensure transparency and equitable treatment, with information available on the Investor Relations website. The second approach deals with risks that are not directly controlled, such as regulatory and environmental changes. These are monitored continuously, with individual analyses and structured procedures to minimize risks. These risks are managed through systematic processes and are assessed based on an approach that includes identifying changes and responding effectively. Practices and procedures are reviewed and improved as necessary, with information available in the company's Reference Form. The frequency of effects varies according to the type of risk. Financial and operational risks are assessed and adjusted continuously, generally with quarterly reviews. Climate and environmental risks, on the other hand, have a long-term approach, with assessments carried out at semi-annual or annual intervals, mainly considering the horizons of 2030 and 2050. The probability of effects is calculated based on historical data and climate models. For financial risks, historical fluctuations and market data are used. For climate risks, each extreme climate indicator is represented by a raw value that is converted to a scale of 0 to 1 to determine the probability. The analyses are combined in a matrix approach, which assesses the financial impact, the operational impact and the probability of occurrence to determine the total exposure and prioritized mitigation actions. Measures and their limits are selected, reviewed and updated regularly. For financial and operational risks, the review frequency is quarterly, while for climate risks, the review occurs semi-annually or annually, depending on changes in climate and regulatory conditions. This approach ensures proactive and adaptive risk management, aligned with best practices and scientific advances. A significant impact is considered to be a risk that, if it materializes, causes a financial impact greater than 0.5% of the company's EBITDA (R 46.5 million).

Oportunidades

(2.4.1) Tipo de definição

Selecione todos os aplicáveis

- Qualitativa
- Quantitativa

(2.4.2) Indicador usado para definir efeito significativo

Selecione de:

- EBITDA

(2.4.3) Mudança para indicador

Selecione de:

- Porcentagem de aumento

(2.4.4) Porcentagem de mudança para indicador

Selecione de:

- 1-10

(2.4.6) Métricas consideradas na definição

Selecione todos os aplicáveis

- Frequência em que ocorre o efeito
- Horizonte de tempo em que o efeito ocorre

(2.4.7) Aplicação da definição

Marfrig's corporate risks are managed based on two main approaches. The first involves significant risks that are covered by its own policies, such as exchange rate fluctuations, interest rates, commodity prices and liquidity. These risks are monitored and addressed continuously, with quarterly reviews, in accordance with the Risk Management Policy. Transactions with related parties and conflicts of interest are regulated by specific policies that ensure transparency and equitable treatment, with information available on the Investor Relations website. The second approach deals with risks that are not directly controlled, such as regulatory and environmental changes. These are monitored continuously, with individual analyses and structured procedures to minimize risks. These risks are managed through systematic processes and are assessed based on an approach that includes identifying changes and responding effectively. Practices and procedures are reviewed and improved as necessary, with information available in the company's Reference Form. The frequency of effects varies according to the type of risk. Financial and operational risks are assessed and adjusted continuously, generally with quarterly reviews. Climate and environmental risks, on the other hand, have a long-term approach, with assessments carried out at semi-annual or annual intervals, mainly considering the horizons of 2030 and 2050. The probability of effects is calculated based on historical data and climate models. For financial risks, historical fluctuations and market data are used. For climate risks, each extreme climate indicator is represented by a raw value that is converted to a scale of 0 to 1 to determine the probability. The analyses are combined in a matrix approach, which assesses the financial impact, the operational impact and the probability of occurrence to determine the total exposure and prioritized mitigation actions. Measures and their limits are selected, reviewed and updated regularly. For financial and operational risks, the review frequency is quarterly, while for climate risks, the review occurs semi-annually or annually, depending on changes in climate and regulatory conditions. This approach ensures proactive and adaptive risk management, aligned with best practices and scientific advances. A significant impact is considered to be a risk that, if it materializes, causes a financial impact greater than 0.5% of the company's EBITDA (R 93 million).

[Adicionar linha]

(2.5) A organização identifica e classifica potenciais poluentes hídricos associados às suas atividades que poderiam ter um impacto negativo para os ecossistemas aquáticos ou para a saúde humana?

(2.5.1) Identificação e classificação de potenciais poluentes hídricos

Selecione de:

- Sim, identificamos e classificamos nossos potenciais poluentes hídricos

(2.5.2) Como os potenciais poluentes hídricos são identificados e classificados

To identify and classify its potential water pollutants, the Marfrig implemented the Effluent Treatment process in all its operating units, which consist of structures in which the input goes through physical-chemical treatments, followed by biological procedures, so that, at the end of the process, it meets the discharge standards required by the prevailing federal or state legislation. This structure also gives the industrial units autonomy to receive and treat the wastewater generated in the various production stages. To identify pollutants, Marfrig uses laboratory sampling in external laboratories, in order to quantify the concentration indicator of the substance that will be evaluated if it is within the limit established by legislation. To classify pollutants, each independent laboratory can use an approach. Among the most common applied to Marfrig are: values established in CONAMA 503/2021; Art. 19A Dec. 8468/76; CONAMA No. 430, CETESB DECREE 8468/76. The most relevant indicators used to identify substances are the concentrations, normally in mg/L, of these substances present in the effluents treated and discharged by each Marfrig operational unit, such as, for example, concentration of BOD (mg/L), Nitrates (mg/L) and Phosphates (mg/L). Through the concentrations, it is possible to monitor and verify compliance with standards, regulations and targets.

[Linha fixa]

(2.5.1) Descreva como a organização minimiza os impactos negativos de potenciais poluentes hídricos em ecossistemas aquáticos ou para a saúde humana associados às suas atividades.

Row 1

(2.5.1.1) Categoria de poluente hídrico

Selecione de:

- Nitratos

(2.5.1.2) Descrição do poluente e potenciais impactos

Nitrate (NO_3) is a nitrogenous compound that, when present in high concentrations in water bodies, can cause serious environmental impacts. Nitrate is one of the main causes of eutrophication of water bodies, a process in which excess nutrients, mainly nitrogen and phosphorus, lead to the uncontrolled growth of algae and aquatic plants. This excessive growth can deplete the dissolved oxygen in the water, causing the death of fish and other aquatic organisms. At Marfrig, which operates slaughterhouses and meat processing plants, the presence of nitrate in effluents may be associated with the use of water in washing and cleaning processes and in the handling of organic waste rich in nitrogen (blood, fats, tissue remnants, and other organic waste). Nitrate is not generally listed in regulations such as REACH as a substance of direct risk, but is regulated by CONEMA in terms of its permissible concentrations in drinking water and effluents.

(2.5.1.3) Estágio da cadeia de valor

Selecione todos os aplicáveis

- Operações diretas

(2.5.1.4) Ações e procedimentos para minimizar os impactos negativos

Selecione todos os aplicáveis

- Tratamento da descarga usando processos específicos para o setor para assegurar a conformidade com as exigências regulatórias

(2.5.1.5) Explique

The treatment of effluents in the WWTPs of each Marfrig operational unit is essential to manage and reduce the potential impacts associated with inorganic pollutants, such as nitrate, in the effluents generated by Marfrig's operations, reducing them to safe levels before discharge into the environment. The treatment of effluents (secondary or tertiary), such as the removal of nutrients, helps prevent eutrophication, oxygen depletion and changes in the chemical composition of the receiving water bodies. By ensuring that nitrate is removed or significantly reduced, the procedure protects water quality, aquatic ecosystems and human health. The success of the procedure is assessed through continuous monitoring of nitrate concentrations in the treated effluents. This is done through regular laboratory analyses, which verify whether nitrate concentrations comply with the limits established by environmental legislation, such as those stipulated by CONAMA Resolution No. 430/2011. Adjusting nitrate concentrations to the limits established by CONAMA is essential to ensure that treated effluents can be discharged into the environment without causing adverse impacts. This continuous monitoring allows Marfrig to adjust its treatment processes as necessary, ensuring regulatory compliance and minimizing environmental impacts.

Row 2

(2.5.1.1) Categoria de poluente hídrico

Selecione de:

- Outros poluentes que demandam nutrientes e oxigênio

(2.5.1.2) Descrição do poluente e potenciais impactos

Biochemical Oxygen Demand (BOD) is a crucial indicator of organic pollution in water bodies, measuring the amount of oxygen required for microorganisms to decompose organic matter present in the water. High levels of BOD can cause serious environmental impacts, such as the depletion of dissolved oxygen in the water, which can result in the death of fish and other aquatic organisms. BOD is a major cause of hypoxia in water bodies at high concentrations, a process in which available oxygen is consumed faster than it can be replaced, leading to the creation of "dead zones" where aquatic life cannot survive. At Marfrig, which operates slaughterhouses and meat processing plants, high levels of BOD in effluents may be associated with the handling of organic waste (blood, fats, tissue remnants, and other organic waste), washing and cleaning processes, which release organic matter into the wastewater. Although BOD is not generally listed in regulations such as REACH as a substance of direct risk, it is strictly regulated by environmental standards such as CONAMA Resolution No. 430/2011, which establishes maximum limits for BOD in effluents. These limits are essential to ensure that treated effluents can be released into the environment without causing negative impacts on water quality and aquatic life.

(2.5.1.3) Estágio da cadeia de valor

Selecione todos os aplicáveis

Operações diretas

(2.5.1.4) Ações e procedimentos para minimizar os impactos negativos

Selecione todos os aplicáveis

Tratamento da descarga usando processos específicos para o setor para assegurar a conformidade com as exigências regulatórias

(2.5.1.5) Explique

Effluent treatment at the WWTPs of each Marfrig operating unit is essential to manage and reduce potential impacts associated with organic pollutants, such as the high load of organic matter, which contributes to BOD in the effluents generated by Marfrig's operations. Reducing BOD to safe levels before discharge into the environment is crucial to minimizing negative impacts. Effluent treatment (secondary or tertiary), which includes the removal of organic matter, helps prevent eutrophication, oxygen depletion and changes in the chemical composition of receiving water bodies. Ensuring that BOD is significantly reduced protects water quality, aquatic ecosystems and human health. The success of the procedure is assessed through continuous monitoring of BOD concentration (mg/l) in the treated effluents. This is done through regular laboratory analyses, which verify whether BOD levels comply with the limits established by environmental legislation, such as those stipulated by CONAMA Resolution No. 430/2011, which defines maximum limits for BOD in effluents. Adjusting BOD levels to the limits established by CONAMA is essential to ensure that treated effluents can be discharged into the environment without causing adverse impacts. This continuous monitoring allows Marfrig to adjust its treatment processes as necessary, ensuring regulatory compliance and minimizing environmental impacts

Row 3

(2.5.1.1) Categoria de poluente hídrico

Selecione de:

Fosfatos

(2.5.1.2) Descrição do poluente e potenciais impactos

The treatment of effluents in the WWTPs of each Marfrig operating unit is essential to manage and reduce the potential impacts associated with pollutants and nutrients, such as phosphorus, in the effluents generated by Marfrig's operations. Reducing phosphorus levels to safe levels before discharge into the environment is crucial to minimize negative impacts. Phosphorus is an essential nutrient, but in excess, it can contribute to the eutrophication of water bodies. This process occurs when the high presence of phosphorus promotes the uncontrolled growth of algae and aquatic plants. This excessive growth can lead to the depletion of oxygen in the water due to the destruction of algae and aquatic plants, resulting in hypoxic conditions that can lead to the death of fish. In addition, excess phosphorus can alter the chemical composition of the water, making it unsuitable for human consumption and aquatic life. Some phosphorus species that proliferate due to excess phosphorus can also produce specific toxins for aquatic fauna and for humans who come into contact with contaminated water. Although phosphorus is not listed in regulations such as REACH as a substance of direct risk, it is strictly regulated by environmental standards, such as CONAMA Resolution No. 430/2011, which establishes maximum limits for phosphorus in effluents. These limits are essential to ensure that treated effluents can be released into the environment without causing negative impacts on water.

(2.5.1.3) Estágio da cadeia de valor

Selecione todos os aplicáveis

Operações diretas

(2.5.1.4) Ações e procedimentos para minimizar os impactos negativos

Selecione todos os aplicáveis

Tratamento da descarga usando processos específicos para o setor para assegurar a conformidade com as exigências regulatórias

(2.5.1.5) Explique

Effluent treatment (secondary or tertiary), which includes the removal of nutrients such as phosphorus, helps prevent eutrophication, oxygen depletion and changes in the chemical composition of receiving water bodies. Ensuring that phosphorus is removed or significantly reduced protects water quality, aquatic ecosystems and human health. The success of the procedure is assessed through continuous monitoring of the phosphorus concentration (mg/l) in the treated effluents. This is done through regular laboratory analyses, which verify whether phosphorus levels comply with the limits established by environmental legislation, such as those stipulated by CONAMA Resolution No. 430/2011, which defines maximum limits for phosphorus in effluents. Adjusting phosphorus levels to the limits established by CONAMA is essential to ensure that treated effluents can be discharged into the environment without causing adverse impacts. This continuous monitoring allows Marfrig to adjust its treatment processes as necessary, ensuring regulatory compliance and minimizing environmental impacts.

[Adicionar linha]

C3. Divulgação de riscos e oportunidades

(3.1) Foi identificado algum risco ambiental que tenha causado um efeito significativo na organização no ano de reporte ou que esteja previsto para causar um efeito significativo na organização no futuro?

Mudanças climáticas

(3.1.1) Riscos ambientais identificados

Selecione de:

Sim, nas operações diretas e cadeia de valor <i>upstream/downstream</i>

Florestas

(3.1.1) Riscos ambientais identificados

Selecione de:

Sim, nas operações diretas e cadeia de valor <i>upstream/downstream</i>

Água

(3.1.1) Riscos ambientais identificados

Selecione de:

Sim, nas operações diretas e cadeia de valor <i>upstream/downstream</i>

Plásticos

(3.1.1) Riscos ambientais identificados

Selecione de:

Não

(3.1.2) Principal motivo por que a organização não considera ter riscos ambientais em suas operações diretas e/ou cadeia de valor <i>upstream/downstream</i>

Selecione de:

- Não é uma prioridade estratégica imediata

(3.1.3) Explique

Marfrig adopts a broad and integrated approach to identify, assess and mitigate environmental risks in its operations and value chain. This analysis covers strategic and high-impact areas, such as water resource management, greenhouse gas emissions and ecosystem preservation. In this context, environmental risks related to the use of plastics were not identified as a priority for Marfrig's operations. This is due, in part, to the focus on environmental issues more directly linked to the company's core activities, such as sustainable livestock farming, land use and impact on biodiversity. In addition, Marfrig remains committed to strictly following all applicable environmental legislation and adopting responsible waste management practices, including those involving plastic materials. Marfrig also prioritizes sustainability initiatives that are more relevant to its operations, aligning its efforts with the UN Sustainable Development Goals and global environmental best practice guidelines, always seeking to minimize any type of environmental impact throughout its value chain. Based on these considerations, the risk related to plastics was not considered significant, since the company maintains adequate controls to mitigate any potential environmental impact related to this issue.

[Linha fixa]

(3.1.1) Dê detalhes sobre os riscos ambientais identificados que tenham causado um efeito significativo na organização no ano de reporte ou que estejam previstas para ter um efeito significativo na organização no futuro.

Mudanças climáticas

(3.1.1.1) Identificador de risco

Selecione de:

- Risk1

(3.1.1.3) Tipos de risco e principal fator de risco ambiental

Política

- Mecanismos de precificação do carbono

(3.1.1.4) Etapa da cadeia de valor onde o risco ocorre

Selecione de:

- Operações diretas

(3.1.1.6) País/área onde o risco ocorre

Selecione todos os aplicáveis

- Brasil

(3.1.1.9) Descrição específica da organização para o risco

Marfrig Global Foods is subject to extensive legislation and government regulation in the countries and international markets where it operates, as well as in the countries that import its products. The climate issue has been reinforced through mandatory reporting mechanisms of greenhouse gas emissions and taxation of emissions. This fact has been increasing due to the National Policies on Climate Change and NDCs in the countries where Marfrig operates. The company considers carbon taxation a measure likely to occur in the short and medium term. For example, in Brazil, Bill 528/21 establishes the Brazilian Market for Emissions Reduction (MBRE), which will regulate the purchase and sale of carbon credits in the country. Currently, in the state of São Paulo, the environmental agency requires mandatory communication from production units that emit more than 20,000 tCO₂e. One of our operating units, located in Promissão, carries out this type of communication. To manage these risks, we monitor the environmental impacts of our direct operations and take steps to minimize the impact of our operations and suppliers. In this sense, the company monitors legislation on carbon taxes in the countries where it operates to anticipate regulations and prepare the management of this issue. For Marfrig, risks in carbon taxation systems are related to financial penalties for non-compliance with GHG emission reduction targets, which may result in indirect costs for Marfrig's operations.

(3.1.1.11) Principal efeito financeiro do risco

Selecione de:

- Maiores custos indiretos [operacionais]

(3.1.1.12) Horizonte de tempo para o qual está previsto o efeito significativo do risco na organização

Selecione todos os aplicáveis

- Curto prazo

(3.1.1.13) Probabilidade do risco provocar um efeito dentro do horizonte de tempo previsto

Selecione de:

Muito provável

(3.1.1.14) Magnitude

Selecione de:

Média-alta

(3.1.1.16) Efeito previsto do risco na posição financeira, desempenho financeiro e fluxos de caixa da organização nos horizontes de tempo futuro selecionados

Marfrig did not evaluated the effect of the risk on the financial performance, position and cash flow of the organization.

(3.1.1.17) É possível quantificar o efeito financeiro do risco?

Selecione de:

Sim

(3.1.1.19) Valor previsto do efeito financeiro no curto prazo - mínimo (moeda)

22425625.7

(3.1.1.20) Valor previsto do efeito financeiro no curto prazo - máximo (moeda)

44851251.5

(3.1.1.25) Explicação do valor do efeito financeiro

According to the State and Trends of Carbon Pricing 2024, published by the World Bank, the price of a tonne of carbon dioxide equivalent (tCO₂e) could reach USD 50-100/tCO₂e by 2030. Currently, the average price of a tonne of carbon dioxide is USD 63/tCO₂e. This value was considered to estimate the potential financial impact for the company, applied to scope 1 and 2 emissions referring to Brazil 79.512,667 tCO₂eq 11.279,341 tCO₂eq 90.792,007 tCO₂e), and applying the exchange rate (US 1 4.94) to the value of a ton of carbon. 90.792,007 tCO₂eq x US 63/tCO₂eq US 5,719,896.44 -- US 5,719,896.44 x 4.94 R 28,256,288.4

(3.1.1.26) Principal resposta ao risco

Preços e créditos

Promoção/compra de créditos de carbono

(3.1.1.27) Custo da resposta ao risco

1031654.08

(3.1.1.28) Explicação do cálculo do custo

The disclosed costs summarize the company's investment: Costs associated with monitoring emissions/environmental regulations of the operation and costs associated with the sustainability/investment team [BRL 1,031,654.08]

(3.1.1.29) Descrição da resposta

The introduction of voluntary carbon emissions reductions in all of the company's units was defined as a guideline before the regulation came into effect. All of Marfrig's units monitor their carbon emissions through the Marfrig Global Inventory and work on developing GHG emissions reduction projects, which are efficiency measures and a way to avoid potential penalties related to carbon taxation. GHG emissions reduction projects include the use of low-emission technologies and operational practices such as fuel switching and improving the primary treatment of the effluents generated. An example of an action to reduce GHG emissions occurred at the Tacuarembó unit in Uruguay, through the installation of a wind generator to replace part of the thermoelectric energy purchased from the public supply company. With this investment, the plant generated 13% to 16% of the energy it consumes in a sustainable manner. In 2018, Marfrig entered into an unprecedented partnership with EMBRAPA, with the aim of encouraging the adoption of more sustainable livestock practices. The initiative encompasses the concepts of Carbon Neutral Meat (CCN) and Low Carbon Meat (CBC) production, for the certification of meat produced in systems that neutralize or reduce methane emissions from animals, strengthening the value added to the chain. The management cost involves those costs associated with Marfrig's Emissions Inventory, to monitor its emissions, and with monitoring operational compliance with environmental regulations in the countries where it operates and exports its products, as well as the costs of the Sustainability team and its investments, such as the wind power plant installed in Tacuarembó.

Florestas

(3.1.1.1) Identificador de risco

Selecione de:

Risk5

(3.1.1.2) <i>Commodity</i>

Selecione todos os aplicáveis

- Produto florestal madeireiro

(3.1.1.3) Tipos de risco e principal fator de risco ambiental

Mercado

- Incerteza sobre a origem e/ou legalidade da <i>commodity</i>

(3.1.1.4) Etapa da cadeia de valor onde o risco ocorre

Selecione de:

- Cadeia de valor <i>upstream</i>

(3.1.1.6) País/área onde o risco ocorre

Selecione todos os aplicáveis

- Brasil

(3.1.1.9) Descrição específica da organização para o risco

Marfrig recognizes that it is exposed to risks in the supply chain, which could affect its brand in the market, in a situation of potential acquisition of wood forest products from regions related to the deforestation of native forests, invasion of protected lands (Indigenous Lands and Conservation Units) or symbolic work to the slave. The materialization of this risk would have negative consequences for the company, harming its brand, which could lead to market losses, change in consumer perception, termination of contracts, among other losses. The consequences would be reduced demand for our products and reduced revenue. In response to this risk, Marfrig has already been investing in the purchase of wood products certified by the FSC seal, hoping that this measure will at least reduce the chances of this risk materializing.

(3.1.1.11) Principal efeito financeiro do risco

Selecione de:

- Danos à marca

(3.1.1.12) Horizonte de tempo para o qual está previsto o efeito significativo do risco na organização

Selecione todos os aplicáveis

- Médio prazo

(3.1.1.13) Probabilidade do risco provocar um efeito dentro do horizonte de tempo previsto

Selecione de:

Improvável

(3.1.1.14) Magnitude

Selecione de:

Baixa

(3.1.1.16) Efeito previsto do risco na posição financeira, desempenho financeiro e fluxos de caixa da organização nos horizontes de tempo futuro selecionados

Marfrig did not evaluate the effect of the risk on the financial performance, position and cash flow of the organization.

(3.1.1.17) É possível quantificar o efeito financeiro do risco?

Selecione de:

Sim

(3.1.1.21) Valor previsto do efeito financeiro no médio prazo - mínimo (moeda)

49744936

(3.1.1.22) Valor previsto do efeito financeiro no médio prazo - máximo (moeda)

49744936

(3.1.1.25) Explicação do valor do efeito financeiro

Based on international estimates of the relationship between market resale and negative media coverage, the company estimates that an impact on its subjection and brand related to food/illegal wood products used in its direct operations represent low risk, with the potential to represent approximately 0.1% of gross revenue. This is because this raw material is not the main one in our operations, being used in secondary operations. Thus, the value calculated as the impact of this risk represents this percentage applied to the company's gross revenue in the base year.

(3.1.1.26) Principal resposta ao risco

Conformidade, monitoramento e metas

Maior rastreabilidade de <i>commodities</i>

(3.1.1.27) Custo da resposta ao risco

2000000

(3.1.1.28) Explicação do cálculo do custo

Management of paper and board suppliers with raw material certification, as well as suppliers of biomass for boilers, where all legal documentation indicating the origin and destination of the forest product is required: BRL1,000,000 In addition, the cost also includes maintenance of planted forest areas: BRL1,000,000 Therefore, the total cost involved in these activities is BRL2,000,000.

(3.1.1.29) Descrição da resposta

Marfrig aims to ensure that its production chains are free of deforestation, adopting responsible raw material acquisition practices. The implementation of the Policy for the acquisition of material of forest origin (2020) and the consumption of paper and cardboard certified by the FSC are effective measures to prevent the occurrence of the inherent risk. These actions contribute to strengthening the company's image, increasing the confidence of consumers and business partners, avoiding possible negative impacts on brand perception. By purchasing wood from responsible sources, which respect socio-environmental criteria and promote the conservation of ecosystems, Marfrig demonstrates its commitment to sustainability and environmental preservation. In addition, all products of forestry origin supplied to Marfrig must originate from planted forests with measurable volume and plants in areas not embargoed by environmental agencies and/or located in areas of indigenous and/or traditional communities. For wood used as biomass in boilers, all suppliers of this input must present the Document of Forest Origin (DOF). The adoption of strict criteria in the selection of suppliers and constant monitoring ensure greater control over the supply chain and strengthen the company's ability to deal with future challenges. By avoiding the use of products from illegally deforested areas or suppliers that violate human rights and traditional populations, Marfrig reduces exposure to various risks.

Água

(3.1.1.1) Identificador de risco

Selecione de:

Risk8

(3.1.1.3) Tipos de risco e principal fator de risco ambiental

Físico crônico

- Estresse hídrico

(3.1.1.4) Etapa da cadeia de valor onde o risco ocorre

Selecione de:

- Operações diretas

(3.1.1.6) País/área onde o risco ocorre

Selecione todos os aplicáveis

- Brasil

(3.1.1.7) Bacia hidrográfica onde o risco ocorre

Selecione todos os aplicáveis

- Outro, especifique :PCJ/Tietê River

(3.1.1.9) Descrição específica da organização para o risco

The primary risk factor was identified through a risk assessment conducted using the WRI's Aqueduct tool and a climate projection study for production units, considering a timeframe until 2040. This assessment also drew from the company's experience with events affecting its units, such as the 2015 drought in southeastern Brazil. Marfrig operates 3 units within this drainage basin, with one of them (Itupeva) posing a significant water risk to the company. This unit is critical to Marfrig's operations, accounting for approximately 0.02% of Marfrig Beef's production capacity (based on 2023 figures). During water scarcity events, such as those experienced in the region in 2014/2015, water supply may diminish, potentially reducing the unit's water intake and impacting operational water availability. To assess the potential financial impact, the approach involved comparing the unit's production over 6 months at its full water withdrawal capacity with production under a reduced water withdrawal scenario (70% capacity). The difference in these values represents the financial impact in monetary terms. The expected timeframe for experiencing this financial impact is estimated to be between 4 to 6 years.

(3.1.1.11) Principal efeito financeiro do risco

Selecione de:

- Menores rendimentos devido à redução na capacidade de produção

(3.1.1.12) Horizonte de tempo para o qual está previsto o efeito significativo do risco na organização

Selecione todos os aplicáveis

Médio prazo

(3.1.1.13) Probabilidade do risco provocar um efeito dentro do horizonte de tempo previsto

Selecione de:

Mais provável que improvável

(3.1.1.14) Magnitude

Selecione de:

Média

(3.1.1.16) Efeito previsto do risco na posição financeira, desempenho financeiro e fluxos de caixa da organização nos horizontes de tempo futuro selecionados

Marfrig did not evaluated the effect of the risk on the financial performance, position and cash flow of the organization.

(3.1.1.17) É possível quantificar o efeito financeiro do risco?

Selecione de:

Sim

(3.1.1.21) Valor previsto do efeito financeiro no médio prazo - mínimo (moeda)

338559933

(3.1.1.22) Valor previsto do efeito financeiro no médio prazo - máximo (moeda)

338559933

(3.1.1.25) Explicação do valor do efeito financeiro

Marfrig operates one significant operational unit within this drainage basin. In the event of a water shortage, similar to the one in 2015, water supply in the area may decrease, potentially leading to reduced production capacity. To project the potential financial impact, a scenario was considered where water withdrawal for this unit is reduced by 30% over a 6-month period, resulting in a decrease in production capacity. The estimate takes into account days of production shutdown, fixed operating costs, and expenses related to maintaining the quality of raw materials for processing

(3.1.1.26) Principal resposta ao risco

Infraestrutura, tecnologia e gastos

Adotar práticas de eficiência, reutilização, reciclagem e conservação da água

(3.1.1.27) Custo da resposta ao risco

521333

(3.1.1.28) Explicação do cálculo do custo

The approach used to estimate the cost of the response strategy is based on CAPEX expenditures. Action costs primarily involve infrastructure investments aimed at improving water efficiency at the Itupeva unit, along with investments in employee training and best practices assessment. These costs directly address local challenges identified by units in resolving issues related to water shortages and are currently being evaluated. The estimates were derived from investments in enhancing water and effluent treatment plants. Notably, no additional value associated with maintaining uninterrupted operations was included. The anticipated timeline for incurring the costs associated with the response strategy is projected to be 2 to 3 years.

(3.1.1.29) Descrição da resposta

Marfrig's risk assessment identifies water scarcity and poor water quality as primary risks to its operations in this drainage basin. The assessments underscore the necessity of exploring alternative water sources and reducing water consumption intensity to mitigate the impacts of water scarcity as a primary risk response. Considering potential future scenarios involving water collection restrictions, Marfrig has developed an action plan to enhance water efficiency at units located in water-stressed areas. This plan includes implementing procedures for water reuse, thereby reducing the need for new water collections. Key practices outlined in the action plan include establishing site-specific goals, maintaining infrastructure, promoting best practices and awareness, providing incentives for water management, and initiating water reuse projects. At the Itupeva unit, Marfrig has already implemented several water efficiency measures. Treated effluent is reused for cleaning ETE equipment, while condensed water from air conditioning units is collected for watering garden areas. Additionally, defrost water from cold chambers is reused for initial chamber washes. All of these activities have been in progress since 2022.

Mudanças climáticas

(3.1.1.1) Identificador de risco

Selecione de:

Risk2

(3.1.1.3) Tipos de risco e principal fator de risco ambiental

Físico crônico

Precipitação ou variabilidade hidrológica

(3.1.1.4) Etapa da cadeia de valor onde o risco ocorre

Selecione de:

Operações diretas

(3.1.1.6) País/área onde o risco ocorre

Selecione todos os aplicáveis

Brasil

(3.1.1.9) Descrição específica da organização para o risco

Marfrig may be impacted by production costs due to energy regulations, such as taxation on fossil fuels and electricity pricing. These regulations affect the entire production chain, including our direct operations, since these inputs are widely used. In Brazil, while the Extended National Consumer Price Index (IPCA), which measures the evolution of inflation in the country, stood at 2.94% between January and July 2018, electricity increased by more than 13%. This increase was strongly influenced by the “tariff flags”, which is a tariff model adopted in Brazil to define tariff values. The company's operating units located in São Paulo, with greater intensity of energy consumption, felt some impact on costs related to the electricity consumed. The “tariff flags” are determined by the hydrological condition of the country, and directly influenced by the rainfall index of the period, since hydroelectric plants represent a large part of the Brazilian electricity matrix, around 67%. Due to the reduction in rainfall, it is necessary to activate the thermoelectric plants, which use fossil fuels to generate electricity, increasing the costs of energy production, which is passed on to the consumer. In 2023, Marfrig's units in Brazil consumed a total of 292,069,003.4 MWh with an average of R0.424/KWh. This amount of energy is susceptible to such variations in the price of electricity in the country and represents a risk for the company.

(3.1.1.11) Principal efeito financeiro do risco

Selecione de:

Maiores custos diretos

(3.1.1.12) Horizonte de tempo para o qual está previsto o efeito significativo do risco na organização

Selecione todos os aplicáveis

Curto prazo

(3.1.1.13) Probabilidade do risco provocar um efeito dentro do horizonte de tempo previsto

Selecione de:

Provável

(3.1.1.14) Magnitude

Selecione de:

Média-alta

(3.1.1.16) Efeito previsto do risco na posição financeira, desempenho financeiro e fluxos de caixa da organização nos horizontes de tempo futuro selecionados

Marfrig did not evaluated the effect of the risk on the financial performance, position and cash flow of the organization.

(3.1.1.17) É possível quantificar o efeito financeiro do risco?

Selecione de:

Sim

(3.1.1.19) Valor previsto do efeito financeiro no curto prazo - mínimo (moeda)

129682375.99

(3.1.1.20) Valor previsto do efeito financeiro no curto prazo - máximo (moeda)

134933075.71

(3.1.1.26) Principal resposta ao risco

Conformidade, monitoramento e metas

- Melhorar o monitoramento de operações diretas

(3.1.1.27) Custo da resposta ao risco

122688981.43

(3.1.1.28) Explicação do cálculo do custo

As a way to contain this risk, Marfrig has been transitioning electricity consumption from the grid to the contracting environment in the Free Contracting Environment, with long-term contracts at a fixed price, without variations due to external factors.

(3.1.1.29) Descrição da resposta

SITUATION: The operating units of Marfrig Global Foods monitor energy consumption and related emissions, and have energy consumption intensity targets. The company develops energy efficiency projects, including the use of low energy consumption technologies and operational practices such as fuel switching. TASK: These actions help the company mitigate the effects of fuel and energy taxation on operating costs. Marfrig Global Foods buys energy on the free market (this area exists), encouraging renewable sources. The company is increasing the consumption of incentivized energy purchased on the free market in Brazil, in order to increase the share of renewables in its electrical matrix, seeking to reduce these risks. ACTION: Based on this, in 2022, Marfrig joined the purchase of energy from the Free Market for 92% of its operations in Brazil, coming from clean and wind sources, in addition to small hydroelectric plants, among others. All of our units also use energy-efficient equipment, which generates savings in consumption and, consequently, reduces Scope 2 emissions. RESULTS: The purchase of energy from the Free Market and the use of energy efficiency equipment in our units can result in cost reduction, predictability, flexibility, compliance with environmental goals, improvement of the corporate image and greater competitiveness for Marfrig. It is expected that based on the results, Marfrig will continue to encourage the future purchase of energy from renewable sources.

Mudanças climáticas

(3.1.1.1) Identificador de risco

Selecione de:

- Risk3

(3.1.1.3) Tipos de risco e principal fator de risco ambiental

Política

- Mudança na regulamentação de produtos e serviços existentes

(3.1.1.4) Etapa da cadeia de valor onde o risco ocorre

Selecione de:

- Operações diretas

(3.1.1.6) País/área onde o risco ocorre

Selecione todos os aplicáveis

- Brasil

(3.1.1.9) Descrição específica da organização para o risco

Marfrig recognizes that climate change may lead to new mandates and regulations on its products and services. As climate change becomes a concern for consumers and government agencies, Marfrig acknowledges its responsibility. The company values environmental protection regulations and aims to follow sustainable practices to ensure the conservation of natural resources. However, Marfrig is also aware of the regulatory risks linked to its services and products, particularly those related to illegal environmental actions in its upstream supply chain, which could lead to fines and higher indirect costs. To mitigate these risks, Marfrig implements strict criteria when acquiring animals. These include ensuring suppliers are not listed in embargoed areas by IBAMA, have no record of forced or slave labor, and are not included in the “Dirty List” published by the Undersecretariat for Labor Inspection. Marfrig regularly communicates with suppliers to enforce its policies and requires documentation such as proof of Land Regularity Registration (SNCR), Rural Environmental Registration (CAR), Letter of Guarantee, Marfrig Club Protocol Checklist, Invoice, and Animal Transit Guide (GTA). Marfrig operates 11 slaughtering units, including 5 in the Amazon Biome, and 3 processing units, with 1 in the Amazon Biome. Purchasing cattle from suppliers linked to IBAMA lists, MTE lists, indigenous, or protected areas can result in lawsuits, penalties, and negative media coverage.

(3.1.1.11) Principal efeito financeiro do risco

Selecione de:

- Maiores custos indiretos [operacionais]

(3.1.1.12) Horizonte de tempo para o qual está previsto o efeito significativo do risco na organização

Selecione todos os aplicáveis

- Médio prazo

(3.1.1.13) Probabilidade do risco provocar um efeito dentro do horizonte de tempo previsto

Selecione de:

Improvável

(3.1.1.14) Magnitude

Selecione de:

Média

(3.1.1.16) Efeito previsto do risco na posição financeira, desempenho financeiro e fluxos de caixa da organização nos horizontes de tempo futuro selecionados

Marfrig did not evaluated the effect of the risk on the financial performance, position and cash flow of the organization.

(3.1.1.17) É possível quantificar o efeito financeiro do risco?

Selecione de:

Sim

(3.1.1.22) Valor previsto do efeito financeiro no médio prazo - máximo (moeda)

50000000

(3.1.1.26) Principal resposta ao risco

Práticas agrícolas

Adotar práticas alternativas de manejo da pecuária

(3.1.1.27) Custo da resposta ao risco

2901253.64

(3.1.1.28) Explicação do cálculo do custo

The cost of responding to this risk considers the costs involved in our Marfrig Verde Program, which includes: cost of internal personnel [BRL 2.514.125,15] hiring of consultants [BRL 387.128,49]

(3.1.1.29) Descrição da resposta

As a way to mitigate this risk, Marfrig has public commitments and developed action plans, as is the case of the Verde Program. **SITUATION:** MARFRIG has been evaluating the emerging regulations regarding the creation and purchase of cattle in the country. Several criteria are required and it is essential to evaluate suppliers and units located in risky biomes. **TASK:** In 2020, MARFRIG developed the Marfrig Verde Program, monitoring and evaluating suppliers and units located in risky biomes. **ACTION:** In 2021, we adjusted the methodology and expanded the scope of monitoring, in addition to verifying the origin of cattle through direct supply, we improved criteria and practices for producers to provide information about their own suppliers. With this, we are clearer about indirect suppliers, who are the critical point of our value chain. Ranchers who do not share with us the information we request are blocked from our supply base, a condition maintained until such data is made available and they adhere to our commitments. **RESULTS:** we registered a high rate of identification of indirect suppliers in 2022, which brings us even closer to our goals: tracking 100% of direct and indirect suppliers in all Brazilian biomes by 2025. Currently, 100% of direct supplier properties are monitored; 85,7% of these direct producers, with farms in the Amazon Biome, were accountable to their suppliers, an increase of 13% compared to 2022. As a result, we now have information from our indirect suppliers. And 71% of the direct producers located in the Cerrado also sent us information about their respective value chains, giving visibility to our indirect suppliers. Increase of 3.79% compared to 2021

Florestas

(3.1.1.1) Identificador de risco

Selecione de:

Risk6

(3.1.1.2) <i>Commodity</i>

Selecione todos os aplicáveis

Produtos da pecuária

(3.1.1.3) Tipos de risco e principal fator de risco ambiental

Físico crônico

Alterações nos padrões e nos tipos de precipitações (chuva, granizo, neve/gelo)

(3.1.1.4) Etapa da cadeia de valor onde o risco ocorre

Selecione de:

- Cadeia de valor <i>upstream</i>

(3.1.1.6) País/área onde o risco ocorre

Selecione todos os aplicáveis

- Brasil

(3.1.1.9) Descrição específica da organização para o risco

Marfrig understands that there is a risk in the supply chain due to climate change, which may affect the final quality and availability of cattle. For example, increased frequency and severity of droughts, rains and extreme weather events can increase the price of livestock. Excessive drought or rain can affect the productivity of pastures, which affects the entire livestock production cycle, as it is their main source of food. In 2018, Marfrig developed a scenario analysis focusing on risks related to the impacts of climate change, considering 2040 as the time horizon. Scenarios RCP8.5 and RCP4.5 were used, since they are publicly available and reviewed and represent, respectively, the scenario with the greatest potential for physical risk and the most likely future scenario. The results showed that, for Marfrig's units located in the Center-West region of Brazil (3 units), the greatest risk is in severe droughts, represented by consecutive days without rain, and also in the highest temperature rises, around 1.5C to 2C. With regard to precipitation, the projection is for a reduction in rainfall in the rainy season (summer) in most operating units, with a maximum reduction in the Midwest (3 units) and Southeast (1 unit) regions of Brazil. An increase in precipitation is estimated at the units in the south of Brazil (1 unit) in both scenarios, which can cause flooding and end up making the logistics of transporting cattle unfeasible.

(3.1.1.11) Principal efeito financeiro do risco

Selecione de:

- Maiores custos indiretos [operacionais]

(3.1.1.12) Horizonte de tempo para o qual está previsto o efeito significativo do risco na organização

Selecione todos os aplicáveis

- Médio prazo

(3.1.1.13) Probabilidade do risco provocar um efeito dentro do horizonte de tempo previsto

Selecione de:

- Mais provável que improvável

(3.1.1.14) Magnitude

Selecione de:

Média

(3.1.1.16) Efeito previsto do risco na posição financeira, desempenho financeiro e fluxos de caixa da organização nos horizontes de tempo futuro selecionados

Marfrig did not evaluated the effect of the risk on the financial performance, position and cash flow of the organization.

(3.1.1.17) É possível quantificar o efeito financeiro do risco?

Selecione de:

Sim

(3.1.1.22) Valor previsto do efeito financeiro no médio prazo - máximo (moeda)

16830000

(3.1.1.26) Principal resposta ao risco

Conformidade, monitoramento e metas

Promoção de melhores práticas e conscientização na cadeia de valor

(3.1.1.27) Custo da resposta ao risco

1200000

(3.1.1.28) Explicação do cálculo do custo

The amount of R1,200,000 considers the cost of purchasing treated water from the concessionaire in the city of Tangará, in addition to the cost of collecting and transporting water from the Sepotuba River by water truck.

(3.1.1.29) Descrição da resposta

In 2015, Marfrig had a water shortage event in the Southeast region of Brazil. One of the operational units had a reduced well withdrawal volume and another well was needed to supply the operations. These impacts are considered in the company's risk assessments, and we develop mitigation strategies. We are in constant

contact with some of the authorities responsible for managing the Brazilian watersheds in which the company participates. Some of the risks considered in the assessment are managerial decision-making about the future use of water in a watershed without the participation and vision of the business sector. In each region where Marfrig operates, representatives of local business units participate in river basin management committees, with the aim of influencing and sharing information related to the company, seeking to improve management effectiveness and engagement. A practical example is a project developed in Tangará da Serra (Mato Grosso, Brazil), with the objective of preserving the quantity and quality of water and also restoring the riparian forest of the local hydrographic basin. Construction works were carried out on contour lines, local road adaptation and construction of containment basins, in addition to the installation of drainage mechanisms to accelerate the infiltration of rainwater, in order to recharge the water table. The measures and strategies adopted by Marfrig improve the company's resilience in relation to water scarcity.

Florestas

(3.1.1.1) Identificador de risco

Selecione de:

Risk7

(3.1.1.2) <i>Commodity</i>

Selecione todos os aplicáveis

Produtos da pecuária

(3.1.1.3) Tipos de risco e principal fator de risco ambiental

Mercado

Incerteza sobre a origem e/ou legalidade da <i>commodity</i>

(3.1.1.4) Etapa da cadeia de valor onde o risco ocorre

Selecione de:

Cadeia de valor <i>upstream</i>

(3.1.1.6) País/área onde o risco ocorre

Selecione todos os aplicáveis

Brasil

(3.1.1.9) Descrição específica da organização para o risco

Marfrig is committed to having a livestock production chain free of deforestation of native forests and agrarian conflicts, such as invasion of protected lands. Thus, we follow a strict process of verification and selection of suppliers to comply with the responsible cattle purchasing policy. In Brazil, Marfrig Global Foods uses a sophisticated and robust socio-environmental traceability system, aiming to eliminate the possibility of purchasing animals produced on farms with problems of deforestation, slave labor, within indigenous reserves or conservation units. This approach aims to mitigate the reputational and market risk associated with uncertainty about the origin and/or legality of the product in our value chain, both in the direct operation and in the supply chain. The irregular acquisition of cattle would cause serious damage to the image of Marfrig Global Foods, compromising our reputation and could result in fines, sanctions or execution orders. Furthermore, this uncertainty could damage brand awareness, consumer confidence and the ability to deliver on commitments made.

(3.1.1.11) Principal efeito financeiro do risco

Selecione de:

- Multas, penalidades ou ordens de execução

(3.1.1.12) Horizonte de tempo para o qual está previsto o efeito significativo do risco na organização

Selecione todos os aplicáveis

- Curto prazo

(3.1.1.13) Probabilidade do risco provocar um efeito dentro do horizonte de tempo previsto

Selecione de:

- Improvável

(3.1.1.14) Magnitude

Selecione de:

- Média-alta

(3.1.1.16) Efeito previsto do risco na posição financeira, desempenho financeiro e fluxos de caixa da organização nos horizontes de tempo futuro selecionados

Marfrig did not evaluate the effect of the risk on the financial performance, position and cash flow of the organization.

(3.1.1.17) É possível quantificar o efeito financeiro do risco?

Selecione de:

Sim

(3.1.1.19) Valor previsto do efeito financeiro no curto prazo - mínimo (moeda)

2487246800

(3.1.1.20) Valor previsto do efeito financeiro no curto prazo - máximo (moeda)

2487246800

(3.1.1.26) Principal resposta ao risco

Conformidade, monitoramento e metas

Maior rastreabilidade de <i>commodities</i>

(3.1.1.27) Custo da resposta ao risco

875903.5

(3.1.1.28) Explicação do cálculo do custo

The cost of managing this risk (BRL 875.903,50), refers to the procedures adopted to select suppliers, with verification of IBAMA and MTE blacklists, as well as the geospatial monitoring carried out at suppliers located in the Amazon Biome. It also includes the annual audit of the cattle purchase processes carried out by an independent company, which guarantees that there is no non-compliance in the process. The company is constantly working to improve the process of tracking purchased cattle, seeking a production chain free from the deforestation of native forests. Marfrig uses a socio-environmental risk map that covers 100% of the national territory, including the aforementioned biomes. This map combines information on livestock production, environmental conservation and human rights, making it possible to identify higher risk areas and prioritize actions for mitigation.

(3.1.1.29) Descrição da resposta

Marfrig has established strict requirements for farms that supply animals, including proper handling, environmental conservation practices and legal compliance. In 2020, they launched the Marfrig Verde Program to accelerate sustainability in the beef value chain. The goal is to make the entire production chain free of

deforestation by 2025. The source identification index increased significantly from 2022 to 2023 demonstrating progress in traceability. The company will invest BRL 500 million in sustainability actions focusing on the development of financial mechanisms, technical support and monitoring to ensure supplier compliance. Monitoring covers both direct and indirect suppliers, with specific deadlines for the Amazon and the Cerrado. By 2025, indirect suppliers in the Amazon, Cerrado and other biomes will follow Marfrig's purchasing criteria, adopting good sustainability practices and operating in areas without deforestation. Marfrig response strategy to reputation and market risk related to cattle is ongoing and in constant progress. The response has been effective in preventing the return of the inherent risk factor by setting strict requirements for suppliers and carrying out geographic monitoring. In addition, the response strengthens the organization resilience by putting in place financial mechanisms, technical support and monitoring to avoid future adverse financial, operational or strategic impacts.

Água

(3.1.1.1) Identificador de risco

Selecione de:

Risk9

(3.1.1.3) Tipos de risco e principal fator de risco ambiental

Físico crônico

Estresse hídrico

(3.1.1.4) Etapa da cadeia de valor onde o risco ocorre

Selecione de:

Operações diretas

(3.1.1.6) País/área onde o risco ocorre

Selecione todos os aplicáveis

Brasil

(3.1.1.9) Descrição específica da organização para o risco

The primary risk factor was identified through a risk assessment using WRI's Aqueduct tool and a climate projection study for Marfrig's production units, focusing on a timeline extending to 2040. This assessment, along with the company's experience during the 2015 drought in southeastern Brazil, revealed significant water risks, particularly for the Itupeva unit, which operates within a drainage basin representing about 20% of Marfrig's total cattle purchases. A drought in this region could

reduce or interrupt livestock supply, potentially requiring a shift from grazing cattle to confined cattle, a change that would increase operating costs. Projected warmer, drier conditions with shorter rainy seasons could reduce water availability on farms, leading to challenges like lower productivity, reduced weight gain, compromised thermal regulation, and higher disease incidence. These environmental impacts might decrease cattle supply from local suppliers, leading to the need for confined cattle. The financial impact is estimated to occur within 4 to 6 years, with a projected need to replace 15% of pasture-raised cattle with confined cattle.

(3.1.1.11) Principal efeito financeiro do risco

Selecione de:

- Interrupção na cadeia de valor <i>upstream</i>

(3.1.1.12) Horizonte de tempo para o qual está previsto o efeito significativo do risco na organização

Selecione todos os aplicáveis

- Médio prazo

(3.1.1.13) Probabilidade do risco provocar um efeito dentro do horizonte de tempo previsto

Selecione de:

- Mais provável que improvável

(3.1.1.14) Magnitude

Selecione de:

- Média-alta

(3.1.1.16) Efeito previsto do risco na posição financeira, desempenho financeiro e fluxos de caixa da organização nos horizontes de tempo futuro selecionados

Marfrig did not evaluate the effect of the risk on the financial performance, position and cash flow of the organization.

(3.1.1.17) É possível quantificar o efeito financeiro do risco?

Selecione de:

- Sim

(3.1.1.22) Valor previsto do efeito financeiro no médio prazo - máximo (moeda)

1600000

(3.1.1.26) Principal resposta ao risco

Engajamento

Engajar-se com os fornecedores

(3.1.1.27) Custo da resposta ao risco

165000

(3.1.1.28) Explicação do cálculo do custo

The approach used to determine the cost of the response strategy is based on the expenses incurred by Marfrig Club in 2022. The cost estimate for Marfrig Club includes expenditures such as approximately BRL 21,000.00 for consultant services related to Marfrig Club activities and approximately BRL 31,500.00 for internal team training. Action costs primarily involve promoting best practices in managing rural properties for cattle production, alongside investments in water security. The company routinely evaluates supplier capacity as part of its standard operational costs, thus supplier movements have no significant impact on its operational profits. The expected timeline for incurring the response costs is 2 to 3 years. Based on this timeframe, the estimated total cost of the response strategy is BRL 165,000.00, approximately BRL 55,000.00 per year.

(3.1.1.29) Descrição da resposta

Environmental quality control and water risk assessment extend beyond Marfrig's direct operations. Initiatives are in place to engage and support the development of suppliers in these areas, such as the Marfrig Club Program, which recognizes producers excelling in natural resource management practices. The company views the potential loss of production capacity due to water scarcity among cattle suppliers as a primary risk. Therefore, it actively promotes sustainability development for its suppliers through the Marfrig Club Program. The program encourages various management actions, including monitoring water consumption volumes and effluent generation. It also promotes farm practices such as maintaining natural reserve and forested areas, planting trees in pasture areas, implementing proper treatment of domestic effluents, and employing measures to control rainwater to prevent erosion and promote water table recharge. As part of its incentive efforts, Marfrig offers training courses tailored to the specific needs of suppliers, as evidenced by attendance lists or certificates issued upon completion. Marfrig operates a flexible business model that allows for diversifying production among suppliers in non-affected areas, thereby mitigating or reducing such risks effectively.

Água

(3.1.1.1) Identificador de risco

Selecione de:

Risk10

(3.1.1.3) Tipos de risco e principal fator de risco ambiental

Físico crônico

Racionamento do abastecimento de água municipal

(3.1.1.4) Etapa da cadeia de valor onde o risco ocorre

Selecione de:

Operações diretas

(3.1.1.6) País/área onde o risco ocorre

Selecione todos os aplicáveis

Estados Unidos da América

(3.1.1.9) Descrição específica da organização para o risco

Marfrig's operating unit located in Liberal, in the Mississippi River Basin, faces a critical environmental risk factor: water rationing. The Aqueduct tool identified this region as having high water risk, meaning that water availability is limited and subject to variable conditions, which can severely impact the continuity of operations. Water shortages in the area can result in production interruptions ranging from 1 to 4 weeks, generating a significant cost of up to US\$5.4 million per week. This cost can fluctuate based on market conditions and the severity of the water shortage. This operating unit depends on the water supply for its meat processing operations in Liberal. Water supply interruptions can lead to a reduction in production capacity and, consequently, a decrease in revenues. To mitigate these risks, the company has adopted a proactive strategy that includes acquiring water rights from local farmers and converting irrigation wells to potable wells. In addition, the company is investing in the installation of infrastructure to ensure the transfer of water for its operations.

(3.1.1.11) Principal efeito financeiro do risco

Selecione de:

Menores rendimentos devido à redução na capacidade de produção

(3.1.1.12) Horizonte de tempo para o qual está previsto o efeito significativo do risco na organização

Selecione todos os aplicáveis

Curto prazo

(3.1.1.13) Probabilidade do risco provocar um efeito dentro do horizonte de tempo previsto

Selecione de:

Mais provável que improvável

(3.1.1.14) Magnitude

Selecione de:

Média

(3.1.1.16) Efeito previsto do risco na posição financeira, desempenho financeiro e fluxos de caixa da organização nos horizontes de tempo futuro selecionados

Marfrig did not evaluate the effect of the risk on the financial performance, position and cash flow of the organization.

(3.1.1.17) É possível quantificar o efeito financeiro do risco?

Selecione de:

Sim

(3.1.1.19) Valor previsto do efeito financeiro no curto prazo - mínimo (moeda)

30802140

(3.1.1.20) Valor previsto do efeito financeiro no curto prazo - máximo (moeda)

30802140

(3.1.1.26) Principal resposta ao risco

Infraestrutura, tecnologia e gastos

Garantir um abastecimento alternativo de água

(3.1.1.27) Custo da resposta ao risco

4278075

(3.1.1.28) Explicação do cálculo do custo

To calculate the cost of managing water scarcity risk at Marfrig's Liberal unit, two main cost components were identified. First, the installation of new wells, which includes drilling, construction and equipment, has an estimated cost of US450,000. Second, the purchase of equipment needed to transport and use water, such as piping and pumps, has an estimated cost of US300,000. The total cost of risk management, therefore, is US750,000. This estimate was based on market quotations and data provided by specialized suppliers, reflecting the need for investments to ensure a continuous supply of water and reduce dependence on municipal supply. The methodology involved adding together the identified costs and ensures that Marfrig can mitigate the financial impact of water scarcity and maintain the continuity of its operations.

(3.1.1.29) Descrição da resposta

The primary response involved acquiring water rights from local farmers and converting irrigation wells into potable wells for the Liberal unit, which began in the second quarter of 2023 and is scheduled for completion in late 2024. This approach not only ensures a continuous water supply, but also reduces dependence on municipal supplies, which are unreliable and subject to rationing. In addition, Marfrig invested approximately US750,000 in the installation of new wells. This strategy helps reduce the potential impact of water shortages by providing a reliable alternative source and mitigating the associated loss of production and revenue. The response has proven effective in ensuring the continuity of operations even during periods of water stress. Going forward, Marfrig will continue to monitor water conditions and maintain wells and equipment to ensure that water supplies remain stable. Marfrig's strategy also contributes to the United Nations Sustainable Development Goals (SDGs), specifically SDG 6, which aims to ensure the availability and sustainable management of water and sanitation for all.

[Adicionar linha]

(3.1.2) Informe a quantia e a proporção das métricas financeiras a partir do ano de reporte que sejam vulneráveis aos efeitos significativos dos riscos ambientais.

Mudanças climáticas

(3.1.2.1) Métrica financeira

Selecione de:

Receita

(3.1.2.2) Montante da métrica financeira vulnerável a riscos de transição para esse problema ambiental (unidade monetária conforme selecionada em 1.2)

72425625.7

(3.1.2.3) Porcentagem da métrica financeira total vulnerável a riscos de transição para esse problema ambiental

Selecione de:

Menos de 1%

(3.1.2.4) Montante da métrica financeira vulnerável a riscos físicos para esse problema ambiental (unidade monetária conforme selecionada em 1.2)

134933075.71

(3.1.2.5) Porcentagem da métrica financeira total vulnerável a riscos físicos para esse problema ambiental

Selecione de:

Menos de 1%

(3.1.2.7) Explicação dos valores financeiros

The values of financial risks such as transition risks are presented in the answer to question 3.1.1. Thus, the total sum of financial risks represents 0.10% of total gross revenue and the total sum of transition risks represents 0.05% of total gross revenue.

Florestas

(3.1.2.1) Métrica financeira

Selecione de:

Receita

(3.1.2.2) Montante da métrica financeira vulnerável a riscos de transição para esse problema ambiental (unidade monetária conforme selecionada em 1.2)

7051388250

(3.1.2.3) Porcentagem da métrica financeira total vulnerável a riscos de transição para esse problema ambiental

Selecione de:

1-10%

(3.1.2.4) Montante da métrica financeira vulnerável a riscos físicos para esse problema ambiental (unidade monetária conforme selecionada em 1.2)

7051388250

(3.1.2.5) Porcentagem da métrica financeira total vulnerável a riscos físicos para esse problema ambiental

Selecione de:

1-10%

(3.1.2.7) Explicação dos valores financeiros

Since the sale of cattle products is Marfrig's main source of income, it is estimated that 5% of its gross revenue is vulnerable to physical and transition risks associated with the forestry performance of this commodity.

Água

(3.1.2.1) Métrica financeira

Selecione de:

O CAPEX

(3.1.2.2) Montante da métrica financeira vulnerável a riscos de transição para esse problema ambiental (unidade monetária conforme selecionada em 1.2)

0

(3.1.2.3) Porcentagem da métrica financeira total vulnerável a riscos de transição para esse problema ambiental

Selecione de:

Menos de 1%

(3.1.2.4) Montante da métrica financeira vulnerável a riscos físicos para esse problema ambiental (unidade monetária conforme selecionada em 1.2)

78614113

(3.1.2.5) Porcentagem da métrica financeira total vulnerável a riscos físicos para esse problema ambiental

Selecione de:

1-10%

(3.1.2.6) Montante de CAPEX no ano de reporte implementado aos riscos relacionados a esse problema ambiental

78614113

(3.1.2.7) Explicação dos valores financeiros

For Marfrig, this amount was calculated based on the identification of the Capex associated with water management in the company's operations. The total amount allocated to these investments in 2023 was R78,614,113.00, reflecting the company's commitment to mitigating operational and environmental risks that may arise due to water shortages or interruptions in the water supply. This amount includes a series of essential activities to ensure the availability and quality of water in its operations. Among these activities, water collection and effluent treatment stand out. These actions are critical to mitigating risks in regions with water shortages or where the water supply infrastructure is vulnerable. The comparative analysis between the Capex allocated to water management and the company's total Capex in 2023, which was R3,907 million, contextualizes the importance of this investment within Marfrig's total investment scope. This calculation reflects the understanding that water is a vital resource for the company's operations, and continued investment in its management is essential for business continuity. The methodology applied to calculate the financial amount vulnerable to water risk involved identifying capital expenditures directed at water management in all Marfrig's operating units in different countries. The focus was to identify the main investments aimed at mitigating water-related risks, such as water scarcity and interruptions in water supply.
[Adicionar linha]

(3.2) Em cada bacia hidrográfica, quantas instalações estão expostas a efeitos significativos dos riscos hídricos e qual porcentagem do total de instalações isso representa?

Row 1

(3.2.1) País/área e Bacia hidrográfica

Zimbábue

Outro, especifique

(3.2.2) Estágios da cadeia de valor em que as instalações em risco foram identificadas nessa bacia hidrográfica

Selecione todos os aplicáveis

Operações diretas

(3.2.3) Número de instalações com operações diretas expostas a risco hídrico nessa bacia hidrográfica

1

(3.2.4) Percentual do total de instalações da organização com operações diretas expostas a risco hídrico nessa bacia hidrográfica

Selecione de:

1-25%

(3.2.10) Porcentagem da receita global total da organização que poderá ser afetada

Selecione de:

1-10%

(3.2.11) Explique

According to the current water risk assessment conducted using the WRI Aqueduct tool, the Villa Mercedes unit, situated in the Quinto River basin in Argentina, has been rated as having a "medium-high" quantitative balance and a "low-medium" qualitative balance, resulting in an overall moderate risk assessment for the basin. This operational unit faces greater constraints on water resources as it relies on groundwater from deep wells, unlike other units in the region that have access to surface water. Efforts to enhance water efficiency at this unit aim to alleviate pressure on underground water extraction. Additionally, alternative water supply options for the unit are under consideration, alongside projects for reusing water for non-potable purposes. There is a potential risk of declining groundwater levels in the aquifer supplying the production unit, which could necessitate increased energy for water extraction, thereby raising operational costs or possibly rendering water collection from these wells unfeasible. To address this, a rigorous plan has been implemented to control water resource usage and management within the process. This potential risk could potentially reduce Marfrig's production output in Argentina during periods of water scarcity. Nevertheless, Marfrig has been actively investing

in solutions to reduce water consumption at these units and implementing procedures to facilitate water reuse, thereby decreasing overall water demand. For example, in 2022, the Villa Mercedes unit utilized approximately 100,800 m³ of reused water, resulting in a 17% reduction in water withdrawal demands. This represents an 11% increase in reused water compared to 2021.

Row 2

(3.2.1) País/área e Bacia hidrográfica

Zimbábue

Outro, especifique

(3.2.2) Estágios da cadeia de valor em que as instalações em risco foram identificadas nessa bacia hidrográfica

Selecione todos os aplicáveis

Operações diretas

(3.2.3) Número de instalações com operações diretas expostas a risco hídrico nessa bacia hidrográfica

1

(3.2.4) Percentual do total de instalações da organização com operações diretas expostas a risco hídrico nessa bacia hidrográfica

Selecione de:

1-25%

(3.2.10) Porcentagem da receita global total da organização que poderá ser afetada

Selecione de:

11-20%

(3.2.11) Explique

According to the current water risk assessment using the WRI Aqueduct tool, Marfrig has two operational units located in the USA that are situated in regions facing either qualitative or quantitative water stress. The Dodge City unit is classified as "medium-high" in terms of quantitative balance and "low" in terms of qualitative balance, resulting in an average risk situation for the basin. In contrast, the Liberal unit is classified as "extremely high" in terms of quantitative balance and "low" in terms of qualitative balance, indicating a critical situation due to its location in the hydrographic basin. Together, these two units account for 81% of the water intake by the National Beef division. Efforts to enhance water efficiency at these units are focused on reducing the reliance on groundwater extraction, which is their sole water source. The company is also exploring alternative water supply options for these units, as well as implementing projects for reusing water for non-potable uses. There is a potential risk of declining groundwater levels in the aquifers supplying these production units. This situation could necessitate increased energy for water extraction, leading to higher operating costs or potentially rendering water abstraction from these wells unfeasible. To address this, the company has implemented a rigorous plan to control water resource usage and management within its processes. Such risks could potentially lead to reduced production within Marfrig's National Beef business division in the USA during periods of water scarcity. However, Marfrig has been actively investing in solutions aimed at reducing water consumption at these units and implementing procedures for water reuse, thereby reducing overall water demand. For instance, in 2022, the Liberal unit utilized approximately 242,240 m³ of reused water, resulting in a 4% reduction in water withdrawal demands.

[Adicionar linha]

(3.3) No ano de reporte, a organização foi submetida a multas, ordens de execução e/ou outras penalidades pela violação de alguma lei relacionada à água?

| | Violações regulatórias relacionadas à água | Explique |
|--|--|---|
| | Selecione de: <input checked="" type="checkbox"/> Não | Marfrig did not have any fines or penalties for violations of water-related laws in 2023. |

[Linha fixa]

(3.5) Alguma(s) das operações ou atividades da organização é regulamentada por um sistema de precificação do carbono (por ex., ETS, Cap & Trade ou Carbon Tax)?

Selecione de:

Não e não prevemos ser regulamentados nos próximos três anos

(3.6) Foi identificada alguma oportunidade ambiental que tenha causado um efeito substancial sobre a organização no ano de reporte, ou que esteja prevista para causar um efeito substancial sobre a organização no futuro?

| | Oportunidades ambientais identificadas |
|---------------------|---|
| Mudanças climáticas | Selecione de: <input checked="" type="checkbox"/> Sim, identificamos oportunidades, e algumas/todas estão sendo realizadas |
| Florestas | Selecione de: <input checked="" type="checkbox"/> Sim, identificamos oportunidades, e algumas/todas estão sendo realizadas |
| Água | Selecione de: <input checked="" type="checkbox"/> Sim, identificamos oportunidades, e algumas/todas estão sendo realizadas |

[Linha fixa]

(3.6.1) Dê detalhes sobre as oportunidades ambientais identificadas que tenham causado um efeito substancial sobre a organização no ano de reporte ou que estejam previstas para causar um efeito substancial sobre a organização no futuro.

Mudanças climáticas

(3.6.1.1) Identificador de oportunidades

Selecione de:

Opp1

(3.6.1.2) <i>Commodity</i>

Selecione todos os aplicáveis

Não se aplica

(3.6.1.3) Tipo de oportunidade e fator primário da oportunidade ambiental

Fonte de energia

- Uso de fontes de energia renovável

(3.6.1.4) Estágio da cadeia de valor em que a oportunidade ocorre

Selecione de:

- Operações diretas

(3.6.1.5) País/área em que a oportunidade ocorre

Selecione todos os aplicáveis

- Brasil
- Uruguai

(3.6.1.8) Descrição específica da organização

The rising cost of energy is a concern for Marfrig, presenting both a mapped risk and an investment opportunity to reduce production costs with environmental benefits. Aware of the shift towards renewable energy, Marfrig has been exploring potential investments, recently investing in wind energy at its Tacuarembó unit in Uruguay. In Brazil, the company relies on the free energy market for over 90% of its energy needs, securing lower-cost energy from renewable sources. Diversifying its energy matrix with renewable sources enhances Marfrig's energy security, aligning with its goals to reduce fossil fuel dependence. This strategy also mitigates risks, such as price fluctuations and energy supply interruptions. Marfrig has consistently invested in energy efficiency measures that reduce energy consumption, GHG emissions, and operating costs (OPEX). Innovations include replacing traditional lighting (sodium vapor or incandescent) with LED lighting, acquiring more efficient equipment, upgrading old electric motors, and implementing advanced automated controls over energy consumption. These efforts not only improve energy efficiency but also support Marfrig's commitment to sustainability and operational resilience.

(3.6.1.9) Principal efeito financeiro da oportunidade

Selecione de:

- Menores custos diretos

(3.6.1.10) O horizonte de tempo para o qual está previsto o efeito substancial da oportunidade sobre a organização

Selecione todos os aplicáveis

Curto prazo

(3.6.1.11) Probabilidade da oportunidade provocar um efeito dentro do horizonte de tempo previsto

Selecione de:

Virtualmente certo (99–100%)

(3.6.1.12) Magnitude

Selecione de:

Média-baixa

(3.6.1.14) O efeito previsto da oportunidade na posição financeira, no desempenho financeiro e nos fluxos de caixa da organização nos horizontes de tempo futuro selecionados

Marfrig did not evaluate the effect of the opportunity on the financial position, financial performance and cash flows of the organization.

(3.6.1.15) É possível quantificar os efeitos financeiros da oportunidade?

Selecione de:

Sim

(3.6.1.17) Valor previsto do efeito financeiro em curto prazo - mínimo (moeda)

1792821.4

(3.6.1.18) Valor previsto do efeito financeiro no curto prazo - máximo (moeda)

2091624.97

(3.6.1.23) Explicação dos valores do efeito financeiro

Reduction in the cost of acquiring energy from the energy distribution networks, due to the generation of its own energy from clean and renewable sources. The return on investment can be accelerated, in line with the increase in the cost of grid energy, which is an identified trend. The savings for the energy generated in 2023

was US 308.023 * BRL 4,94 (current dollar exchange rate) BRL 1.521.633,62 In the potential value of the financial impact, the potential cost reduction for the purchase of electricity from the electricity grid in Uruguay (Tacuarembó) is considered.

(3.6.1.24) Custo para concretizar a oportunidade

24800000

(3.6.1.25) Explicação do cálculo do custo

The costs of realizing this opportunity are related to the investment in the construction of the wind farm in Tacuarembó (US\$5,000,000.00) and the estimated amount of energy savings in Brazil with the program to acquire more energy-efficient equipment. US\$5,000,000.00 * R 4.94 (current dollar exchange rate) BRL 24,700,000.00 R 100,000.00 Acquisition of more efficient equipment Total BRL 24,800,000.00

(3.6.1.26) Estratégia para concretizar a oportunidade

Situation: The company focused its investment strategies on energy efficiency, energy-saving practices and self-generation, since the Uruguayan units have significant energy consumption. Task: Marfrig evaluated potential technologies to make operations at the Uruguayan unit more efficient, with the aim of reducing operating costs and greenhouse gas emissions. Action: Located in the largest department of Uruguay, in the central-northern region, the Tacuarembó meatpacking plant opted to build a wind farm for self-generation. In line with Marfrig's attempts to progressively achieve sustainable and clean production, wind energy will allow the generation of energy to meet, on average, approximately 30% of the plant's demand. Results: The financial savings from the reduction in energy purchases were used as the primary factor for making investments through renewable energy; the company also has a reduction in GHG emissions. In approximately 15 years, the investment will reach breakeven.

Florestas

(3.6.1.1) Identificador de oportunidades

Selecione de:

Opp4

(3.6.1.2) <i>Commodity</i>

Selecione todos os aplicáveis

Produto florestal madeireiro

(3.6.1.3) Tipo de oportunidade e fator primário da oportunidade ambiental

Eficiência de recursos

- Maior eficiência dos processos de produção e/ou distribuição

(3.6.1.4) Estágio da cadeia de valor em que a oportunidade ocorre

Selecione de:

- Operações diretas

(3.6.1.5) País/área em que a oportunidade ocorre

Selecione todos os aplicáveis

- Brasil

(3.6.1.6) Bacia hidrográfica em que a oportunidade ocorre

Selecione todos os aplicáveis

- Outro, especifique :Not applicable

(3.6.1.8) Descrição específica da organização

Marfrig sees an opportunity to reduce the need for new timber products through internal reuse and recycling. A key initiative involves recovering and reusing wood pallets used to transport animals, which were previously discarded after one use. By evaluating and reusing these pallets, Marfrig reduces material costs and pressure on timber resources. The company also adheres to strict supplier selection criteria, ensuring that all paper and cardboard used in packaging and administration are FSC-certified, reflecting sustainable forestry practices. Marfrig supports the use of recyclable packaging, with a significant client requiring that shipping boxes contain at least 25% post-consumer recycled material and 40% fully recycled content. The company is exploring further options to increase the use of recycled wood products, particularly by expanding pallet reuse, which also helps minimize waste from transport operations. These sustainability measures are projected to have a substantial financial impact, potentially boosting EBITDA by 0.5% in units with high timber consumption.

(3.6.1.9) Principal efeito financeiro da oportunidade

Selecione de:

- Retornos de investimento em tecnologias com baixo índice de emissões

(3.6.1.10) O horizonte de tempo para o qual está previsto o efeito substancial da oportunidade sobre a organização

Selecione todos os aplicáveis

Curto prazo

(3.6.1.11) Probabilidade da oportunidade provocar um efeito dentro do horizonte de tempo previsto

Selecione de:

Provável (66–100%)

(3.6.1.12) Magnitude

Selecione de:

Média

(3.6.1.14) O efeito previsto da oportunidade na posição financeira, no desempenho financeiro e nos fluxos de caixa da organização nos horizontes de tempo futuro selecionados

Marfrig did not evaluate the effect of the opportunity on the financial position, financial performance and cash flows of the organization.

(3.6.1.15) É possível quantificar os efeitos financeiros da oportunidade?

Selecione de:

Sim

(3.6.1.17) Valor previsto do efeito financeiro em curto prazo - mínimo (moeda)

75000

(3.6.1.18) Valor previsto do efeito financeiro no curto prazo - máximo (moeda)

225000

(3.6.1.23) Explicação dos valores do efeito financeiro

The potential value of the financial impact was calculated based on the cost reduction of the purchase of timber products for the company's operations. The average cost of this product was applied, according to the operating units in Brazil, on top of the potential reduction value from the increase in internal recycling of these

materials, and also from the estimated reduction of waste generation from this source in the same proportion in that is recycled. The range of values includes an increase of 2% to 6% in the recycling of these materials.

(3.6.1.24) Custo para concretizar a oportunidade

63500000

(3.6.1.25) Explicação do cálculo do custo

It was used 0.5% of the EBTIDA in the units where the consumption of wood resources is greater.

(3.6.1.26) Estratégia para concretizar a oportunidade

Marfrig seeks partnerships with suppliers of certified forest products, such as paper and cardboard with FSC certification. This would ensure that the materials used by the company are sourced sustainably and produced in an environmentally responsible manner. Marfrig is studying possibilities to increase the share of recycled wood products in its operations. One of the alternatives studied is to expand the reuse of pallets used in the transport of animals, a measure that, in addition to reducing the need to purchase new materials, reduces the amount of waste generated in transport operations. These measures are capable of generating a significant financial impact (0.5% of EBITDA) in the units where the consumption of wood resources is greater.

Água

(3.6.1.1) Identificador de oportunidades

Selecione de:

Opp7

(3.6.1.3) Tipo de oportunidade e fator primário da oportunidade ambiental

Eficiência de recursos

Menor uso e consumo de água

(3.6.1.4) Estágio da cadeia de valor em que a oportunidade ocorre

Selecione de:

Operações diretas

(3.6.1.5) País/área em que a oportunidade ocorre

Selecione todos os aplicáveis

Brasil

(3.6.1.6) Bacia hidrográfica em que a oportunidade ocorre

Selecione todos os aplicáveis

Outro, especifique :PCJ / Rio Tietê

(3.6.1.8) Descrição específica da organização

Marfrig focuses on improving water efficiency to reduce water dependency and improve resilience during water shortages. The company has implemented an environmental management system in its operations, aiming to reduce water consumption per animal slaughtered. This includes annual investments in equipment that reduces water use, automates processes and enables water reuse in operations. These efforts are driven by reducing operating costs and improving resilience to water-related risks. Specific actions include the installation of water flow reduction equipment, automation systems for processes such as feeding on evisceration tables, implementation of water reuse initiatives in evisceration rooms and training programs for our employees.

(3.6.1.9) Principal efeito financeiro da oportunidade

Selecione de:

Menores custos indiretos (operacionais)

(3.6.1.10) O horizonte de tempo para o qual está previsto o efeito substancial da oportunidade sobre a organização

Selecione todos os aplicáveis

Curto prazo

(3.6.1.11) Probabilidade da oportunidade provocar um efeito dentro do horizonte de tempo previsto

Selecione de:

Virtualmente certo (99–100%)

(3.6.1.12) Magnitude

Selecione de:

Média

(3.6.1.14) O efeito previsto da oportunidade na posição financeira, no desempenho financeiro e nos fluxos de caixa da organização nos horizontes de tempo futuro selecionados

Marfrig did not evaluated the effect effect of the opportunity on the financial position, financial performance and cash flows of the organization.

(3.6.1.15) É possível quantificar os efeitos financeiros da oportunidade?

Selecione de:

Sim

(3.6.1.17) Valor previsto do efeito financeiro em curto prazo - mínimo (moeda)

994716

(3.6.1.18) Valor previsto do efeito financeiro no curto prazo - máximo (moeda)

994716

(3.6.1.23) Explicação dos valores do efeito financeiro

The estimated impact of the opportunity was calculated based on the variation in water consumption per ton produced (m³/ton). The total production estimated for 2023 of 3,320,149.49 tons and the average water treatment cost of R2.14/m³ were used. Water consumption in 2022 was 7.67 m³/ton, resulting in a total cost of R54,496,269.70 (3,320,149 x 2.14 x 7.67). For the target year, the consumption target is 7.53 m³/ton, which would reduce the cost to R53,501,552.90. Thus, the impact of the opportunity on reducing operating costs is R994,716.80 (3,320,149 x 2.14 x 7.53), reflecting the potential savings from achieving the water use efficiency target.

(3.6.1.24) Custo para concretizar a oportunidade

1242195

(3.6.1.25) Explicação do cálculo do custo

The calculation was estimated based on the costs related to the acquisition of equipment to improve water efficiency in operational units in Brazil, including the installation of flow reduction devices and automation systems for monitoring (Acquisition of Support Equipment and Tools R125,000; Acquisition and Replacement of IT Equipment R22,850; Acquisition and Replacement of Furniture R30,000; Acquisition or Replacement of Equipment - Dosing of Chemical Products R58,000), and the adaptation of water collection systems (R450,000)

(3.6.1.26) Estratégia para concretizar a oportunidade

The strategy to focus on this opportunity has been the adoption of several water efficiency projects and, mainly, monitoring through efficiency indicators. Marfrig has the Sustainability KPIs project, which monitors several environmental indicators that have defined goals. Among them, Marfrig has the indicator of volume of collection per production and the indicator of % of water reused. These two indicators are important strategies to monitor the impact of the opportunity initiatives in reducing water collection in operations and to guide teams regarding the implementation and investment of the water efficiency opportunity. Marfrig has already implemented flow reduction equipment installed in sinks, boot and carcass washers, automation in the feeding of the evisceration table, among other engineering solutions in equipment with high water consumption, in addition to automation systems, together with training programs for our employees. Sprinklers are also being installed in the hand washing tanks, a measure that should be extended to all units.

Mudanças climáticas

(3.6.1.1) Identificador de oportunidades

Selecione de:

Opp2

(3.6.1.3) Tipo de oportunidade e fator primário da oportunidade ambiental

Mercados

Acesso mais fácil a créditos mais baratos e/ou mais disponíveis

(3.6.1.4) Estágio da cadeia de valor em que a oportunidade ocorre

Selecione de:

Operações diretas

(3.6.1.8) Descrição específica da organização

Diversifying financial investments offers Marfrig access to various development opportunities by investing in different sectors or markets. Asset diversification reduces risks associated with a single field and allows the company to explore growth possibilities across multiple areas. Cap and Trade plans present a significant opportunity for Marfrig, despite some risks. The company's operational scale provides numerous chances for GHG reduction projects. These can be pursued through Clean Development Mechanism (CDM) initiatives in Brazil, generating income from carbon credit sales. Programs such as replacing boiler fuel, producing clean energy, and improving effluent treatment have potential in this context. Marfrig's voluntary emissions reduction program can create carbon credits (CER/VER) that support the company's goals, either within a Cap and Trade system or in other market scenarios. In Brazil, Marfrig initiated a project to expand and enhance effluent treatment systems, focusing on new units selected for their manufacturing quality and market reach. This initiative aims to reduce emissions and increase system efficiency. Instead of selling the resulting reductions, Marfrig chose to retain them, enhancing the value of its products while contributing to climate change efforts.

(3.6.1.9) Principal efeito financeiro da oportunidade

Selecione de:

- Maior diversificação de ativos financeiros

(3.6.1.10) O horizonte de tempo para o qual está previsto o efeito substancial da oportunidade sobre a organização

Selecione todos os aplicáveis

- Médio prazo

(3.6.1.11) Probabilidade da oportunidade provocar um efeito dentro do horizonte de tempo previsto

Selecione de:

- Mais provável que improvável (50–100%)

(3.6.1.12) Magnitude

Selecione de:

- Média-baixa

(3.6.1.14) O efeito previsto da oportunidade na posição financeira, no desempenho financeiro e nos fluxos de caixa da organização nos horizontes de tempo futuro selecionados

Marfrig did not evaluate the effect of the opportunity on the financial position, financial performance and cash flows of the organization.

(3.6.1.15) É possível quantificar os efeitos financeiros da oportunidade?

Selecione de:

Sim

(3.6.1.19) Valor previsto do efeito financeiro em médio prazo - mínimo (moeda)

103008662.78

(3.6.1.20) Valor previsto do efeito financeiro em médio prazo - máximo (moeda)

175479359.2

(3.6.1.23) Explicação dos valores do efeito financeiro

*The Intergovernmental Panel on Climate Change (IPCC) has set a minimum price limit for carbon credits. The marginal cost of limiting temperature rise to 1.5C per tCO₂eq would be between US226 and US385, according to IPCC estimates.¹ Assuming that Marfrig has a target of reducing a total amount of 92,265 tCO₂eq emitted by waste and effluent treatment in 2030, based on this assumption that where the company would purchase the volume of carbon credits, there would be an estimated cost of between US20,851,956.03 and US35,522,137.49 based on the estimated price per ton of carbon to be on track to limit temperature rise to 1.5C. US 35.522.137,49 * R 4.94 (current dollar exchange) 175.479.359,20 US 20.851.956,03* R 4.94 (current dollar exchange) 103.008.662,78*

(3.6.1.25) Explicação do cálculo do custo

Since 2021, the Environment area has invested R40 million in technologies to increase the efficiency of effluent treatment systems and reduce costs in the use of chemical products. In addition, the company has other projects under evaluation, among which are projects that will generate more revenue for the company, one of which is the possibility of generating biomethane from waste from the company's operations. These actions will reduce the company's scope 1 emissions and allow the capture of methane generated in the treatment of the company's solid and liquid waste, thus allowing its use as fuel.

(3.6.1.26) Estratégia para concretizar a oportunidade

The protection of natural resources and climate change are linked to its voluntary approach to reducing emissions and sustainability, regardless of the income obtained from the sale of carbon credits. Situation: Marfrig evaluates projects in its operations, as well as prospects for work on emissions reduction initiatives in the supply chain. These projects seek to find and apply solutions to minimize environmental impacts at all stages of the value chain. Task: More sustainable practices are required by several foreign markets. Marfrig opens the possibility of investigating these markets by demonstrating action plans to reduce emissions from direct operations. Thus, Marfrig conducts studies and assessments to carry out initiatives aimed at reducing emissions and preserving natural resources. i. The Tacuarembó wind farm in Uruguay uses the energy generated for self-consumption. In line with Marfrig's initiatives for progressively sustainable and clean production, wind energy meets, on average, approximately 30% of the unit's demand. ii. In this sense, Marfrig can meet the demand for different proteins through increased production. In this line, PlantPlus Foods was created, a foodtech that produces plant-based foods, such as hamburgers, meatballs, kibbeh and other products, with flavor and texture identical to their versions with animal protein. Results: Sewage Treatment Plants (STPs) are present in all Marfrig units in Brazil. The

improvement projects, approved in 2023, allowed the investment of R 12.7 million in improvements aimed at greater efficiency and cost reduction in the use of chemical products. The company has also been researching alternatives that bring more value to the waste generated, including methods of capturing methane generated from the decomposition of organic waste produced in the treatment of effluents and sludge systems from biological treatment. Methane can be transformed into electrical and thermal energy, allowing the treatment plants to be self-sustainable. In terms of access to international markets, including access to specific markets, competitive advantage, business partners, greater brand recognition and access to incentive and financing programs, which bring more benefits than standard financing

Mudanças climáticas

(3.6.1.1) Identificador de oportunidades

Selecione de:

Opp3

(3.6.1.3) Tipo de oportunidade e fator primário da oportunidade ambiental

Produtos e serviços

Aumento das vendas de produtos e serviços existentes

(3.6.1.4) Estágio da cadeia de valor em que a oportunidade ocorre

Selecione de:

Operações diretas

(3.6.1.8) Descrição específica da organização

One of Marfrig's strategies is to offer low- or neutral-emission animal protein, which can positively shift market preferences. According to a recent Nielsen survey, 77% of Latin Americans are willing to buy from companies with sustainable initiatives, even with a small price increase. Sustainability is a core pillar for Marfrig. In 2018, the company partnered with Embrapa to develop a production protocol with lower emissions. Embrapa created concepts for carbon-neutral (CCN) and low-carbon meat (CBC), aimed at certifying meat produced in systems that neutralize or reduce methane emissions from animals, adding value to the supply chain. With growing demand for sustainable products, Marfrig can significantly boost revenue by developing more sustainable offerings. Investments are needed to expand direct operations and modify production methods to meet this demand. Since 2000, Marfrig has been developing its organic meat program in Uruguay, which set new sales records in 2023. The U.S. remains the main market for certified organic meat, which is also sold in Europe and South America. In Brazil, Marfrig has started processing Uruguayan organic meat at its Pampeano plant, which can produce 10,000 packages of organic meat per day.

(3.6.1.9) Principal efeito financeiro da oportunidade

Selecione de:

- Aumento de receita por meio do acesso a mercados novos e emergentes

(3.6.1.10) O horizonte de tempo para o qual está previsto o efeito substancial da oportunidade sobre a organização

Selecione todos os aplicáveis

- Médio prazo

(3.6.1.11) Probabilidade da oportunidade provocar um efeito dentro do horizonte de tempo previsto

Selecione de:

- Tão provável quanto improvável (33–66%)

(3.6.1.12) Magnitude

Selecione de:

- Média

(3.6.1.14) O efeito previsto da oportunidade na posição financeira, no desempenho financeiro e nos fluxos de caixa da organização nos horizontes de tempo futuro selecionados

Marfrig did not evaluate the effect of the opportunity on the financial position, financial performance and cash flows of the organization.

(3.6.1.15) É possível quantificar os efeitos financeiros da oportunidade?

Selecione de:

- Não

(3.6.1.25) Explicação do cálculo do custo

The R&D cost for the development and pilot deployment of Low Carbon Meat (LBC) and Carbon Neutral Meat (CCN) was accounted for: CBC: Investment of BRL 737,059.34 made with EMBRAPA. CCN: Hiring consultants from Brasil GAP totaled BRL 21,000.00

(3.6.1.26) Estratégia para concretizar a oportunidade

To find current prospects, the section on New Business Development keeps a careful eye on industry trends. Situation: Technological developments in the market are inspired by more environmentally friendly animal protein sources. Research and new technology development as well as low-carbon protein manufacturing techniques are attracting increasing funding right now. TASK: Marfrig aims to create and sell low-carbon proteins, such substitutes based on more sustainable plant-based and animal-based proteins, in order to stay up with market developments. Action: Marfrig teamed up with Brazilian Agricultural Research Corporation (Embrapa) in 2018 to help more sustainable methods of cattle management be adopted. Developed by Embrapa for the certification of meat produced in systems that either neutralize or reduce the methane emission per animal, the initiative spans the production concepts of Carbon Neutral Meat (CCN - Carbon Neutral Meat) - and Low Carbon Meat (CBC - Low Carbon Meat), so strengthening the value added to the chain. RESULTS: The initiative is a testament to Marfrig's commitment to a sustainable production system and represents a significant advancement in the sector's value chain. The Brazilian product is distinguished in non-tariff discussions that involve concerns of good sustainability practices, thereby enhancing the home market and meat exports, which are primarily directed to more demanding markets

Florestas

(3.6.1.1) Identificador de oportunidades

Selecione de:

Opp5

(3.6.1.3) Tipo de oportunidade e fator primário da oportunidade ambiental

Mercados

Maior crescimento do mercado de proteínas alternativas [Somente para gado e soja]

(3.6.1.4) Estágio da cadeia de valor em que a oportunidade ocorre

Selecione de:

Cadeia de valor <i>upstream</i>

(3.6.1.8) Descrição específica da organização

Marfrig actively supports global protein sustainability standards through participation in GRSB and GTPS, with key contributions to the Guide to Sustainable Livestock Indicators (GIPS), which includes deforestation criteria. Marfrig also aligns with the Tropical Forest Alliance (TFA) to achieve zero net deforestation across various production chains by 2020. In 2020, Marfrig launched the Viva! brand, offering Carbon Neutral Brazilian Beef (CNBB), produced using livestock-forestry systems that neutralize methane emissions. This initiative is part of a partnership with Embrapa, begun in 2018, to promote sustainable livestock practices. Alongside CNBB,

Marfrig is developing Low Carbon Brazilian Beef (LCBB) under the same collaboration. The company encourages free-range cattle raising with pasture-based feed, viewing it as a significant business opportunity that meets consumer expectations regarding climate impact and improves production systems. Marfrig plans to expand production under the CNBB and LCBB protocols by training suppliers and adapting necessary practices. This new market could potentially boost the company's revenue by at least 5%, marking a significant financial impact.

(3.6.1.9) Principal efeito financeiro da oportunidade

Selecione de:

- Aumento de receita por meio do acesso a mercados novos e emergentes

(3.6.1.10) O horizonte de tempo para o qual está previsto o efeito substancial da oportunidade sobre a organização

Selecione todos os aplicáveis

- Curto prazo

(3.6.1.11) Probabilidade da oportunidade provocar um efeito dentro do horizonte de tempo previsto

Selecione de:

- Mais provável que improvável (50–100%)

(3.6.1.12) Magnitude

Selecione de:

- Média-alta

(3.6.1.14) O efeito previsto da oportunidade na posição financeira, no desempenho financeiro e nos fluxos de caixa da organização nos horizontes de tempo futuro selecionados

Marfrig did not evaluate the effect of the opportunity on the financial position, financial performance and cash flows of the organization.

(3.6.1.15) É possível quantificar os efeitos financeiros da oportunidade?

Selecione de:

- Sim

(3.6.1.17) Valor previsto do efeito financeiro em curto prazo - mínimo (moeda)

2487246800

(3.6.1.18) Valor previsto do efeito financeiro no curto prazo - máximo (moeda)

2487246800

(3.6.1.23) Explicação dos valores do efeito financeiro

To estimate the financial impact of this opportunity, the company assessed consumers' behavior and the possibilities of opening this market in Brazil. A study on global consumer trends by IBM and NRF (National Retail Federation) reveals that the brand's purpose outweighs the cost and convenience for today's buyers. The survey points out that consumers would be willing to pay an additional 35% of the initial cost for sustainable purchases, such as recycled or ecological products, with proven traceability. Also, the company assesses market trends in the markets in which it operates and globally. It is known of the increasingly high expectations of consumers regarding the impacts related to climate change, and we seek to serve this expanding market. The financial impact estimate considered an increase in the productive capacity of the operating units that have production within these protocols, so that these products represent 5% of the company's gross revenues.

(3.6.1.25) Explicação do cálculo do custo

The management cost involves the Marfrig Club Program and the follow-up of the cattle purchase processes on the farms located in the Amazon Biome. Investments made in new lines of ecological products, such as Low Carbon Meat (LBC) and Carbon Neutral Meat (CCN). Investment of BRL 387.128,49 made with EMBRAPA and hiring consultants from Brasil GAP.

(3.6.1.26) Estratégia para concretizar a oportunidade

Sustainability is one of the strategic pillars of our business and is also pursued through concrete work plans, public commitments, clear goals and a solid management structure. We conduct our efforts, on this front, with the aim of minimizing the impact of our operations on the environment, attentive to the effects on climate change, and of being an effective agent of transformation in our production chain, promoting production models that preserve biomes and biodiversity, in addition to encouraging good social responsibility practices, including respect for human rights and socioeconomic inclusion. In this way, Marfrig focuses on improving processes and our work routines to produce more sustainable products, in order to conserve natural resources and ensure better practices for animal welfare. The good sustainability practices that were adopted are also reflected in products with superior quality, making it possible to meet the demands of consumers and the more than 100 markets we serve. Marfrig launches a new line of meat cuts produced under the low-carbon concept, in partnership with the Brazilian Agricultural Research Corporation (Embrapa). In this sense, in 2022, we carried out training for independent auditors who will certify how farms supply the raw material, which must be guaranteed to the criteria of sustainable management of the property, ensured in the identification of this new product. Marfrig is launching a new line of low carbon meat cuts (CBC) in partnership with Embrapa, which adds to the existing line of Carbon Neutral Meat (CCN). Both products, identified by the Viva! brand, are produced in forest-livestock systems, neutralizing methane emissions from animals.

Florestas

(3.6.1.1) Identificador de oportunidades

Selecione de:

- Opp6

(3.6.1.3) Tipo de oportunidade e fator primário da oportunidade ambiental

Mercados

- Maior crescimento do mercado de proteínas alternativas [Somente para gado e soja]

(3.6.1.4) Estágio da cadeia de valor em que a oportunidade ocorre

Selecione de:

- Cadeia de valor <i>upstream</i>

(3.6.1.8) Descrição específica da organização

The opportunity related to soy as a forest risk commodity brings a significant positive benefit to Marfrig. The main expected strategic and financial impact is further growth in the alternative protein market, driven by increased demand for plant-based foods. This opportunity originates both in Marfrig's direct operations and in its supply chain. Marfrig seeks to meet the growing demand for alternative proteins, taking advantage of market opportunities in this segment. Marfrig has a sustainable approach to soy, seeking to mitigate forest risks associated with this commodity. The company adopts strict criteria in the selection of soy suppliers, guaranteeing the responsible origin and traceability of the product. In addition, Marfrig is committed to reducing deforestation associated with soy production, collaborating to preserve forests. The growth opportunity in the alternative protein market, driven by soy, benefits Marfrig on several fronts. First, the company can diversify its product portfolio, meeting the growing demand for plant-based options. This strengthens your competitive position and your ability to adapt to consumer preferences. Marfrig seeks to integrate sustainable practices into all its operations, from production to distribution, with the aim of boosting growth in the alternative protein market and contributing to environmental preservation.

(3.6.1.9) Principal efeito financeiro da oportunidade

Selecione de:

- Aumento de receita por meio do acesso a mercados novos e emergentes

(3.6.1.10) O horizonte de tempo para o qual está previsto o efeito substancial da oportunidade sobre a organização

Selecione todos os aplicáveis

Curto prazo

(3.6.1.11) Probabilidade da oportunidade provocar um efeito dentro do horizonte de tempo previsto

Selecione de:

Provável (66–100%)

(3.6.1.12) Magnitude

Selecione de:

Média-baixa

(3.6.1.14) O efeito previsto da oportunidade na posição financeira, no desempenho financeiro e nos fluxos de caixa da organização nos horizontes de tempo futuro selecionados

Marfrig did not evaluate the effect of the opportunity on the financial position, financial performance and cash flows of the organization.

(3.6.1.15) É possível quantificar os efeitos financeiros da oportunidade?

Selecione de:

Sim

(3.6.1.17) Valor previsto do efeito financeiro em curto prazo - mínimo (moeda)

497449360

(3.6.1.18) Valor previsto do efeito financeiro no curto prazo - máximo (moeda)

497449360

(3.6.1.23) Explicação dos valores do efeito financeiro

In 2022, we consolidated the expansion of PlantPlus Foods, a company dedicated to the production and marketing of plant-based products. During this period, we completed the acquisitions of the Canadian company Sol Cuisine and the American company Hilary's. Due to these recent acquisitions, it is estimated that a

percentage of customers have been transferred to Marfrig, increasing profits with the growth in production of plant-based products, resulting in an estimated financial impact of R 497,449,360.

(3.6.1.25) Explicação do cálculo do custo

The launch of PlantPlus! and the expansion of the plant-based product portfolio strengthened Marfrig's position in the food market, making it a reference in alternative proteins. The company has become a pioneer in this segment, capturing a share of the growing market of consumers looking for healthier and healthier options. In 2022, approximately U 140 MI was invested in the expansion of PlantPlus Foods. Thus, with the increase in production, Marfrig can meet the demand for differentiated proteins. A partnership between Marfrig and ADM in the creation of PlantPlus! it was a strategic step to expand the plant-based food market. Through this initiative, Marfrig was able to diversify its portfolio, meet the demands of conscious consumers and strengthen its position as a leader in proteins. Cost to realize the opportunity: U 140,000,000 x BRL 4.79 (current dollar exchange rate) BRL 670,600,000

(3.6.1.26) Estratégia para concretizar a oportunidade

Marfrig, one of the world's leading food companies, has identified an opportunity in the plant-based food market. With the growth of conscious consumption habits and the demand for vegetarian and vegan options, the company decided to start the large-scale production of 100% vegetable hamburgers, with a flavor and texture similar to meat. Marfrig has established a strategic partnership with Archer Daniels Midland Company (ADM), one of the largest suppliers of food ingredients in the world, to ensure its entry into the plant-based food market. Together they created PlantPlus!, a joint venture dedicated to the production and sale of plant-based foods in North and South America. The partnership between Marfrig and ADM resulted in the creation of PlantPlus!, headquartered in Chicago (USA). Marfrig holds a 70% stake in the company, while the remaining 30% belongs to ADM. A PlantPlus! aims to produce and market plant-based foods through retail channels and food service chains. The creation of PlantPlus! expanded Marfrig's product portfolio in the plant-based food market. In addition to vegetable burgers, the company launched other items such as kebab, meatballs and ground protein, among others. This diversification has allowed Marfrig to meet the different preferences and needs of consumers looking for vegetable protein alternatives.

[Adicionar linha]

(3.6.2) Informe o montante e a proporção das suas métricas financeiras no ano de reporte alinhadas aos efeitos substanciais das oportunidades ambientais.

Mudanças climáticas

(3.6.2.1) Métrica financeira

Selecione de:

Receita

(3.6.2.2) Montante da métrica financeira alinhada a oportunidades para esse problema ambiental (unidade monetária conforme selecionada em 1.2)

64800000

(3.6.2.3) Percentual da métrica financeira total alinhada a oportunidades para esse problema ambiental

Selecione de:

Menos de 1%

(3.6.2.4) Explicação dos valores financeiros

The values of the opportunities mapped by Marfrig are presented in the answer to question 3.6.1. Therefore, the total sum of the cost to realize the mapped opportunities represents 0.05% of the total gross revenue.

Florestas

(3.6.2.1) Métrica financeira

Selecione de:

Receita

(3.6.2.2) Montante da métrica financeira alinhada a oportunidades para esse problema ambiental (unidade monetária conforme selecionada em 1.2)

7051388250

(3.6.2.3) Percentual da métrica financeira total alinhada a oportunidades para esse problema ambiental

Selecione de:

1-10%

(3.6.2.4) Explicação dos valores financeiros

Since the sale of cattle products is Marfrig's main source of income, it is estimated that 5% of its gross revenue is aligned to receiving positive financial effects from forestry opportunities associated with this commodity.

Água

(3.6.2.1) Métrica financeira

Selecione de:

O CAPEX

(3.6.2.2) Montante da métrica financeira alinhada a oportunidades para esse problema ambiental (unidade monetária conforme selecionada em 1.2)

1242195

(3.6.2.3) Percentual da métrica financeira total alinhada a oportunidades para esse problema ambiental

Selecione de:

Menos de 1%

(3.6.2.4) Explicação dos valores financeiros

For Marfrig, this amount was calculated based on the identification of Capex associated with the investment to improve water efficiency in the operational units in Brazil. The total amount related to this investment in 2023 was R 1,242,195. The methodology applied to calculate the financial amount related to the opportunity involved identifying the estimated expenses for implementing each of the projects in the operational units aimed at expanding and improving water efficiency at Marfrig. This amount includes a series of essential activities to ensure the availability and quality of water in its operations. Among these activities, the installation of flow reduction devices and automation systems, together with training programs for our employees, stand out. In regions where water quality is not critical, we develop projects to reuse this resource. These actions are essential to realize the opportunity and the result aimed at greater water efficiency. The comparative analysis is between the Capex allocated to improving water efficiency and the company's total Capex in 2023, which was R 3,907 million, contextualizing the importance of this investment within Marfrig's total investment scope

[Adicionar linha]

C4. Governança

(4.1) A organização tem um conselho de diretores ou um órgão de governança equivalente?

(4.1.1) Conselho de diretores ou órgão de governança equivalente

Selecione de:

Sim

(4.1.2) Frequência de reuniões do conselho

Selecione de:

Frequência maior que trimestral

(4.1.3) Tipos de diretores que compõem o conselho

Selecione todos os aplicáveis

Diretores executivos ou equivalente

Diretores não executivos ou equivalente

Diretores não executivos independentes ou equivalente

(4.1.4) Política de diversidade e inclusão do conselho

Selecione de:

Sim, e está disponível publicamente

(4.1.5) Descreva brevemente o que a política abrange

The Policy for Appointing Board Members, Committee Members and the Executive Board, as set forth in the item “General Guidelines for Appointment and Hiring”, provides that “The appointment of Directors governed by this Policy must comply with the provisions of the documents, legislation and regulations mentioned in Clause 1 above, as well as consider the challenges and strategic priorities of the Company and the prior analysis of the needs of each body. It also provides that the following minimum qualifications are required to hold a position as a member of the Board and Committees, and of the Executive Board: a diversified profile, taking

into account knowledge, experience, behaviors, cultural aspects, age group and gender, and must constitute a group aligned with Marfrig's principles, values and Code of Ethics and Conduct.

(4.1.6) Anexe a política (opcional)

Política de Indicação de Conselheiros, Membros de Comitês e da Diretoria Executiva.pdf
[Linha fixa]

(4.1.1) Existe supervisão dos problemas ambientais por parte do conselho na organização?

| | Supervisão do conselho para este problema ambiental |
|---------------------|--|
| Mudanças climáticas | Selecione de: <input checked="" type="checkbox"/> Sim |
| Florestas | Selecione de: <input checked="" type="checkbox"/> Sim |
| Água | Selecione de: <input checked="" type="checkbox"/> Sim |
| Biodiversidade | Selecione de: <input checked="" type="checkbox"/> Sim |

[Linha fixa]

(4.1.2) Identifique os cargos (não inclua nomes) das pessoas ou os comitês do conselho que respondem por problemas ambientais e dê detalhes sobre a supervisão do conselho para problemas ambientais.

Mudanças climáticas

(4.1.2.1) Cargos de pessoas ou comitês que respondem por este problema ambiental

Selecione todos os aplicáveis

- Diretor Executivo (CEO)
- Diretor de Sustentabilidade (CSO)
- Comitê do conselho

(4.1.2.2) A responsabilidade do cargo por esse problema ambiental está descrita nas políticas aplicáveis ao conselho

Selecione de:

- Sim

(4.1.2.3) Políticas que descrevem a responsabilidade do cargo por esse problema ambiental

Selecione todos os aplicáveis

- Descrições das funções individuais

(4.1.2.4) Frequência com que esse problema ambiental é incluído na pauta programada

Selecione de:

- Item da pauta programada em cada reunião do conselho (item permanente da pauta)

(4.1.2.5) Mecanismos de governança nos quais este problema ambiental está integrado

Selecione todos os aplicáveis

- Análise e orientação de orçamentos anuais
- Supervisão da definição de metas corporativas
- Monitoramento do progresso das metas corporativas
- Supervisão e orientação de grandes gastos de capital
- Monitoramento da implementação da estratégia de negócios
- Aprovação e/ou supervisão de incentivos para os funcionários
- Monitoramento da implementação de um plano de transição climática
- Supervisão e orientação do desenvolvimento de uma estratégia de negócios
- Supervisão e orientação do desenvolvimento de um plano de transição climática
- Análise e orientação de processo de avaliação para dependências, impactos, riscos e oportunidades

(4.1.2.7) Explicação

Board-level committee: The Sustainability Committee is tasked with evaluating the Administrative Board's decisions regarding sustainability and setting priorities on this topic. It monitors the execution of the Climate Change strategy, promoting sustainable development, raw material sourcing management, animal welfare, GHG emissions, natural resource conservation, and effluent and waste management to minimize environmental impact. For example, the committee approved a climate risk assessment and a review of Marfrig's decarbonization targets to monitor activities related to climate change and emissions neutralization. The committee outlined the scope of a study to meet Marfrig's needs, hiring a company capable of developing a decarbonization plan and modeling a climate risk analysis methodology. The decarbonization project will use the GHG Protocol methodology, already employed in Marfrig's inventory, while the climate risk analysis will follow the Network for Greening the Financial System (NGFS) methodology, incorporating Nationally Determined Contributions (NDC) and Net Zero 2050 (NZ2050) transition scenarios.

Chief Executive Officer (CEO): In Marfrig Global Foods' organizational structure, environmental and sustainability issues are directly linked to the CEO. Regular meetings with the CEO discuss projects and investment plans, with a focus on climate-related risks and opportunities, supported by the Sustainability Committee. In 2021, the CEO approved a US\$30 million investment to manage the supply chain in the Amazon and Cerrado biomes and committed 1.75 million, until 2025, to support small producers in the Juruena Valley (MT), in the Amazon biome, through the Sustainable Beef Program.

Chief Sustainability Officer (CSO): The Sustainability Director conducts strategic planning and executes tactical guidelines to establish best practices across Marfrig's operations in various countries. As part of the Sustainability Committee, alongside two Board members and a coordinator, the director, closely monitored by the CEO, analyzes climate-related risks and opportunities, setting performance targets for operational units. In 2021, notable decisions included investing R\$30 million in modernizing Marfrig's wastewater and water treatment facilities to improve efficiency and reduce GHG emissions and approving the emission reduction target aligned with environmental science. Marfrig became the first beef protein company in Brazil to have a Science-Based Targets initiative-approved target.

Florestas

(4.1.2.1) Cargos de pessoas ou comitês que respondem por este problema ambiental

Selecione todos os aplicáveis

- Diretor Executivo (CEO)
- Diretor de Sustentabilidade (CSO)
- Comitê do conselho

(4.1.2.2) A responsabilidade do cargo por esse problema ambiental está descrita nas políticas aplicáveis ao conselho

Selecione de:

- Sim

(4.1.2.3) Políticas que descrevem a responsabilidade do cargo por esse problema ambiental

Selecione todos os aplicáveis

- Descrições das funções individuais

(4.1.2.4) Frequência com que esse problema ambiental é incluído na pauta programada

Selecione de:

- Item da pauta programada em cada reunião do conselho (item permanente da pauta)

(4.1.2.5) Mecanismos de governança nos quais este problema ambiental está integrado

Selecione todos os aplicáveis

- Supervisão da definição de metas corporativas
- Monitoramento do progresso das metas corporativas
- Supervisão e orientação de grandes gastos de capital
- Aprovação de políticas e/ou compromissos corporativos
- Aprovação e/ou supervisão de incentivos para os funcionários
- Supervisão e orientação do desenvolvimento de uma estratégia de negócios
- Monitoramento da conformidade com políticas e/ou compromissos corporativos
- Monitoramento da conformidade do fornecedor com os requisitos da organização
- Análise e orientação de processo de avaliação para dependências, impactos, riscos e oportunidades

(4.1.2.7) Explique

CEO: In the current organizational structure of Marfrig Global Foods, according to the organization chart of the company, the issues of environment and sustainability have a direct relationship with the Chief Executive Officer (CEO). As deforestation issues are directly associated with Marfrig's operations, this subject is discussed at meetings scheduled by the Board Committee. In this regard, in periodic meetings, the projects and investment plans are raised and discussed with the active participation of the CEO of Marfrig. These meetings allow to monitor directly the risk assessments related to the purchase of deforestation inputs, which are identified with the aid of the company's Geospatial Monitoring System. As an example of the CEO's performance, the decision was taken to participate in the creation in 2021 of the company Biomax, which operates in the replanting and recovery of deforested areas. Board-level committee: The Sustainability Committee is responsible for advising the Board of Directors in making decisions on the topic of sustainability and discusses, evaluates and defines priorities on this topic. The director of sustainability is part of the Sustainability Committee, alongside two members of the Board Directors and a coordinator. Currently, this committee also has the responsibility to advise the Board on issues related to deforestation risks, and to provide guidance to the overall sustainability strategy and strategic planning. The members of the Sustainability Committee discussed the anticipation of the Marfrig Verde goals program, commitments reinforced by the Company to establish low-carbon, 100% traceable, deforestation-free, inclusive, and more productive and profitable livestock farming, bringing forward by 5 years, to 2025, the goal of full traceability of its direct and indirect suppliers, in the purchase of animals for slaughter, in addition to implementing a series of accelerated actions for the program, such as: i) recovery and transformation of soils and pastures; ii) ecological restoration; iii) regenerative agriculture; iv) genetic improvement of herds with integration;

v) technologies for measuring carbon in the soil; vi) certified low-carbon meat and carbon-neutral meat; vii) protection of biodiversity; and viii) support for small livestock producers. The Company invested more than R 100 million in sustainable practices. CSO: The Sustainability Director carries out strategic planning. Closely monitored by the CEO, it analyzes the risks and opportunities related forests, as the control of the origin and traceability of commodities purchased by Marfrig, and determines the performance targets for the operating units, following the results. As an example of decision-making, the Sustainability Director approved the 2022 budget for improving the implementation of the Risk Map.

Água

(4.1.2.1) Cargos de pessoas ou comitês que respondem por este problema ambiental

Selecione todos os aplicáveis

- Diretor Executivo (CEO)
- Diretor de Sustentabilidade (CSO)
- Comitê do conselho

(4.1.2.2) A responsabilidade do cargo por esse problema ambiental está descrita nas políticas aplicáveis ao conselho

Selecione de:

- Sim

(4.1.2.3) Políticas que descrevem a responsabilidade do cargo por esse problema ambiental

Selecione todos os aplicáveis

- Descrições das funções individuais

(4.1.2.4) Frequência com que esse problema ambiental é incluído na pauta programada

Selecione de:

- Item da pauta programada em cada reunião do conselho (item permanente da pauta)

(4.1.2.5) Mecanismos de governança nos quais este problema ambiental está integrado

Selecione todos os aplicáveis

- Monitoramento do progresso das metas corporativas
- Supervisão e orientação de grandes gastos de capital

- Aprovação de políticas e/ou compromissos corporativos
- Monitoramento da implementação da estratégia de negócios
- Análise e orientação das prioridades de inovação / P&D
- Aprovação e/ou supervisão de incentivos para os funcionários
- Supervisão e orientação do desenvolvimento de uma estratégia de negócios
- Monitoramento da conformidade com políticas e/ou compromissos corporativos
- Análise e orientação de processo de avaliação para dependências, impactos, riscos e oportunidades

(4.1.2.7) Explique

CEO: At Marfrig, the CEO is responsible, together with other directors, for implementing the policies and guidelines established by the Board of Directors. In the current organizational structure, environmental and sustainability issues fall directly under the CEO's purview. In regular meetings, the CEO actively participates in discussions on projects and investment plans, facilitating direct oversight of water security risk and opportunity analyses, with the support of the Sustainability Committee. Water security issues are reviewed weekly in meetings with the entire management team. One example of a CEO decision was to approve investments in water and effluent treatment plants, which caused investments (CAPEX) to almost triple from R25 million to more than R70 million between 2021 and 2022, an increase of 175%. Operating expenses (OPEX) related to wastewater treatment and maintenance also increased by approximately 12.5% compared to the previous year. These investments have significantly improved the company's water efficiency, which is crucial to achieving the goal of reducing water withdrawals per ton produced by 2035. CSO: Marfrig's Chief Sustainability Officer is responsible for executing sustainability strategies under the supervision of the CEO, integrating sustainability as a core value across all areas and the company's value chain. The officer participates in quarterly meetings to monitor key performance indicators (KPIs) related to the collection, reuse and quality of discharged effluent. These meetings, which are supervised by the CEO, analyze water-related risks and opportunities, and define performance targets for the operating units. An example of a CSO decision includes the evaluation of guidelines for investments in water and effluent treatment plants, approved in collaboration with the CEO and the Board. As a result, investments (CAPEX) in wastewater management infrastructure almost tripled, and operating expenses (OPEX) increased by approximately 12.5%. Board-Level Committee: This committee advises the Board on water security risk issues and guides the company's sustainability strategy. The company has a member on the Management Committee with extensive experience in sustainability, participating in organizations such as WWF, GRI, and IBGC. This member contributes to addressing sustainability issues. In 2023, the committee formulated guidelines for investments in improvements to water management infrastructure, resulting in a 3% increase in water efficiency and a 3% reduction in total water collected, representing more than 798 million liters of water. These investments improved the company's water efficiency, essential to achieving the goal of reducing water withdrawals by 2035. Thus, the Sustainability Committee plays a strategic and advisory role, ensuring adherence to best water management practices. The committee monitors the assessment of the company's water risks and actions for efficient use.

Biodiversidade

(4.1.2.1) Cargos de pessoas ou comitês que respondem por este problema ambiental

Selecione todos os aplicáveis

- Diretor Executivo (CEO)

Diretor de Sustentabilidade (CSO)

Comitê do conselho

(4.1.2.2) A responsabilidade do cargo por esse problema ambiental está descrita nas políticas aplicáveis ao conselho

Selecione de:

Sim

(4.1.2.3) Políticas que descrevem a responsabilidade do cargo por esse problema ambiental

Selecione todos os aplicáveis

Descrições das funções individuais

(4.1.2.4) Frequência com que esse problema ambiental é incluído na pauta programada

Selecione de:

Item da pauta programada em cada reunião do conselho (item permanente da pauta)

(4.1.2.5) Mecanismos de governança nos quais este problema ambiental está integrado

Selecione todos os aplicáveis

Aprovação de políticas e/ou compromissos corporativos

Supervisão da definição de metas corporativas

Monitoramento do progresso das metas corporativas

Supervisão e orientação de grandes gastos de capital

Aprovação e/ou supervisão de incentivos para os funcionários

(4.1.2.7) Explique

Board-level committee: The Sustainability Committee is responsible for evaluating the Administrative Board when making decisions on the topic of sustainability and discussing, evaluating and defining priorities on this topic. The Sustainability Committee monitors the execution of the determined strategy for Climate Change, promoting good practices for sustainable development, management of control of the origin of raw materials, animal welfare, GHG emissions, conservation of natural resources and effluents and waste, with the aim of minimizing the impact of our operations on the environment. The Committee oversees actions and initiatives aimed at preserving biomes, such as the Amazon, Cerrado and Pantanal. It also monitors the impacts of operations on biodiversity and the adoption of practices to mitigate them. The members of the Sustainability Committee discussed the anticipation of the Marfrig Verde goals program, commitments made by the Company to establish

low-carbon, 100% traceable, deforestation-free, inclusive and more productive and profitable livestock farming, anticipating by 5 years, to 2025, the goal of full traceability of its direct and indirect suppliers, when purchasing animals for slaughter, in addition to implementing a series of actions aimed at accelerating the program, such as: i) the recovery and transformation of soils and pastures; ii) restoration ecological; iii) regenerative agriculture; iv) genetic improvement of livestock with integration; v) soil carbon measurement technologies; vi) certified low carbon meat and carbon neutral meat; vii) protection of biodiversity; and viii) support for small producers of creation. The Company invested more than R100 million in sustainable practices Chief Executive Officer (CEO): In the current organizational structure of Marfrig Global Foods, according to the organization chart of the company, the issues of environment and sustainability have a direct relationship with the Chief Executive Officer (CEO). In this regard, in periodic meetings, the projects and investment plans are raised and discussed with the active participation of the CEO of Marfrig. These meetings allow the direct follow-up of analyzes of climate-related risks and opportunities that are identified with assistance from the Sustainability Committee. Thus, the CEO of Marfrig is focused on issues related to sustainability, and therefore related to climate change. Chief Sustainability Officer (CSO): The Sustainability Director carries out strategic planning and executes tactical guidelines on the topic, also seeking to establish best practices in all businesses and units, in different countries. The sustainability director is part of the Sustainability Committee, alongside two members of the Board of Directors and a coordinator. Closely monitored by the CEO, it analyzes the risks and opportunities related to climate issues and determines the performance targets for the operating units, following the results.

[Linha fixa]

(4.2) O conselho da organização está capacitado para lidar com problemas ambientais?

Mudanças climáticas

(4.2.1) Capacitação do conselho para este problema ambiental

Selecione de:

Sim

(4.2.2) Mecanismos para manter um conselho competente em termos ambientais

Selecione todos os aplicáveis

- Consultoria regular com um grupo de trabalho interno, permanente, especialista no assunto
- Engajamento regular com partes interessadas externas e especialistas em problemas ambientais
- Inclusão de no mínimo um membro do conselho que seja especialista nesse problema ambiental

(4.2.3) Conhecimento ambiental especializado do membro do conselho

Acadêmica

Graduação (p. ex., Bacharel em meio ambiente e sustentabilidade, ciências do clima, ciências ambientais, gestão de recursos hídricos, engenharia ambiental, engenharia florestal etc.), especifique :Bachelor's Degree in Biological Sciences

Experiência

- Experiência de nível executivo em uma função focada em problemas ambientais
- Membro ativo de um comitê ou organização ambiental

Florestas

(4.2.1) Capacitação do conselho para este problema ambiental

Selecione de:

- Sim

(4.2.2) Mecanismos para manter um conselho competente em termos ambientais

Selecione todos os aplicáveis

- Consultoria regular com um grupo de trabalho interno, permanente, especialista no assunto
- Engajamento regular com partes interessadas externas e especialistas em problemas ambientais
- Inclusão de no mínimo um membro do conselho que seja especialista nesse problema ambiental

(4.2.3) Conhecimento ambiental especializado do membro do conselho

Acadêmica

Graduação (p. ex., Bacharel em meio ambiente e sustentabilidade, ciências do clima, ciências ambientais, gestão de recursos hídricos, engenharia ambiental, engenharia florestal etc.), especifique :Bachelor's Degree in Biological Sciences

Experiência

- Experiência de nível executivo em uma função focada em problemas ambientais
- Membro ativo de um comitê ou organização ambiental

Água

(4.2.1) Capacitação do conselho para este problema ambiental

Selecione de:

Sim

(4.2.2) Mecanismos para manter um conselho competente em termos ambientais

Selecione todos os aplicáveis

- Consultoria regular com um grupo de trabalho interno, permanente, especialista no assunto
- Engajamento regular com partes interessadas externas e especialistas em problemas ambientais
- Inclusão de no mínimo um membro do conselho que seja especialista nesse problema ambiental

(4.2.3) Conhecimento ambiental especializado do membro do conselho

Acadêmica

Graduação (p. ex., Bacharel em meio ambiente e sustentabilidade, ciências do clima, ciências ambientais, gestão de recursos hídricos, engenharia ambiental, engenharia florestal etc.), especifique :Bachelor's Degree in Biological Sciences

Experiência

- Experiência de nível executivo em uma função focada em problemas ambientais
- Membro ativo de um comitê ou organização ambiental

[Linha fixa]

(4.3) Há alguma responsabilidade em nível de gestão para os problemas ambientais da organização?

| | Responsabilidade por este problema ambiental em nível de gestão |
|---------------------|---|
| Mudanças climáticas | <i>Selecione de:</i> <input checked="" type="checkbox"/> Sim |
| Florestas | <i>Selecione de:</i> <input checked="" type="checkbox"/> Sim |
| Água | <i>Selecione de:</i> <input checked="" type="checkbox"/> Sim |
| Biodiversidade | <i>Selecione de:</i> <input checked="" type="checkbox"/> Sim |

[Linha fixa]

(4.3.1) Informe os cargos seniores de gestão ou comitês de nível mais alto com responsabilidade por problemas ambientais (não inclua os nomes das pessoas).

Mudanças climáticas

(4.3.1.1) Cargo do indivíduo ou comitê com responsabilidade

Nível executivo

Diretor de Sustentabilidade (CSO)

(4.3.1.2) Responsabilidades ambientais deste cargo

Dependências, impactos, riscos e oportunidades

Avaliação de dependências, impactos, riscos e oportunidades ambientais

Gestão de dependências, impactos, riscos e oportunidades ambientais

Engajamento

- Gestão da conformidade do fornecedor com os requisitos ambientais
- Gestão do engajamento da cadeia de valor relacionada a problemas ambientais

Políticas, compromissos e metas

- Monitoramento da conformidade com políticas e/ou compromissos ambientais corporativos
- Mensuração do progresso quanto a metas ambientais corporativas
- Mensuração do progresso quanto a metas ambientais de base científica
- Definição de políticas e/ou compromissos ambientais corporativos
- Definição de metas ambientais corporativas

Estratégia e planejamento financeiro

- Implementação de um plano de transição climática
- Desenvolvimento de um plano de transição climática
- Gestão de orçamentos anuais relacionados a problemas ambientais
- Gestão de processos de reporte, auditoria e verificação ambiental
- Implantação da estratégia de negócios relacionada a problemas ambientais
- Desenvolvimento de uma estratégia de negócios que leva em consideração problemas ambientais
- Gestão de grandes despesas de capital e/ou despesas operacionais relacionadas a problemas ambientais
- Gestão das prioridades relacionadas a inovação/produtos ou serviços de baixo impacto ambiental (incluindo Pesquisa e Desenvolvimento)

(4.3.1.4) Linha de reporte

Selecione de:

- Responde diretamente ao conselho

(4.3.1.5) Frequência de reporte para o conselho dos problemas ambientais

Selecione de:

- Frequência maior que trimestral

(4.3.1.6) Explique

The Sustainability Department plays a key role in implementing Marfrig's climate transition plan. As an integral part of the Sustainability Committee, it is responsible for defining tactical guidelines related to the topic and analyzing risks and opportunities related to climate issues. In addition, the department establishes and monitors goals in all of the company's operating units, ensuring that actions related to climate transition are effectively implemented. The Sustainability Committee is extremely important in monitoring the establishment of the organization's performance objectives, as well as monitoring the implementation and progress of climate-related actions. This includes overseeing major investments and capital expenditures aimed at responding to climate risks and opportunities. The Sustainability Department has its own goals and objectives related to climate issues, which include an in-depth analysis of the risks and opportunities arising from climate change in the company's operations. Through a risk matrix, reviewed annually, the company identifies and mitigates these risks, adjusting its policies and processes to ensure sustainable development. This involves a careful assessment of environmental, social and economic aspects to ensure long-term viability. The Sustainability Department is also responsible for evaluating information from operating units regarding their environmental performance. Dedicated Environment and Sustainability employees are assigned to these units to monitor key performance indicators, such as water and energy consumption, waste generated and greenhouse gas emissions. They also ensure compliance with established targets, in accordance with Marfrig's Natural Resources Policy, aiming for a low-carbon economy and sustainable practices in all operations.

Florestas

(4.3.1.1) Cargo do indivíduo ou comitê com responsabilidade

Nível executivo

- Diretor de Sustentabilidade (CSO)

(4.3.1.2) Responsabilidades ambientais deste cargo

Dependências, impactos, riscos e oportunidades

- Avaliação de dependências, impactos, riscos e oportunidades ambientais
- Gestão de dependências, impactos, riscos e oportunidades ambientais

Engajamento

- Gestão da conformidade do fornecedor com os requisitos ambientais
- Gestão do engajamento da cadeia de valor relacionada a problemas ambientais

Políticas, compromissos e metas

- Monitoramento da conformidade com políticas e/ou compromissos ambientais corporativos

- Mensuração do progresso quanto a metas ambientais corporativas
- Mensuração do progresso quanto a metas ambientais de base científica
- Definição de políticas e/ou compromissos ambientais corporativos
- Definição de metas ambientais corporativas

Estratégia e planejamento financeiro

- Desenvolvimento de uma estratégia de negócios que leva em consideração problemas ambientais
- Implantação da estratégia de negócios relacionada a problemas ambientais
- Gestão de processos de reporte, auditoria e verificação ambiental
- Gestão de grandes despesas de capital e/ou despesas operacionais relacionadas a problemas ambientais
- Gestão das prioridades relacionadas a inovação/produtos ou serviços de baixo impacto ambiental (incluindo Pesquisa e Desenvolvimento)

(4.3.1.4) Linha de reporte

Selecione de:

- Responde diretamente ao conselho

(4.3.1.5) Frequência de reporte para o conselho dos problemas ambientais

Selecione de:

- Frequência maior que trimestral

(4.3.1.6) Explique

The Sustainability Department carries out strategic planning. Closely monitored by the CEO, he analyzes and manage the risks and opportunities related to forests, such as control of the origin and traceability of commodities acquired by Marfrig, determines performance targets, monitors results and integrates forest issues into the business strategy. The CSO is also responsible for managing the compliance and value chain engagement policies for Marfrig's commodity suppliers. Additionally, the CSO duties include managing any verification process of the origin of the commodities. Other responsibilities include the development and implementation of corporate environmental policies within the organization, managing capital and operational expenditures directed towards forest issues, and directing them towards low-environmental impact solutions when applicable. The director of sustainability is part of the Sustainability Committee, alongside two members of the Board Directors and a coordinator.

Água

(4.3.1.1) Cargo do indivíduo ou comitê com responsabilidade

Nível executivo

- Diretor de Sustentabilidade (CSO)

(4.3.1.2) Responsabilidades ambientais deste cargo

Dependências, impactos, riscos e oportunidades

- Avaliação de dependências, impactos, riscos e oportunidades ambientais
- Gestão de dependências, impactos, riscos e oportunidades ambientais

Políticas, compromissos e metas

- Mensuração do progresso quanto a metas ambientais corporativas

Estratégia e planejamento financeiro

- Desenvolvimento de uma estratégia de negócios que leva em consideração problemas ambientais
- Implantação da estratégia de negócios relacionada a problemas ambientais
- Gestão de orçamentos anuais relacionados a problemas ambientais
- Gestão de processos de reporte, auditoria e verificação ambiental
- Gestão de grandes despesas de capital e/ou despesas operacionais relacionadas a problemas ambientais

(4.3.1.4) Linha de reporte

Selecione de:

- Responde diretamente ao conselho

(4.3.1.5) Frequência de reporte para o conselho dos problemas ambientais

Selecione de:

- Frequência maior que trimestral

(4.3.1.6) Explique

The responsibility for water-related matters has been delegated to the CSO due to their senior position within the company hierarchy, directly reporting to the CEO. The CSO's duties include monitoring and evaluating the total volume of water abstracted, discharged, and reused by the organization on a quarterly basis, which is presented through internal KPI results. Additionally, the CSO oversees the progress towards the corporate water efficiency goal, aimed at reducing water abstraction per ton of production. This information enables effective management of water-related risks and opportunities. Based on assessments and information provided by the sustainability team, the CSO is tasked with imposing and ensuring the implementation of all necessary actions to achieve the overarching water objectives. All matters concerning water and effluents are regularly reported to the company's board during its monthly meetings.

Biodiversidade

(4.3.1.1) Cargo do indivíduo ou comitê com responsabilidade

Nível executivo

- Diretor de Sustentabilidade (CSO)

(4.3.1.2) Responsabilidades ambientais deste cargo

Dependências, impactos, riscos e oportunidades

- Avaliação de dependências, impactos, riscos e oportunidades ambientais
- Gestão de dependências, impactos, riscos e oportunidades ambientais

Políticas, compromissos e metas

- Mensuração do progresso quanto a metas ambientais corporativas
- Mensuração do progresso quanto a metas ambientais de base científica

Estratégia e planejamento financeiro

- Implementação de um plano de transição climática

(4.3.1.4) Linha de reporte

Selecione de:

- Responde diretamente ao conselho

(4.3.1.5) Frequência de reporte para o conselho dos problemas ambientais

Selecione de:

- Frequência maior que trimestral

(4.3.1.6) Explique

In line with efforts to constantly improve governance practices, Marfrig's Sustainability Committee was created in 2019. This committee plays a fundamental role in implementing the climate transition plan, assisting the Board of Directors in making decisions related to the environment, animal welfare, natural resources, forests, climate change, water security and biodiversity, strategic issues for Marfrig. The Sustainability Committee is responsible for implementing tactical guidelines on these issues and establishing best practices in all business units, regardless of the country in which they operate. In 2023, it was composed of six members: two board members – one of whom is independent and specialized in the topic that coordinates the Committee –, a representative of the controlling shareholders, two external members with a history of outstanding work on sustainability issues and the Sustainability Director. Of the six members, two are women. The Sustainability Committee and the Board of Directors meet monthly. One of the main responsibilities of the Sustainability Committee is to analyze the assessment and management processes for environmental dependencies, impacts, risks and opportunities. This analysis is extremely important because it allows the inclusion of dependencies, impacts, risks and opportunities related to environmental issues in the company's risk management, providing a comprehensive approach for better performance in responding to these factors. Marfrig's Sustainability Committee measures progress towards corporate environmental goals, monitoring results in forest preservation, climate change mitigation, water security and biodiversity conservation. It also evaluates environmental science goals, ensuring alignment with international standards, such as those of the Science Based Target Initiative (SBTi). In this way, the committee promotes sustainability and environmental responsibility in the company's operations and value chains.

Mudanças climáticas

(4.3.1.1) Cargo do indivíduo ou comitê com responsabilidade

Comitê

- Comitê de Sustentabilidade

(4.3.1.2) Responsabilidades ambientais deste cargo

Dependências, impactos, riscos e oportunidades

- Avaliação de dependências, impactos, riscos e oportunidades ambientais
- Gestão de dependências, impactos, riscos e oportunidades ambientais

Políticas, compromissos e metas

- Mensuração do progresso quanto a metas ambientais corporativas
- Mensuração do progresso quanto a metas ambientais de base científica

Estratégia e planejamento financeiro

- Desenvolvimento de um plano de transição climática

(4.3.1.4) Linha de reporte

Selecione de:

- Responde diretamente ao conselho

(4.3.1.5) Frequência de reporte para o conselho dos problemas ambientais

Selecione de:

- Frequência maior que trimestral

(4.3.1.6) Explique

In line with efforts to constantly improve governance practices, Marfrig's Sustainability Committee was created in 2019. This committee plays a fundamental role in implementing the climate transition plan, assisting the Board of Directors in making decisions related to the environment, animal welfare, natural resources, forests, climate change, water security and biodiversity, strategic issues for Marfrig. The Sustainability Committee is responsible for implementing tactical guidelines on these issues and establishing best practices in all business units, regardless of the country in which they operate. In 2023, it was composed of six members: two board members – one of whom is independent and specialized in the topic that coordinates the Committee –, a representative of the controlling shareholders, two external members with a history of outstanding work on sustainability issues and the Sustainability Director. Of the six members, two are women. The Sustainability Committee and the Board of Directors meet monthly. One of the main responsibilities of the Sustainability Committee is to analyze the assessment and management processes for environmental dependencies, impacts, risks and opportunities. This analysis is extremely important because it allows the inclusion of dependencies, impacts, risks and opportunities related to environmental issues in the company's risk management, providing a comprehensive approach for better performance in responding to these factors. Marfrig's Sustainability Committee measures progress towards corporate environmental goals, monitoring results in forest preservation, climate change mitigation, water security and biodiversity conservation. It also evaluates environmental science goals, ensuring alignment with international standards, such as those of the Science Based Target Initiative (SBTi). In this way, the committee promotes sustainability and environmental responsibility in the company's operations and value chains.

Florestas

(4.3.1.1) Cargo do indivíduo ou comitê com responsabilidade

Comitê

- Comitê de Sustentabilidade

(4.3.1.2) Responsabilidades ambientais deste cargo

Dependências, impactos, riscos e oportunidades

- Avaliação de dependências, impactos, riscos e oportunidades ambientais
- Gestão de dependências, impactos, riscos e oportunidades ambientais

Engajamento

- Gestão do engajamento de políticas públicas relacionadas a problemas ambientais
- Gestão da conformidade do fornecedor com os requisitos ambientais
- Gestão do engajamento da cadeia de valor relacionada a problemas ambientais

Políticas, compromissos e metas

- Monitoramento da conformidade com políticas e/ou compromissos ambientais corporativos
- Mensuração do progresso quanto a metas ambientais corporativas
- Mensuração do progresso quanto a metas ambientais de base científica
- Definição de políticas e/ou compromissos ambientais corporativos

Estratégia e planejamento financeiro

- Implementação de um plano de transição climática
- Desenvolvimento de um plano de transição climática
- Gestão de processos de reporte, auditoria e verificação ambiental
- Implantação da estratégia de negócios relacionada a problemas ambientais
- Desenvolvimento de uma estratégia de negócios que leva em consideração problemas ambientais
- Gestão das prioridades relacionadas a inovação/produtos ou serviços de baixo impacto ambiental (incluindo Pesquisa e Desenvolvimento)

(4.3.1.4) Linha de reporte

Selecione de:

- Responde diretamente ao conselho

(4.3.1.5) Frequência de reporte para o conselho dos problemas ambientais

Selecione de:

- Frequência maior que trimestral

(4.3.1.6) Explique

Marfrig's Sustainability Committee, created in 2019, is vital to integrating environmental practices throughout the company. Composed of six members, including board members, external experts and the Sustainability Director, the committee meets monthly with the Board of Directors. It is responsible for overseeing issues related to forests, climate change, water and biodiversity, ensuring that all operations are aligned with environmental objectives. The committee is regularly informed about environmental issues and evaluates these reports to make strategic decisions. Strict procedures are followed to ensure that sustainability practices are applied and that environmental controls are integrated into the company's internal functions. This includes risk management, monitoring targets and coordinating corrective actions. With an integrated approach, the committee ensures the adoption of best practices and the fulfillment of sustainability targets, promoting environmental responsibility in all areas of Marfrig.

Água

(4.3.1.1) Cargo do indivíduo ou comitê com responsabilidade

Comitê

- Comitê de Sustentabilidade

(4.3.1.2) Responsabilidades ambientais deste cargo

Dependências, impactos, riscos e oportunidades

- Avaliação de dependências, impactos, riscos e oportunidades ambientais
- Gestão de dependências, impactos, riscos e oportunidades ambientais

Políticas, compromissos e metas

- Mensuração do progresso quanto a metas ambientais corporativas

Estratégia e planejamento financeiro

- Desenvolvimento de uma estratégia de negócios que leva em consideração problemas ambientais
- Implantação da estratégia de negócios relacionada a problemas ambientais
- Gestão de orçamentos anuais relacionados a problemas ambientais
- Gestão de processos de reporte, auditoria e verificação ambiental
- Gestão de grandes despesas de capital e/ou despesas operacionais relacionadas a problemas ambientais

(4.3.1.4) Linha de reporte

Selecione de:

- Responde diretamente ao conselho

(4.3.1.5) Frequência de reporte para o conselho dos problemas ambientais

Selecione de:

- Frequência maior que trimestral

(4.3.1.6) Explique

Marfrig's Sustainability Committee, created in 2019, is vital to integrating environmental practices throughout the company. Composed of six members, including board members, external experts and the Sustainability Director, the committee meets monthly with the Board of Directors. It is responsible for overseeing issues related to forests, climate change, water and biodiversity, ensuring that all operations are aligned with environmental objectives. The committee is regularly informed about environmental issues and evaluates these reports to make strategic decisions. Strict procedures are followed to ensure that sustainability practices are applied and that environmental controls are integrated into the company's internal functions. This includes risk management, monitoring targets and coordinating corrective actions. With an integrated approach, the committee ensures the adoption of best practices and the fulfillment of sustainability targets, promoting environmental responsibility in all areas of Marfrig.

Biodiversidade

(4.3.1.1) Cargo do indivíduo ou comitê com responsabilidade

Comitê

- Comitê de Sustentabilidade

(4.3.1.2) Responsabilidades ambientais deste cargo

Dependências, impactos, riscos e oportunidades

- Avaliação de tendências futuras em dependências, impactos, riscos e oportunidades ambientais
- Gestão de dependências, impactos, riscos e oportunidades ambientais

Políticas, compromissos e metas

- Mensuração do progresso quanto a metas ambientais corporativas
- Mensuração do progresso quanto a metas ambientais de base científica

Estratégia e planejamento financeiro

- Desenvolvimento de um plano de transição climática

(4.3.1.4) Linha de reporte

Selecione de:

- Responde diretamente ao conselho

(4.3.1.5) Frequência de reporte para o conselho dos problemas ambientais

Selecione de:

- Frequência maior que trimestral

(4.3.1.6) Explique

Marfrig's Sustainability Committee, created in 2019, is vital to integrating environmental practices throughout the company. Composed of six members, including board members, external experts and the Sustainability Director, the committee meets monthly with the Board of Directors. It is responsible for overseeing issues related to forests, climate change, water and biodiversity, ensuring that all operations are aligned with environmental objectives. The committee is regularly informed about environmental issues and evaluates these reports to make strategic decisions. Strict procedures are followed to ensure that sustainability practices are applied and that environmental controls are integrated into the company's internal functions. This includes risk management, monitoring targets and coordinating corrective actions. With an integrated approach, the committee ensures the adoption of best practices and the fulfillment of sustainability targets, promoting environmental responsibility in all areas of Marfrig.

[Adicionar linha]

(4.5) Há incentivos monetários para a gestão de problemas ambientais, incluindo o cumprimento de metas?

Mudanças climáticas

(4.5.1) Provisão de incentivos monetários relacionados a este problema ambiental

Selecione de:

Sim

(4.5.2) Percentual dos incentivos monetários totais do C-suite e no nível do conselho vinculados à gestão desse problema ambiental

10

(4.5.3) Explique

In the short and long-term plans, the SBTi target serves as a key performance indicator for the Director of Sustainability. The fulfillment of the targets set by the SBTi initiative, which are aligned with the best scientific practices regarding climate change, is essential for evaluating and recognizing the CSO's performance. Additionally, we consider other criteria such as successful delivery of the company's GHG Emissions inventory for Marfrig's operations with third-party certification; as well as implementation of sustainability programs, leadership in prominent projects, and engagement with relevant stakeholders.

Florestas

(4.5.1) Provisão de incentivos monetários relacionados a este problema ambiental

Selecione de:

Sim

(4.5.2) Percentual dos incentivos monetários totais do C-suite e no nível do conselho vinculados à gestão desse problema ambiental

40

(4.5.3) Explique

Efforts towards a deforestation-free supply chain are one of Marfrig's main priorities and are consequently reflected in the CSO's variable remuneration. Through the Verde Program, which establishes an action plan aiming for 100% of its supply chain to be free of deforestation/conversion in all Brazilian biomes by 2025, Marfrig is leading a pioneering initiative in the livestock sector. This program aims to reconcile production with conservation under the premise of inclusion, forming the production/conservation/inclusion tripod. Currently, a significant challenge of Verde is identifying the company's indirect suppliers to achieve the goal of a deforestation-free supply chain by 2025. To this end, the CSO's variable remuneration includes the progress percentage in identifying direct supplying farms that share information about their suppliers (our indirect suppliers) in the Amazon and Cerrado biomes, considering areas of very high, high, medium, and low risk for deforestation.

Água

(4.5.1) Provisão de incentivos monetários relacionados a este problema ambiental

Selecione de:

Sim

(4.5.2) Percentual dos incentivos monetários totais do C-suite e no nível do conselho vinculados à gestão desse problema ambiental

10

(4.5.3) Explique

The conscious management of resources, such as water—an indispensable input for our operations—is also included in the CSO's variable remuneration. The company has set a global target to reduce water consumption per ton of product by 20% by the year 2035, using 2020 as the base year. This goal is directly tied to the variable remuneration of unit heads, managers, directors, and the Chief Sustainability Officer (CSO) himself. Variable remuneration linked to achieving water reduction targets can reach up to 10%, while remuneration related to improving the quality of treated effluent can reach up to 15% annually. Additionally, water performance indicators play a crucial role in evaluating and incentivizing employees, with differentiated compensation structures for senior positions (cash company shares) and others (cash only).

[Linha fixa]

(4.5.1) Informe mais detalhes sobre os incentivos monetários oferecidos pela gestão dos problemas ambientais (não inclua os nomes dos indivíduos).

Mudanças climáticas

(4.5.1.1) Cargo com direito a incentivo monetário

Gerente mid

- Gerente de Compras

(4.5.1.2) Incentivos

Selecione todos os aplicáveis

- Bônus – porcentagem do salário
- Participação nos lucros

(4.5.1.3) Métricas de desempenho

Metas

- Desempenho da organização em relação a um indicador de sustentabilidade ambiental

(4.5.1.4) Plano de incentivo ao qual os incentivos estão vinculados

Selecione de:

- Plano de incentivo tanto de curto quanto de longo prazo, ou equivalente

(4.5.1.5) Outros detalhes dos incentivos

At Marfrig, we recognize the importance of the Purchasing Manager's role in achieving sustainability goals and performance indicators related to supply chain engagement. Based on our commitment to valuing individual performance and promoting the adoption of sustainable practices, we have developed an incentive plan that covers both the short and long term for this strategic position. In the short term, the profit-sharing monetary incentive plays a key role in our plan. This incentive is based on a percentage of the Purchasing Manager's base salary and is directly linked to their individual performance and contribution to achieving sustainability goals and indicators, including behavioral change indicators and supply chain engagement. The percentage of the monetary incentive may vary depending on the manager's level of contribution in these strategic areas. In addition to the monetary incentive, we also offer short-term recognition and rewards for specific achievements related to the incentivized activities. This may include recognition for promoting behavioral change among suppliers, demonstrating active engagement with the supply chain, and implementing effective sustainable practices. These rewards can be financial and non-financial, such as bonuses and additional benefits, to encourage and reinforce the sustainable actions carried out by the Purchasing Manager. However, we recognize that sustainability is a long-term goal and the Purchasing Manager plays a crucial role in this regard. Therefore, we have established a long-term incentive plan with the aim of promoting the manager's continued engagement and commitment to the company's sustainability and supply chain objectives. In this long-term plan, compliance with climate commitments and the

climate transition plan at Marfrig is one of the key performance indicators for senior employees, including the Purchasing Manager. In addition, we consider other criteria, such as the successful implementation of the Marfrig Club Program, the development of sustainable practices on supplier properties and the establishment of strong and collaborative relationships with the supply chain. Based on these criteria, the percentage of the monetary incentive attributed to the Purchasing Manager will be determined. This specific percentage will be fair and transparent, taking into account the manager's direct impact on achieving long-term sustainability and supply chain engagement.

(4.5.1.6) Como os incentivos do cargo contribuem para o cumprimento dos seus compromissos ambientais e/ou plano de transição climática

Incentives play a crucial role in implementing the organization's climate commitments and climate transition plan, especially for the Sustainability Manager position. First, incentives help to strengthen the Sustainability Manager's commitment and motivation towards the organization's climate goals. By linking the monetary incentive to the manager's individual performance in achieving climate goals and performance indicators, the company demonstrates its recognition and appreciation for the manager's work in this area. This direct link between performance and reward creates a work environment that encourages manager engagement and ongoing commitment to the organization's climate agenda. In addition, incentives can encourage the Sustainability Manager to seek innovative and effective solutions to reduce emissions and promote the transition to a low-carbon economy. By offering additional rewards for specific achievements, such as leadership in sustainability projects or significant results in reducing emissions, the organization encourages the manager to pursue creative and ambitious approaches. This can include implementing sustainable practices, developing emissions reduction strategies and adopting clean technologies. Incentives reinforce the importance of these initiatives and encourage managers to dedicate their time and effort to achieving significant results in the fight against climate change. Additionally, incentives can also provide long-term professional development opportunities for the Sustainability Manager. This may include participation in specific training programs, access to relevant resources and networks, as well as the possibility of taking on larger-scale strategic projects that significantly contribute to the company's sustainability objectives. These professional growth opportunities demonstrate the organization's commitment to developing managers' skills and competencies, enabling them to successfully lead sustainability initiatives

Florestas

(4.5.1.1) Cargo com direito a incentivo monetário

Nível executivo ou nível de conselho

Diretor de Sustentabilidade (CSO)

(4.5.1.2) Incentivos

Selecione todos os aplicáveis

Bônus – porcentagem do salário

Ações

(4.5.1.3) Métricas de desempenho

Metas

- Cumprimento de metas ambientais
- Desempenho da organização em relação a um indicador de sustentabilidade ambiental

Estratégia e planejamento financeiro

- Cumprimento do plano de transição climática

Uso e eficiência dos recursos

- Eliminação do desmatamento e conversão de outros ecossistemas naturais em operações diretas e/ou outras partes da cadeia de valor

Políticas e compromissos

- Maior conformidade do fornecedor com os requisitos ambientais
- Maior conformidade verificada com políticas e/ou compromissos sem desmatamento e conversão (SDC)

Engajamento

- Maior engajamento com os pequenos produtores sobre questões ambientais

(4.5.1.4) Plano de incentivo ao qual os incentivos estão vinculados

Selecione de:

- Plano de incentivo tanto de curto quanto de longo prazo, ou equivalente

(4.5.1.5) Outros detalhes dos incentivos

At Marfrig, we recognize the critical role of the Director of Sustainability in achieving our environmental goals and performance indicators. To support this strategic position, we have developed a comprehensive incentive plan that encompasses both short-term and long-term objectives. In the short term, the Director of Sustainability is eligible for a monetary incentive based on individual performance and contributions to established goals. This incentive is directly linked to outcomes related to emission reduction, efficiency, and the company's performance against the sustainability climate index. The Director of Sustainability plays a pivotal role in leading these initiatives and setting guidelines for the company to achieve targets set by the Science Based Targets initiative (SBTi). Additionally, we offer recognition and rewards for specific achievements related to these incentivized goals. This includes acknowledging progress in reducing greenhouse gas emissions, improving water efficiency, and enhancing the quality of treated effluents. Rewards can be both financial and non-financial, such as prizes and additional benefits, to further incentivize and reinforce the sustainable actions taken by the Director of Sustainability. Understanding that sustainability is a long-term objective, we have also established a long-term incentive plan to promote continuous engagement and commitment to the company's sustainability and environmental objectives. In this plan,

the SBTi targets serve as key performance indicators for the Director of Sustainability. Achieving these targets, aligned with the best scientific practices on climate change, is essential for evaluating and recognizing the director's performance. Other criteria for long-term incentives include the successful implementation of sustainability programs, leadership in prominent projects, and engagement with relevant stakeholders. This comprehensive approach ensures that the Director of Sustainability remains committed to our environmental goals, both now and in the future.

(4.5.1.6) Como os incentivos do cargo contribuem para o cumprimento dos seus compromissos ambientais e/ou plano de transição climática

Incentives play a crucial role in implementing the organization's climate commitments and climate transition plan for the Chief Sustainability Officer position. These incentives provided and recognized for the Director of Sustainability to take the lead in promoting planned actions and strategies, as well as in achieving protected goals. Incentives provide a tangible form of recognition for the Chief Sustainability Officer's individual performance against the organization's planned objectives. This can include both financial and non-financial rewards such as bonuses, prizes and fringe benefits. These incentives serve as a powerful stimulus for the director to strive to exceed goals, implement innovative measures and adopt sustainable approaches. In addition, incentives also play an important role in promoting the Sustainability Director's ongoing engagement and commitment. By linking long-term rewards and incentives to meeting scheduled commitments and the climate transition plan, an organization demonstrates its commitment to sustainability and encourages the director to be involved in long-term initiatives. These incentives can include variable compensation, profit sharing or company stock programs, which are linked to sustainable performance and the achievement of climate goals. Incentives can be used to promote innovation and creativity in implementing climate commitments. By offering rewards for outstanding projects and innovative initiatives, the organization encourages the Director of Sustainability to seek creative and efficient solutions to reduce carbon emissions, improve energy efficiency and promote sustainability throughout the value chain

Água

(4.5.1.1) Cargo com direito a incentivo monetário

Nível executivo ou nível de conselho

Diretor de Sustentabilidade (CSO)

(4.5.1.2) Incentivos

Selecione todos os aplicáveis

Bônus – porcentagem do salário

Ações

(4.5.1.3) Métricas de desempenho

Metas

- Cumprimento de metas ambientais
- Desempenho da organização em relação a um indicador de sustentabilidade ambiental

Estratégia e planejamento financeiro

- Cumprimento do plano de transição climática

Uso e eficiência dos recursos

- Melhorias na eficiência hídrica – operações diretas

Poluição

- Melhorias na qualidade das águas residuais – operações diretas

Políticas e compromissos

- Maior conformidade do fornecedor com os requisitos ambientais

Engajamento

- Maior engajamento com os pequenos produtores sobre questões ambientais

(4.5.1.4) Plano de incentivo ao qual os incentivos estão vinculados

Selecione de:

- Plano de incentivo tanto de curto quanto de longo prazo, ou equivalente

(4.5.1.5) Outros detalhes dos incentivos

At Marfrig, we recognize the critical role of the Director of Sustainability in achieving our environmental goals and performance indicators. To support this strategic position, we have developed a comprehensive incentive plan that encompasses both short-term and long-term objectives. In the short term, the Director of Sustainability is eligible for a monetary incentive based on individual performance and contributions to established goals. This incentive is directly linked to outcomes related to emission reduction, efficiency, and the company's performance against the sustainability climate index. The Director of Sustainability plays a pivotal role in leading these initiatives and setting guidelines for the company to achieve targets set by the Science Based Targets initiative (SBTi). Additionally, we offer recognition and rewards for specific achievements related to these incentivized goals. This includes acknowledging progress in reducing greenhouse gas emissions, improving water efficiency, and enhancing the quality of treated effluents. Rewards can be both financial and non-financial, such as prizes and additional benefits, to further incentivize and reinforce the sustainable actions taken by the Director of Sustainability. Understanding that sustainability is a long-term objective, we have also established a long-term incentive plan to promote continuous engagement and commitment to the company's sustainability and environmental objectives. In this plan,

the SBTi targets serve as key performance indicators for the Director of Sustainability. Achieving these targets, aligned with the best scientific practices on climate change, is essential for evaluating and recognizing the director's performance. Other criteria for long-term incentives include the successful implementation of sustainability programs, leadership in prominent projects, and engagement with relevant stakeholders. This comprehensive approach ensures that the Director of Sustainability remains committed to our environmental goals, both now and in the future.

(4.5.1.6) Como os incentivos do cargo contribuem para o cumprimento dos seus compromissos ambientais e/ou plano de transição climática

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Mudanças climáticas

(4.5.1.2) Incentivos

Selecione todos os aplicáveis

- Bônus – porcentagem do salário
- Participação nos lucros

(4.5.1.4) Plano de incentivo ao qual os incentivos estão vinculados

Selecione de:

- Plano de incentivo tanto de curto quanto de longo prazo, ou equivalente

(4.5.1.5) Outros detalhes dos incentivos

Marfrig recognizes the importance of the role of the Environment and Sustainability Manager in achieving the SBTi goals and wishes to encourage and reward their performance and contribution accordingly. Based on the company's commitment to profit sharing and alignment with climate performance indicators, a long-term incentive plan will be established for the Environment and Sustainability Manager. The monetary incentive will be based on a percentage of the manager's base salary. This percentage will be determined based on your individual performance and your contribution to achieving climate targets and performance indicators, including meeting SBTi targets. Considering the relevance of the SBTi goals, meeting these goals will constitute one of the key performance indicators for the Environment and Sustainability Manager in the long term. In addition, other criteria, such as the development and implementation of emission reduction strategies, the adoption of sustainable practices and leadership in sustainability initiatives, will be considered in the performance evaluation. Based on these criteria, the percentage of the monetary incentive will be attributed according to the level of contribution of the Environment and Sustainability Manager to the achievement of climate targets and performance indicators. This specific percentage will be established fairly and transparently, taking into account the manager's direct impact on these areas. In addition to the monetary incentive, Marfrig may offer additional recognition to the Environment and Sustainability Manager who stands out in meeting the SBTi targets and in leadership in sustainable practices. This may include professional development opportunities, participation in relevant conferences or events, and the possibility of taking on strategic sustainability-related projects within the company. Through this incentive plan, Marfrig seeks to value and recognize the strategic role of the Environment and Sustainability Manager in the company's progress in relation to the SBTi targets. By rewarding its performance and contribution, the company aims to promote a culture of sustainability and strengthen its commitment to mitigating climate change and socio-environmental responsibility.

(4.5.1.6) Como os incentivos do cargo contribuem para o cumprimento dos seus compromissos ambientais e/ou plano de transição climática

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Mudanças climáticas

(4.5.1.2) Incentivos

Selecione todos os aplicáveis

Bônus – porcentagem do salário

- Participação nos lucros

(4.5.1.4) Plano de incentivo ao qual os incentivos estão vinculados

Selecione de:

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[Adicionar linha]

(4.6) A organização tem uma política ambiental que aborda problemas ambientais?

| | |
|--|--|
| | A organização tem alguma política ambiental? |
| | Selecione de: <input checked="" type="checkbox"/> Sim |

[Linha fixa]

(4.6.1) Dê detalhes sobre suas políticas ambientais.

Row 1

(4.6.1.1) Problemas ambientais abrangidos

Selecione todos os aplicáveis

- Mudanças climáticas
- Florestas
- Água
- Biodiversidade

(4.6.1.2) Nível de cobertura

Selecione de:

- Na organização como um todo

(4.6.1.3) Etapas da cadeia de valor abrangidas

Selecione todos os aplicáveis

- Operações diretas
- Cadeia de valor <i>upstream</i>
- Cadeia de valor <i>downstream</i>
- Portfólio

(4.6.1.4) Explique a cobertura

arfrig's Sustainability Policy is based on six strategic pillars that guide its actions and commitments regarding sustainability. These pillars include: Control of Origin, which ensures the traceability of raw materials; Animal Welfare, which prioritizes the ethical treatment of animals; Natural Resource Management, which seeks efficiency in the use of resources; Emissions Reduction, which aims to minimize the carbon footprint; Innovation and Technology, which promotes sustainable solutions; and Engagement with Stakeholders, which involves communication and dialogue with all stakeholders. This policy is global in nature, reflecting Marfrig's operations in different countries and cultures. The company is also investing in the diversification of its portfolio with the development of plant-based products, expanding its presence in the alternative protein segment, which is essential to meet consumer demands for more sustainable options. Furthermore, the Sustainability Policy guides good practices throughout the entire value chain, especially in relationships with suppliers, who are encouraged to adopt sustainable and responsible practices in their operations.

(4.6.1.5) Conteúdo da política ambiental

Compromissos ambientais

- Compromisso de evitar impactos negativos para espécies ameaçadas e protegidas
- Compromisso de manter a conformidade com regulamentações e normas obrigatórias
- Compromisso de adotar medidas ambientais além da conformidade regulatória
- Compromisso de respeitar áreas protegidas legalmente designadas
- Compromisso com o engajamento de partes interessadas e desenvolvimento de capacidades quanto a problemas ambientais

Compromissos climáticos específicos

- Compromisso de não financiar lobby negacionista climático contra regulamentações climáticas
- Outros compromissos climáticos, especifique :Management of GHG emissions from purchased energy; Management of GHG emissions produced throughout the production chain; Management aimed at achieving GHG emission reduction targets, based on Science Based Targets criteria;

Compromissos florestais específicos

- Compromisso com boas práticas de manejo para o solo e a turfa
- Compromisso de conduzir ou apoiar ações de restauração e/ou compensação para remediar desmatamentos ou conversões passados

- Compromisso de facilitar a inclusão de pequenos produtores na cadeia de valor
- Compromisso de não converter ecossistemas naturais até a data final, especifique :2025
- Compromisso com zero desmatamento até a data final, especifique :2025

Compromissos hídricos específicos

- Compromisso de reduzir/eliminar a poluição da água
- Compromisso de reduzir os volumes do consumo de água
- Compromisso de reduzir os volumes de captação de água
- Compromisso com a conservação dos ecossistemas de água doce
- Compromisso com a governança da água e/ou a ação coletiva

Compromissos sociais

- Adoção dos princípios da Organização Internacional do Trabalho das Nações Unidas
- Compromisso de respeitar e proteger os direitos tradicionais a terra, recursos e territórios dos povos indígenas e comunidades locais
- Compromisso de respeitar direitos humanos reconhecidos internacionalmente

Referências/descrições adicionais

- Descrição de normas de desempenho relacionadas à biodiversidade
- Descrição de <i>commodities </i>incluídas na política
- Descrição de práticas de aquisição de eletricidade renovável

(4.6.1.6) Indique se a sua política ambiental está alinhada aos tratados ambientais ou aos objetivos de políticas globais

Selecione todos os aplicáveis

- Sim, alinhada com o Acordo de Paris
- Sim, alinhada com o Quadro de Biodiversidade Global Kunming-Montreal
- Sim, alinhada com o Objetivo de Desenvolvimento Sustentável 6 sobre Água Potável e Saneamento

(4.6.1.7) Disponibilidade pública

Selecione de:

- Publicamente disponível

(4.6.1.8) Anexe a política

Política de Sustentabilidade.pdf
[Adicionar linha]

(4.10) A instituição é membro signatário de qualquer estrutura ou iniciativa colaborativa ambiental?

(4.10.1) A instituição é membro signatário de qualquer estrutura ou iniciativa colaborativa ambiental?

Selecione de:

Sim

(4.10.2) Estrutura ou iniciativa colaborativa

Selecione todos os aplicáveis

- | | |
|---|---|
| <input checked="" type="checkbox"/> Moratória da Soja | <input checked="" type="checkbox"/> Science-Based Targets Initiative (SBTi) |
| <input checked="" type="checkbox"/> Pacto Global da ONU | <input checked="" type="checkbox"/> Global Roundtable for Sustainable Beef (GRSB) |
| <input checked="" type="checkbox"/> Acordo sobre o gado (TAC) | <input checked="" type="checkbox"/> Grupo de Trabalho sobre Pecuária Sustentável (GTPS) do Brasil |
| <input checked="" type="checkbox"/> WBCSD Forests Solutions Group | <input checked="" type="checkbox"/> World Business Council for Sustainable Development (WBCSD) |
| <input checked="" type="checkbox"/> Tropical Forest Alliance 2020 (TFA) | |

(4.10.3) Descreva o papel da organização dentro de cada quadro, iniciativa e/ou compromisso

Marfrig is a member of the Global Roundtable for Sustainable Beef, an initiative dedicated to promoting the production of sustainable beef as a product that meets the criteria of social, environmental and economic responsibility. Through this partnership, we seek to prioritize the well-being of the planet, people, animals and progress in our activities related to beef production. Marfrig, as a member of the UN Global Compact, plays an active and committed role in promoting sustainable and responsible practices. The organization is committed to following and promoting the 10 principles of the Global Compact, which cover areas such as human rights, labor, environment and anti-corruption. Marfrig seeks to implement policies and practices in line with these principles, in addition to regularly reporting its activities and progress in these areas. Through its involvement in the Global Compact, Marfrig contributes to global efforts to build a more just, equitable and sustainable world. Working Group on Sustainable Livestock (GTPS), Marfrig plays an active role as an associate member. The company contributes to debates, formulation of principles and definition of common practices aimed at promoting sustainable, fair, environmentally correct and economically viable livestock farming. In addition, Marfrig participates in discussions on the Sustainable Livestock Indicators Guide (GIPS), working together with other producers, industries, research centers and universities to engage the entire production chain in adopting the best sustainability practices in livestock. Marfrig's participation in GTPS since 2009 demonstrates its commitment to contributing to the construction of more sustainable livestock. Within the CEBDS (Brazilian Business Council for Sustainable Development), Marfrig plays a role as a member and active participant in the entity. CEBDS is an organization that brings together companies committed to sustainable development and

acts as a representative of the WBCSD (World Business Council for Sustainable Development) in Brazil. As a member of CEBDS, Marfrig has the opportunity to collaborate and contribute to discussions and actions related to sustainable development in the Brazilian context. The company has the opportunity to participate in working groups, committees and events promoted by CEBDS, in which relevant topics for corporate sustainability are discussed and best practices are shared. Within CEBDS, Marfrig can influence the sustainability agenda in the country, share its expertise and experience, in addition to learning from other engaged companies. The company can contribute with insights, knowledge and solutions related to environmental, social and governance issues, aligned with the principles of sustainability. Furthermore, as the representative of the WBCSD in Brazil, CEBDS promotes articulation between associated companies and participation in global initiatives focused on sustainability. In this sense, Marfrig, as a member of CEBDS, has the opportunity to be connected with the global network of companies and to work together with other organizations in the development and implementation of sustainable solutions on a global scale. In this way, Marfrig plays an active and relevant role within CEBDS, contributing to the promotion of sustainable development in Brazil, sharing knowledge and practices and influencing actions and decisions related to corporate sustainability in the country.

[Linha fixa]

(4.11) No ano de reporte, a organização se envolveu com atividades que podem direta ou indiretamente influenciar uma política, uma lei ou uma regulamentação que possa (positiva ou negativamente) exercer impactos sobre o ambiente?

(4.11.1) Atividades de engajamento externas que possam direta ou indiretamente influenciar uma política, uma lei ou um regulamento que pode exercer impactos sobre o clima

Selecione todos os aplicáveis

Sim, nós nos engajamos indiretamente através e/ou apoiamos financeira ou materialmente uma associação comercial ou outra organização intermediária ou indivíduo cujas atividades poderiam influenciar, políticas, legislação ou regulamento

(4.11.2) Indique se a organização tem um compromisso público ou uma declaração de posicionamento que oriente suas atividades de engajamento de forma alinhadas com os tratados ou objetivos de políticas ambientais globais

Selecione de:

Sim, temos um compromisso público ou uma declaração de posição em alinhamento com os objetivos de tratados ou políticas ambientais globais

(4.11.3) Tratados ambientais globais ou objetivos de políticas em alinhamento com o compromisso público ou a declaração de posição

Selecione todos os aplicáveis

Acordo de Paris

Quadro da Biodiversidade Global Kunming-Montreal

Objetivo de Desenvolvimento Sustentável 6 sobre Água limpa e saneamento

(4.11.4) Anexe a(s) declaração(ões) de posição ou compromisso

Política de Sustentabilidade.pdf

(4.11.5) Indique se a organização está registrada num cadastro de transparência

Selecione de:

Sim

(4.11.6) Tipos de registros de transparência em que a organização está registrada

Selecione todos os aplicáveis

Um cadastro não-governamental

(4.11.7) Divulgue os cadastros de transparência nos quais a organização está inscrita e os respectivos números de identificação

There is no regulation in Brazil for transparency records, therefore, the organization voluntarily publicly discloses its support for associations whose activities could influence policies, legislation or regulations.

(4.11.8) Descreva o(s) processo(s) que a organização adota para assegurar que o engajamento em atividades externas seja consistente com seus compromissos ambientais e/ou com seu plano de transição

Marfrig's sustainability team is committed to improving environmental performance in direct operations and throughout the value chain, with responsible cattle procurement programs and a commitment to avoiding deforestation. In 2020, we established the Marfrig Verde Program, committing to having 100% of the chain deforestation-free in 10 years. We completed a risk mitigation map in the Amazon Biome for direct and indirect suppliers, identifying areas exposed to deforestation and social conflicts. This tool allows us to cross-reference maps of native vegetation with maps of livestock production, identifying areas with greater or lesser risk of biodiversity suppression. We expanded geomonitoring from the Amazon to the Cerrado. We allocated US\$30 million to managing the supply chain in the Amazon and Cerrado, with initiatives to engage them in forest conservation, intensifying the use of pastures, recovering degraded areas and restoring deforested areas. We have made commitments to advance these practices by 2030, accessing resources from the &Green Fund. We have joined the Sustainable Calf Production initiative, which addresses the issue of indirect cattle suppliers by supporting traceability. Its goal is to increase the income of small calf producers through training and technical assistance, environmental and land guidelines, helping to combat deforestation, and supporting access to credit. The program has 142 small producers from the Jurema Valley (MT). Our goal is to double the number of participants next year. To ensure production with reduced environmental impacts on our suppliers' rural properties, we created the Marfrig Club Program within the scope of the Verde Program. After three years of results from the Verde Program, Marfrig will invest R\$100

million to accelerate the program. We are committed to overseeing 100% of the cattle supply chain, directly and indirectly, by 2025 across all biomes, ahead of the initial 2030 target. Through Marfrig Club, suppliers are classified as beginner, bronze, silver or gold based on their adherence to the protocol's principles. Currently, all direct suppliers (approximately 9,000) participate in the program and fall into one of these categories. By 2023, 19% of producers have improved their practices, advancing to higher categories.

[Linha fixa]

(4.11.2) Dê detalhes do engajamento direto da organização em política, lei ou regulamentação que possa ter impactos positivos ou negativos, através de associações comerciais ou outras organizações ou intermediários no ano de reporte do relatório.

Row 1

(4.11.2.1) Tipo de engajamento indireto

Selecione de:

Engajamento direto através de uma associação comercial

(4.11.2.4) Associação comercial

América do Sul

Grupo de Trabalho sobre Pecuária Sustentável (GTPS) do Brasil

(4.11.2.5) Questões ambientais relevantes às políticas, leis, regulamentações sobre as quais a organização ou indivíduo se posicionou

Selecione todos os aplicáveis

Mudanças climáticas

Florestas

Água

(4.11.2.6) Indique caso a posição da organização é consistente com a organização ou indivíduo com quem se engaja

Selecione de:

Consistente

(4.11.2.7) Indique se a organização tentou influenciar a posição da organização ou indivíduo no ano de reporte

Selecione de:

Sim, promovemos publicamente a posição atual da associação

(4.11.2.8) Descreva como a posição da organização é consistente ou difere da posição da organização ou intermediários, e eventuais medidas tomadas para influenciar suas posições

The purpose is to promote discussion and evolve the common standard, principles and practices to be adopted by the sector in a transparent way, in order to contribute to the development of sustainable, socially fair, environmentally correct and economically feasible livestock farming. Among the work developed by the GTPS and its partners, the Guide to Sustainable Livestock Indicators (GIPS - Guia de Indicadores de Pecuária Sustentável) stands out, focused on engaging all links in the production chain in the best sustainability practices applied to livestock. Sustainable livestock farming with high economic, environmental and social performance in Brazil contributes to mitigating global challenges of social and economic development, food security, climate change and loss of biodiversity. GIPS includes indicators related to greenhouse gas emissions applicable to different links in the value chain. According to the company's guidelines based on its socio-environmental positioning, participation in the meetings ensures the follow-up and alignment with the Company's goals. The initiative is composed by producers, industries, research centers and universities

(4.11.2.9) Valor do financiamento que a organização forneceu a esta organização ou indivíduo no ano de reporte (moeda)

34929.74

(4.11.2.10) Descreva o objetivo deste financiamento e como ele pode influenciar uma política, uma lei ou uma regulamentação que possa exercer impacto sobre o ambiente

Marfrig, through the trade association GTPS (Sustainable Livestock Working Group), seeks to contribute and collaborate with the development and promotion of sustainable practices in the livestock production chain. Financing carried out by Marfrig in the association has the main objective of supporting initiatives and projects aimed at improving the environmental, social and economic sustainability of the livestock sector. By investing in the GTPS association, Marfrig demonstrates its commitment to the search for solutions and good practices that promote responsible production, the preservation of natural resources, the protection of human rights and sustainable development as a whole. Funding allows the development of joint actions, knowledge sharing, promotion of debates and implementation of measures to improve livestock in a sustainable way.

(4.11.2.11) Indique se a organização avaliou se seu engajamento está alinhada com tratados globais ou com os objetivos das políticas ambientais

Selecione de:

- Sim, avaliamos, e está em alinhamento

(4.11.2.12) Objetivos de tratados ou políticas ambientais globais alinhados com o engajamento da organização com uma política, lei ou regulamento

Selecione todos os aplicáveis

- Acordo de Paris
- Quadro da Biodiversidade Global Kunming-Montreal
- Objetivo de Desenvolvimento Sustentável 6 sobre Água limpa e saneamento

Row 2

(4.11.2.1) Tipo de engajamento indireto

Selecione de:

- Engajamento direto através de uma associação comercial

(4.11.2.4) Associação comercial

Global

- Outras associações comerciais globais, especifique :Global Roundtable for Sustainable Beef (GRSB)

(4.11.2.5) Questões ambientais relevantes às políticas, leis, regulamentações sobre as quais a organização ou indivíduo se posicionou

Selecione todos os aplicáveis

- Mudanças climáticas
- Florestas
- Água

(4.11.2.6) Indique caso a posição da organização é consistente com a organização ou indivíduo com quem se engaja

Selecione de:

Consistente

(4.11.2.7) Indique se a organização tentou influenciar a posição da organização ou indivíduo no ano de reporte

Selecione de:

Sim, promovemos publicamente a posição atual da associação

(4.11.2.8) Descreva como a posição da organização é consistente ou difere da posição da organização ou intermediários, e eventuais medidas tomadas para influenciar suas posições

GRSB focuses on several relevant environmental issues. First, it promotes the conscious use of natural resources in livestock farming, seeking policies that encourage sustainable agricultural practices and the responsible management of water and soil resources. Second, one of its priorities is to combat illegal deforestation, especially in the Amazon, through initiatives aimed at implementing traceability and monitoring policies to ensure that beef production does not contribute to deforestation. In addition, the organization is committed to developing regulations that reduce the environmental impact of waste and effluents from livestock production, promoting innovation in waste management. In 2023, GRSB carried out several activities to influence policies and regulations. Marfrig, as an active member of GRSB, participated in the discussion for the development of traceability policies in the beef supply chain, aiming to ensure compliance with environmental regulations and combat deforestation in the Amazon. GRSB also hosts roundtables in Canada, Colombia, the United States and Europe focused on sharing practices and influencing global policymaking for sustainable beef. In addition, GRSB has collaborated with governments and NGOs to develop guidelines that integrate resource efficiency, greenhouse gas emissions reduction and biodiversity conservation into public policy.

(4.11.2.9) Valor do financiamento que a organização forneceu a esta organização ou indivíduo no ano de reporte (moeda)

91404.38

(4.11.2.10) Descreva o objetivo deste financiamento e como ele pode influenciar uma política, uma lei ou uma regulamentação que possa exercer impacto sobre o ambiente

Marfrig, by financing the Global Roundtable for Sustainable Beef (GRSB) with R 91,404.38, seeks to promote initiatives focused on sustainability in beef production. This financing aims to support the development of responsible practices in the industry, promoting improvements in the environmental, social and economic aspects of beef production worldwide. Marfrig's support for GRSB is a reflection of its commitment to sustainability, encouraging the adoption of good practices and collaboration among various stakeholders in the production chain, such as producers, industries and NGOs. With the financing, Marfrig intends to achieve several objectives, including influencing relevant environmental policies, laws and regulations. One of the main focuses is to combat deforestation and promote forest conservation. GRSB, with Marfrig's support, is committed to influencing traceability and monitoring policies to ensure that beef production does not contribute to deforestation, especially in the Amazon. This is expected to result in the implementation of guidelines that improve the management of natural resources and preserve forests. Another objective is to promote the efficient use of natural resources, encouraging policies that encourage sustainable agricultural practices and the responsible management of water and soil resources. In addition to financial support, Marfrig also provides non-financial support, such as sponsorship and

collaboration in GRSB initiatives. The objectives of the support include the production of research documents and reports that can guide public policies and the formulation of best practices in the production chain. This support is expected to result in concrete results, such as the publication of sustainability reports and guidelines that guide the industry towards more responsible and sustainable practices. Thus, the financing seeks not only to foster dialogue between the different agents in the sector, but also to contribute to the creation of practical and innovative solutions that promote a more sustainable beef value chain aligned with the principles of sustainability.

(4.11.2.11) Indique se a organização avaliou se seu engajamento está alinhada com tratados globais ou com os objetivos das políticas ambientais

Selecione de:

Sim, avaliamos, e está em alinhamento

(4.11.2.12) Objetivos de tratados ou políticas ambientais globais alinhados com o engajamento da organização com uma política, lei ou regulamento

Selecione todos os aplicáveis

Acordo de Paris

Quadro da Biodiversidade Global Kunming-Montreal

Objetivo de Desenvolvimento Sustentável 6 sobre Água limpa e saneamento

[Adicionar linha]

(4.12) A organização publicou alguma informação sobre sua resposta a questões ambientais para este ano de reporte em outros lugares além das respostas à CDP?

Selecione de:

Sim

(4.12.1) Forneça detalhes das informações sobre a resposta da organização a questões ambientais para este ano de reporte em outros lugares além das respostas à CDP. Anexe a publicação.

Row 1

(4.12.1.1) Publicação

Selecione de:

- Nos relatórios tradicionais, alinhados com as normas ou quadros de divulgação ambiental

(4.12.1.2) Norma ou quadro com o qual o relatório se alinha

Selecione todos os aplicáveis

- Norma do GRI

(4.12.1.3) Questões ambientais abrangidas na publicação

Selecione todos os aplicáveis

- Mudanças climáticas
- Florestas
- Água
- Biodiversidade

(4.12.1.4) Status da publicação

Selecione de:

- Completo

(4.12.1.5) Elementos do conteúdo

Selecione todos os aplicáveis

- Governança
- Estratégia
- Metas de emissões
- Valores de emissões
- Riscos e oportunidades
- Engajamento da cadeia de valor
- Conteúdo de políticas ambientais
- Número da contabilidade hídrica
- Indicadores de poluição da água
- Métricas de status de desmatamento e conversão zero (SDC)

(4.12.1.6) Referência de página/seção

Chapter 2

(4.12.1.7) Anexe a publicação relevante

Política de Sustentabilidade.pdf

(4.12.1.8) Explique

*This section contains various data related to environmental problems (Climate Change, Forests, Water)
[Adicionar linha]*

C5. Estratégia de negócios

(5.1) A organização usa a análise de cenários para identificar resultados ambientais?

Mudanças climáticas

(5.1.1) Uso da análise de cenários

Selecione de:

Sim

(5.1.2) Frequência da análise

Selecione de:

A cada três anos ou menos

Florestas

(5.1.1) Uso da análise de cenários

Selecione de:

Sim

(5.1.2) Frequência da análise

Selecione de:

A cada três anos ou menos

Água

(5.1.1) Uso da análise de cenários

Selecione de:

Sim

(5.1.2) Frequência da análise

Selecione de:

A cada três anos ou menos

[Linha fixa]

(5.1.1) Dê detalhes dos cenários usados na análise de cenários da sua organização.

Mudanças climáticas

(5.1.1.1) Cenário usado

Cenários climáticos físicos

RCP 4.5

(5.1.1.2) Cenário usado SSPS usados em conjunção com o cenário

Selecione de:

SSP1

(5.1.1.3) Abordagem do cenário

Selecione de:

Qualitativa e quantitativa

(5.1.1.4) Abrangência do cenário

Selecione de:

Na organização como um todo

(5.1.1.5) Tipos de risco considerados no cenário

Selecione todos os aplicáveis

- Parâmetro físico agudo
- Físico crônico
- Mercado
- Tecnológico

(5.1.1.6) Alinhamento de temperatura do cenário

Selecione de:

- 1.5°C ou menos

(5.1.1.7) Ano de reporte

2006

(5.1.1.8) Quadros abrangidos

Selecione todos os aplicáveis

- 2040

(5.1.1.9) Forças operando no cenário

Interações de ativos do ecossistema local, dependências e impactos

- Velocidade da mudança (do estado da natureza e/ou serviços ecossistêmicos)
- Mudanças climáticas (um dos cinco impulsionadores de mudanças na natureza)

Finanças e seguros

- Custo de capital

Interação direta com o clima

- Sobre o valor dos ativos, sobre o corporativo

Macro e microeconomia

- Globalização dos mercados

(5.1.1.10) Presunções, incertezas e limitações no cenário

Marfrig has opted to work initially on climate projections with the time horizon up to 2040, considering that the mitigation and adaptation measures to be adopted should be in line with the company's strategic-financial planning, and with the IPCC climate scenarios RCP4.5 and RCP8.5. The analysis of scenarios was carried out for representative units of the company in terms of production and in different latitudes, to represent different areas of activity of the company. The operating units in Brazil considered in the study were the Tangará da Serra unit, in Mato Grosso, the Bataguassu unit, in Mato Grosso do Sul, the São Gabriel unit, in Rio Grando do Sul, the Promissão unit, in São Paulo, and the Uruguay, the Tacuarembó unit. The maximum heating levels will be located in the Midwest region of Brazil, where the company has 3 operational units, in all seasons of the year. With respect to precipitation, rainfall is projected to be reduced in the rainy season (summer) in most of Brazil, with maximum reduction in the Midwest and Southeast regions. Increased precipitation is estimated in the Southern region of Brazil in both scenarios. The results showed that, for the units located in the Midwest region of Brazil (Tangará e Bataguassu), the greatest risk is in severe droughts, represented by consecutive days without rain, and also in the highest temperature rises, around 1.5C to 2C. Recent studies suggest that one of the effects will be the reduction in pasture quality, which will have less protein and more fiber and, therefore, will require more time for digestion. Consequently, cattle will need to consume more food to reach slaughter weight and will produce more methane. In order to maintain the same level of production, ranchers will need to supplement livestock feed and irrigate pastures, with a significant impact on production costs. The results indicated a greater vulnerability in units located in the Midwest region (Tangará and Bataguassu) in Brazil. This information is being considered in the company's strategic planning, providing subsidies so that adaptation efforts are directed to this set of units. The company is also working on opportunities to expand pasture recovery programs with cattle suppliers in the regions surrounding these operating units, as part of a mitigation plan that is being developed.

(5.1.1.11) Lógica para a escolha do cenário

Marfrig highlights the importance of climate scenarios for the resilience of the organization's business strategy, aligning them with critical assumptions in strategic and financial planning. The company uses climate scenarios based on the IPCC's RCPs (Representative Concentration Pathways) 4.5 and 8.5, which are considered aligned with the international consensus on climate change. They are relevant for assessing Marfrig's resilience, progress and uncertainties in relation to climate change, especially because they project the impacts in different regions where the company operates. This scenario assumes that significant measures are adopted to reduce emissions, such as increasing energy efficiency, using renewable energy and other low-carbon technologies. RCP 4.5 is relevant for the resilience of Marfrig's business strategy because it provides a balanced view between economic growth and emissions reduction. In this way, it allows Marfrig to plan its actions considering a future in which mitigation measures are implemented. The choice of this scenario helps Marfrig prepare for future regulatory policies and the transition to a low-carbon economy, without ignoring persistent climate challenges. The scenario analysis was conducted for Marfrig's representative units in terms of production and at different latitudes, covering operational units in Brazil and Uruguay. Projections indicate that units in the Center-West of Brazil face significant risks due to severe droughts and rising temperatures. This affects the quality of pastures, increasing the need for supplemental feed for cattle and impacting production costs. Therefore, Marfrig is considering this information in its strategic planning, directing adaptation efforts to these more vulnerable units and expanding pasture recovery programs with cattle suppliers. In addition, Marfrig invests in sustainable innovation, such as natural gas-powered trucks, to reduce pollutant emissions, and seeks clean energy sources to reduce dependence on conventional energy. The company also recognizes the impact on consumer preferences, driving the growth of plant-based products through PlantPlus Foods, a foodtech created in partnership with Archer Daniels Midland Company (ADM). The climate scenarios used by Marfrig help to understand the impact of climate issues not only on operational activities, but also on financial and market aspects.

Florestas

(5.1.1.1) Cenário usado

Cenários climáticos físicos

- RCP 4.5

(5.1.1.2) Cenário usado SSPS usados em conjunção com o cenário

Selecione de:

- SSP1

(5.1.1.3) Abordagem do cenário

Selecione de:

- Qualitativa e quantitativa

(5.1.1.4) Abrangência do cenário

Selecione de:

- Na organização como um todo

(5.1.1.5) Tipos de risco considerados no cenário

Selecione todos os aplicáveis

- Parâmetro físico agudo
- Físico crônico
- Mercado
- Tecnológico

(5.1.1.6) Alinhamento de temperatura do cenário

Selecione de:

- 1.5°C ou menos

(5.1.1.7) Ano de reporte

2006

(5.1.1.8) Quadros abrangidos

Selecione todos os aplicáveis

2040

(5.1.1.9) Forças operando no cenário

Interações de ativos do ecossistema local, dependências e impactos

- Velocidade da mudança (do estado da natureza e/ou serviços ecossistêmicos)
- Mudanças climáticas (um dos cinco impulsionadores de mudanças na natureza)

Finanças e seguros

- Custo de capital

Interação direta com o clima

- Sobre o valor dos ativos, sobre o corporativo

Macro e microeconomia

- Globalização dos mercados

(5.1.1.10) Presunções, incertezas e limitações no cenário

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which will have less protein and more fiber and, therefore, will require more time for digestion. Consequently, cattle will need to consume more food to reach slaughter weight and will produce more methane. In order to maintain the same level of production, ranchers will need to supplement livestock feed and irrigate pastures, with a significant impact on production costs. The results indicated a greater vulnerability in units located in the Midwest region (Tangará and Bataguassu) in Brazil. This information is being considered in the company's strategic planning, providing subsidies so that adaptation efforts are directed to this set of units. The company is also working on opportunities to expand pasture recovery programs with cattle suppliers in the regions surrounding these operating units, as part of a mitigation plan that is being developed.

(5.1.1.11) Lógica para a escolha do cenário

Marfrig highlights the importance of climate scenarios for the resilience of the organization's business strategy, aligning them with critical assumptions in strategic and financial planning. The company uses climate scenarios based on the IPCC's RCPs (Representative Concentration Pathways) 4.5 and 8.5, which are considered aligned with the international consensus on climate change. They are relevant for assessing Marfrig's resilience, progress and uncertainties in relation to climate change, especially because they project the impacts in different regions where the company operates. This scenario assumes that significant measures are adopted to reduce emissions, such as increasing energy efficiency, using renewable energy and other low-carbon technologies. RCP 4.5 is relevant for the resilience of Marfrig's business strategy because it provides a balanced view between economic growth and emissions reduction. In this way, it allows Marfrig to plan its actions considering a future in which mitigation measures are implemented. The choice of this scenario helps Marfrig prepare for future regulatory policies and the transition to a low-carbon economy, without ignoring persistent climate challenges. The scenario analysis was conducted for Marfrig's representative units in terms of production and at different latitudes, covering operational units in Brazil and Uruguay. Projections indicate that units in the Center-West of Brazil face significant risks due to severe droughts and rising temperatures. This affects the quality of pastures, increasing the need for supplemental feed for cattle and impacting production costs. Therefore, Marfrig is considering this information in its strategic planning, directing adaptation efforts to these more vulnerable units and expanding pasture recovery programs with cattle suppliers. In addition, Marfrig invests in sustainable innovation, such as natural gas-powered trucks, to reduce pollutant emissions, and seeks clean energy sources to reduce dependence on conventional energy. The company also recognizes the impact on consumer preferences, driving the growth of plant-based products through PlantPlus Foods, a foodtech created in partnership with Archer Daniels Midland Company (ADM). The climate scenarios used by Marfrig help to understand the impact of climate issues not only on operational activities, but also on financial and market aspects.

Água

(5.1.1.1) Cenário usado

Cenários climáticos físicos

RCP 4.5

(5.1.1.2) Cenário usado SSPs usados em conjunção com o cenário

Selecione de:

SSP1

(5.1.1.3) Abordagem do cenário

Selecione de:

- Qualitativa e quantitativa

(5.1.1.4) Abrangência do cenário

Selecione de:

- Na organização como um todo

(5.1.1.5) Tipos de risco considerados no cenário

Selecione todos os aplicáveis

- Parâmetro físico agudo
- Físico crônico
- Mercado
- Tecnológico

(5.1.1.6) Alinhamento de temperatura do cenário

Selecione de:

- 1.5°C ou menos

(5.1.1.7) Ano de reporte

2006

(5.1.1.8) Quadros abrangidos

Selecione todos os aplicáveis

- 2040

(5.1.1.9) Forças operando no cenário

Interações de ativos do ecossistema local, dependências e impactos

- ☑ Velocidade da mudança (do estado da natureza e/ou serviços ecossistêmicos)
- ☑ Mudanças climáticas (um dos cinco impulsionadores de mudanças na natureza)

Finanças e seguros

- ☑ Custo de capital

Interação direta com o clima

- ☑ Sobre o valor dos ativos, sobre o corporativo

Macro e microeconomia

- ☑ Globalização dos mercados

(5.1.1.10) Presunções, incertezas e limitações no cenário

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(5.1.1.11) Lógica para a escolha do cenário

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Brazil considered in the study were the Tangará da Serra unit, in Mato Grosso, the Bataguassu unit, in Mato Grosso do Sul, the São Gabriel unit, in Rio Grando do Sul, the Promissão unit, in São Paulo, and the Uruguay, the Tacuarembó unit. The maximum heating levels will be located in the Midwest region of Brazil, where the comapny has 3 operational units, in all seasons of the year. With respect to precipitation, rainfall is projected to be reduced in the rainy season (summer) in most of Brazil, with maximum reduction in the Midwest and Southeast regions. Increased precipitation is estimated in the Southern region of Brazil in both scenarios. The results showed that, for the units located in the Midwest region of Brazil (Tangará e Bataguassu), the greatest risk is in severe droughts, represented by consecutive days without rain, and also in the highest temperature rises, around 1.5C to 2C. Recent studies suggest that one of the effects will be the reduction in pasture quality, which will have less protein and more fiber and, therefore, will require more time for digestion. Consequently, cattle will need to consume more food to reach slaughter weight and will produce more methane. In order to maintain the same level of production, ranchers will need to supplement livestock feed and irrigate pastures, with a significant impact on production costs. The results indicated a greater vulnerability in units located in the Midwest region (Tangará and Bataguassu) in Brazil. This information is being considered in the company's strategic planning, providing subsidies so that adaptation efforts are directed to this set of units. The company is also working on opportunities to expand pasture recovery programs with cattle suppliers in the regions surrounding these operating units, as part of a mitigation plan that is being developed.

Mudanças climáticas

(5.1.1.1) Cenário usado

Cenários de climas de transição

Quadro de cenários da NGFS, especifique :Nationally Determined Contributions (NDC) and Net Zero 2050

(5.1.1.3) Abordagem do cenário

Selecione de:

Qualitativa e quantitativa

(5.1.1.4) Abrangência do cenário

Selecione de:

Na organização como um todo

(5.1.1.5) Tipos de risco considerados no cenário

Selecione todos os aplicáveis

Mercado

Política

Parâmetro físico agudo

- Reputação
- Tecnológico
- Físico crônico

(5.1.1.6) Alinhamento de temperatura do cenário

Selecione de:

- 1.5°C ou menos

(5.1.1.7) Ano de reporte

2020

(5.1.1.8) Quadros abrangidos

Selecione todos os aplicáveis

- 2050

(5.1.1.9) Forças operando no cenário

Interações de ativos do ecossistema local, dependências e impactos

- Velocidade da mudança (do estado da natureza e/ou serviços ecossistêmicos)
- Mudanças climáticas (um dos cinco impulsionadores de mudanças na natureza)

Finanças e seguros

- Custo de capital

Interação direta com o clima

- Sobre o valor dos ativos, sobre o corporativo

Macro e microeconomia

- Globalização dos mercados

(5.1.1.10) Presunções, incertezas e limitações no cenário

Marfrig's transition climate risk analysis considers the NGFS Nationally Determined Contributions (NDC) and Net Zero 2050 (NZ2050) transition scenarios, and encompasses all countries of operation. The climate scenarios developed by the NGFS assume different levels of political ambition. In the NDC scenario, current climate policies will continue to lead to a temperature increase above 2°C. This scenario assumes that climate policies in the jurisdictions covered will be moderate, with a gradual implementation of nationally determined contributions. The Net Zero 2050 scenario assumes that ambitious climate policies will be implemented to achieve net zero emissions by 2050, which would imply rapid decarbonization. In this scenario, the policies would be strict and comprehensive, directly affecting the agricultural sector with rigorous requirements for monitoring and reducing greenhouse gas emissions in the company's countries of operation. In terms of technological advances, the NDC scenario assumes moderate progress in emission reduction and energy efficiency technologies. The Net Zero 2050 scenario assumes significant advances in carbon capture and storage technologies, reduction of emissions from enteric fermentation, as well as in renewable energy technologies applicable to the agricultural and meatpacking sectors. Regarding energy use data, in the NDC scenario, the transition to renewable energy sources will be gradual, while in the Net Zero 2050 scenario, there will be a significant acceleration in the adoption of these sources by 2050. In the NDC scenario, regional climate variability may impact agricultural production in a moderate way, with greater relevance of physical risks. In the Net Zero 2050 scenario, pressure on land use will be more intense, requiring a more rigorous balance between agricultural production and environmental conservation, with more relevance of transition risks. Uncertainties and limitations include the implementation of climate policies, which may vary significantly between regions and countries where Marfrig Global Foods operates, impacting the predictability of transition measures. The rate of development and adoption of new emission reduction and energy efficiency technologies is uncertain, which may affect the effectiveness of mitigation strategies. Market volatility and fluctuations in commodity prices and changes in demand may influence the financial viability of transition initiatives.

(5.1.1.11) Lógica para a escolha do cenário

The NDC and Net Zero 2050 (NZ2050) scenarios were chosen for Marfrig's climate risk analysis due to their relevance to the company's sector of activity and its countries of operation, with the aim of contributing to the resilience of the company's business strategy and financial planning. The NDC scenario was selected because it reflects the climate policies currently in force, which are based on each country's nationally determined contributions to limit global temperature rise. This scenario is relevant to the company's strategic resilience, as it allows us to assess the impacts of moderate climate policies that are more predictable in the short and medium term. The gradual implementation of the NDCs allows us to plan and adapt our operations and supply chains progressively, maintaining competitiveness and financial stability. In addition, this scenario is crucial to assess the company's resilience to the physical risks of climate change, since it is associated with greater global warming. On the other hand, the NZ2050 scenario was chosen due to its ambition to achieve net zero emissions by 2050, which is in line with the international consensus on the need to limit global warming to 1.5C. This scenario is essential to assess the long-term resilience of our business strategy, considering a future in which stringent climate policies and a rapid transition to a low-carbon economy are necessary. The relevance of this scenario for Marfrig is due to the need to understand the impacts of an accelerated transition, including significant investments in emissions reduction technologies and renewable energy. Aligning the company's financial planning with this scenario can help it anticipate and prepare for potential drastic regulatory changes and technological advances that may arise, ensuring a competitive and sustainable position in the market. The NGFS provides a detailed and robust framework for modeling climate scenarios, which includes variables such as climate policies, technological advances, energy use data, macroeconomic trends and regional variables. By assessing the behavior of variables available in NGFS transition scenarios (electricity price, carbon price, etc.), in combination with data on the company's energy consumption and GHG emissions, estimates of the financial impact of transition risks can be projected.

Florestas

(5.1.1.1) Cenário usado

Cenários de climas de transição

- Quadro de cenários da NGFS, especifique :Nationally Determined Contributions (NDC) and Net Zero 2050

(5.1.1.3) Abordagem do cenário

Selecione de:

- Qualitativa e quantitativa

(5.1.1.4) Abrangência do cenário

Selecione de:

- Na organização como um todo

(5.1.1.5) Tipos de risco considerados no cenário

Selecione todos os aplicáveis

- Mercado
- Política
- Reputação
- Tecnológico
- Físico crônico
- Parâmetro físico agudo

(5.1.1.6) Alinhamento de temperatura do cenário

Selecione de:

- 1.5°C ou menos

(5.1.1.7) Ano de reporte

2020

(5.1.1.8) Quadros abrangidos

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2050

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[Adicionar linha]

(5.1.2) Dê detalhes dos resultados usados na análise de cenários da sua organização.

Mudanças climáticas

(5.1.2.1) Processos de negócios influenciados pela sua análise dos cenários relatados

Selecione todos os aplicáveis

- Identificação, avaliação e gestão de riscos e oportunidades
- Estratégia e planejamento financeiro
- Resiliência do modelo de negócios e estratégia
- Qualificação
- Definição de metas e planejamento de transição

(5.1.2.2) Abrangência da análise

Selecione de:

- Divisão de negócios

(5.1.2.3) Resuma os resultados da análise de cenários e quaisquer implicações para outras questões ambientais

The priority issues evaluated through the use of climate scenarios were the most vulnerable regions (hotspot), according to the rise in temperatures, which has an impact on animal welfare and consequently on their productivity, and precipitation variations, as they can affect the availability and quality of pasture and also the demand for water in our production process. The operating units in Brazil considered in the study were the Tangará da Serra unit, in Mato Grosso, the Bataguassu unit, in Mato Grosso do Sul, the São Gabriel unit, in Rio Grando do Sul, the Promissão unit, in São Paulo, and the Uruguay, the Tacuarembó unit. In general, with respect to temperature, heating is projected for all of South America in all emission scenarios. The maximum heating levels will be located in the Midwest region of Brazil, where the company has 3 operational units, in all seasons of the year. With respect to precipitation, rainfall is projected to be reduced in the rainy season (summer) in most of Brazil, with maximum reduction in the Midwest and Southeast regions. Increased precipitation is estimated in the Southern region of Brazil in both scenarios. The results showed that, for the units located in the Midwest region of Brazil (Tangará e Bataguassu), the greatest risk is in severe droughts, represented by consecutive days without rain, and also in the highest temperature rises, around 1.5C to 2C. Recent studies suggest that one of the effects will be the reduction in pasture quality, which will have less protein and more fiber and, therefore, will require more time for digestion. The conclusions are based on experiments conducted by the team of Carlos Alberto Martinez y Huaman, professor of the Biology Department of USP – Ribeirão Preto Campus. Consequently, cattle will need to consume more food to reach slaughter weight and will produce more methane. In order to maintain the same level of production, ranchers will need to supplement livestock feed and irrigate pastures, with a significant impact on production costs. For the units located in the Southern region of Brazil (Promissão) and Uruguay (Tacuarembó), the climate changes will cause milder temperature rises, of up to 0.5C, which should not cause many impacts, since it is already a colder region and the temperature increase will be lower than in the Midwest region. With respect to precipitation patterns, increased rainfall is expected for Southern region of Brazil, Argentina and Uruguay. The company must be prepared for flood events in these plants and encourage the sustainable management of pasture for the suppliers, with techniques of soil drainage that allow the infiltration, avoiding erosion and losses due to floods. The results indicated a greater vulnerability in units located in the Midwest region (Tangará and Bataguassu) in Brazil. This information is being considered in the company's strategic planning, providing subsidies so that adaptation efforts are directed to this set of units. The company identifies and manages risks through satellite monitoring technology, ensuring that direct and indirect suppliers adhere to strict environmental standards. In financial planning, R 100 million was allocated to initiatives such as pasture recovery and regenerative agriculture. Business resilience is strengthened through low-carbon practices and sustainable integration (ILPF). Supplier qualification is reinforced with the goal of tracking 100% of the supply chain by 2025. Additionally, Marfrig adopted SBTi targets in 2022, solidifying its commitment to reducing greenhouse gas emissions.

Florestas

(5.1.2.1) Processos de negócios influenciados pela sua análise dos cenários relatados

Selecione todos os aplicáveis

- Identificação, avaliação e gestão de riscos e oportunidades
- Estratégia e planejamento financeiro

(5.1.2.2) Abrangência da análise

Selecione de:

- Divisão de negócios

(5.1.2.3) Resuma os resultados da análise de cenários e quaisquer implicações para outras questões ambientais

The priority issues evaluated through the use of climate scenarios were the most vulnerable regions (hotspot), according to the rise in temperatures, which has an impact on animal welfare and consequently on their productivity, and precipitation variations, as they can affect the availability and quality of pasture and also the demand for water in our production process. The operating units in Brazil considered in the study were the Tangará da Serra unit, in Mato Grosso, the Bataguassu unit, in Mato Grosso do Sul, the São Gabriel unit, in Rio Grando do Sul, the Promissão unit, in São Paulo, and the Uruguay, the Tacuarembó unit. In general, with respect to temperature, heating is projected for all of South America in all emission scenarios. The maximum heating levels will be located in the Midwest region of Brazil, where the company has 3 operational units, in all seasons of the year. With respect to precipitation, rainfall is projected to be reduced in the rainy season (summer) in most of Brazil, with maximum reduction in the Midwest and Southeast regions. Increased precipitation is estimated in the Southern region of Brazil in both scenarios. The results showed that, for the units located in the Midwest region of Brazil (Tangará e Bataguassu), the greatest risk is in severe droughts, represented by consecutive days without rain, and also in the highest temperature rises, around 1.5C to 2C. Recent studies suggest that one of the effects will be the reduction in pasture quality, which will have less protein and more fiber and, therefore, will require more time for digestion. The conclusions are based on experiments conducted by the team of Carlos Alberto Martinez y Huaman, professor of the Biology Department of USP – Ribeirão Preto Campus. Consequently, cattle will need to consume more food to reach slaughter weight and will produce more methane. In order to maintain the same level of production, ranchers will need to supplement livestock feed and irrigate pastures, with a significant impact on production costs. For the units located in the Southern region of Brazil (Promissão) and Uruguay (Tacuarembó), the climate changes will cause milder temperatures rises, of up to 0.5C, which should not cause many impacts, since it is already a colder region and the temperature increase will be lower than in the Midwest region. With respect to precipitation patterns, increased rainfall is expected for Southern region of Brazil, Argentina and Uruguay. The company must be prepared for flood events in these plants and encourage the sustainable management of pasture for the suppliers, with techniques of soil drainage that allow the infiltration, avoiding erosion and losses due to floods. The results indicated a greater vulnerability in units located in the Midwest region (Tangará and Bataguassu) in Brazil. This information is being considered in the company's strategic planning, providing subsidies so that adaptation efforts are directed to this set of units.

Água

(5.1.2.1) Processos de negócios influenciados pela sua análise dos cenários relatados

Selecione todos os aplicáveis

- Identificação, avaliação e gestão de riscos e oportunidades
- Estratégia e planejamento financeiro
- Resiliência do modelo de negócios e estratégia
- Definição de metas e planejamento de transição

(5.1.2.2) Abrangência da análise

Selecione de:

- Na organização como um todo

(5.1.2.3) Resuma os resultados da análise de cenários e quaisquer implicações para outras questões ambientais

In the water security study, climate scenarios were used to identify the most vulnerable regions (hotspots) based on rising temperatures and variations in precipitation. The operational units in Brazil included in the study were Tangará da Serra (MT), Bataguassu (MS), São Gabriel (RS), and Promissão (SP), in addition to the unit in Tacuarembó, Uruguay. The time horizon considered extends until 2040. Key insights obtained include a reduction in summer rainfall across most of Brazil, especially in the Midwest and Southeast regions, and an increase in rainfall in southern Brazil. Risks identified for the units in the Midwest (Tangará da Serra and Bataguassu) include severe droughts, reduced pasture quality, and increased time for cattle to reach slaughter weight, impacting production costs. The units in southern Brazil (Promissão) and Uruguay (Tacuarembó) face increased rainfall, requiring preparation for flood events. Quantitative results include a temperature increase of 1.5C to 2C in the Midwest, a summer precipitation reduction of up to 20% in some regions, and increased operational costs due to the need for supplemental feed for cattle and pasture irrigation. The scenario analysis influenced the company's strategy, highlighting the need for specific adaptations in each region. In Brazil's Midwest region, the company must invest in adaptation technologies, such as supplemental feed and irrigation, to mitigate the effects of droughts and rising temperatures. In southern Brazil and Uruguay, preparation for floods is necessary, along with the implementation of sustainable pasture management techniques and soil drainage. In response to the scenario analysis results, Marfrig adopted water management targets as a strategy to mitigate these risks, establishing a goal to reduce water withdrawal per production unit by 2035, as well as a target to increase the use of recycled water in its operations over the coming years. These targets are part of Marfrig's Sustainability KPIs program and align with the company's efforts to enhance business resilience and adapt to climate change.

[Linha fixa]

(5.2) A estratégia da organização inclui um plano de transição climática?

(5.2.1) Plano de transição

Selecione de:

- Sim, temos um plano de transição climática que se alinha com um mundo de 1,5 °C

(5.2.3) Plano de transição climática publicamente disponível

Selecione de:

- Sim

(5.2.4) O plano se compromete explicitamente a cessar todos os gastos e a geração de receitas provenientes de atividades que contribuem para a expansão dos combustíveis fósseis

Selecione de:

- Não, mas planejamos acrescentar um compromisso explícito nos próximos dois anos

(5.2.6) Explique por que sua organização não se compromete explicitamente a cessar todos os gastos e a geração de receitas provenientes de atividades que contribuam para a expansão dos combustíveis fósseis

Marfrig is a company committed to sustainability and has a public commitment to reducing greenhouse gas emissions in its operations and value chain (approved Science Based Target). Marfrig's actions and objectives include adopting more efficient production practices and investing in clean technologies - i.e. sustainable energy matrix. Marfrig has not explicitly committed to ceasing all expenditures and generating revenues from activities that contribute to the expansion of fossil fuels because it does not consider this activity to be a relevant niche for its operations. The company does not invest in the expansion of the use of fossil fuels and is committed to accessing renewable and sustainable energy sources, in accordance with its goals approved by the Science Based Target Initiative (SBTi). Marfrig's focus is on productive efficiency and the adoption of clean technologies that promote a more sustainable energy matrix. Although Marfrig has not yet made an explicit commitment to completely cease all activities related to fossil fuels, its commitment to sustainability and the reduction of greenhouse gas emissions is clear. The company has adopted more efficient production practices and invested in clean technologies, which are aligned with its emissions reduction goals.

(5.2.7) Mecanismo pelo qual o <i>feedback </i>dos acionistas sobre o plano de transição climática é coletado

Selecione de:

- Temos um mecanismo de <i>feedback </i>diferente implantado

(5.2.8) Descrição do mecanismo de <i>feedback</i>

The process by which Marfrig's shareholders provided feedback on the contents and progress of the organization's environmental transition plan is open and inclusive. Shareholders can use the communication channels made available by the company, such as sending letters or e-mails through the Investor Relations (IR) form on the company's website. In addition, shareholders have the right to participate in board meetings, where they have the opportunity to express their opinions and contribute to any matter related to the climate transition plan. The company values the participation and voice of each shareholder, regardless of the number of shares they owned. This feedback process ensures that shareholders can be actively involved in decisions and strategies related to Marfrig's climate transition. Through this constant dialogue between management and investors, the company promotes a relationship of transparency and seeks to align its climate goals and actions with the interests and concerns of shareholders.

(5.2.9) Frequência de coleta do <i>feedback</i>

Selecione de:

Frequência maior que anual

(5.2.10) Descrição das principais suposições e dependências nas quais o plano de transição se baseia

Marfrig has robust and integrated corporate governance practices, particularly with regard to the oversight of issues related to climate transition. The company ensures that all strategic decisions on climate change and sustainability are monitored and approved by the highest hierarchical level of the organization. This level of oversight includes continuous monitoring of emissions reduction targets, proactive engagement with suppliers to ensure practices aligned with climate objectives, and rigorous monitoring of actions that guide the company's climate strategy. In its financial planning, Marfrig has allocated significant resources to achieve its emissions reduction and zero deforestation targets. The company recognizes that, in order to achieve these ambitious goals, it is crucial to establish a sustainable financial fund that ensures the continuity and effectiveness of environmental actions. The assessment of climate risks and opportunities is another essential pillar of Marfrig's strategy. The company conducts a detailed analysis of the potential impacts of climate change on its operations, including physical risks and transition risks. On the other hand, the company also identifies opportunities to innovate and lead in the development of sustainable products and services, expanding its competitive value in the market. Marfrig has already defined emission reduction targets approved by the SBTi. In addition, the company has a GHG inventory audited by a third party that allows for transparent and accurate monitoring of the company's emissions. The company launched the Green Plan, which aims to achieve a deforestation-free supply chain in the biomes where Marfrig sources its products, committing to engaging direct and indirect suppliers. The main assumptions and dependencies of Marfrig's transition plan are, therefore, the end of deforestation, more efficient livestock farming, and the energy transition with the reduction of the use of fossil fuels.

(5.2.11) Descrição do progresso em relação ao plano de transição divulgado no período de reporte atual ou anterior

One of the main advances was the strengthening of engagement with suppliers through the Verde initiative. This program aims to ensure that the organization's business partners are aligned with environmental goals, especially in relation to reducing emissions and zero deforestation practices. We obtained notable results in relation to supply chain traceability, especially with regard to suppliers in biomes such as the Cerrado and the Amazon. Since 2021, 3561 farms have been reinstated. We announced the anticipation of the goal of ensuring that 100% of our company's animal supply chain is sustainable, tracked and free of deforestation by 2025 for all biomes considering the purchase of animals for slaughter in our units. We also reinforce that our commitment is to a chain free of deforestation and conversion. Frequent and in-depth discussions about climate-related challenges and opportunities were the agenda of several meetings at the highest hierarchical level of the organization. These discussions resulted in the approval of strategic measures. Including climate issues on the board's regular agenda ensures that the transition strategy is treated as a top priority across the organization. The company also noted progress in achieving the SBTi goal. These advances demonstrate Marfrig's continued commitment to the climate transition, integrating its environmental goals at all levels of operation and governance.

(5.2.12) Anexe eventuais documentos relevantes que deem detalhes sobre o plano de transição climática da organização (opcional)

Sustainability Report 2023.pdf

(5.2.13) Outras questões ambientais consideradas no seu plano de transição climática

Selecione todos os aplicáveis

- Florestas
- Água
- Biodiversidade

(5.2.14) Explique como as questões ambientais são consideradas no seu plano de transição climática

The main objective of Marfrig's climate transition plan is to reduce methane emissions and deforestation caused by livestock farming. Marfrig ensures that the animals come from places where native forests are preserved, thus protecting local biodiversity, by committing to a deforestation-free supply chain. We also have actions to intensify livestock farming, thus reducing the volume of emissions from livestock production. Another point that takes the pressure off the need to open new areas for livestock farming is integrated management, whether in the Crop-Livestock-Forest (ILPF) or Crop-Livestock (ILP) consortium, techniques that allow a negative balance between emissions from animals and the removal of pastures and other consortium items. Recovery, restoration and ecological transformation are themes present in our transition plan. Marfrig is restoring 100,000 hectares of degraded pastureland, which has been transformed into productive areas through public-private partnerships, and around 6,000 hectares of native forests will be restored. With these actions, Marfrig is demonstrating the viability of producing meat in a sustainable and financially profitable manner, while also contributing positively to the protection of native forests and the recovery of areas with reforestation of native species to increase biodiversity in the places where it originates.

[Linha fixa]

(5.3) Os riscos e oportunidades ambientais afetaram a estratégia e/ou planejamento financeiro da organização?

(5.3.1) Os riscos e/ou oportunidades ambientais influenciaram a sua estratégia e/ou planejamento financeiro

Selecione de:

- Sim, estratégia e planejamento financeiro

(5.3.2) Áreas de negócios onde riscos e/ou oportunidades ambientais afetaram sua estratégia

Selecione todos os aplicáveis

- Produtos e serviços
- <i>Upstream/downstream</i> da cadeia de valor
- Investimento em P&D
- Operações

[Linha fixa]

(5.3.1) Descreva onde e como os riscos e as oportunidades ambientais influenciaram a estratégia da organização.

Produtos e serviços

(5.3.1.1) Tipo de efeito

Selecione todos os aplicáveis

- Riscos
- Oportunidades

(5.3.1.2) Problemas ambientais relevantes para os riscos e/ou oportunidades ambientais que afetaram sua estratégia nesta área

Selecione todos os aplicáveis

- Mudanças climáticas
- Florestas
- Água

(5.3.1.3) Descreva como riscos e/ou oportunidades ambientais afetaram sua estratégia nesta área

Climate Change: The risks related to climate change have led to a series of initiatives associated with mitigating emissions and adapting the company to this new reality. In this sense, the company's strategy has been to direct efforts towards improving and innovating its products, aiming at a lower environmental impact. The Low Carbon Production model stands out, such as CNM (Carbon Neutral Meat), a production model where animals are raised in systems that integrate livestock and forestry and allow the neutralization of methane emissions by the animals; and LCM (Low Carbon Meat), which will be launched in 2024 and is based on a protocol that aggregates a large volume of animals and properties due to the characteristic of measuring carbon stocks resulting from adequate management from pasture to preservation of soil quality. We are actively committed to implementing low-emission production systems throughout our supply chain, such as Crop-Livestock-Forest Integration (ILPF), appropriate pasture management, genetic improvement and feed supplementation with products that have proven to act on the enteric fermentation of animals, reducing methane emissions. Forests: The risks related to forests are associated with deforestation. In this sense, Marfrig has directed its strategy to strengthen its capacity to monitor suppliers, investing increasingly in traceability, through the Verde Program (which consists of robust control and monitoring of the production chain, aiming to negotiate with suppliers whose production is not associated with areas that carry out deforestation or associated with any other type of irregularity). Investments of around 100 million reais in the Verde Program allowed us to bring forward the goal of achieving full traceability of direct and indirect suppliers in all biomes to 2025, an advance of 5 years. Such advances in traceability, combined with the use of techniques such as ILP (Crop-Livestock Integration) and ILPF (Crop-Livestock-Forest Integration) for LCM and CNM products, result in a lower environmental impact of our products on deforestation in sensitive biomes such as the Amazon and Cerrado. Water: The recognition of the risks and importance of water for the production process and for the Planet has

made the efficient use of Natural Resources one of our strategic pillars of ESG action. In this sense, an investment of approximately R78 million stands out as an example, which culminated in an increase in water efficiency of 10.8% from 2022 to 2023, resulting in more eco-efficient products.

<i>Upstream/downstream</i> da cadeia de valor

(5.3.1.1) Tipo de efeito

Selecione todos os aplicáveis

- Riscos
- Oportunidades

(5.3.1.2) Problemas ambientais relevantes para os riscos e/ou oportunidades ambientais que afetaram sua estratégia nesta área

Selecione todos os aplicáveis

- Mudanças climáticas
- Florestas
- Água

(5.3.1.3) Descreva como riscos e/ou oportunidades ambientais afetaram sua estratégia nesta área

Climate: The significant importance of suppliers in our production chain requires that our initiatives involve them directly, directing the strategy towards efforts, programs and initiatives focused on the supply chain. For example, the implementation of low-emission production systems, as well as the Crop-Livestock-Forest Integration (ILPF), are initiatives applied throughout our supply chain, aiming, among other benefits, at reducing methane emissions. The Verde Program is also an example of an initiative applied in the supply chain, aiming to reduce deforestation and, consequently, GHG emissions. The focus and involvement of suppliers is a strategic and essential issue to achieve the established objectives of mitigating impacts on the climate. Forests: The strategy adopted to address the impacts and risks related to the Forests theme reflects the recognition of the impact of the supply chain, especially deforestation. As a result, the strategy adopted focuses on combating deforestation, with the Green Program as its main axis (which consists of robust control and monitoring of the production chain, aiming to negotiate with suppliers whose production is not associated with areas that carry out deforestation or are associated with any other type of irregularity). Complementing this axis, the company has adopted a strategy of investing in restoration initiatives, such as re.green (which consists of recovering degraded pastures, making them productive) and Biomas (an initiative with a group of companies that aims to restore and protect 4 million hectares of native forests in Brazil). Water: Based on the premise of the importance of water for the production process, the company has worked hard to engage rural producers (supply chain) with the aim of protecting water sources (such as rivers, springs, wells and dams, among others). The strategy for optimizing water use in the supplier chain is based especially on their engagement, which in turn is structured through the dissemination and application of the Marfrig Club Sustainable Practices Guide, which, among other topics, explores: Reduction of water consumption in animal husbandry; Use of water in animal feed; Rational use of water; Containment of rainwater. As a reflection of this concern, the strategy also began to consider water risk scenarios for suppliers. Aware of the water risk to which producers are exposed, we began mapping water availability in our value chain,

assessing water risk and directing actions, both guidance and preventive, to improve water management in our supply chain, including targets, control and rational use. This water mapping also extends to the supply of products for animal feed.

Investimento em P&D

(5.3.1.1) Tipo de efeito

Selecione todos os aplicáveis

- Riscos
- Oportunidades

(5.3.1.2) Problemas ambientais relevantes para os riscos e/ou oportunidades ambientais que afetaram sua estratégia nesta área

Selecione todos os aplicáveis

- Mudanças climáticas
- Florestas
- Água

(5.3.1.3) Descreva como riscos e/ou oportunidades ambientais afetaram sua estratégia nesta área

With regard to research, development and partnerships, there is the case of Columbia University – Columbia Climate School (Network for Healthy and Sustainable Food Systems), with which we provide financial support (gift modality) for conducting academic research on the transition of protein-based food systems, aiming to encourage the agenda of lower environmental impact of food systems. Also in this line, the company invests in plant-based protein foods (PlantPlus Foods). This strategy reinforces the company's commitment to a less impactful agenda on the themes of Climate, Forests and Water. Climate: In relation to the Climate theme, investments in technology and the establishment of partnerships are strategic for achieving the established goals and objectives. In this sense, it is worth noting that Marfrig was a pioneer in adopting this technology of tracking and geomonitoring systems in Brazil, in 2009, and currently covers 100% of direct suppliers, from all biomes. Furthermore, Marfrig has strategically established partnerships and acquired technologies, such as in Origin Control, where direct investments of approximately R8 million were made to continue and develop partnerships with research institutions such as Embrapa and Agroicone, in addition to strengthening participation with institutions that promote good practices in sustainable livestock farming, such as the Global Roundtable for Sustainable Beef (GRSB), Mesa Brasileira de Pecuária Sustentável (MBPS), Instituto InPACTO and Coalização Brasil Clima Floresta e Agricultura. Forest: With regard to the theme of Forests, investments in research and the establishment of partnerships are strategic. In this sense, we highlight the techniques used in ILP (Crop-Livestock Integration) and ILPF (Crop-Livestock-Forest Integration), aimed at reconciling and balancing pastures and biodiversity, which in turn result from an unprecedented partnership established with EMBRAPA in 2018 to encourage the adoption of more sustainable practices in livestock farming, certifying meat derived from such systems. Also in relation to the theme of Forests, we highlight the innovative partnership between the forest restoration company re.green (with a solid scientific basis) and Marfrig, which will recover an area of 2 thousand hectares in the border region between the Amazon and Cerrado biomes. Water: With regard to the water theme, due to its

importance, investments in research and projects are fundamental and strategic to increase water efficiency. In this sense, we highlight that our investments (CAPEX) in improvements to water and effluent management infrastructure aiming at water efficiency gains in our operations increased by 10.87% between 2022 and 2023, going from R 70.9 million to more than R 78 million. Disbursements for expenses related to the treatment of effluents and effluents, in addition to general maintenance (OPEX) increased by around 66.45% when compared to the value of 2022. These numbers refl

Operações

(5.3.1.1) Tipo de efeito

Selecione todos os aplicáveis

- Riscos
- Oportunidades

(5.3.1.2) Problemas ambientais relevantes para os riscos e/ou oportunidades ambientais que afetaram sua estratégia nesta área

Selecione todos os aplicáveis

- Mudanças climáticas
- Florestas
- Água

(5.3.1.3) Descreva como riscos e/ou oportunidades ambientais afetaram sua estratégia nesta área

Climate: Aiming to mitigate impacts on the Climate, Marfrig has a differentiated action strategy for its operations, focusing essentially on energy efficiency. It is understood that improving energy efficiency in its direct processes is the most effective way to contribute to reducing emissions. To this end, energy consumption is monitored monthly through the Industrial Panel and the Marfrig Integrated Energy Matrix System (SIMEM). The Industrial Panel is the tool that is fed daily (partially) and has a monthly (official) closing to monitor indicators related to electricity. SIMEM is the panel of technical indicators for invoices, consumption assessment, demand and fines, among other factors, related to the revenue directed to the company's production units. The strategic actions include: replacing some equipment in the factories, aiming at greater efficiency; modifying lighting, engines and refrigeration and compressed air systems; and ending the use of diesel generators in some operational units. In some operational units (such as in Chile), solar panels are being implemented. Furthermore, all operational units in South America have replaced equipment and revised processes, resulting in a reduction in the consumption of electrical and thermal energy calculated per head of cattle slaughtered. The remuneration linked to climate change stands out as a strategy for combating climate change. In operations, for example, professionals who perform management functions, starting with coordinators, have goals linked to the conscious consumption of natural resources in the plants, which directly impacts our Scope 1 and 2 emissions. Forests: At the operational level, the main strategy for addressing the issue of forests and mitigating deforestation is in the operational procedures of the plants, which incorporate the principles and guidelines of the Green Program, requiring and controlling the processes that confirm the necessary requirements for compliance with the program. The performance of the operation is fundamental and strategic for monitoring the Green Program. Water: The strategy for mitigating

impacts and risks related to water, at the operational level, is directly linked to the efficiency in the use of the resource. In this sense, the strategy adopted has been to establish consumption targets: a 20% reduction in the volume of water consumed by 2035. This target, pursued globally, is based on our performance in 2020. Another difference is that the target for reducing water consumption is linked to the variable remuneration of those responsible for the units and the board of directors.
[Adicionar linha]

(5.3.2) Descreva onde e como os riscos e as oportunidades ambientais influenciaram o planejamento financeiro da organização.

Row 1

(5.3.2.1) Elementos do planejamento financeiro que foram influenciados

Selecione todos os aplicáveis

- Receitas
- Custos diretos
- Acesso ao capital
- Ativos

(5.3.2.2) Tipo de efeito

Selecione todos os aplicáveis

- Riscos
- Oportunidades

(5.3.2.3) Problemas ambientais relevantes para os riscos e/ou oportunidades ambientais que afetaram esses elementos do planejamento financeiro

Selecione todos os aplicáveis

- Mudanças climáticas
- Florestas
- Água

(5.3.2.4) Descreva como os riscos e/ou oportunidades ambientais influenciaram a sua estratégia e/ou planejamento financeiro

Climate Change: Marfrig's financial planning is heavily influenced by climate change, with risks like extreme weather and water scarcity directly impacting operations. To address these, Marfrig has integrated climate considerations into its financial decisions, investing in sustainability through the Marfrig Verde Plan, which commits BRL 500 million to ensure a deforestation-free production chain within ten years. This plan, which includes achieving full supply chain traceability in the Amazon by 2025, demonstrates the centrality of climate change to Marfrig's long-term strategy. The Carbon Neutral Meat (CCN) initiative and expansion into plant-based products are key examples of Marfrig capitalizing on opportunities for low-carbon products, further diversifying revenue streams. Water: Water management is another critical focus, with Marfrig aiming to reduce water consumption by 20% by 2035. To achieve this, the company has invested BRL 78 million in water and effluent management infrastructure, marking a 10.87% increase from the previous year. Operating expenses related to maintenance and effluent treatment have also risen by 66.45% over the same period. Marfrig's strategies include monitoring water use with advanced technology, reusing water, and assessing water risks in operations and the supply chain. The company also considers the rising cost of water in its financial planning, using internal pricing to anticipate future cost increases and ensure sustainable water management. Forest: In the context of forest conservation, Marfrig is dedicated to eliminating deforestation in its supply chain by 2025 in the Amazon and by 2030 in the Cerrado, as outlined in its CDP Florestas commitment. Financial planning includes significant investments, such as issuing a Sustainable Transition Bond to raise BRL 500 million for sustainable cattle purchasing in the Amazon. Additional funding, like the USD 30 million from Stichting and green.fund, supports initiatives under Marfrig Verde, promoting low-carbon practices and environmental preservation. Overall, Marfrig's financial strategy spans 11 to 15 years, focusing on low-carbon technologies, ecosystem restoration, and strategic partnerships to enhance resilience and sustainability.

[Adicionar linha]

(5.4) Na contabilidade financeira da organização, são identificados gastos/receitas alinhados com a transição climática da organização?

| | Identificação dos gastos/receitas alinhados com a transição climática da organização | Metodologia ou quadro utilizados para avaliar o alinhamento com a transição climática da organização |
|--|--|--|
| | Selecione de: <input checked="" type="checkbox"/> Sim | Selecione todos os aplicáveis <input checked="" type="checkbox"/> Outra metodologia ou quadro |

[Linha fixa]

(5.4.1) Quantifique o valor e a participação percentual dos gastos/receitas da organização alinhados com a transição climática da organização.

Row 1

(5.4.1.1) Metodologia ou quadro utilizados para avaliar o alinhamento

Selecione de:

Outro, especifique :CAPEX

(5.4.1.5) Métrica financeira

Selecione de:

O CAPEX

(5.4.1.6) Quantidade da métrica financeira selecionada alinhada no ano de reporte (moeda)

263332642

(5.4.1.7) Participação percentual da métrica financeira selecionada alinhada no ano de reporte (%)

6.74

(5.4.1.8) Participação percentual da métrica financeira selecionada que se planeja estar alinhada em 2025 (%)

0.88

(5.4.1.9) Participação percentual da métrica financeira selecionada que se planeja estar alinhada em 2030 (%)

0.9

(5.4.1.12) Detalhes da metodologia ou do quadro utilizados para avaliar o alinhamento com a transição climática da organização

In order to establish an investment projection aligned with our organization's climate transition, we initially used the average percentage change in recurring Capex over the last four years. We then apply the average percentage variance to the company's climate transition capital expenditures. With this, it was possible to estimate an investment of 0,88% for the year 2025. Marfrig has clear commitments to sustainability, investing in more environmentally friendly production practices, offering a variety of products with less environmental impact and working to neutralize or reduce greenhouse gas emissions. Below are some relevant points about its investments: Emissions Reduction Targets: - Marfrig's goal is to reduce its greenhouse gas emissions in scope 3 by 33% by 2035. - The focus is on reducing

methane generated by animals through practices. Verde Program: - The focus on traceability as a tool to prevent deforestation and achieve socio-productive inclusion in the entire chain will be the full traceability of the supply. This will be done through combined mechanisms, including cattle play, satellite monitoring, georeferencing of rural properties and the design of risk maps, which cross-reference vegetation maps with breeding and rearing suppliers, allowing the identification of areas most susceptible to deforestation. Many of these mechanisms are already used by Marfrig and their use will be intensified and in 2025 all of Marfrig's direct and indirect suppliers will be monitored. In short, the company is committed to investing in practices that reduce emissions, promoting sustainability and socio-environmental responsibility in its value chain and during this period there will be investments in the company and in its value chain.

[Adicionar linha]

(5.9) Qual é a tendência dos gastos de capital (CAPEX) e dos gastos operacionais (OPEX) relativos à água da organização para o ano de reporte e a tendência prevista para o próximo ano de reporte?

(5.9.1) CAPEX relativas à água (+/- % de variação)

10.86

(5.9.2) Tendência futura prevista para o CAPEX (+/- % de variação)

0

(5.9.3) OPEX relativas à água (+/- % de variação)

66.45

(5.9.4) Tendência futura prevista para o OPEX (+/- % de variação)

0

(5.9.5) Explique

The percentage values were calculated based on OPEX and CAPEX expenditures for the years 2022 and 2023, considering the operations of all countries in which Marfrig operates. CAPEX investments increased by 10.87% between 2022 and 2023, rising from R70.9 million to over R78 million. This increase is mainly due to investments in improvements to water and effluent management infrastructure, aiming at water efficiency gains in our operations, include the implementation of new technologies and the modernization of existing facilities. Furthermore, operating expenses (OPEX) increased by approximately 66.45% in the same period, from

R112.1 million to R186.5 million. This significant increase in OPEX is attributed to expenses related to the treatment of influents and effluents, in addition to general maintenance. The intensification of environmental regulations and the need to maintain compliance with stricter standards resulted in higher operating expenses.
[Linha fixa]

(5.10) A organização usa um preço interno para externalidades ambientais?

(5.10.1) Uso da precificação interna das externalidades ambientais

Selecione de:

Não, mas planejamos fazê-lo nos próximos dois anos

(5.10.3) Razão principal para não precificar as externalidades ambientais

Selecione de:

Não é uma prioridade estratégica imediata

(5.10.4) Explique por que a organização não precifica as externalidades ambientais

Marfrig does not currently perform carbon pricing. However, the company aims to implement the carbon pricing process in the next two years, as it is an essential step for the climate transition to become a reality. The process allows for the reduction of emissions and the direction of investments towards production with lower emissions. Marfrig is also investing in the production of low-carbon meat. The company has the Verde Program, launched in 2020, to establish sustainable, deforestation-free and fully traceable livestock farming by 2025. These actions put the company in the spotlight when it comes to sustainability. The company has committed to recovering 100,000 hectares of degraded pastures and restoring 6,000 hectares of native forests. The company is engaging its supply chain to intensify livestock farming, focusing on increasing productivity without the need to open new pasture areas.

[Linha fixa]

(5.11) A organização se engaja com sua cadeia de valor em relação às questões ambientais?

| | Engajamo-nos com esta parte interessada com relação a questões ambientais | Problemas ambientais abrangidos |
|---|---|---|
| Fornecedores | <i>Selecione de:</i> <input checked="" type="checkbox"/> Sim | <i>Selecione todos os aplicáveis</i> <input checked="" type="checkbox"/> Mudanças climáticas <input checked="" type="checkbox"/> Florestas <input checked="" type="checkbox"/> Água <input checked="" type="checkbox"/> Plásticos |
| Pequenos produtores | <i>Selecione de:</i> <input checked="" type="checkbox"/> Sim | <i>Selecione todos os aplicáveis</i> |
| Clientes | <i>Selecione de:</i> <input checked="" type="checkbox"/> Sim | <i>Selecione todos os aplicáveis</i> <input checked="" type="checkbox"/> Mudanças climáticas <input checked="" type="checkbox"/> Florestas <input checked="" type="checkbox"/> Água |
| Investidores e acionistas | <i>Selecione de:</i> <input checked="" type="checkbox"/> Sim | <i>Selecione todos os aplicáveis</i> <input checked="" type="checkbox"/> Mudanças climáticas <input checked="" type="checkbox"/> Florestas <input checked="" type="checkbox"/> Água |
| Outras partes interessadas da cadeia de valor | <i>Selecione de:</i> <input checked="" type="checkbox"/> Sim | <i>Selecione todos os aplicáveis</i> <input checked="" type="checkbox"/> Mudanças climáticas <input checked="" type="checkbox"/> Florestas <input checked="" type="checkbox"/> Água |

[Linha fixa]

(5.11.1) A organização avalia e classifica os fornecedores de acordo com suas dependências e/ou impactos para o meio ambiente? [AINDA NÃO DISPONÍVEL]

Mudanças climáticas

(5.11.1.1) Avaliação das dependências e/ou impactos do fornecedor com relação ao meio ambiente

Selecione de:

- Sim, avaliamos as dependências e/ou impactos dos nossos fornecedores

(5.11.1.2) Critérios para avaliar as dependências e/ou impactos dos fornecedores com relação ao meio ambiente

Selecione todos os aplicáveis

- Contribuição para as emissões de Escopo 3 relacionadas aos fornecedores
- Dependência de <i>commodities</i>

(5.11.1.3) Porcentagem de fornecedores de Nível 1 avaliados

Selecione de:

- 26-50%

(5.11.1.4) Defina um limite para classificar os fornecedores como tendo dependências e/ou impactos significativos para o meio ambiente

Marfrig has 9,087 suppliers responsible for over 99% of its scope 3 emissions. Through the Marfrig Club and supplier evaluations, the company classifies suppliers based on their environmental impact. An action limit is set for suppliers contributing more than 0.1% to total scope 3 emissions, ensuring focus on categories with a significant impact on emissions.

(5.11.1.5) Porcentagem de fornecedores de Nível 1 que atendem aos limites de dependências e/ou impactos significativos para o meio ambiente

Selecione de:

- 26-50%

(5.11.1.6) Número de fornecedores de Nível 1 que atendem aos limites de dependências e/ou impactos significativos para o meio ambiente

Florestas

(5.11.1.1) Avaliação das dependências e/ou impactos do fornecedor com relação ao meio ambiente

Selecione de:

- Sim, avaliamos as dependências e/ou impactos dos nossos fornecedores

(5.11.1.2) Critérios para avaliar as dependências e/ou impactos dos fornecedores com relação ao meio ambiente

Selecione todos os aplicáveis

- Condições da bacia/paisagem
- Contribuição para as emissões de Escopo 3 relacionadas aos fornecedores
- Dependência dos serviços ecossistêmicos/ativos ambientais
- Impacto para a disponibilidade de água
- Impacto para o desmatamento ou a conversão de outros ecossistemas naturais

(5.11.1.3) Porcentagem de fornecedores de Nível 1 avaliados

Selecione de:

- 26-50%

(5.11.1.4) Defina um limite para classificar os fornecedores como tendo dependências e/ou impactos significativos para o meio ambiente

Marfrig developed the Socio-Environmental Risk Mitigation Map with AgroÍcone to identify high-risk production areas related to commodities like livestock and soy. The map offers a comprehensive view of Brazilian territories, factoring in livestock distribution, deforestation risks, native vegetation, and social conflicts. It categorizes risks into five levels (very high, high, medium, low and very low), enabling Marfrig to prioritize and engage with suppliers in high and very high-risk areas.

(5.11.1.5) Porcentagem de fornecedores de Nível 1 que atendem aos limites de dependências e/ou impactos significativos para o meio ambiente

Selecione de:

1-25%

(5.11.1.6) Número de fornecedores de Nível 1 que atendem aos limites de dependências e/ou impactos significativos para o meio ambiente

1420

Água

(5.11.1.1) Avaliação das dependências e/ou impactos do fornecedor com relação ao meio ambiente

Selecione de:

Sim, avaliamos as dependências e/ou impactos dos nossos fornecedores

(5.11.1.2) Critérios para avaliar as dependências e/ou impactos dos fornecedores com relação ao meio ambiente

Selecione todos os aplicáveis

Dependência de água

Impacto para a disponibilidade de água

(5.11.1.3) Porcentagem de fornecedores de Nível 1 avaliados

Selecione de:

26-50%

(5.11.1.4) Defina um limite para classificar os fornecedores como tendo dependências e/ou impactos significativos para o meio ambiente

Marfrig uses the Aqueduct tool to assess whether supplier farms are in areas of water stress, focusing on potential environmental impacts like pollution and water availability. Livestock farms in "high" or "very high" water stress areas face serious risks to production and economic viability. Farms in these areas are considered to have a significant impact on water resources. In 2023, 11% of supplier farms, about 990, were in such sensitive areas.

(5.11.1.5) Porcentagem de fornecedores de Nível 1 que atendem aos limites de dependências e/ou impactos significativos para o meio ambiente

Selecione de:

1-25%

(5.11.1.6) Número de fornecedores de Nível 1 que atendem aos limites de dependências e/ou impactos significativos para o meio ambiente

990

Plásticos

(5.11.1.1) Avaliação das dependências e/ou impactos do fornecedor com relação ao meio ambiente

Selecione de:

Não, não avaliamos as dependências e/ou impactos dos nossos fornecedores e não temos planos de fazer isso nos próximos dois anos
[Linha fixa]

(5.11.2) A organização prioriza com quais fornecedores se engajar para as questões ambientais? [AINDA NÃO DISPONÍVEL]

Mudanças climáticas

(5.11.2.1) Priorização do engajamento com os fornecedores sobre esta questão ambiental

Selecione de:

Sim, priorizamos com quais fornecedores nos engajar com relação a esta questão ambiental

(5.11.2.2) Critérios que informam quais fornecedores são priorizados para o engajamento com relação a esta questão ambiental

Selecione todos os aplicáveis

Em alinhamento com os critérios utilizados para classificar os fornecedores como tendo dependências e/ou impactos significativos com relação às mudanças climáticas

Conformidade regulatória

(5.11.2.4) Explique

Marfrig seeks to influence its suppliers to reduce greenhouse gas emissions. The company has already mapped the categories that contribute the most to scope 3 emissions. As a result, we focus on actions with suppliers that are aligned with categories 1, 4 and 5 of scope 3. The company created the Marfrig Club, with the aim of increasing sustainability in the supply chain by sharing good practices and recognizing those suppliers that demonstrate their commitment to Marfrig's understanding of sustainability. The company also provides the Sustainable Practices Guide, a material that provides objective and practical guidelines on how suppliers must maintain their legal compliance and how they can reduce the environmental and social impact of their operations. Marfrig knows that it is not possible to maintain a stable supply chain without efficient management of natural resources; reducing emissions and promoting biodiversity are among other topics covered in the guide. Also, there is the Verde Program, an initiative designed to support sustainable beef production, once again including suppliers who have adopted the best practices proposed by Marfrig. Producers who adhere to Verde commit to following the precepts of the Marfrig Club and adopting sustainable practices, receiving technical support in return. These focused actions aim to tackle more than 99% of Marfrig's scope 3 emissions and make a big difference in reducing the potential risks of impact on the environment.

Florestas

(5.11.2.1) Priorização do engajamento com os fornecedores sobre esta questão ambiental

Selecione de:

Não, não priorizamos com quais fornecedores nos engajar com relação a esta questão ambiental

(5.11.2.3) Razão principal para não haver priorização de fornecedores sobre esta questão ambiental

Selecione de:

Engajamo-nos com todos os fornecedores

(5.11.2.4) Explique

For its direct suppliers of forest related commodities, Marfrig does not have a prioritization order for engagement, as these commodities are strategic to the company's operations. 100% of direct suppliers of forest related commodities are evaluated to ensure they meet the company's socio-environmental requirements and commitments, forming a compliance standard to be followed. Any supplier that does not adhere to this compliance is suspended until they meet the required criteria again. For specific cattle commodities suppliers, there is the Marfrig Club, a program aimed at unifying information from all commodity suppliers for the company, as well as providing guidance on best practices.

Água

(5.11.2.1) Priorização do engajamento com os fornecedores sobre esta questão ambiental

Selecione de:

- Sim, priorizamos com quais fornecedores nos engajar com relação a esta questão ambiental

(5.11.2.2) Critérios que informam quais fornecedores são priorizados para o engajamento com relação a esta questão ambiental

Selecione todos os aplicáveis

- Em alinhamento com os critérios utilizados para classificar os fornecedores como tendo dependências e/ou impactos significativos com relação à água
- Status estratégico dos fornecedores
- Vulnerabilidade dos fornecedores

(5.11.2.4) Explique

Marfrig uses water availability mapping to prioritize suppliers in areas of water stress, since these regions are more vulnerable. The company monitors the volume of animals slaughtered in these areas, using Aqueduct platform to strengthen engagement with suppliers that have significant impacts. The strategic status of suppliers is equally crucial. Marfrig engages with suppliers that are essential to its value chain, encouraging them to adopt sustainable practices, such as reducing water consumption. Participation in the Marfrig Club, which classifies suppliers into categories such as beginners, bronze, silver and gold, is based on adherence to sustainability principles, with priority given to those committed to responsible water management. The vulnerability of suppliers, especially in relation to water availability, is considered. Suppliers in areas with greater water risk receive technical support and are encouraged to implement sustainable management practices. In 2023, 11% of supplier farms were located in sensitive areas, reinforcing the need to prioritize these suppliers to protect water resources. The prioritization of suppliers is linked to the sustainability of Marfrig's operations, especially in animal production and in maintaining the quality of water resources, guided by strategic objectives. The participation of suppliers in the Marfrig Club and the continuous improvement in water management practices demonstrate the commitment to promoting sustainability

Plásticos

(5.11.2.1) Priorização do engajamento com os fornecedores sobre esta questão ambiental

Selecione de:

- Não, não priorizamos com quais fornecedores nos engajar com relação a esta questão ambiental

(5.11.2.3) Razão principal para não haver priorização de fornecedores sobre esta questão ambiental

Selecione de:

- Não é uma prioridade estratégica imediata

(5.11.2.4) Explique

Marfrig understands the importance of plastic waste management and the role this issue plays in environmental sustainability. However, at the current moment, the company has focused its efforts on areas more directly related to its sector. While engagement with suppliers regarding plastic use is not an immediate priority, Marfrig continues to monitor opportunities to improve its performance in this area.

[Linha fixa]

(5.11.5) Os fornecedores da organização devem atender a exigências ambientais como parte do processo de aquisição da organização?

Mudanças climáticas

(5.11.5.1) Os fornecedores devem atender a requisitos ambientais específicos relacionados a esta questão ambiental como parte do processo de aquisição

Selecione de:

Sim, os requisitos ambientais relacionados a esta questão ambiental estão incluídos nos contratos com nossos fornecedores

(5.11.5.2) Política em vigor para a abordagem da não-conformidade dos fornecedores

Selecione de:

Sim, temos uma política em vigor para abordar a não-conformidade

(5.11.5.3) Explique

All company activities must be legal to access markets without fines or penalties for non-compliance with required standards. In this sense, compliance with legal requirements is non-negotiable for Marfrig Global Foods, and the expectation is that in any area where there is legal violation, the results will be identified in riskassessments. Marfrig also has a compliance area, implemented with the aim of ensuring compliance with legal requirements in our operations. The guidelines established there are structured based on three premises: prevention, detection and response. Farms that supply animals must meet at least three prerequisites established in the contract to supply animals to Marfrig (Marfrig Club Protocol, beginner level), namely: 1. Animal: Issue the Animal Transit Guide (GTA) 2. Environmental: Not to be embargoed by IBAMA 3. Social: Not to be on the slave labor blacklist If they meet the prerequisites, they are ready to be massacred by the company and are therefore considered beginners at the Marfrig Club, where they meet more than 10% of the requirements pillars assessed (environmental, social and animal). Other requirements requested from suppliers are the presentation of documents, such as proof of Land Regularity Registration (SNCR), Rural Environmental Registration (CAR), Letter of Guarantee, Marfrig Club Protocol Checklist, Invoice and Animal Transit Guide (GTA), between others.

Florestas

(5.11.5.1) Os fornecedores devem atender a requisitos ambientais específicos relacionados a esta questão ambiental como parte do processo de aquisição

Selecione de:

- Sim, os requisitos ambientais relacionados a esta questão ambiental estão incluídos nos contratos com nossos fornecedores

(5.11.5.2) Política em vigor para a abordagem da não-conformidade dos fornecedores

Selecione de:

- Sim, temos uma política em vigor para abordar a não-conformidade

(5.11.5.3) Explique

Marfrig has implemented its Policy for the Acquisition of Material of Forest Origin to ensure that its supply chains are free from deforestation, regardless of geographic location. All forest-origin products must come from planted forests in non-embargoed areas, and producers must not appear on IBAMA's Embargoed Areas List or have records of forced labor. Key legal documents, such as the FSC certificate and the mandatory DOF license for the transport and storage of native forest products, are required. For cattle suppliers, compliance with environmental and labor regulations is essential. Suppliers must not be included on IBAMA's list or have forced labor records, and they must provide proof of Land Registry and Rural Environmental Registration. For suppliers in the Amazon Biome, Marfrig uses geospatial devices and GIS to analyze geographical data. Cattle purchases from farms in the Amazon comply 100% with the Public Commitment on Amazon Cattle Ranching, and the process is independently audited annually. Marfrig also extends its monitoring to indirect suppliers through the RFI tool, ensuring full supply chain transparency. Additionally, Marfrig supports initiatives to combat deforestation, especially in the Amazon, such as the Soy Moratorium. Soy is only used in the company's feedlot unit in Uruguay, where traceable soybean husks or bran are purchased for animal feed.

Água

(5.11.5.1) Os fornecedores devem atender a requisitos ambientais específicos relacionados a esta questão ambiental como parte do processo de aquisição

Selecione de:

- Sim, os requisitos ambientais relacionados a esta questão ambiental estão incluídos nos contratos com nossos fornecedores

(5.11.5.2) Política em vigor para a abordagem da não-conformidade dos fornecedores

Selecione de:

- Sim, temos uma política em vigor para abordar a não-conformidade

(5.11.5.3) Explique

All company activities must be legal to access markets without fines or penalties for non-compliance with required standards. In this sense, compliance with legal requirements is non-negotiable for Marfrig Global Foods, and the expectation is that in any area where there is legal violation, the results will be identified in riskassessments. Marfrig also has a compliance area, implemented with the aim of ensuring compliance with legal requirements in our operations. The guidelines established there are structured based on three premises: prevention, detection and response. Farms that supply animals must meet at least three prerequisites established in the contract to supply animals to Marfrig (Marfrig Club Protocol, beginner level), namely: 1. Animal: Issue the Animal Transit Guide (GTA) 2. Environmental: Not to be embargoed by IBAMA 3. Social: Not to be on the slave labor blacklist If they meet the prerequisites, they are ready to be massacrred by the company and are therefore considered beginners at the Marfrig Club, where they meet more than 10% of the requirements pillars assessed (environmental, social and animal). Other requirements requested from suppliers are the presentation of documents, such as proof of Land Regularity Registration (SNCR), Rural Environmental Registration (CAR), Letter of Guarantee, Marfrig Club Protocol Checklist, Invoice and Animal Transit Guide (GTA), between others.

[Linha fixa]

(5.11.6) Dê detalhes dos requisitos ambientais que os fornecedores devem atender como parte do processo de compra da organização e as medidas de conformidade em vigor.

Mudanças climáticas

(5.11.6.1) Requisito ambiental

Selecione de:

- Implementação de iniciativas de redução das emissões

(5.11.6.2) Mecanismos para o monitoramento da conformidade com este requisito ambiental

Selecione todos os aplicáveis

- Certificação
- Multas e penalidades
- Verificação dos clientes
- Autoavaliação do fornecedor
- Ferramenta de monitoramento geoespacial
- Mecanismo de queixa/Linha direta de denúncias

(5.11.6.3) Porcentagem de fornecedores de nível 1 por gastos com aquisições que devem atender a este requisito ambiental

Selecione de:

76-99%

(5.11.6.4) Porcentagem de fornecedores de nível 1 por gastos com aquisições em conformidade com este requisito ambiental

Selecione de:

76-99%

(5.11.6.7) Porcentagem das emissões de Escopo 3 relacionada aos fornecedores de nível 1 atribuível aos fornecedores que devem atender a este requisito ambiental

Selecione de:

76-99%

(5.11.6.8) Porcentagem das emissões de Escopo 3 relacionada aos fornecedores de nível 1 atribuível aos fornecedores em conformidade com este requisito ambiental

Selecione de:

100%

(5.11.6.9) Resposta à não-conformidade do fornecedor com este requisito ambiental

Selecione de:

Suspender e engajar

(5.11.6.10) Porcentagem de fornecedores não em conformidade engajados

Selecione de:

1-25%

(5.11.6.11) Procedimentos de engajamento dos fornecedores não em conformidade

Selecione todos os aplicáveis

- Reintegrar os fornecedores na cadeia de valor <i>upstream </i>com base na realização bem-sucedida e verificável das atividades

(5.11.6.12) Explique

Marfrig engages its suppliers to reduce its greenhouse gas emissions. The organization has identified the categories that contributed most to scope 3 emissions and is focusing its actions on suppliers belonging to categories 1, 4 and 5. The Marfrig Club was created by Marfrig to increase sustainability in its supply chain. The goal of this club is to share good practices and identify suppliers that are committed to Marfrig's sustainability vision. In addition, Marfrig created the Verde Program, a sustainable development initiative based on three pillars: Inclusion, Conservation and Production. According to the program's schedule, livestock farmers are required to share certain information with the company regarding their suppliers, production methods, among others. Until the person can provide the necessary data and demonstrate that they are in compliance with our commitments, they will be blocked from our supplier base until they prove compliance with Marfrig's commitments. In 2023, a total of 1,267 farms were reintegrated, representing 14% of our active suppliers. We have reintegrated 3,561 farms in three years of the Verde Program. During the reintegration process, we assist suppliers in resuming their operations in accordance with our socio-environmental commitments, providing technical documentation support, legal advice and technical analyses.

Florestas

(5.11.6.1) Requisito ambiental

Selecione de:

- Zero desmatamento ou conversão de outros ecossistemas naturais

(5.11.6.2) Mecanismos para o monitoramento da conformidade com este requisito ambiental

Selecione todos os aplicáveis

- Certificação
- Verificação interna
- Verificação dos clientes
- Autoavaliação do fornecedor
- Auditoria externa por terceiros
- Monitoramento baseado na comunidade
- Ferramenta de monitoramento geoespacial
- Sistema de monitoramento baseado no terreno
- Mecanismo de queixa/Linha direta de denúncias
- Quadro de resultados ou classificação dos fornecedores

(5.11.6.3) Porcentagem de fornecedores de nível 1 por gastos com aquisições que devem atender a este requisito ambiental

Selecione de:

76-99%

(5.11.6.4) Porcentagem de fornecedores de nível 1 por gastos com aquisições em conformidade com este requisito ambiental

Selecione de:

100%

(5.11.6.5) Porcentagem de fornecedores de nível 1 com dependências e/ou impactos ambientais significativos relacionados a esta questão ambiental que devem atender a este requisito ambiental

Selecione de:

100%

(5.11.6.6) Porcentagem de fornecedores de nível 1 com dependências e/ou impactos ambientais significativos relacionados a esta questão ambiental que estão em conformidade com este requisito ambiental

Selecione de:

100%

(5.11.6.9) Resposta à não-conformidade do fornecedor com este requisito ambiental

Selecione de:

Suspende e engajar

(5.11.6.10) Porcentagem de fornecedores não em conformidade engajados

Selecione de:

100%

(5.11.6.11) Procedimentos de engajamento dos fornecedores não em conformidade

Selecione todos os aplicáveis

- Desenvolver metas quantificáveis com prazos e marcos para recolocar os fornecedores em conformidade
- Apresentar informações sobre ações apropriadas que possam ser adotadas para abordar a não-conformidade
- Reintegrar os fornecedores na cadeia de valor <i>upstream </i>com base na realização bem-sucedida e verificável das atividades

(5.11.6.12) Explique

Marfrig's Policy for the Acquisition of Material of Forest Origin ensures that all wood-based products are sustainably sourced, with strict rules applied across the value chain. New suppliers must meet environmental management standards and comply with legal requirements, including having no record on IBAMA's Embargoed list or the MTE's Labor Slave list. Suppliers must also provide FSC certification or equivalent documents and a Forest Origin Document (DOF) to verify the legal and sustainable source of the wood. For cattle, Marfrig uses the TAURA Cattle Purchase module to monitor and ensure compliance with environmental standards. The system cross-references suppliers with IBAMA and slave labor lists and assesses SNCR/CCIR and CAR licenses. Geographic information systems (GIS) are used for mapping and data analysis. Suppliers found non-compliant are blocked from selling until issues are resolved, with 3,561 farms reincluded by the end of 2023 under the Marfrig Verde Program. In soy procurement, Marfrig sources soybean husks and bran for cattle feed in Uruguay, ensuring traceability and adherence to the Soy Moratorium. Suppliers, including ADM, Bremil, BRF Ingredients, and Dupont, follow policies to avoid deforestation. Marfrig is expanding its monitoring efforts to include indirect operations and aims to map soy use across biomes, starting with the Amazon and progressing to the Cerrado and other regions, to ensure a deforestation-free supply chain.

Água

(5.11.6.1) Requisito ambiental

Selecione de:

- Definição e monitoramento de metas de redução de captação

(5.11.6.2) Mecanismos para o monitoramento da conformidade com este requisito ambiental

Selecione todos os aplicáveis

- Verificação interna
- Ferramenta de monitoramento geoespacial
- Mecanismo de queixa/Linha direta de denúncias
- Quadro de resultados ou classificação dos fornecedores
- Autoavaliação do fornecedor

(5.11.6.3) Porcentagem de fornecedores de nível 1 por gastos com aquisições que devem atender a este requisito ambiental

Selecione de:

100%

(5.11.6.4) Porcentagem de fornecedores de nível 1 por gastos com aquisições em conformidade com este requisito ambiental

Selecione de:

100%

(5.11.6.5) Porcentagem de fornecedores de nível 1 com dependências e/ou impactos ambientais significativos relacionados a esta questão ambiental que devem atender a este requisito ambiental

Selecione de:

100%

(5.11.6.6) Porcentagem de fornecedores de nível 1 com dependências e/ou impactos ambientais significativos relacionados a esta questão ambiental que estão em conformidade com este requisito ambiental

Selecione de:

100%

(5.11.6.9) Resposta à não-conformidade do fornecedor com este requisito ambiental

Selecione de:

Suspender e engajar

(5.11.6.10) Porcentagem de fornecedores não em conformidade engajados

Selecione de:

Menos de 1%

(5.11.6.11) Procedimentos de engajamento dos fornecedores não em conformidade

Selecione todos os aplicáveis

- Reintegrar os fornecedores na cadeia de valor <i>upstream </i>com base na realização bem-sucedida e verificável das atividades

(5.11.6.12) Explique

In their contracts, Marfrig suppliers must meet requirements related to water management, which are customized according to the supplier's field of activity. One of the requirements is to reduce water withdrawal. To help suppliers meet this requirement, compliance measures are available in the Marfrig Club Sustainable Practices Guide. These measures include: rational use of water, rainwater containment, tools to measure water consumption, among others. 100% of suppliers with significant impact are required to comply with this water-related requirement, and all of them meet this requirement. To verify compliance of properties with good practices, a checklist is applied that allows identifying the property's progress in the respective topics. In conversations with suppliers, information is collected about water consumption, the existence of a consumption reduction plan, water-related events (such as lack of rain) and the identification of risks.

[Adicionar linha]

(5.11.7) Dê mais detalhes do engajamento da organização com o fornecedor com relação às questões ambientais.

Mudanças climáticas

(5.11.7.2) Ação impulsionada pelo engajamento do fornecedor

Selecione de:

- Redução de emissões

(5.11.7.3) Tipo e detalhes do engajamento

Qualificação

- Dar treinamento, suporte e boas práticas sobre como reduzir o impacto ambiental
- Outra atividade de capacitação, especifique :Conduct engagement campaigns to educate suppliers about climate change

Incentivos financeiros

- Destacar o desempenho ambiental no esquema de prêmios para fornecedores

(5.11.7.4) Abrangência da cadeia de valor <i>upstream</i>

Selecione todos os aplicáveis

Fornecedores da Camada 1

(5.11.7.5) Porcentagem de fornecedores de nível 1 por gastos com aquisição abrangidos pelo engajamento

Selecione de:

26-50%

(5.11.7.6) % das emissões de escopo 3 relacionadas a fornecedores de nível 1 abrangidas pelo engajamento

Selecione de:

26-50%

(5.11.7.9) Descreva o engajamento da organização e explique o efeito desse engajamento na ação ambiental selecionada

The Marfrig Club Program is a quality control initiative focusing on respect for animals, the environment, and society to mitigate supply chain risks. It aims to engage and develop suppliers by recognizing those who excel in animal welfare and socio-environmental compliance. The program strengthens relationships between producers and Marfrig, encouraging good agricultural practices such as maintaining natural reserves, promoting biodiversity, reducing pollution, and preserving water sources. A checklist is used to assess and classify suppliers as beginner, bronze, silver, or gold based on their adherence to these practices. Participation in the Marfrig Club Program aligns suppliers with the Good Sustainability Practices Guide, facilitating monitoring and progress in incorporating climate considerations into their management. The program's impact on climate issues is seen as qualitatively lower for participating farms. By 2023, around 9,000 suppliers are engaged in the program, with 72% meeting the required compliance standards, and 19% improving their practices to move up in categories. This reflects Marfrig's commitment to sustainability and ensuring responsible practices among its suppliers. New projects within the Marfrig Club Program include partnerships with suppliers to reduce methane emissions. Two key initiatives are: 1. Silvaeed BX: A food supplement from SilvaTeam that, when mixed with feed during the fattening phase, reduces methane emissions by 15%. 2. SilvAir: A nutrient-rich product from Cargill used in cattle diets, optimizing feed and producing ammonia instead of methane in the rumen, with evidence from over 25 scientific studies. Marfrig actively promotes research with suppliers to identify opportunities for reducing greenhouse gas (GHG) emissions. However, there is currently no established emission factor for these methods in Marfrig's annual GHG Inventory. The company continues to monitor and support the adoption of these practices, reinforcing its commitment to sustainability and the long-term resilience of its operations.

(5.11.7.10) O engajamento ajuda seus fornecedores de nível 1 a cumprir um requisito ambiental relacionado a essa questão ambiental

Selecione de:

Sim, especifique o requisito ambiental

(5.11.7.11) O engajamento está ajudando os fornecedores de nível 1 a se envolverem com seus fornecedores com relação à ação selecionada

Selecione de:

- Sim

Florestas

(5.11.7.1) *Commodity*

Selecione de:

- Produto florestal madeireiro

(5.11.7.2) Ação impulsionada pelo engajamento do fornecedor

Selecione de:

- Sem desmatamento e/ou conversão de outros ecossistemas naturais

(5.11.7.3) Tipo e detalhes do engajamento

Qualificação

- Desenvolver ou distribuir recursos sobre como mapear a cadeia de valor *upstream*

(5.11.7.4) Abrangência da cadeia de valor *upstream*

Selecione todos os aplicáveis

- Fornecedores da Camada 1

(5.11.7.5) Porcentagem de fornecedores de nível 1 por gastos com aquisição abrangidos pelo engajamento

Selecione de:

- 1-25%

(5.11.7.7) % de fornecedores de nível 1 com impactos significativos e/ou dependências relacionadas a essa questão ambiental coberta pelo engajamento

Selecione de:

Nenhum

(5.11.7.9) Descreva o engajamento da organização e explique o efeito desse engajamento na ação ambiental selecionada

Marfrig implements a comprehensive approach to engage suppliers of wood products, ensuring the sustainable and legal origin of raw materials used in its operations. The company enforces a Forestry Material Acquisition Policy with strict criteria for selecting suppliers, aiming to combat illegal deforestation and protect human rights and traditional populations. One key strategy involves requiring all paper and cardboard suppliers to be certified by the Forest Stewardship Council (FSC). This certification confirms that the raw materials come from sustainably managed forests, supporting environmental preservation and respecting local communities' rights. Another significant measure is the requirement for suppliers of firewood used in boilers to have Ibama's Forestry Origin Document (DOF), a mandatory license that ensures the traceability and legal origin of the wood. Marfrig also focuses on mapping the supply of wood products in areas at risk of illegal deforestation or other harmful environmental practices. This mapping helps identify potential vulnerabilities in the supply chain, allowing the company to take preventive actions to ensure sustainability and legal compliance. The development and use of supply chain mapping tools and questionnaires on social and environmental indicators are crucial in promoting sustainability and combating illegal deforestation. These tools enable Marfrig to trace the origin of wood products and verify their compliance with environmental commitments. The questionnaires help engage suppliers, providing valuable information about their practices and impacts, and encouraging them to adopt better practices. Through the implementation of the Forestry Material Acquisition Policy and the use of these tools, Marfrig ensures that its suppliers meet sustainability requirements and do not contribute to illegal deforestation. The company's proactive engagement has resulted in 100% of its cardboard and paper suppliers being FSC certified, guaranteeing the sustainable management of forests. Additionally, by purchasing only firewood with the DOF from Ibama, Marfrig ensures the wood's traceability and compliance with legal requirements for biomass use.

(5.11.7.10) O engajamento ajuda seus fornecedores de nível 1 a cumprir um requisito ambiental relacionado a essa questão ambiental

Selecione de:

Sim, especifique o requisito ambiental :no conversion and no deforestation of natural ecosystems.

(5.11.7.11) O engajamento está ajudando os fornecedores de nível 1 a se envolverem com seus fornecedores com relação à ação selecionada

Selecione de:

Desconhecido

Água

(5.11.7.2) Ação impulsionada pelo engajamento do fornecedor

Selecione de:

- Redução do volume total de captação de água

(5.11.7.3) Tipo e detalhes do engajamento

Qualificação

- Dar treinamento, suporte e boas práticas sobre como reduzir o impacto ambiental
- Dar suporte aos fornecedores para que definam seus próprios compromissos ambientais nas suas operações

Coleta de informações

- Coletar informações de riscos e oportunidades ambientais dos fornecedores, pelo menos anualmente

Inovação e colaboração

- Colaborar com os fornecedores em inovações para reduzir os impactos ambientais nos produtos e serviços
- Incentivar a gestão sustentável e colaborativa da água em bacias hidrográficas
- Investir em conjunto com os fornecedores em P&D sobre tecnologias de baixo carbono relevantes

(5.11.7.4) Abrangência da cadeia de valor <i>upstream</i>

Selecione todos os aplicáveis

- Fornecedores da Camada 1

(5.11.7.5) Porcentagem de fornecedores de nível 1 por gastos com aquisição abrangidos pelo engajamento

Selecione de:

- 100%

(5.11.7.7) % de fornecedores de nível 1 com impactos significativos e/ou dependências relacionadas a essa questão ambiental coberta pelo engajamento

Selecione de:

100%

(5.11.7.9) Descreva o engajamento da organização e explique o efeito desse engajamento na ação ambiental selecionada

Marfrig has been strongly engaged with its suppliers to promote the sustainable management of water resources. Through the Marfrig Club program and the "Environmental Respect" pillar, the company collaborates with suppliers on innovations aimed at reducing environmental impacts, focusing on water availability and treatment, with the aim of consolidating the environmental performance of livestock farmers and ensuring the quality of water resources around the farms. This program encourages practices such as rainwater harvesting, crop rotation, and accurate measurement of water consumption on farms. In addition, Marfrig encourages sustainable collaborative water management in river basins, promoting the rational use of water and the containment of rainwater to prevent erosion and improve soil infiltration. The company also collects information on environmental risks and opportunities from its suppliers annually, ensuring that water management practices are constantly monitored and optimized. Marfrig provides training, support and best practices to its suppliers to help them mitigate environmental impacts, with a special focus on preserving and optimizing water resources. The technical support offered by the company allows suppliers to establish their own environmental commitments related to water, contributing to the protection of water resources in the long term. The scope of this engagement is total, covering 100% of direct suppliers, which underscores the importance of these activities in Marfrig's sustainability strategy. By engaging all suppliers, Marfrig ensures that even the most vulnerable can improve their water management practices, guaranteeing water availability and quality. The results of this engagement are remarkable, with 19% of suppliers improving their ranking due to the adoption of more efficient water management practices. These results show that the program is effective not only in promoting water sustainability, but also in creating a culture of innovation and continuous improvement among suppliers, ensuring the preservation of water resources and strengthening Marfrig's value chain.

(5.11.7.10) O engajamento ajuda seus fornecedores de nível 1 a cumprir um requisito ambiental relacionado a essa questão ambiental

Selecione de:

Sim, especifique o requisito ambiental :

(5.11.7.11) O engajamento está ajudando os fornecedores de nível 1 a se envolverem com seus fornecedores com relação à ação selecionada

Selecione de:

Não, porque nossos fornecedores de nível 1 são produtores e não têm fornecedores de <i>commodities</i>

Plásticos

(5.11.7.2) Ação impulsionada pelo engajamento do fornecedor

Selecione de:

- Nenhum outro engajamento com fornecedores

Florestas

(5.11.7.2) Ação impulsionada pelo engajamento do fornecedor

Selecione de:

- Sem desmatamento e/ou conversão de outros ecossistemas naturais

(5.11.7.3) Tipo e detalhes do engajamento

Qualificação

- Dar treinamento, suporte e boas práticas sobre como reduzir o impacto ambiental

Coleta de informações

- Coletar informações sobre as metas pelo menos anualmente junto dos fornecedores

(5.11.7.4) Abrangência da cadeia de valor <i>upstream</i>

Selecione todos os aplicáveis

- Fornecedores da Camada 1

(5.11.7.5) Porcentagem de fornecedores de nível 1 por gastos com aquisição abrangidos pelo engajamento

Selecione de:

- 26-50%

(5.11.7.9) Descreva o engajamento da organização e explique o efeito desse engajamento na ação ambiental selecionada

Marfrig implements the "Marfrig Club" program, its main engagement initiative for direct cattle suppliers in Brazil. The program encourages good livestock practices, promoting sustainable rural development and ensuring safer production with reduced environmental impact. Covering animal welfare, environmental respect, and social responsibility, the program currently includes 100% of Marfrig's direct cattle suppliers, reflecting the company's commitment to engaging all its suppliers in adopting these practices. A key component of this engagement is the "Marfrig Verde" initiative, which supports suppliers in socio-environmental risk areas by

providing technical assistance to help regularize their farms. The company's socio-environmental risk map, covering the entire national territory as of 2022, including the Atlantic Forest biome, is a pioneering tool that prioritizes actions in cattle supply areas most exposed to risks. Marfrig also participates in the "Sustainable Calf" program, which targets small producers in the Vale do Rio Juruena region. This program focuses on regional development and strengthening local communities by investing in technical assistance to both direct and indirect suppliers, aiming at farm intensification, recovery, and regularization. To further support sustainable practices, Marfrig applies questionnaires to cattle suppliers to assess environmental and social indicators, covering aspects like animal welfare, legal compliance, environmental protection, and respect for human rights. The company uses the collected data to identify areas needing improvement and provides specific guidance and training to help suppliers adopt more sustainable practices. In addition, Marfrig has invested in advanced supply chain monitoring tools, including blockchain technology and geospatial data, to ensure accurate traceability of raw materials, such as beef, from the farm to the final product. These technologies help Marfrig guarantee that its meat comes from licensed areas that meet sustainability standards. Moreover, Marfrig co-created BIOMAS, a company focused on restoring and protecting 4 million hectares of native forests in various Brazilian biomes over 20 years. This initiative not only aims at environmental benefits but also seeks to stimulate regional development and support local communities.

(5.11.7.10) O engajamento ajuda seus fornecedores de nível 1 a cumprir um requisito ambiental relacionado a essa questão ambiental

Selecione de:

Sim, especifique o requisito ambiental :No conversion and no deforestation of natural ecosystems

(5.11.7.11) O engajamento está ajudando os fornecedores de nível 1 a se envolverem com seus fornecedores com relação à ação selecionada

Selecione de:

Sim

Florestas

(5.11.7.2) Ação impulsionada pelo engajamento do fornecedor

Selecione de:

Sem desmatamento e/ou conversão de outros ecossistemas naturais

(5.11.7.3) Tipo e detalhes do engajamento

Coleta de informações

Coletar informações sobre as metas pelo menos anualmente junto dos fornecedores

(5.11.7.4) Abrangência da cadeia de valor <i>upstream</i>

Selecione todos os aplicáveis

Fornecedores da Camada 1

(5.11.7.5) Porcentagem de fornecedores de nível 1 por gastos com aquisição abrangidos pelo engajamento

Selecione de:

1-25%

(5.11.7.9) Descreva o engajamento da organização e explique o efeito desse engajamento na ação ambiental selecionada

Marfrig Global Foods has implemented a strategic approach to engage its soy suppliers, aiming to ensure sustainability and socio-environmental responsibility throughout its value chain. The company partners with suppliers to verify that the soy it purchases is free from illegal deforestation or conversion of natural areas. This is achieved through the use of questionnaires on environmental and social indicators, ensuring that suppliers meet specific sustainability criteria. Marfrig has also developed tools for monitoring the supply chain, which allow the company to track the origin and quantity of soy used in its operations, ensuring compliance with legal and socio-environmental requirements, including the Soy Moratorium. The company works with a select group of key suppliers, such as ADM, BRF Ingredients, and IFF, who adhere to policies that prevent soy sourcing from deforested areas. These suppliers are committed to the Soy Moratorium in the Amazon and the Green Protocol for Grains in Pará, ensuring that the soy they provide meets Marfrig's strict socio-environmental standards. Marfrig views monitoring the soy supply chain as a shared responsibility and has developed purchasing policies that encourage suppliers to control the origin of their soy. The implementation of supply chain mapping tools has enhanced Marfrig's ability to trace the origin of soy and identify areas of environmental and social risk. This information has allowed the company to focus its engagement efforts on suppliers whose practices align more closely with its sustainability criteria. The use of questionnaires to assess soy suppliers' social and environmental indicators has proven effective in determining their compliance with Marfrig's requirements. A key example of the impact of this engagement strategy is Marfrig's partnership with companies like ADM, BRF Ingredients, and IFF, which follow policies for sourcing soy from non-deforested areas and align with the Soy Moratorium and the Green Protocol for Grains. Through these partnerships, Marfrig has encouraged the adoption of sustainable practices, ensuring that the soy supplied meets its strict socio-environmental criteria. This engagement has enabled Marfrig to work exclusively with key suppliers who respect its socio-environmental requirements and environmental legislation, providing greater security and confidence in the soy's origin.

(5.11.7.10) O engajamento ajuda seus fornecedores de nível 1 a cumprir um requisito ambiental relacionado a essa questão ambiental

Selecione de:

Sim, especifique o requisito ambiental :No conversion and no deforestation of natural ecosystems

(5.11.7.11) O engajamento está ajudando os fornecedores de nível 1 a se envolverem com seus fornecedores com relação à ação selecionada

Selecione de:

Desconhecido

[Adicionar linha]

(5.11.8) Dê detalhes de eventuais atividades de engajamento ambiental com pequenos produtores

Row 1

(5.11.8.1) <i>Commodity</i>

Selecione de:

Produtos da pecuária

(5.11.8.2) Tipo e detalhes da abordagem de engajamento com os pequenos produtores

Qualificação

Oferecer assistência técnica em campo e serviços de extensão

Oferecer treinamento, suporte e boas práticas sobre práticas agrícolas sustentáveis e gestão de nutrientes

Inovação e colaboração

Colaborar com os pequenos produtores em inovações para reduzir os impactos ambientais nos produtos e serviços

(5.11.8.3) Número de pequenos produtores engajados

3040

(5.11.8.4) Impacto do engajamento e medições de sucesso

In 2020, Marfrig launched Marfrig Verde, a program that aims to accelerate sustainability in the beef value chain, with a focus on producer inclusion. Through this initiative, we have established an action plan with the ultimate goal of achieving 100% deforestation-free supply chain by 2025. One of the pillars of Marfrig Verde is

the Technical Assistance Network for producers. Another initiative is our participation in the Sustainable Calf program, developed in the Amazon biome, with the aim of professionalizing small producers in the cattle breeding activity, the first phase of cattle production. By the end of 2023, there were 160 small producers in the Vale do Rio Juruena region (MT). Our formal participation in the program will be through investments of 1.75 million until 2025, with the objective of doubling the reach of benefited farms. At Marfrig, producers are classified as small, medium, or large based on the size of their farms. In 2023, approximately 40% of our suppliers were identified as small producers. To cater to these smaller producers, we offer specialized technical support, including the Guide to Sustainable Practices and field days covering not only sustainability but also topics such as animal welfare, environmental management, traceability, health, and productivity. We are committed to promoting sustainable development throughout our supply chain, fostering the adoption of responsible and conscious practices that contribute to the strengthening of the agricultural sector and the preservation of the environment. We believe that by providing this support to small producers, we can continuously improve agricultural practices, enhance product quality, and at the same time, ensure the conservation of natural resources, reaffirming our commitment to sustainability.

[Adicionar linha]

(5.11.9) Dê detalhes de eventuais atividades de engajamento ambiental com outras partes interessadas na cadeia de valor. [AINDA NÃO DISPONÍVEL]

Mudanças climáticas

(5.11.9.1) Tipo de parte interessada

Selecione de:

- Clientes

(5.11.9.2) Tipo e detalhes do engajamento

Compartilhamento de aprendizado/informações

- Realizar uma campanha de engajamento para instruir as partes interessadas sobre os impactos ambientais dos produtos, bens e/ou serviços
- Compartilhar informações sobre iniciativas ambientais, progressos e conquistas

Inovação e colaboração

- Alinhar os objetivos da organização para dar suporte às metas e ambições do cliente
- Engajar-se com as partes interessadas para defender mudanças nas políticas e regulamentos

(5.11.9.3) Porcentagem do tipo de parte interessada engajada

Selecione de:

76-99%

(5.11.9.4) Porcentagem das emissões de Escopo 3 associadas às partes interessadas

Selecione de:

76-99%

(5.11.9.5) Justificativa para engajar essas partes interessadas e escopo do engajamento

Marfrig, a prominent player in the beef industry, has been recognized by the CDP, in its 2022 report, with an A rating, for its sustainable practices and efforts to combat climate change. Marfrig has a public commitment to reducing greenhouse gas emissions, adopting science-backed targets and influencing its value chain to adopt sustainable production practices. This indicates its efforts to ensure that the protein it produces does not contribute to further environmental impacts. Reducing the volume of emissions by adopting intensification in livestock production is a point of attention, Marfrig is actively striving to reduce emissions by intensifying practices in its value chain that help increase the number of animal units per hectare. This involves implementing more efficient management techniques that allow for greater pasture production, reducing the need to open new areas. Marfrig proactively seeks to develop and promote products that have a minimal carbon footprint. This requires livestock farming with integrated management, whether in the Crop-Livestock-Forest (ILPF) or Crop-Livestock (ILP) consortium, techniques that allow a negative balance between animal emissions and the removal of pastures and other consortium items. With these actions, Marfrig demonstrates the viability of producing meat in a sustainable and financially profitable manner, while at the same time contributing positively to the fight against climate change.

(5.11.9.6) Impacto do engajamento e medições de sucesso

The world's largest producer of hamburgers and one of the largest producers of beef protein in the world, Marfrig, is recognized for its sustainable practices and efforts to combat climate change in the value chain. Below are some of the company's actions: Neutral Production: Products classified as Carbon Neutral Meat (CCN) are produced in integrated crop-livestock-forest systems with a negative balance between emissions and removals. Marfrig and Embrapa worked together to develop the CCN. Reinclusion of farms: Marfrig's Verde program allows it to reintegrate farms into its value chain. This includes technical assistance that the company provides to promote sustainable livestock practices in its value chain and ensure that its suppliers are in line with the company's sustainability objectives. In 2023, 1,267 farms were reintegrated with Marfrig suppliers. With these actions, the company demonstrates the viability of sustainable and profitable agricultural production, while helping to combat climate change.

Florestas

(5.11.9.1) Tipo de parte interessada

Selecione de:

Investidores e acionistas

(5.11.9.2) Tipo e detalhes do engajamento

Compartilhamento de aprendizado/informações

- Instruir e trabalhar com as partes interessadas na compreensão e na medição da exposição aos riscos ambientais
- Compartilhar informações sobre os produtos e esquemas de certificação relevantes da organização
- Compartilhar informações sobre iniciativas ambientais, progressos e conquistas

Inovação e colaboração

- Alinhar os objetivos da organização para dar suporte às metas e ambições do cliente
- Engajar-se com as partes interessadas para defender mudanças nas políticas e regulamentos

(5.11.9.3) Porcentagem do tipo de parte interessada engajada

Selecione de:

- 100%

(5.11.9.5) Justificativa para engajar essas partes interessadas e escopo do engajamento

We have achieved exceptional results in relation to the traceability of the supply chain, especially with respect to suppliers in biomes such as the Cerrado and the Amazon region. We have announced that the target of ensuring that 100% of our company's animal supply chain is to be sustainable, tracked and free from deforestation has been brought forward to 2025 for all biomes, including the purchase of animals for slaughter at our own units. We should stress, once again, that we are committed to a chain that is free from deforestation and land conversion¹. Through the Verde Program, we aim to contribute to accelerating the sustainability of livestock farming, minimizing the impacts of this activity on those biomes where there is a risk of deforestation. This is an objective that involves all our operations and we are therefore reinforcing our firm commitment to increasing our positive impacts and meeting the demands of our customers, investors and other stakeholders.

(5.11.9.6) Impacto do engajamento e medições de sucesso

In 2023, we announced that our target of ensuring that 100% of our production chain, covering all biomes, is sustainable, tracked and deforestation-free, had been brought forward to 2025. We made significant advances in the area considered to be most challenging within the sector - traceability. With 100% of the direct suppliers already monitored by satellite, in 2023 we achieved 85% coverage of indirect suppliers in the Amazon region and 71% in the Cerrado region, ensuring that the cattle purchased by the Company is not sourced from deforested areas, indigenous lands, or conservation units. We also hosted the 'Verde Livestock Farming: trends and opportunities' event, in São Paulo and London. This event showcased the results from the 1,000 days of implementing the Verde Program, with 1,200 attendees including experts, producers, suppliers, partners, investors, academia, banks and government representatives.

Água

(5.11.9.1) Tipo de parte interessada

Selecione de:

- Clientes

(5.11.9.2) Tipo e detalhes do engajamento

Compartilhamento de aprendizado/informações

- Compartilhar informações sobre os produtos e esquemas de certificação relevantes da organização
- Compartilhar informações sobre iniciativas ambientais, progressos e conquistas

Inovação e colaboração

- Engajar-se com as partes interessadas para defender mudanças nas políticas e regulamentos
- Incentivar a gestão sustentável e colaborativa da água em bacias hidrográficas

(5.11.9.3) Porcentagem do tipo de parte interessada engajada

Selecione de:

- 1-25%

(5.11.9.5) Justificativa para engajar essas partes interessadas e escopo do engajamento

One of Marfrig's visions is: "Grow along with our clientele, suppliers, and partners via innovative products while participating in the leading markets". To fulfill this vision, Marfrig is constantly improving ways to better understand and manage your water risks, as well as disclose your data so that your partners are always up to date, learning and sharing information together for mutual growth.

(5.11.9.6) Impacto do engajamento e medições de sucesso

Marfrig's engagement activities in water resource management have resulted in significant advances in protecting water security and resilience for both the organization and local communities. Participation in river basin committees, has enabled Marfrig to influence policies and actions that promote water sustainability in the regions where it operates. The success of these initiatives is measured by the number of policies influenced, meetings and events attended, and the positive impact on the water resilience of Marfrig's operating areas. These metrics reflect the company's commitment to sustainable water management and participatory collaboration for long-term environmental protection. In addition, Marfrig launched the "Prato do Amanhã" initiative, a Content Hub dedicated to ESG. This platform provides information on topics such as environmental preservation and sustainable practices in livestock farming, with a focus on water management. This initiative not only educates and engages stakeholders on the importance of water sustainability, but also strengthens Marfrig's relationship with its partners. The impact of the

“Plate of Tomorrow” initiative is measured by the dissemination of relevant information, increased engagement among stakeholders, and awareness of water management practices. The platform strengthens Marfrig’s commitment to innovation and sustainability, promoting practices that contribute to the efficient management of water resources.

Florestas

(5.11.9.1) Tipo de parte interessada

Selecione de:

- Clientes

(5.11.9.2) Tipo e detalhes do engajamento

Compartilhamento de aprendizado/informações

- Instruir e trabalhar com as partes interessadas na compreensão e na medição da exposição aos riscos ambientais
- Compartilhar informações sobre os produtos e esquemas de certificação relevantes da organização
- Compartilhar informações sobre iniciativas ambientais, progressos e conquistas

Inovação e colaboração

- Alinhar os objetivos da organização para dar suporte às metas e ambições do cliente
- Engajar-se com as partes interessadas para defender mudanças nas políticas e regulamentos

(5.11.9.3) Porcentagem do tipo de parte interessada engajada

Selecione de:

- 100%

(5.11.9.5) Justificativa para engajar essas partes interessadas e escopo do engajamento

We have achieved exceptional results in relation to the traceability of the supply chain, especially with respect to suppliers in biomes such as the Cerrado and the Amazon region. We have announced that the target of ensuring that 100% of our company’s animal supply chain is to be sustainable, tracked and free from deforestation has been brought forward to 2025 for all biomes, including the purchase of animals for slaughter at our own units. We should stress, once again, that we are committed to a chain that is free from deforestation and land conversion¹. Through the Verde Program, we aim to contribute to accelerating the sustainability of

livestock farming, minimizing the impacts of this activity on those biomes where there is a risk of deforestation. This is an objective that involves all our operations and we are therefore reinforcing our firm commitment to increasing our positive impacts and meeting the demands of our customers, investors and other stakeholders.

(5.11.9.6) Impacto do engajamento e medições de sucesso

In 2023, we announced that our target of ensuring that 100% of our production chain, covering all biomes, is sustainable, tracked and deforestation-free, had been brought forward to 2025. We made significant advances in the area considered to be most challenging within the sector - traceability. With 100% of the direct suppliers already monitored by satellite, in 2023 we achieved 85% coverage of indirect suppliers in the Amazon region and 71% in the Cerrado region, ensuring that the cattle purchased by the Company is not sourced from deforested areas, indigenous lands, or conservation units. We also hosted the 'Verde Livestock Farming: trends and opportunities' event, in São Paulo and London. This event showcased the results from the 1,000 days of implementing the Verde Program, with 1,200 attendees including experts, producers, suppliers, partners, investors, academia, banks and government representatives.

Florestas

(5.11.9.1) Tipo de parte interessada

Selecione de:

- Outras partes interessadas da cadeia de valor, especifique :Banks, academia, government representatives.

(5.11.9.2) Tipo e detalhes do engajamento

Compartilhamento de aprendizado/informações

- Instruir e trabalhar com as partes interessadas na compreensão e na medição da exposição aos riscos ambientais
- Compartilhar informações sobre os produtos e esquemas de certificação relevantes da organização
- Compartilhar informações sobre iniciativas ambientais, progressos e conquistas

Inovação e colaboração

- Alinhar os objetivos da organização para dar suporte às metas e ambições do cliente
- Engajar-se com as partes interessadas para defender mudanças nas políticas e regulamentos

(5.11.9.3) Porcentagem do tipo de parte interessada engajada

Selecione de:

- 100%

(5.11.9.5) Justificativa para engajar essas partes interessadas e escopo do engajamento

We have achieved exceptional results in relation to the traceability of the supply chain, especially with respect to suppliers in biomes such as the Cerrado and the Amazon region. We have announced that the target of ensuring that 100% of our company's animal supply chain is to be sustainable, tracked and free from deforestation has been brought forward to 2025 for all biomes, including the purchase of animals for slaughter at our own units. We should stress, once again, that we are committed to a chain that is free from deforestation and land conversion¹. Through the Verde Program, we aim to contribute to accelerating the sustainability of livestock farming, minimizing the impacts of this activity on those biomes where there is a risk of deforestation. This is an objective that involves all our operations and we are therefore reinforcing our firm commitment to increasing our positive impacts and meeting the demands of our customers, investors and other stakeholders.

(5.11.9.6) Impacto do engajamento e medições de sucesso

In 2023, we announced that our target of ensuring that 100% of our production chain, covering all biomes, is sustainable, tracked and deforestation-free, had been brought forward to 2025. We made significant advances in the area considered to be most challenging within the sector - traceability. With 100% of the direct suppliers already monitored by satellite, in 2023 we achieved 85% coverage of indirect suppliers in the Amazon region and 71% in the Cerrado region, ensuring that the cattle purchased by the Company is not sourced from deforested areas, indigenous lands, or conservation units. We also hosted the 'Verde Livestock Farming: trends and opportunities' event, in São Paulo and London. This event showcased the results from the 1,000 days of implementing the Verde Program, with 1,200 attendees including experts, producers, suppliers, partners, investors, academia, banks and government representatives.

[Adicionar linha]

(5.12) Indique eventuais iniciativas ambientais mutuamente benéficas na qual a organização pode colaborar com membros específicos do programa Supply Chain do CDP.

Row 1

(5.12.1) Membro solicitante

Selecione de:

(5.12.2) Questões ambientais com que a iniciativa se relaciona

Selecione todos os aplicáveis

- Mudanças climáticas
- Água

(5.12.4) Categoria e tipo de iniciativa

Mudança nas operações do fornecedor

- Aumento na proporção da energia renovável adquirida

(5.12.5) Detalhes da iniciativa

Most of the emissions from Scope 1 production units refer to the treatment of industrial effluents in the operating units. The installation of biodigester with flares to capture and burn the generated gases has great potential to reduce GHG emissions associated with this source. Marfrig has been considering the possibility of installing new biodigesters in its operating units, with the ability to use the heat generated in the boilers, or what seems to be more viable today, the generation of electricity from this gas to provide part of the electricity consumed in the operating units. The completion of the project would reduce our Scope 1 emissions, and would result in a reduction in Scope 3 emissions for the customer, related to the purchase of raw materials, since the raw material generated by Marfrig would have lower GHG emissions associated with it. to your production. In this way, the customer would be supporting initiatives to reduce GHG emissions along the value chain of its products. Also, if electricity generation occurs from flare gas flaring, Marfrig's Scope 2 emissions can be reduced, since the electricity generated would supply the operating unit itself, reducing the demand for electricity from the company. network. The CO2e savings related to this project were estimated based on the Promissão production unit and its emissions by the treatment of liquid effluents. The presence of forest cover helps to maintain water quality in water bodies in regions with agricultural and livestock activities. At the same time, the recovery and enrichment of existing forests can provide a faster response for the protection of surface waters. Forests can assist in maintaining the natural quality of surface water, providing ecosystem services for regulation and provision of this resource. The presence of forest vegetation in the riparian area can reduce these effects, through the provision of some services for the protection of water bodies. In this sense, it is possible to develop projects that aim at the requalification of local hydrographic basins regarding the level of water stress, based on the forest restoration of areas of relevance to the ecosystem services provided.

(5.12.6) Benefícios esperados

Selecione todos os aplicáveis

- Melhor qualidade da água
- Redução das emissões operacionais próprias (Escopos 1 e 2 próprios)

(5.12.7) Prazo estimado para a realização dos benefícios

Selecione de:

- 1-3 anos

(5.12.8) É possível estimar as economias de CO2e e/ou de água desta iniciativa no seu tempo de duração?

Selecione de:

- Sim somente as economias de CO2e no tempo de duração

(5.12.9) Economia de CO2 estimada no tempo de duração

72127.83

(5.12.11) Explique

Para calcular a economia de CO2e associada aos biodigestores e à recuperação de florestas, são utilizados métodos do IPCC AR5. Para os biodigestores, calcula-se a redução de emissões de metano capturado e queimado, substituindo a emissão direta de metano. O cálculo também considera a economia de emissões de Scope 2 ao gerar eletricidade internamente a partir do gás, em vez de depender da rede elétrica.

[Adicionar linha]

(5.13) A organização já implementou alguma iniciativa ambiental mutuamente benéfica devido ao engajamento com um membro do programa Supply Chain do CDP?

(5.13.1) Iniciativas ambientais implementadas devido ao engajamento com um membro do programa Supply Chain do CDP

Selecione de:

Não, mas planejamos fazê-lo nos próximos dois anos

(5.13.2) Razão principal para não se implementarem iniciativas ambientais

Selecione de:

Outro, especifique :in development of an initiative

(5.13.3) Explique por que a organização não implementou nenhuma iniciativa ambiental

An initiative is under development to produce a product with low GHG emissions. The product, in the development process, is based on Embrapa - Low Carbon Product and Carbon Neutral Product.

[Linha fixa]

C6. Desempenho ambiental - Método de consolidação

(6.1) Forneça detalhes sobre o método de consolidação escolhido para o cálculo dos dados de desempenho ambiental.

Mudanças climáticas

(6.1.1) Método de consolidação usado

Selecione de:

Controle operacional

(6.1.2) Forneça a justificativa para a escolha do método de consolidação

Marfrig reports its environmental performance data based on operational control, as it has full authority to establish or apply its operational policies in each of its operating plants and other facilities.

Florestas

(6.1.1) Método de consolidação usado

Selecione de:

Controle operacional

(6.1.2) Forneça a justificativa para a escolha do método de consolidação

Marfrig reports its environmental performance data based on operational control, as it has full authority to establish or apply its operational policies in each of its operating plants and other facilities.

Água

(6.1.1) Método de consolidação usado

Selecione de:

- Controle operacional

(6.1.2) Forneça a justificativa para a escolha do método de consolidação

Marfrig reports its environmental performance data based on operational control, as it has full authority to establish or apply its operational policies in each of its operating plants and other facilities.

Plásticos

(6.1.1) Método de consolidação usado

Selecione de:

- Controle operacional

(6.1.2) Forneça a justificativa para a escolha do método de consolidação

Marfrig reports its environmental performance data based on operational control, as it has full authority to establish or apply its operational policies in each of its operating plants and other facilities.

Biodiversidade

(6.1.1) Método de consolidação usado

Selecione de:

- Controle operacional

(6.1.2) Forneça a justificativa para a escolha do método de consolidação

Marfrig reports its environmental performance data based on operational control, as it has full authority to establish or apply its operational policies in each of its operating plants and other facilities.

[Linha fixa]

C7. Desempenho ambiental – Mudanças climáticas

(7.1) Este é o primeiro ano de reporte de dados de emissões da organização ao CDP?

Selecione de:

Não

(7.1.1) A organização passou por alguma mudança estrutural no ano de reporte, ou há alguma mudança estrutural prévia sendo representada neste reporte de dados de emissões?

| | |
|--|--|
| | Houve alguma mudança estrutural? |
| | Selecione todos os aplicáveis <input checked="" type="checkbox"/> Não |

[Linha fixa]

(7.1.2) A metodologia de contabilização das emissões, os limites e/ou a definição do ano de reporte foram alterados no ano de reporte?

| | |
|--|---|
| | Alteração(ões) na metodologia, nos limites e/ou na definição do ano de reporte? |
| | Selecione todos os aplicáveis <input checked="" type="checkbox"/> Não |

[Linha fixa]

(7.2) Selecione o nome da norma, do protocolo ou da metodologia usado/a para coletar os dados das atividades e calcular as emissões.

Selecione todos os aplicáveis

- ISO 14064-1
- Programa do GHG Protocol Brasil
- The Greenhouse Gas Protocol: Orientações sobre o Escopo 2
- IPCC Guidelines for National Greenhouse Gas Inventories, 2006
- The Greenhouse Gas Protocol: Corporate Value Chain (Scope 3) Standard
- The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)
- Defra Environmental Reporting Guidelines: Including streamlined energy and carbon reporting guidance, 2019

(7.3) Descreva o método usado para reportar as emissões de Escopo 2 de sua organização.

| | Escopo 2, com base na localização | Escopo 2, com base no mercado | Explique |
|--|---|---|---|
| | <i>Selecione de:</i> <input checked="" type="checkbox"/> Estamos divulgando um valor de Escopo 2 com base na localização | <i>Selecione de:</i> <input checked="" type="checkbox"/> Estamos divulgando um valor de Escopo 2 com base no mercado | <i>Marfrig has operating units that use energy from renewable sources and reports Scope 2 based on location and the market.</i> |

[Linha fixa]

(7.4) Existem fontes (por ex., instalações, GEEs específicos, atividades, regiões etc.) de emissões de Escopo 1, Escopo 2 ou Escopo 3 que estejam dentro dos limites de reporte selecionados, mas que não estão incluídas na divulgação?

Selecione de:

- Não

(7.5) Informe o ano-base e as emissões do ano-base.

Escopo 1

(7.5.1) Fim do ano-base

12/31/2019

(7.5.2) Emissões do ano-base (toneladas métricas de CO2e)

454820.0

(7.5.3) Detalhes metodológicos

Scope 1 is composed of the following categories: Stationary combustion: fuel consumption in boilers, generators and other fixed sources; Mobile combustion: fuel consumption in owned or leased vehicles; Fugitive emissions: recharging of refrigerant gases and CO2 extinguishers; Industrial process: use of CO2 in the process; Agricultural activities: cattle confinement based on enteric fermentation and waste management; Effluents: anaerobic treatment of effluents in the plants themselves. Measurement method: consumption notes for the respective fuels belonging to the company's energy matrix are considered based on controls performed in systems and issuance of fuel purchase invoices, as well as consumption measurements in equipment; the number of confined animals is controlled and emissions per head slaughtered are estimated; emissions are measured based on BOD generation. Emission Factors: the EF of each fuel consumed is used from the bibliographical references in accordance with the GHG Protocol (National Energy Balance of Brazil, DEFRA, EPA); 2006 IPCC Guidelines for National Greenhouse Gas Inventories Volume 5 Waste Chapter 6.

Escopo 2 (com base na localização)

(7.5.1) Fim do ano-base

12/31/2019

(7.5.2) Emissões do ano-base (toneladas métricas de CO2e)

218262.0

(7.5.3) Detalhes metodológicos

Scope 2 emissions include emissions associated with the use of electricity for lighting, heating and cooling buildings, and for the operation of machinery and equipment in industrial processes. The electricity consumption notes provided by the concessionaire with which Marfrig has a contract to purchase the electricity generated are considered. Each operational unit has control of the notes from a specific energy team within the company. The average emission factors of the national energy system of each location where the operational unit is located are used. The EF are made available by government agencies periodically.

Escopo 2 (com base no mercado)

(7.5.1) Fim do ano-base

12/31/2019

(7.5.2) Emissões do ano-base (toneladas métricas de CO2e)

179184.0

(7.5.3) Detalhes metodológicos

Scope 2 emissions include emissions associated with the use of electricity for lighting, heating and cooling buildings, and for the operation of machinery and equipment in industrial processes. The electricity consumption notes provided by the concessionaire with which Marfrig has a contract to purchase the electricity generated are considered. Each operating unit has control of the notes from a specific energy team within the company. The emission factors used are based on the generating source and no longer the FE related to the national system of each operating unit. The purchases of I-RECs are considered.

Escopo 3, categoria 1: Bens e serviços adquiridos

(7.5.1) Fim do ano-base

12/31/2019

(7.5.2) Emissões do ano-base (toneladas métricas de CO2e)

31481468.0

(7.5.3) Detalhes metodológicos

The Purchased Goods and Services category is the main category of emissions in Marfrig's GHG inventory, representing more than 90% of its total emissions, and is calculated according to the methodology "The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)". This category is composed of three emission sources: purchase of cattle from third parties (cattle slaughter), purchase of food inputs from third parties and purchase of prepared meat

from third parties. The purchase of cattle is the most representative source in this category and is the target of the reduction target approved by Science Based Targets. The methodology for calculating these emission sources is based on IPCC methodologies, accessing global emission factors constructed by Marfrig based on bibliographical references in accordance with the GHG Protocol. For the source "purchase of cattle", CH4 and N2O emissions from enteric fermentation processes and manure management are calculated according to FE (sources: "THIRD BRAZILIAN INVENTORY OF ANTHROPIC GREENHOUSE GAS EMISSIONS - METHANE EMISSIONS BY ENTERIC FERMENTATION AND ANIMAL WASTE MANAGEMENT" and "Inventory of US Greenhouse Gas Emissions and Sinks: 1990-2018") based on animal dentition - determining the age of these animals: toothless 0 to 17 months 2 teeth 18 to 24 months 4 teeth 25 to 30 months 6 teeth 31 to 42 months 8 teeth more than 42 months. Activity data is collected and monitored through the ARCA Sustainability system. The emission source "purchased processed meat" is calculated according to the type of meat purchased from third parties (beef, pork, fish, lamb, poultry) and the EFs take into account enteric fermentation and the management of its residues from the FAO reference (2017). For the emission source of purchase of food inputs, the emissions associated with inputs of soybean hulls, soybean meal, hay, corn grain, etc. are calculated, based on the Brazilian Agricultural Yearbook. Marfrig's GHG Inventory was verified by a third party, verifying the veracity of the data and application of the principles of the GHG Protocol methodology.

Escopo 3, categoria 2: Bens de capital

(7.5.1) Fim do ano-base

12/31/2019

(7.5.2) Emissões do ano-base (toneladas métricas de CO2e)

0

(7.5.3) Detalhes metodológicos

N/A

Escopo 3, categoria 3: Atividades relacionadas a combustível e energia (não incluídas no Escopo 1 ou 2)

(7.5.1) Fim do ano-base

12/31/2019

(7.5.2) Emissões do ano-base (toneladas métricas de CO2e)

41959.0

(7.5.3) Detalhes metodológicos

Within Marfrig's operations, the "Well-to-tank" category relates to greenhouse gas emissions from activities related to fuel and energy that occur outside the company's scopes 1 and 2. This includes emissions generated during the extraction, production, processing, transportation and distribution of fuels used by Marfrig in its operations, such as diesel, natural gas and other fuels. When considering Scope 3 emissions, Marfrig needs to take into account the complete life cycle of these fuels, from their origin (well, mine, plant) to the moment they are used in the company's operations. As part of our commitment to sustainability, we are constantly looking to improve and refine the emission factors used in our calculations. We recognize that data related to these factors can be improved over the years. By improving our emission factors, we can gain a more accurate and informed view of our environmental impact, enabling us to take more effective action to reduce our emissions and contribute to a more sustainable future. Therefore, the "Well-to-tank" category in Marfrig's operations and emissions refers to greenhouse gas emissions associated with the supply and distribution of fuels used by the company, which occur outside the scope limits 1 (direct emissions) and 2 (indirect emissions from purchased energy).

Escopo 3, categoria 4: Transporte e distribuição <i>upstream</i>

(7.5.1) Fim do ano-base

12/31/2019

(7.5.2) Emissões do ano-base (toneladas métricas de CO2e)

100331.0

(7.5.3) Detalhes metodológicos

Activity data are collected and monitored through the ARCA Sustentabilidade system and the emissions are calculated using the methodology "The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)" and IPCC Guidelines for National Greenhouse Gas Inventories, 2006. The Emission Factors were based, in general, on the 2006 IPCC guidelines, and only Brazil had country-specific calculations (and factors) according to the Brazilian GHG Protocol guidelines. The upstream transport and distribution category is made up of six emission sources divided into two groups – road and rail transport. The sources of emission from road transport are composed of distribution logistics in Brazil, export logistics, third-party vehicles used by operating units, transport of inputs and raw materials and transport of live cargo. Data is collected by Marfrig from service providers and the fuel consumption emission EFs are applied to each of the vehicles used (light, medium, heavy). The source of emission from rail transport is made up of export logistics that take place from the operational units in Brazil. The EFs provided by the GHG Protocol Brazil is used based on the cargo transported and the route traveled. Marfrig's GHG Inventory was verified by a third party, verifying the veracity of the data and application of the principles of the GHG Protocol methodology.

Escopo 3, categoria 5: Resíduos gerados nas operações

(7.5.1) Fim do ano-base

12/31/2019

(7.5.2) Emissões do ano-base (toneladas métricas de CO2e)

77438.0

(7.5.3) Detalhes metodológicos

Activity data is collected and monitored through the ARCA Sustentabilidade system, and emissions are calculated using the methodology "The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)" and the IPCC Guidelines for National Gas Inventories Greenhouse Effect, 2006. Four emission sources are considered in this category for solid waste according to destination: sanitary landfill, composting, co-processing and incineration. Waste destined for Landfill: calculates the emissions from the anaerobic decomposition of waste generated by the company's operations and sent to third-party landfills, including domestic waste (common), hazardous waste and sludge. Composting: calculates emissions from anaerobic decomposition of organic waste diverted from the landfill and sent for composting. Conservatively, even though the decomposition process can last about 30 years, all emissions from these processes were considered in the year in which the waste was generated. Co-processing and Incineration: calculates the emissions caused by the process of the referred destination. Marfrig's GHG Inventory was verified by a third party, verifying the veracity of the data and application of the principles of the GHG Protocol methodology.

Escopo 3, categoria 6: Viagens de negócios

(7.5.1) Fim do ano-base

12/31/2019

(7.5.2) Emissões do ano-base (toneladas métricas de CO2e)

1467.0

(7.5.3) Detalhes metodológicos

Activity data is collected and monitored through the ARCA Sustainability system, and emissions are calculated using the methodology "The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)" and IPCC Guidelines for National Greenhouse Gas Inventories Greenhouse, 2006. In this category, the source of air travel is considered. Emissions come from the combustion of fuel on business air trips made by Marfrig employees. For the calculation, all trips made by Marfrig employees and the distances traveled are obtained, based on the departure and arrival airports. Marfrig's GHG Inventory was verified by a third party, verifying the veracity of the data and application of the principles of the GHG Protocol.

Escopo 3, categoria 7: Deslocamentos diários dos funcionários para/do trabalho

(7.5.1) Fim do ano-base

12/31/2019

(7.5.2) Emissões do ano-base (toneladas métricas de CO2e)

12168.0

(7.5.3) Detalhes metodológicos

Activity data are collected and monitored through the ARCA Sustentabilidade system, and the emissions are calculated using the methodology "The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)" and IPCC Guidelines for National Greenhouse Gas Inventories, 2006. Local factors of the Brazilian GHG Protocol were used in Brazil. One Emission Source is considered in this category - Chartered bus (outsourced): calculates the emissions from fuel combustion in the buses used for the daily commute of Marfrig employees. Marfrig's GHG Inventory was verified by a third party, verifying the veracity of the data and application of the principles of the GHG Protocol methodology.

Escopo 3, categoria 8: Ativos arrendados <i>upstream</i>

(7.5.1) Fim do ano-base

12/31/2019

(7.5.2) Emissões do ano-base (toneladas métricas de CO2e)

0

(7.5.3) Detalhes metodológicos

Marfrig chose not to use upstream leased assets in its operations as part of its business strategy. Instead, the company chose to own its own assets or utilize other forms of partnerships or commercial agreements. Marfrig establishes direct agreements with raw material suppliers or producers, eliminating the need to resort to upstream leased assets to meet its demands. Marfrig assessed that the acquisition or leasing of upstream assets would not bring significant benefits in terms of cost, efficiency or operational control, compared to other available options.

Escopo 3, categoria 9: Transporte e distribuição <i>downstream</i>

(7.5.1) Fim do ano-base

12/31/2019

(7.5.2) Emissões do ano-base (toneladas métricas de CO2e)

34795.0

(7.5.3) Detalhes metodológicos

Activity data are collected and monitored through the ARCA Sustentabilidade system and the emissions are calculated using the methodology "The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)" and IPCC Guidelines for National Greenhouse Gas Inventories, 2006. The Emission Factors were based, in general, on the 2006 IPCC guidelines, and only Brazil had country-specific calculations (and factors) according to the Brazilian GHG Protocol guidelines. Data is collected by Marfrig from service providers and the fuel consumption emission EFs are applied to each of the vehicles used (light, medium, heavy). This category ceased to exist as of subsequent inventories, since Marfrig only has logistics contracts in the CIF model accounted for in the GHG inventory.

Escopo 3, categoria 10: Processamento de produtos vendidos

(7.5.1) Fim do ano-base

12/31/2019

(7.5.2) Emissões do ano-base (toneladas métricas de CO2e)

0

(7.5.3) Detalhes metodológicos

N/A

Escopo 3, categoria 11: Uso de produtos vendidos

(7.5.1) Fim do ano-base

12/31/2019

(7.5.2) Emissões do ano-base (toneladas métricas de CO2e)

0

(7.5.3) Detalhes metodológicos

N/A

Escopo 3, categoria 12: Tratamento de produtos vendidos ao final de sua vida útil

(7.5.1) Fim do ano-base

12/31/2019

(7.5.2) Emissões do ano-base (toneladas métricas de CO2e)

877514

(7.5.3) Detalhes metodológicos

The category of treatment of products sold at the end of their useful life at Marfrig refers to the practices and procedures adopted by the company to deal with the waste generated from the products sold. This category covers both food waste resulting from beef not consumed by the end customer and the packaging used in the products. For food waste, it is considered that 20% of the beef sold is wasted by the final consumer. This waste is sent to a sanitary landfill, where it is disposed of properly. The composition of these residues is considered 100% organic, as they come from food. As for packaging, 2% of the weight of products sold corresponds to packaging. Of the packages used, 20% are cardboard and 80% are plastic. All packaging is sent to landfill after use, following appropriate final disposal practices.

Escopo 3, categoria 13: Ativos arrendados <i>downstream</i>

(7.5.1) Fim do ano-base

12/31/2019

(7.5.2) Emissões do ano-base (toneladas métricas de CO2e)

0

(7.5.3) Detalhes metodológicos

N/A

Escopo 3, categoria 14: Franquias

(7.5.1) Fim do ano-base

12/31/2019

(7.5.2) Emissões do ano-base (toneladas métricas de CO2e)

0

(7.5.3) Detalhes metodológicos

N/A

Escopo 3, categoria 15: Investimentos

(7.5.1) Fim do ano-base

12/31/2019

(7.5.2) Emissões do ano-base (toneladas métricas de CO2e)

0

(7.5.3) Detalhes metodológicos

N/A

Escopo 3: Outros (<i>upstream</i>)

(7.5.1) Fim do ano-base

12/31/2019

(7.5.2) Emissões do ano-base (toneladas métricas de CO2e)

0

(7.5.3) Detalhes metodológicos

N/A

Escopo 3: Outros (<i>downstream</i>)

(7.5.1) Fim do ano-base

12/31/2019

(7.5.2) Emissões do ano-base (toneladas métricas de CO2e)

0

(7.5.3) Detalhes metodológicos

N/A

[Linha fixa]

(7.6) Qual foi o total de emissões brutas de Escopo 1 da organização, em toneladas métricas de CO2e?

Ano de reporte

(7.6.1) Emissões brutas de Escopo 1 (toneladas métricas de CO2e)

320639.923

(7.6.3) Detalhes metodológicos

Scope 1 is composed of the following categories: Stationary combustion: fuel consumption in boilers, generators and other fixed sources; Mobile combustion: fuel consumption in owned or leased vehicles; Fugitive emissions: recharging of refrigerant gases and CO2 extinguishers; Industrial process: use of CO2 in the process; Agricultural activities: cattle confinement based on enteric fermentation and waste management; Effluents: anaerobic treatment of effluents in the plants themselves. Measurement method: consumption notes for the respective fuels belonging to the company's energy matrix are considered based on controls performed in systems

and issuance of fuel purchase invoices, as well as consumption measurements in equipment; the number of confined animals is controlled and emissions per head slaughtered are estimated; emissions are measured based on BOD generation. Emission Factors: the EF of each fuel consumed is used from the bibliographical references in accordance with the GHG Protocol (National Energy Balance of Brazil, DEFRA, EPA); 2006 IPCC Guidelines for National Greenhouse Gas Inventories Volume 5 Waste Chapter 6.

[Linha fixa]

(7.7) Qual foi o total de emissões brutas de Escopo 2 da organização, em toneladas métricas de CO2e?

Ano de reporte

(7.7.1) Escopo global bruto 2, emissões com base na localização (toneladas métricas de CO2e)

186824.19

(7.7.2) Escopo global bruto 2, emissões com base no mercado (toneladas métricas de CO2e) (se aplicável)

174563.677

(7.7.4) Detalhes metodológicos

Scope 2 emissions include emissions associated with the use of electricity for lighting, heating and cooling buildings, and for the operation of machinery and equipment in industrial processes. The electricity consumption notes provided by the concessionaire with which Marfrig has a contract to purchase the electricity generated are considered. Each operational unit has control of the notes from a specific energy team within the company. The average emission factors of the national energy system of each location where the operational unit is located are used. The EF are made available by government agencies periodically.

[Linha fixa]

(7.8) Explique as emissões globais brutas de Escopo 3 da organização, divulgando e explicando eventuais exclusões.

Bens e serviços adquiridos

(7.8.1) Status da avaliação

Selecione de:

Relevante, calculadas

(7.8.2) Emissões no ano de reporte (toneladas métricas de CO2e)

27533816.449

(7.8.3) Metodologia de cálculo das emissões

Selecione todos os aplicáveis

Metodologia para as emissões da fase de uso indireto, especifique :Heads slaughtered

(7.8.4) Porcentagem de emissões calculada utilizando-se dados obtidos de fornecedores ou parceiros da cadeia de valor

100

(7.8.5) Explique

The Purchased Goods and Services category is the main category of emissions in Marfrig's GHG inventory, representing more than 90% of its total emissions, and is calculated according to the methodology "The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)". This category is composed of three emission sources: purchase of cattle from third parties (cattle slaughter), purchase of food inputs from third parties and purchase of prepared meat from third parties. The purchase of cattle is the most representative source in this category and is the target of the reduction target approved by Science Based Targets. The methodology for calculating these emission sources is based on IPCC methodologies, accessing global emission factors constructed by Marfrig based on bibliographical references in accordance with the GHG Protocol. For the source "purchase of cattle", CH4 and N2O emissions from enteric fermentation processes and manure management are calculated according to FE (sources: "THIRD BRAZILIAN INVENTORY OF ANTHROPIC GREENHOUSE GAS EMISSIONS - METHANE EMISSIONS BY ENTERIC FERMENTATION AND ANIMAL WASTE MANAGEMENT" and "Inventory of US Greenhouse Gas Emissions and Sinks: 1990-2018") based on animal dentition - determining the age of these animals: toothless 0 to 17 months 2 teeth 18 to 24 months 4 teeth 25 to 30 months 6 teeth 31 to 42 months 8 teeth more than 42 months. Activity data is collected and monitored through the ARCA Sustainability system. The emission source "purchased processed meat" is calculated according to the type of meat purchased from third parties (beef, pork, fish, lamb, poultry) and the EFs take into account enteric fermentation and the management of its residues from the FAO reference (2017). For the emission source of purchase of food inputs, the emissions associated with inputs of soybean hulls, soybean meal, hay, corn grain, etc. are calculated, based on the Brazilian Agricultural Yearbook. Marfrig's GHG Inventory was verified by a third party, verifying the veracity of the data and application of the principles of the GHG Protocol methodology.

Bens de capital

(7.8.1) Status da avaliação

Selecione de:

Não relevante, explicação fornecida

(7.8.5) Explique

Based on the information provided, the reason why Marfrig does not calculate emissions from "capital assets" is due to the company's lack of significant influence over these emissions over the life cycle of these assets. Marfrig focuses its efforts on managing emissions associated with purchased goods, where it has the possibility of acting more directly, especially with regard to animals and meat. Furthermore, compared to emissions from purchased assets, emissions from the company's capital assets would be negligible, that is, they would represent a very small portion of the company's total emissions. Therefore, prioritizing the calculation and management of emissions from purchased goods is more relevant and effective in terms of environmental impact. It is important to emphasize that Marfrig's Greenhouse Gases (GHG) Inventory was verified by a third party, guaranteeing the veracity of the data and the application of the principles of the GHG Protocol methodology, which is an international reference for accounting and reporting emissions of greenhouse gases.

Atividades relacionadas a combustível e energia (não incluídas no Escopo 1 ou 2)

(7.8.1) Status da avaliação

Selecione de:

Relevante, calculadas

(7.8.2) Emissões no ano de reporte (toneladas métricas de CO₂e)

25468.693

(7.8.3) Metodologia de cálculo das emissões

Selecione todos os aplicáveis

Método baseado no combustível

(7.8.4) Porcentagem de emissões calculada utilizando-se dados obtidos de fornecedores ou parceiros da cadeia de valor

0

(7.8.5) Explique

Within Marfrig's operations, the "Well-to-tank" category relates to greenhouse gas emissions from activities related to fuel and energy that occur outside the company's scopes 1 and 2. This includes emissions generated during the extraction, production, processing, transportation and distribution of fuels used by Marfrig in its operations, such as diesel, natural gas and other fuels. When considering Scope 3 emissions, Marfrig needs to take into account the complete life cycle of these fuels, from their origin (well, mine, plant) to the moment they are used in the company's operations. As part of our commitment to sustainability, we are constantly

looking to improve and refine the emission factors used in our calculations. We recognize that data related to these factors can be improved over the years. By improving our emission factors, we can gain a more accurate and informed view of our environmental impact, enabling us to take more effective action to reduce our emissions and contribute to a more sustainable future. Therefore, the "Well-to-tank" category in Marfrig's operations and emissions refers to greenhouse gas emissions associated with the supply and distribution of fuels used by the company, which occur outside the scope limits 1 (direct emissions) and 2 (indirect emissions from purchased energy).

Transporte e distribuição <i>upstream</i>

(7.8.1) Status da avaliação

Selecione de:

Relevante, calculadas

(7.8.2) Emissões no ano de reporte (toneladas métricas de CO2e)

63190.424

(7.8.3) Metodologia de cálculo das emissões

Selecione todos os aplicáveis

Método baseado no combustível

Método baseado na distância

(7.8.4) Porcentagem de emissões calculada utilizando-se dados obtidos de fornecedores ou parceiros da cadeia de valor

100

(7.8.5) Explique

Activity data are collected and monitored through the ARCA Sustentabilidade system and the emissions are calculated using the methodology "The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)" and IPCC Guidelines for National Greenhouse Gas Inventories, 2006. The Emission Factors were based, in general, on the 2006 IPCC guidelines, and only Brazil had country-specific calculations (and factors) according to the Brazilian GHG Protocol guidelines. The upstream transport and distribution category is made up of six emission sources divided into two groups – road and rail transport. The sources of emission from road transport are composed of distribution logistics in Brazil, export logistics, third-party vehicles used by operating units, transport of inputs and raw materials and transport of live cargo. Data is collected by Marfrig from service providers and the fuel consumption emission EFs are applied to each of the vehicles used (light, medium, heavy). The source of emission from rail transport is made up of export logistics that take place from the operational units in Brazil. The EFs

provided by the GHG Protocol Brazil is used based on the cargo transported and the route traveled. Marfrig's GHG Inventory was verified by a third party, verifying the veracity of the data and application of the principles of the GHG Protocol methodology.

Resíduos gerados nas operações

(7.8.1) Status da avaliação

Selecione de:

Relevante, calculadas

(7.8.2) Emissões no ano de reporte (toneladas métricas de CO2e)

65425.54

(7.8.3) Metodologia de cálculo das emissões

Selecione todos os aplicáveis

Método específico por tipo de resíduos

(7.8.4) Porcentagem de emissões calculada utilizando-se dados obtidos de fornecedores ou parceiros da cadeia de valor

0

(7.8.5) Explique

Activity data is collected and monitored through the ARCA Sustentabilidade system, and emissions are calculated using the methodology "The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)" and the IPCC Guidelines for National Gas Inventories Greenhouse Effect, 2006. Four emission sources are considered in this category for solid waste according to destination: sanitary landfill, composting, co-processing and incineration. Waste destined for Landfill: calculates the emissions from the anaerobic decomposition of waste generated by the company's operations and sent to third-party landfills, including domestic waste (common), hazardous waste and sludge. Composting: calculates emissions from anaerobic decomposition of organic waste diverted from the landfill and sent for composting. Conservatively, even though the decomposition process can last about 30 years, all emissions from these processes were considered in the year in which the waste was generated. Co-processing and Incineration: calculates the emissions caused by the process of the referred destination. Marfrig's GHG Inventory was verified by a third party, verifying the veracity of the data and application of the principles of the GHG Protocol methodology.

Viagens de negócios

(7.8.1) Status da avaliação

Selecione de:

Relevante, calculadas

(7.8.2) Emissões no ano de reporte (toneladas métricas de CO2e)

1537.087

(7.8.3) Metodologia de cálculo das emissões

Selecione todos os aplicáveis

Método baseado na distância

(7.8.4) Porcentagem de emissões calculada utilizando-se dados obtidos de fornecedores ou parceiros da cadeia de valor

100

(7.8.5) Explique

Activity data is collected and monitored through the ARCA Sustainability system, and emissions are calculated using the methodology "The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)" and IPCC Guidelines for National Greenhouse Gas Inventories Greenhouse, 2006. In this category, the source of air travel is considered. Emissions come from the combustion of fuel on business air trips made by Marfrig employees. For the calculation, all trips made by Marfrig employees and the distances traveled are obtained, based on the departure and arrival airports. Marfrig's GHG Inventory was verified by a third party, verifying the veracity of the data and application of the principles of the GHG Protocol.

Deslocamentos diários dos funcionários para/do trabalho

(7.8.1) Status da avaliação

Selecione de:

Relevante, calculadas

(7.8.2) Emissões no ano de reporte (toneladas métricas de CO2e)

4043.83

(7.8.3) Metodologia de cálculo das emissões

Selecione todos os aplicáveis

Método baseado na distância

(7.8.4) Porcentagem de emissões calculada utilizando-se dados obtidos de fornecedores ou parceiros da cadeia de valor

100

(7.8.5) Explique

Activity data are collected and monitored through the ARCA Sustentabilidade system, and the emissions are calculated using the methodology "The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)" and IPCC Guidelines for National Greenhouse Gas Inventories, 2006. Local factors of the Brazilian GHG Protocol were used in Brazil. One Emission Source is considered in this category - Chartered bus (outsourced): calculates the emissions from fuel combustion in the buses used for the daily commute of Marfrig employees. Marfrig's GHG Inventory was verified by a third party, verifying the veracity of the data and application of the principles of the GHG Protocol methodology.

Ativos arrendados <i>upstream</i>

(7.8.1) Status da avaliação

Selecione de:

Não relevante, explicação fornecida

(7.8.5) Explique

Marfrig chose not to use upstream leased assets in its operations as part of its business strategy. Instead, the company chose to own its own assets or utilize other forms of partnerships or commercial agreements. Marfrig establishes direct agreements with raw material suppliers or producers, eliminating the need to resort to upstream leased assets to meet its demands. Marfrig assessed that the acquisition or leasing of upstream assets would not bring significant benefits in terms of cost, efficiency or operational control, compared to other available options.

Transporte e distribuição <i>downstream</i>

(7.8.1) Status da avaliação

Selecione de:

Não relevante, explicação fornecida

(7.8.5) Explique

The freight contracts, in relation to the flow of products, are, for the most part, CIF (Cost, Insurance and Freight), characterized by upstream transport and distribution. Thus, Marfrig does not account for emissions from downstream transport and distribution, which is characterized by FOB (Free on Board) freight. Marfrig's GHG Inventory was verified by a third party, verifying the veracity of the data and application of the principles of the GHG Protocol methodology.

Processamento de produtos vendidos

(7.8.1) Status da avaliação

Selecione de:

Não relevante, explicação fornecida

(7.8.5) Explique

Marfrig adopts an approach in which its products are sent directly to the final consumer, such as restaurant chains and supermarkets, without the need to go through intermediary processors. In this way, the company avoids additional processing steps, which contributes to the reduction of greenhouse gas emissions associated with this activity. Marfrig's GHG Inventory was verified by a third party, verifying the veracity of the data and application of the principles of the GHG Protocol methodology.

Uso de produtos vendidos

(7.8.1) Status da avaliação

Selecione de:

Não relevante, explicação fornecida

(7.8.5) Explique

The use of Marfrig products essentially consists of preparing and consuming food to meet the nutritional needs of consumers. In this context, the emissions associated with this step are typically generated by the consumption of energy or fuel during the cooking process. Emissions from the use of products vary according to how consumers prepare and cook food, the type of energy used and the energy efficiency of the equipment used. As part of our commitment to transparency and sustainability, we plan to seek sufficient input to accurately calculate emissions. Although Marfrig may indirectly influence consumer behavior through awareness

campaigns and providing information on sustainable consumption practices, the primary responsibility for emissions generated during the use of products lies with end consumers.

Tratamento de produtos vendidos ao final de sua vida útil

(7.8.1) Status da avaliação

Selecione de:

Não relevante, calculadas

(7.8.2) Emissões no ano de reporte (toneladas métricas de CO2e)

898608.29

(7.8.3) Metodologia de cálculo das emissões

Selecione todos os aplicáveis

Método específico por tipo de resíduos

(7.8.4) Porcentagem de emissões calculada utilizando-se dados obtidos de fornecedores ou parceiros da cadeia de valor

0

(7.8.5) Explique

The category of treatment of products sold at the end of their useful life at Marfrig refers to the practices and procedures adopted by the company to deal with the waste generated from the products sold. This category covers both food waste resulting from beef not consumed by the end customer and the packaging used in the products. For food waste, it is considered that 20% of the beef sold is wasted by the final consumer. This waste is sent to a sanitary landfill, where it is disposed of properly. The composition of these residues is considered 100% organic, as they come from food. As for packaging, 2% of the weight of products sold corresponds to packaging. Of the packages used, 20% are cardboard and 80% are plastic. All packaging is sent to landfill after use, following appropriate final disposal practices.

Ativos arrendados <i>downstream</i>

(7.8.1) Status da avaliação

Selecione de:

Não relevante, explicação fornecida

(7.8.5) Explique

By owning its own assets and infrastructure, the company has greater flexibility and control over transportation, distribution and other steps in the process of supplying its products. Due to this reason, Marfrig does not consider relevant the leasing of Downstream assets in its operations.

Franquias

(7.8.1) Status da avaliação

Selecione de:

Não relevante, explicação fornecida

(7.8.5) Explique

Marfrig does not have franchises, which implies that the company would not have emissions related to this type of activity.

Investimentos

(7.8.1) Status da avaliação

Selecione de:

Não relevante, explicação fornecida

(7.8.5) Explique

Marfrig has no investments in other operations, therefore, there are no related emissions for this category. In addition, the company's GHG Inventory underwent third-party verification, ensuring data accuracy and compliance with the principles of the GHG Protocol methodology.

Outros (<i>upstream</i>)

(7.8.1) Status da avaliação

Selecione de:

Não relevante, explicação fornecida

(7.8.5) Explique

All emissions from the upstream categories of our value chain at Marfrig are duly mapped and consolidated within the "upstream transport and distribution" category. This strategic approach allows us to efficiently manage the emissions associated with these activities. It is important to emphasize that, due to our organizational and operational structure, we do not have the "other upstream" category in our operations, which results in the inexistence of emissions related to this category. In addition, we reinforce that our Greenhouse Gas Inventory is subjected to rigorous verification by third parties, ensuring the accuracy of the data and compliance with the principles established by the GHG Protocol.

Outros (<i>downstream</i>)

(7.8.1) Status da avaliação

Selecione de:

Não relevante, explicação fornecida

(7.8.5) Explique

All downstream categories of our value chain at Marfrig are duly mapped and monitored, and do not present significant emissions. Our commitment to sustainability and operational efficiency allows us to properly manage activities at this stage of the chain. We would also like to clarify that, due to our organizational structure and the specifics of our operations, the "other downstream" category is not present in our activities, which results in the absence of emissions related to this category. We reinforce our commitment to transparency and compliance with the best environmental practices. In this sense, our Greenhouse Gas Inventory is regularly verified by third parties, ensuring data integrity and adherence to established principles.

[Linha fixa]

(7.9) Indique o status da verificação/garantia que se aplica às emissões relatadas.

| | Status da verificação/garantia |
|----------|--------------------------------|
| Escopo 1 | Selecione de: |

| | Status da verificação/garantia |
|---|---|
| | <input checked="" type="checkbox"/> Processo de verificação ou garantia de terceiros em andamento |
| Escopo 2 (com base na localização ou com base no mercado) | <i>Selecione de:</i> <input checked="" type="checkbox"/> Processo de verificação ou garantia de terceiros em andamento |
| Escopo 3 | <i>Selecione de:</i> <input checked="" type="checkbox"/> Processo de verificação ou garantia de terceiros em andamento |

[Linha fixa]

(7.9.1) Forneça mais detalhes sobre a verificação/garantia realizada para as emissões de Escopo 1 e anexe as declarações relevantes.

Row 1

(7.9.1.1) Ciclo de verificação ou garantia em vigor

Selecione de:

Processo anual

(7.9.1.2) Status do ano de reporte atual

Selecione de:

Completo

(7.9.1.3) Tipo de verificação ou garantia

Selecione de:

Garantia limitada

(7.9.1.4) Anexe a declaração

Declaration CDP_Marfrig_2024 - 05.07.24.pdf

(7.9.1.5) Referência de página/seção

2

(7.9.1.6) Norma relevante

Selecione de:

ABNT NBR ISO 14064-3:2007 (Associação Brasileira de Normas Técnicas)

(7.9.1.7) Proporção das emissões divulgadas verificadas (%)

100

[Adicionar linha]

(7.9.2) Forneça mais detalhes sobre a verificação/garantia realizada para as emissões de Escopo 2 e anexe as declarações relevantes.

Row 1

(7.9.2.1) Abordagem do Escopo 2

Selecione de:

Escopo 2 com base no mercado

(7.9.2.2) Ciclo de verificação ou garantia em vigor

Selecione de:

Processo anual

(7.9.2.3) Status do ano de reporte atual

Selecione de:

Completo

(7.9.2.4) Tipo de verificação ou garantia

Selecione de:

Garantia limitada

(7.9.2.5) Anexe a declaração

Declaration CDP_Marfrig_2024 - 05.07.24.pdf

(7.9.2.6) Referência de página/seção

2

(7.9.2.7) Norma relevante

Selecione de:

ABNT NBR ISO 14064-3:2007 (Associação Brasileira de Normas Técnicas)

(7.9.2.8) Proporção das emissões divulgadas verificadas (%)

100

[Adicionar linha]

(7.9.3) Forneça mais detalhes sobre a verificação/garantia realizada para as emissões de Escopo 3 e anexe as declarações relevantes.

Row 1

(7.9.3.1) Categoria de Escopo 3

Selecione todos os aplicáveis

- Escopo 3: Viagens de negócios
- Escopo 3: Bens e serviços adquiridos
- Escopo 3: Resíduos gerados nas operações
- Escopo 3: Transporte e distribuição <i>upstream</i>
- Escopo 3: Deslocamentos diários dos funcionários para/do trabalho
- Escopo 3: Atividades relacionadas a combustível e energia (não incluídas nos Escopos 1 ou 2)

(7.9.3.2) Ciclo de verificação ou garantia em vigor

Selecione de:

- Processo anual

(7.9.3.3) Status do ano de reporte atual

Selecione de:

- Completo

(7.9.3.4) Tipo de verificação ou garantia

Selecione de:

- Garantia limitada

(7.9.3.5) Anexe a declaração

Declaration CDP_Marfrig_2024 - 05.07.24.pdf

(7.9.3.6) Referência de página/seção

3

(7.9.3.7) Norma relevante

Selecione de:

- ABNT NBR ISO 14064-3:2007 (Associação Brasileira de Normas Técnicas)

(7.9.3.8) Proporção das emissões divulgadas verificadas (%)

100

[Adicionar linha]

(7.10) Como o total de emissões brutas (Escopos 1 e 2 combinados) do ano de reporte variou em comparação com o do ano de reporte anterior?

Selecione de:

Diminuiu

(7.10.1) Identifique os motivos para eventuais variações nas emissões brutas globais (Escopos 1 e 2 combinados) e, para cada uma delas, especifique como as emissões se comparam ao ano anterior.

Variação no consumo de energia renovável

(7.10.1.1) Mudança nas emissões (toneladas métricas de CO2e)

125.2

(7.10.1.2) Direção da variação nas emissões

Selecione de:

Diminuiu

(7.10.1.3) Valor das emissões (porcentagem)

0.07

(7.10.1.4) Explique os cálculos

Marfrig is actively committed to using energy resources with low GHG emissions. We are constantly seeking to reinvent our production processes through partnerships to optimize our industrial operations. With energy efficiency projects and modernization of our manufacturing infrastructure, we seek to achieve our scope 2 emissions reduction targets, approved by the SBTi. In our Brazilian operations, energy consumption is monitored monthly through the Industrial Panel and

the Marfrig Integrated Energy Matrix System (SIMEM). The Industrial Panel is the tool that is fed daily (partially) and has a monthly (official) closing to monitor indicators related to electricity. SIMEM is the panel of technical indicators for invoices, consumption assessment, demand and fines, among other factors, related to the billing directed to the company's production units. In Uruguay, we monitor electricity consumption indicators on a daily basis. We have maintained good practices in the refrigeration areas and in the machine room and, when possible, we have turned off compressors during peak hours (when the cost per kWh is higher and there is greater demand for electricity in the country). In addition, we have replaced equipment with more efficient ones and have a routine of periodic maintenance. In Chile, we have implemented a solar panel project that could result in a 27% reduction in electricity consumption. In our operations in North America, the units have replaced equipment and reviewed processes that have resulted in a reduction in the consumption of electrical and thermal energy calculated per head of cattle slaughtered. In addition to having projects for its own renewable energy generation facilities (Chile), Marfrig uses Renewable Energy Certificates (I-RECs) to ensure that the energy consumed by the company comes from a clean, traceable source. The variation in emissions observed in the reporting cycle was due to the increase in the consumption of renewable electricity, therefore, the variation reported is specifically related to Scope 2 (market-based). The reporting of the variation was based on the following calculations: (2023 market-based Scope 2 emissions - 2022 market-based Scope 2 emissions)/ 2022 market-based Scope 2 emissions. (174,563.68 - 174,688.87)/ 174,688.87 -0.07%

Outras atividades de redução de emissões

(7.10.1.1) Mudança nas emissões (toneladas métricas de CO2e)

2148.24

(7.10.1.2) Direção da variação nas emissões

Selecione de:

Diminuiu

(7.10.1.3) Valor das emissões (porcentagem)

1.13

(7.10.1.4) Explique os cálculos

Marfrig Global Foods has played an exemplary role in adopting sustainable measures in its operations, and the initiatives that deserve to be highlighted are the reinforcement of the use of biomass as a fuel source in boilers and the use of renewable electrical energy. In addition, all operational units in Brazil have their boilers powered exclusively by biomass and the operations in Brazil have 100% renewable electrical energy through the purchase of I-RECs. The biomass used in Marfrig Global Foods' boilers includes wood chips, traceable sustainable firewood and sawdust firewood. These materials come from renewable sources and are carefully selected to ensure sustainability and traceability of their origin. By using these types of biomass in boilers, Marfrig Global Foods is able to significantly reduce its greenhouse gas emissions. This fuel choice contributes to a lower carbon footprint compared to the use of fossil fuels, in addition to promoting the responsible use of natural resources. The adoption of these sustainable practices reflects Marfrig Global Foods' commitment to adopting cleaner and more sustainable solutions in its

operations. The company recognizes the importance of preserving the environment and mitigating the environmental impacts of its activities, thus contributing to building a more sustainable future. This sustainable measure not only contributes to reducing the company's scope 1 and 2 emissions, but also demonstrates its concern for adopting responsible practices in all stages of its operations. Marfrig Global Foods recognizes the importance of acting proactively in combating climate change and mitigating the environmental impacts of its activities. In 2023, in some factories, equipment underwent adjustments aimed at improving operational efficiency, which resulted in lower fuel consumption. The variation in emissions observed in the reporting cycle was due to the increase in fuel consumption efficiency, therefore, the variation reported is specifically related to Scope 1 stationary combustion. The reporting of the variation was based on the following calculations: $(\text{Stationary Combustion Emissions 2023} - \text{Stationary Combustion Emissions 2022}) / \text{Stationary Combustion Emissions 2022}$. $(188,542.28 - 190,690.52) / 190,690.52 - 1.13\%$

Desinvestimentos

(7.10.1.1) Mudança nas emissões (toneladas métricas de CO2e)

0

(7.10.1.2) Direção da variação nas emissões

Selecione de:

Sem alteração

(7.10.1.3) Valor das emissões (porcentagem)

0

(7.10.1.4) Explique os cálculos

Not applicable

Aquisições

(7.10.1.1) Mudança nas emissões (toneladas métricas de CO2e)

0

(7.10.1.2) Direção da variação nas emissões

Selecione de:

Sem alteração

(7.10.1.3) Valor das emissões (porcentagem)

0

(7.10.1.4) Explique os cálculos

Not applicable

Fusões

(7.10.1.1) Mudança nas emissões (toneladas métricas de CO2e)

0

(7.10.1.2) Direção da variação nas emissões

Selecione de:

Sem alteração

(7.10.1.3) Valor das emissões (porcentagem)

0

(7.10.1.4) Explique os cálculos

Not applicable

Variação na produção

(7.10.1.1) Mudança nas emissões (toneladas métricas de CO2e)

0

(7.10.1.2) Direção da variação nas emissões

Selecione de:

Sem alteração

(7.10.1.3) Valor das emissões (porcentagem)

0

(7.10.1.4) Explique os cálculos

Not applicable

Mudança de metodologia

(7.10.1.1) Mudança nas emissões (toneladas métricas de CO2e)

0

(7.10.1.2) Direção da variação nas emissões

Selecione de:

Sem alteração

(7.10.1.3) Valor das emissões (porcentagem)

0

(7.10.1.4) Explique os cálculos

Not applicable

Mudança de limite

(7.10.1.1) Mudança nas emissões (toneladas métricas de CO2e)

0

(7.10.1.2) Direção da variação nas emissões

Selecione de:

Sem alteração

(7.10.1.3) Valor das emissões (porcentagem)

0

(7.10.1.4) Explique os cálculos

Not applicable

Mudança nas condições físicas de operação

(7.10.1.1) Mudança nas emissões (toneladas métricas de CO2e)

0

(7.10.1.2) Direção da variação nas emissões

Selecione de:

Sem alteração

(7.10.1.3) Valor das emissões (porcentagem)

0

(7.10.1.4) Explique os cálculos

Not applicable

Não identificado

(7.10.1.1) Mudança nas emissões (toneladas métricas de CO2e)

0

(7.10.1.2) Direção da variação nas emissões

Selecione de:

Sem alteração

(7.10.1.3) Valor das emissões (porcentagem)

0

(7.10.1.4) Explique os cálculos

Not applicable

Outros

(7.10.1.1) Mudança nas emissões (toneladas métricas de CO2e)

0

(7.10.1.2) Direção da variação nas emissões

Selecione de:

Sem alteração

(7.10.1.3) Valor das emissões (porcentagem)

0

(7.10.1.4) Explique os cálculos

Not applicable

[Linha fixa]

(7.10.2) Os cálculos de desempenho de emissões de 7.10 e 7.10.1 se baseiam no valor das emissões de Escopo 2 com base na localização ou no valor das emissões de Escopo 2 com base no mercado?

Selecione de:

Com base no mercado

(7.13) O carbono biogênico relacionado às operações diretas é relevante para a atual divulgação de mudanças climáticas da organização ao CDP?

Selecione de:

Sim

(7.13.1) Explique os dados de carbono biogênico relacionados às operações diretas da organização e identifique eventuais exclusões.

Emissões de CO2 provenientes da gestão do uso da terra

(7.13.1.1) Emissões (toneladas métricas de CO2)

0

(7.13.1.2) Metodologia

Selecione todos os aplicáveis

Fatores de emissão padrão

(7.13.1.3) Explique

Remoções de CO2 da gestão do uso da terra

(7.13.1.1) Emissões (toneladas métricas de CO2)

0

(7.13.1.2) Metodologia

Selecione todos os aplicáveis

Fatores de emissão padrão

(7.13.1.3) Explique

Sequestro durante a mudança no uso da terra

(7.13.1.1) Emissões (toneladas métricas de CO2)

0

(7.13.1.2) Metodologia

Selecione todos os aplicáveis

Fatores de emissão padrão

(7.13.1.3) Explique

Emissões de CO2 pela queima de biocombustível (maquinário para preparo da terra)

(7.13.1.1) Emissões (toneladas métricas de CO2)

0

(7.13.1.2) Metodologia

Selecione todos os aplicáveis

Fatores de emissão padrão

(7.13.1.3) Explique

Emissões de CO2 pela queima de biocombustível (maquinário para processamento/fabricação)

(7.13.1.1) Emissões (toneladas métricas de CO2)

190469.41

(7.13.1.2) Metodologia

Selecione todos os aplicáveis

Fatores de emissões específicos da região

(7.13.1.3) Explique

The company's biogenic emissions come from the burning of biofuels in boilers and generators at operating units in South America and the United States of America. The biofuels used in these units are vegetable waste, firewood for direct burning and biogas. Calculations of biogenic emissions are performed together with the company's fossil emissions and are made available annually in the consolidated GHG Inventory. Activity data is collected by the ARCA Sustainability system and the emission factors provided by the calculation tool GHG Protocol Brazil and Emission Factors for Greenhouse Gas Inventories (EPA) for the USA are applied. Marfrig's GHG Inventory was verified by a third party, verifying the veracity of the data and application of the principles of the GHG Protocol methodology.

Emissões de CO2 da combustão de biocombustível (outros)

(7.13.1.1) Emissões (toneladas métricas de CO2)

76.12

(7.13.1.2) Metodologia

Selecione todos os aplicáveis

Fatores de emissões específicos da região

(7.13.1.3) Explique

Reported emissions refer to the mobile combustion category of Scope 1, considering the combustion of biofuel (ethanol and biodiesel) from general transport with its own fleet and land transport for employees. Calculations of biogenic emissions are carried out jointly with the fossil emissions company, and made available in the consolidated annual GHG Inventory. Activity data is collected by the ARCA Sustainability system. Marfrig's GHG Inventory was verified by a third party, verifying the veracity of the data and application of the principles of the GHG Protocol methodology.

[Linha fixa]

(7.14) A organização calcula as emissões de gases de efeito estufa para cada <i>commodity</i> agrícola relatada como significativa para o seu negócio?

Produtos da pecuária

(7.14.1) Emissões de GEEs calculadas para essa <i>commodity</i>

Selecione de:

Sim

(7.14.2) Emissões reportadas por

Selecione de:

Unidade de produção

(7.14.3) Emissões (toneladas métricas de CO₂e)

0.145117

(7.14.4) Denominador: unidade de produção

Selecione de:

Unidade de produto

(7.14.5) Variação desde o último ano de reporte

Selecione de:

Maior

(7.14.6) Explique

This is the fifth year that Marfrig Global Foods' GHG Inventory has been disclosed with its new organizational structure, considering its two business divisions Marfrig Beef and National Beef. So this is our third year of measuring this indicator. Reported emissions refer to Scopes 1 and 2: Scope 1 considers emissions from agricultural uses, stationary combustion, mobile combustion, fugitive emissions, emissions from processes and waste and effluents from all Marfrig units (slaughter, processing, confinement own, offices). This emission value is divided by the company's total production to obtain the reported emissions index. The ratio increased by approximately 3% from 2022 (0.141867 metric ton CO2e/metric ton of production) to 2023 (0.145117 metric ton CO2e/metric ton of production) - total unit production decreased by 4.12%, while emissions (scopes 12) decreased by 2%. Activity data is collected and monitored through the ARCA Sustainability system, and emissions are calculated using "The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)" methodology and the IPCC Guidelines for National Gas Inventories Greenhouse Effect, 2006. Local emission factors were used whenever possible during calculations. Marfrig's GHG Inventory was verified by a third party, verifying the veracity of the data and application of the principles of the GHG Protocol methodology.

[Linha fixa]

(7.15) A organização decompõe suas emissões de Escopo 1 por tipo de gás de efeito estufa?

Selecione de:

Sim

(7.15.1) Decomponha as emissões brutas globais totais de Escopo 1 por tipo de gás de efeito estufa e forneça a fonte de cada potencial de aquecimento global (GWP) utilizado.

Row 1

(7.15.1.1) Gás de efeito estufa

Selecione de:

CO2

(7.15.1.2) Emissões de Escopo 1 (toneladas métricas de CO2e)

194675.139

(7.15.1.3) Referência de GWP

Selecione de:

Quarto Relatório de Avaliação do IPCC (AR4 – 100 anos)

Row 2

(7.15.1.1) Gás de efeito estufa

Selecione de:

CH4

(7.15.1.2) Emissões de Escopo 1 (toneladas métricas de CO2e)

117321.111

(7.15.1.3) Referência de GWP

Selecione de:

Quarto Relatório de Avaliação do IPCC (AR4 – 100 anos)

Row 3

(7.15.1.1) Gás de efeito estufa

Selecione de:

N2O

(7.15.1.2) Emissões de Escopo 1 (toneladas métricas de CO2e)

8282.3

(7.15.1.3) Referência de GWP

Selecione de:

Quarto Relatório de Avaliação do IPCC (AR4 – 100 anos)

Row 4

(7.15.1.1) Gás de efeito estufa

Selecione de:

HFCs

(7.15.1.2) Emissões de Escopo 1 (toneladas métricas de CO₂e)

361.372

(7.15.1.3) Referência de GWP

Selecione de:

Quarto Relatório de Avaliação do IPCC (AR4 – 100 anos)

[Adicionar linha]

(7.16) Decomponha as emissões totais brutas de Escopo 1 e 2 por país/área.

| | Emissões de Escopo 1 (toneladas métricas de CO ₂ e) | Escopo 2, com base na localização (toneladas métricas de CO ₂ e) | Escopo 2, com base no mercado (toneladas métricas de CO ₂ e) |
|---------------------------|--|---|---|
| Argentina | 29159.114 | 28098.863 | 28098.863 |
| Brasil | 79512.667 | 11279.341 | 0 |
| Chile | 112.838 | 2686.591 | 1705.418 |
| Estados Unidos da América | 168399.697 | 140709.302 | 140709.302 |
| Uruguai | 43455.607 | 4050.093 | 4050.093 |

[Linha fixa]

(7.17) Indique quais decomposições das emissões brutas de Escopo 1 a empresa pode apresentar.

Selecione todos os aplicáveis

Por divisão de negócios

Por atividade

(7.17.1) Decomponha as emissões brutas globais totais de Escopo 1 por divisão de negócios.

| | Divisão de negócios | Emissões de Escopo 1 (toneladas métricas de CO2e) |
|-------|----------------------|---|
| Row 1 | <i>Marfrig Beef</i> | 152240.226 |
| Row 2 | <i>National Beef</i> | 168399.697 |

[Adicionar linha]

(7.17.3) Decomponha as emissões brutas globais totais de Escopo 1 por atividade de negócio.

| | Atividade | Emissões de Escopo 1 (toneladas métricas de CO2e) |
|-------|--------------------------------------|---|
| Row 1 | <i>Corporate</i> | 0 |
| Row 2 | <i>Slaughter of cattle Processed</i> | 16659.657 |
| Row 4 | <i>Processed</i> | 32557.452 |
| Row 5 | <i>Slaughter of cattle</i> | 252508.462 |

| | Atividade | Emissões de Escopo 1 (toneladas métricas de CO2e) |
|-------|----------------------------------|---|
| Row 6 | <i>Distribution center</i> | 9.494 |
| Row 7 | <i>Confinement of own cattle</i> | 18904.857 |

[Adicionar linha]

(7.18) Estão incluídas emissões relacionadas às atividades de negócios nas operações diretas como parte do valor global bruto de Escopo 1?

Selecione de:

Sim

(7.18.1) Selecione o(s) formulário(s) em que as emissões agrícolas/florestais estão sendo reportadas.

Selecione de:

Emissões decompostas por categoria (recomendado pelo GHG Protocol)

(7.18.2) Divulgue as emissões de Escopo 1 relacionadas à(s) atividade(s) de negócios da organização e explique eventuais exclusões. Se aplicável, desagregue as atividades agrícolas/florestais por categoria de emissões de GEEs.

Row 1

(7.18.2.1) Atividade

Selecione de:

Processamento/Fabricação

(7.18.2.2) Categoria de emissões

Selecione de:

Não mecânicas

(7.18.2.3) Emissões (toneladas métricas de CO2e)

18780.227

(7.18.2.4) Metodologia

Selecione todos os aplicáveis

Fatores de emissões específicos da região

(7.18.2.5) Explique

Considering emissions from the "Agricultural" category, including enteric fermentation (66%) and waste management (34%) from the company's only cattle confinement unit, located in Uruguay. These emissions represent less than 5% of Scope 1 emissions. The calculation of emissions was based on the construction of a specific emission factor for the South American region and in accordance with the cattle culture regime. References were used in accordance with the GHG Protocol's emission accounting methodology. Cattle data are monitored through the ARCA Sustentabilidade system. Marfrig's GHG Inventory was verified by a third party, verifying the veracity of the data and application of the principles of the GHG Protocol methodology.

Row 2

(7.18.2.1) Atividade

Selecione de:

Processamento/Fabricação

(7.18.2.2) Categoria de emissões

Selecione de:

Mecânicas

(7.18.2.3) Emissões (toneladas métricas de CO2e)

20.01

(7.18.2.4) Metodologia

Selecione todos os aplicáveis

- Fatores de emissões específicos da região

(7.18.2.5) Explique

For this section, emissions from mobile combustion are considered, comprising the burning of fuel from owned or leased vehicles (operated by Marfrig) during its general transport operations. Emissions were calculated using emission factors provided by the GHG Protocol according to each country, whenever possible. The data is monitored through the ARCA Sustentabilidade system. Marfrig's GHG Inventory was verified by a third party, verifying the veracity of the data and application of the principles of the GHG Protocol methodology.

Row 3

(7.18.2.1) Atividade

Selecione de:

- Processamento/Fabricação

(7.18.2.2) Categoria de emissões

Selecione de:

- Mecânicas

(7.18.2.3) Emissões (toneladas métricas de CO₂e)

104.62

(7.18.2.4) Metodologia

Selecione todos os aplicáveis

- Fatores de emissões específicos da região

(7.18.2.5) Explique

This section considers the emissions generated from the stationary combustion category, composed of boilers, generators and other equipment that consume and burn fuels. Emission factors were used as available in each country, in accordance with the GHG Protocol methodology. The data is monitored through the ARCA Sustentabilidade system. Marfrig's GHG Inventory was verified by a third party, verifying the veracity of the data and application of the principles of the GHG Protocol methodology.

Row 4

(7.18.2.1) Atividade

Selecione de:

Processamento/Fabricação

(7.18.2.2) Categoria de emissões

Selecione de:

Total

(7.18.2.3) Emissões (toneladas métricas de CO₂e)

18904.857

(7.18.2.4) Metodologia

Selecione todos os aplicáveis

Fatores de emissões específicos da região

(7.18.2.5) Explique

The value is the sum of mechanical and non-mechanical emissions of emissions considered agricultural/forestry. Regional emissions factors were used in accordance with the GHG Protocol GHG emissions calculation tools.

Row 5

(7.18.2.1) Atividade

Selecione de:

Processamento/Fabricação

(7.18.2.2) Categoria de emissões

Selecione de:

Total

(7.18.2.3) Emissões (toneladas métricas de CO2e)

301735.066

(7.18.2.4) Metodologia

Selecione todos os aplicáveis

Fatores de emissões específicos da região

(7.18.2.5) Explique

The value is the sum of emissions not considered agricultural/forestry. Regional emissions factors were used in accordance with the GHG Protocol GHG emissions calculation tools.

[Adicionar linha]

(7.20) Indique quais decomposições de emissões brutas de Escopo 2 a empresa pode apresentar.

Selecione todos os aplicáveis

Por divisão de negócios

Por atividade

(7.20.1) Decomponha as emissões brutas globais totais de Escopo 2 por divisão de negócios.

| | Divisão de negócios | Escopo 2, com base na localização (toneladas métricas de CO2e) | Escopo 2, com base no mercado (toneladas métricas de CO2e) |
|-------|----------------------|---|---|
| Row 1 | <i>Marfrig Beef</i> | 46114.888 | 33854.374 |
| Row 2 | <i>National Beef</i> | 140709.302 | 140709.302 |

[Adicionar linha]

(7.20.3) Decomponha as emissões brutas globais totais de Escopo 2 por atividade de negócio.

| | Atividade | Escopo 2, com base na localização (toneladas métricas de CO2e) | Escopo 2, com base no mercado (toneladas métricas de CO2e) |
|-------|--------------------------------------|---|---|
| Row 1 | <i>Corporate</i> | 89.674 | 68.738 |
| Row 3 | <i>Confinement of own cattle</i> | 36.287 | 36.287 |
| Row 4 | <i>Processed</i> | 39126.486 | 37314.413 |
| Row 5 | <i>Slaughter of cattle Processed</i> | 2515.573 | 2515.573 |
| Row 6 | <i>Slaughter of cattle</i> | 142632 | 133647.491 |
| Row 7 | <i>Distribution center</i> | 2424.17 | 981.173 |

[Adicionar linha]

(7.22) Decomponha suas emissões brutas de Escopo 1 e Escopo 2 entre seu grupo de contabilidade consolidada e outras entidades incluídas na sua resposta.

Grupo de contabilidade consolidada

(7.22.1) Emissões de Escopo 1 (toneladas métricas de CO2e)

320639.923

(7.22.2) Emissões de Escopo 2, com base na localização (toneladas métricas de CO2e)

186824.19

(7.22.3) Emissões de Escopo 2, com base no mercado (toneladas métricas de CO2e)

174563.677

(7.22.4) Explique

The emissions of Marfrig Global Foods are considered, covering the activities corresponding to Marfrig Beef and National Beef. To account for emissions, the operational control approach is considered, following the guidelines of the GHG Protocol.

Todas as outras entidades

(7.22.1) Emissões de Escopo 1 (toneladas métricas de CO2e)

0

(7.22.2) Emissões de Escopo 2, com base na localização (toneladas métricas de CO2e)

0

(7.22.3) Emissões de Escopo 2, com base no mercado (toneladas métricas de CO2e)

0

(7.22.4) Explique

N/A

[Linha fixa]

(7.23) A organização é capaz de decompor seus dados de emissões para alguma das subsidiárias incluídas na resposta ao CDP?

Selecione de:

Sim

(7.23.1) Decomponha as emissões brutas de Escopos 1 e 2 da organização por subsidiária.

Row 1

(7.23.1.1) Nome da subsidiária

Marfrig Beef

(7.23.1.2) Atividade principal

Selecione de:

Pecuária bovina

(7.23.1.3) Selecione o identificador único que é possível indicar para esta subsidiária

Selecione todos os aplicáveis

Nenhum identificador único

(7.23.1.12) Emissões de Escopo 1 (toneladas métricas de CO2e)

152240.226

(7.23.1.13) Emissões de Escopo 2, com base na localização (toneladas métricas de CO2e)

46114.888

(7.23.1.14) Emissões de Escopo 2, com base no mercado (toneladas métricas de CO2e)

33854.374

(7.23.1.15) Explicação

Marfrig Beef, as a division of Marfrig Global Foods, has a strong commitment to sustainability in its operations. The company seeks to implement sustainable practices throughout its value chain, from the production and processing of beef to the marketing and distribution of products. Marfrig Beef adopts a holistic approach to promoting sustainability, seeking to minimize environmental impacts, ensure animal welfare, promote responsible relationships with suppliers and engage the communities where it operates. With regard to environmental aspects, Marfrig Beef works to reduce greenhouse gas emissions, water consumption and waste generation. The company implements environmental management practices, such as the efficient use of natural resources, proper waste management and the search for renewable energy sources. In addition, the company is committed to reducing deforestation associated with its supply chain, especially in the Amazon region. With regard to animal welfare, Marfrig Beef adopts responsible production practices, ensuring that animals are raised and slaughtered in accordance with the highest internationally recognized animal welfare standards. The company invests in training and audits to ensure compliance with these guidelines at all stages of production. In addition, Marfrig Beef seeks to establish responsible relationships with its suppliers, encouraging socially responsible practices and compliance with ethical and legal standards. The company also develops community engagement projects, contributing to the sustainable development of the communities where it operates.

Row 2

(7.23.1.1) Nome da subsidiária

National Beef

(7.23.1.2) Atividade principal

Selecione de:

Pecuária bovina

(7.23.1.3) Selecione o identificador único que é possível indicar para esta subsidiária

Selecione todos os aplicáveis

Nenhum identificador único

(7.23.1.12) Emissões de Escopo 1 (toneladas métricas de CO2e)

168399.697

(7.23.1.13) Emissões de Escopo 2, com base na localização (toneladas métricas de CO2e)

(7.23.1.14) Emissões de Escopo 2, com base no mercado (toneladas métricas de CO2e)**(7.23.1.15) Explique**

National Beef is a subsidiary of Marfrig Global Foods, one of the largest beef processing companies in the world. Marfrig acquired National Beef in 2018, thus expanding its presence in the US beef market. National Beef is a Kansas City, Missouri-based company with a long history in the beef industry. Founded in 1992, the company has established itself as one of the main beef processors and distributors in the United States. It operates a number of beef processing facilities in different US states, supplying a wide range of beef products to the domestic and international market. As a subsidiary of Marfrig Global Foods, National Beef benefits from the parent company's experience, resources and global distribution network. Marfrig is recognized as a global leader in the animal protein sector, and its acquisition of National Beef strengthened its position in the United States, one of the largest producers and consumers of beef in the world. Furthermore, as part of Marfrig Global Foods, National Beef is also involved in sustainability and environmental impact reduction initiatives. The company can adopt sustainable practices and technologies in its operations, aiming to mitigate greenhouse gas emissions, reduce the consumption of natural resources and promote environmental responsibility throughout its supply chain. Through its subsidiary National Beef, Marfrig Global Foods strengthens its position in the US beef market and continues to supply quality products to meet consumer demand in both the domestic and global markets.

[Adicionar linha]

(7.26) Aloque as emissões da empresa para os clientes listados abaixo, de acordo com os bens e serviços que a organização vendeu para eles neste período de reporte.

Row 1**(7.26.1) Membro solicitante**

Selecione de:

(7.26.2) Escopo das emissões

Selecione de:

Escopo 1

(7.26.4) Nível de alocação

Selecione de:

Na empresa como um todo

(7.26.6) Método de alocação

Selecione de:

Alocação com base na massa dos produtos adquiridos

(7.26.7) Unidade do valor de mercado ou da quantidade de bens/serviços fornecidos

Selecione de:

Toneladas métricas

(7.26.8) Valor de mercado ou quantidade de bens/serviços fornecidos ao membro solicitante

16019.61

(7.26.9) Emissões em toneladas métricas de CO₂e

1505.24

(7.26.10) Incerteza ($\pm\%$)

5

(7.26.11) Principais fontes de emissões

The emission categories considered in Scope 1 are: stationary combustion, mobile combustion, agricultural activities, industrial processes, fugitive emissions and effluent treatment.

(7.26.12) Alocação verificada por um terceiro?

Selecione de:

Sim

(7.26.13) Explique como foi identificada a fonte de GEEs, incluindo as principais limitações a este processo e as suposições adotadas

The company calculates emissions from its operating units based on operational control. Thus, emissions from all processes and direct operations of operating units were accounted for in Scope 1 of the GHG Inventory. The activity data of these operations are controlled by each operational unit and reported in a data collection system, where the information that serves as a basis for calculation is centralized. Marfrig's GHG Inventory was verified by third parties, verifying the veracity of the data and application of the principles of the GHG Protocol methodology.

(7.26.14) No caso de terem sido usadas informações publicadas, forneça uma referência

Primary Marfrig data.

Row 2

(7.26.1) Membro solicitante

Selecione de:

(7.26.2) Escopo das emissões

Selecione de:

Escopo 2: com base no mercado

(7.26.4) Nível de alocação

Selecione de:

Na empresa como um todo

(7.26.6) Método de alocação

Selecione de:

Alocação com base na massa dos produtos adquiridos

(7.26.7) Unidade do valor de mercado ou da quantidade de bens/serviços fornecidos

Selecione de:

Toneladas métricas

(7.26.8) Valor de mercado ou quantidade de bens/serviços fornecidos ao membro solicitante

16019.61

(7.26.9) Emissões em toneladas métricas de CO₂e

819.49

(7.26.10) Incerteza (±%)

5

(7.26.11) Principais fontes de emissões

The main source of emission in Scope 2 is the purchase of electricity from the grid, since the company uses the calculation methodology based on the market, discounting the generation of energy from renewable sources, which do not cause emissions.

(7.26.12) Alocação verificada por um terceiro?

Selecione de:

Sim

(7.26.13) Explique como foi identificada a fonte de GEEs, incluindo as principais limitações a este processo e as suposições adotadas

The company calculates emissions from its operating units based on operational control. Thus, emissions from all processes and direct operations of the operating units were accounted for in Scope 2 of the GHG Inventory. The activity data of these operations are controlled by each operational unit and reported in a data collection system, where the information that is used as the basis for calculation is centralized. Marfrig's GHG Inventory was verified by third parties, verifying the veracity of the data and application of the principles of the GHG Protocol methodology.

(7.26.14) No caso de terem sido usadas informações publicadas, forneça uma referência

Primary Marfrig data.

Row 3

(7.26.1) Membro solicitante

Selecione de:

(7.26.2) Escopo das emissões

Selecione de:

- Escopo 3

(7.26.3) Categoria(s) do Escopo 3

Selecione todos os aplicáveis

- Categoria 6: Viagens de negócios
- Categoria 1: Bens e serviços adquiridos
- Categoria 5: Resíduos gerados nas operações
- Categoria 4: Transporte e distribuição <i>upstream</i>
- Categoria 7: Deslocamentos diários dos funcionários para/do trabalho
- Categoria 12: Tratamento dos produtos vendidos ao final de sua vida útil
- Categoria 3: Atividades relacionadas a combustíveis e energia (não incluídas nos Escopos 1 ou 2)

(7.26.4) Nível de alocação

Selecione de:

- Na empresa como um todo

(7.26.6) Método de alocação

Selecione de:

- Alocação com base na massa dos produtos adquiridos

(7.26.7) Unidade do valor de mercado ou da quantidade de bens/serviços fornecidos

Selecione de:

Toneladas métricas

(7.26.8) Valor de mercado ou quantidade de bens/serviços fornecidos ao membro solicitante

16019.61

(7.26.9) Emissões em toneladas métricas de CO₂e

130006.49

(7.26.10) Incerteza (±%)

5

(7.26.11) Principais fontes de emissões

The main source of emission in Scope 3 is the purchase of cattle for slaughter by the operating units, referring to the category of goods and services purchased. All Scope 3 categories are considered for the estimation of emissions.

(7.26.12) Alocação verificada por um terceiro?

Selecione de:

Sim

(7.26.13) Explique como foi identificada a fonte de GEEs, incluindo as principais limitações a este processo e as suposições adotadas

The company calculates emissions from its operating units based on operational control. Thus, emissions from all processes and direct operations of the operating units were accounted for in Scope 3 of the GHG Inventory. The activity data of these operations are controlled by each operational unit and reported in a data collection system, where the information that is used as the basis for calculation is centralized. Marfrig's GHG Inventory was verified by third parties, verifying the veracity of the data and application of the principles of the GHG Protocol methodology.

(7.26.14) No caso de terem sido usadas informações publicadas, forneça uma referência

Primary Marfrig data.

Row 4

(7.26.1) Membro solicitante

Selecione de:

(7.26.2) Escopo das emissões

Selecione de:

Escopo 1

(7.26.4) Nível de alocação

Selecione de:

Na empresa como um todo

(7.26.6) Método de alocação

Selecione de:

Alocação com base na massa dos produtos adquiridos

(7.26.7) Unidade do valor de mercado ou da quantidade de bens/serviços fornecidos

Selecione de:

Toneladas métricas

(7.26.8) Valor de mercado ou quantidade de bens/serviços fornecidos ao membro solicitante

2542.2

(7.26.9) Emissões em toneladas métricas de CO₂e

238.87

(7.26.10) Incerteza (±%)

(7.26.11) Principais fontes de emissões

The emission categories considered in Scope 1 are: stationary combustion, mobile combustion, agricultural activities, industrial processes, fugitive emissions and effluent treatment.

(7.26.12) Alocação verificada por um terceiro?

Selecione de:

Sim

(7.26.13) Explique como foi identificada a fonte de GEEs, incluindo as principais limitações a este processo e as suposições adotadas

The company calculates emissions from its operating units based on operational control. Thus, emissions from all processes and direct operations of operating units were accounted for in Scope 1 of the GHG Inventory. The activity data of these operations are controlled by each operational unit and reported in a data collection system, where the information that serves as a basis for calculation is centralized. Marfrig's GHG Inventory was verified by third parties, verifying the veracity of the data and application of the principles of the GHG Protocol methodology.

(7.26.14) No caso de terem sido usadas informações publicadas, forneça uma referência

Primary Marfrig data.

Row 5

(7.26.1) Membro solicitante

Selecione de:

(7.26.2) Escopo das emissões

Selecione de:

Escopo 2: com base no mercado

(7.26.4) Nível de alocação

Selecione de:

Na empresa como um todo

(7.26.6) Método de alocação

Selecione de:

Alocação com base na massa dos produtos adquiridos

(7.26.7) Unidade do valor de mercado ou da quantidade de bens/serviços fornecidos

Selecione de:

Toneladas métricas

(7.26.8) Valor de mercado ou quantidade de bens/serviços fornecidos ao membro solicitante

2542.2

(7.26.9) Emissões em toneladas métricas de CO₂e

130.05

(7.26.10) Incerteza (±%)

5

(7.26.11) Principais fontes de emissões

The main source of emission in Scope 2 is the purchase of electricity from the grid, since the company uses the calculation methodology based on the market, discounting the generation of energy from renewable sources, which do not cause emissions.

(7.26.12) Alocação verificada por um terceiro?

Selecione de:

Sim

(7.26.13) Explique como foi identificada a fonte de GEEs, incluindo as principais limitações a este processo e as suposições adotadas

The company calculates emissions from its operating units based on operational control. Thus, emissions from all processes and direct operations of the operating units were accounted for in Scope 2 of the GHG Inventory. The activity data of these operations are controlled by each operational unit and reported in a data collection system, where the information that is used as the basis for calculation is centralized. Marfrig's GHG Inventory was verified by third parties, verifying the veracity of the data and application of the principles of the GHG Protocol methodology.

(7.26.14) No caso de terem sido usadas informações publicadas, forneça uma referência

Primary Marfrig data.

Row 6

(7.26.1) Membro solicitante

Selecione de:

(7.26.2) Escopo das emissões

Selecione de:

Escopo 3

(7.26.3) Categoria(s) do Escopo 3

Selecione todos os aplicáveis

- Categoria 6: Viagens de negócios
- Categoria 1: Bens e serviços adquiridos
- Categoria 5: Resíduos gerados nas operações
- Categoria 4: Transporte e distribuição <i>upstream</i>
- Categoria 7: Deslocamentos diários dos funcionários para/do trabalho
- Categoria 12: Tratamento dos produtos vendidos ao final de sua vida útil
- Categoria 3: Atividades relacionadas a combustíveis e energia (não incluídas nos Escopos 1 ou 2)

(7.26.4) Nível de alocação

Selecione de:

- Na empresa como um todo

(7.26.6) Método de alocação

Selecione de:

- Alocação com base na massa dos produtos adquiridos

(7.26.7) Unidade do valor de mercado ou da quantidade de bens/serviços fornecidos

Selecione de:

- Toneladas métricas

(7.26.8) Valor de mercado ou quantidade de bens/serviços fornecidos ao membro solicitante

2542.2

(7.26.9) Emissões em toneladas métricas de CO₂e

20631.1

(7.26.10) Incerteza ($\pm\%$)

5

(7.26.11) Principais fontes de emissões

The main source of emission in Scope 3 is the purchase of cattle for slaughter by the operating units, referring to the category of goods and services purchased. All Scope 3 categories are considered for the estimation of emissions.

(7.26.12) Alocação verificada por um terceiro?

Selecione de:

Sim

(7.26.13) Explique como foi identificada a fonte de GEEs, incluindo as principais limitações a este processo e as suposições adotadas

The company calculates emissions from its operating units based on operational control. Thus, emissions from all processes and direct operations of the operating units were accounted for in Scope 3 of the GHG Inventory. The activity data of these operations are controlled by each operational unit and reported in a data collection system, where the information that is used as the basis for calculation is centralized. Marfrig's GHG Inventory was verified by third parties, verifying the veracity of the data and application of the principles of the GHG Protocol methodology.

(7.26.14) No caso de terem sido usadas informações publicadas, forneça uma referência

Primary Marfrig data.
[Adicionar linha]

(7.27) Quais os desafios de alocar emissões para diferentes clientes e o que ajudaria a vencer esses desafios?

Row 1

(7.27.1) Desafios de alocação

Selecione de:

A diversidade de linhas de produtos faz com que a contabilização precisa para cada produto/linha de produto não apresente eficiência de custo

(7.27.2) Explique o que ajudaria a superar esses desafios

Challenges are mainly associated with Scope 3 categories. Purchased goods and services involve quantifying a large upstream value chain that, depending on the product, cannot be obtained in a customer-specific manner. Improvement in the accuracy of various Scope 3 emission quantification methods has been evaluated by the company and should be improved in the coming years to align more closely with the reality of the supply chain operating at each plant in each region. and country. This process will lead to the improvement of the emissions allocation process over time.

[Adicionar linha]

(7.28) A organização planeja desenvolver suas capacidades para alocar emissões para seus clientes no futuro?

(7.28.1) A organização planeja desenvolver suas capacidades para alocar emissões para seus clientes no futuro?

Selecione de:

Sim

(7.28.2) Descreva como a organização planeja desenvolver suas capacidades

Marfrig Global Foods is working to improve the quality and accuracy of the GHG emissions inventory. With each annual GHG inventory, we have advanced compared to the previous one. Most of Marfrig's carbon footprint is from Scope 3 emissions, so the company is working to improve data and methodologies for Scope 3 emissions calculations in the industrial and livestock sectors. The company works to improve the accounting of emissions from its main source of emissions in its operating units, the purchase of cattle for slaughter. We are working to evolve the collection of information, and to be able to calculate emissions according to the production system from which the slaughter animal comes. In this way, we will be able to better allocate emissions by type of product and also by the company's customer. We are currently evaluating how to carry out this data collection of slaughtered animals and establishing calculation methodologies for the different production systems from which we acquire animals. The increase in the share of low GHG emission systems over time should reduce the intensity of emissions from this source, and consequently, of the emissions allocated to customers.

[Linha fixa]

(7.29) Durante o ano de reporte, qual porcentagem do total de gastos operacionais corresponde aos gastos com energia?

Selecione de:

Superior a 10%, mas inferior ou igual a 15%

(7.30) Selecione quais atividades relacionadas à energia foram realizadas pela organização.

| | Indique se a organização realizou esta atividade relacionada à energia no ano de reporte |
|---|--|
| Consumo de combustível (exceto matérias-primas) | Selecione de: <input checked="" type="checkbox"/> Sim |

| | Indique se a organização realizou esta atividade relacionada à energia no ano de reporte |
|---|--|
| Consumo de eletricidade comprada ou adquirida | Selecione de: <input checked="" type="checkbox"/> Sim |
| Consumo de aquecimento comprado ou adquirido | Selecione de: <input checked="" type="checkbox"/> Não |
| Consumo de vapor comprado ou adquirido | Selecione de: <input checked="" type="checkbox"/> Não |
| Consumo de resfriamento comprado ou adquirido | Selecione de: <input checked="" type="checkbox"/> Não |
| Geração de eletricidade, aquecimento, vapor ou refrigeração | Selecione de: <input checked="" type="checkbox"/> Sim |

[Linha fixa]

(7.30.1) Divulgue os consumos totais de energia (exceto matérias-primas) da organização em MWh.

Consumo de combustível (exceto matérias-primas)

(7.30.1.1) Poder calorífico

Selecione de:

LHV (menor poder calorífico)

(7.30.1.2) MWh de fontes renováveis

495520.81

(7.30.1.3) MWh de fontes não renováveis

905506.32

(7.30.1.4) Total (renováveis e não renováveis) em MWh

1401027.13

Consumo de eletricidade comprada ou adquirida

(7.30.1.1) Poder calorífico

Selecione de:

LHV (menor poder calorífico)

(7.30.1.2) MWh de fontes renováveis

294580.27

(7.30.1.3) MWh de fontes não renováveis

492150.91

(7.30.1.4) Total (renováveis e não renováveis) em MWh

786731.18

Consumo de energia renovável não combustível autogerada

(7.30.1.1) Poder calorífico

Selecione de:

LHV (menor poder calorífico)

(7.30.1.2) MWh de fontes renováveis

0

(7.30.1.4) Total (renováveis e não renováveis) em MWh

0

Consumo total de energia

(7.30.1.1) Poder calorífico

Selecione de:

LHV (menor poder calorífico)

(7.30.1.2) MWh de fontes renováveis

790101.08

(7.30.1.3) MWh de fontes não renováveis

1397657.24

(7.30.1.4) Total (renováveis e não renováveis) em MWh

2187758.31

[Linha fixa]

(7.30.6) Selecione as aplicações de consumo de combustível da organização.

| | Indique se a organização adota esta aplicação de combustível |
|---|--|
| Consumo de combustível para a geração de eletricidade | Selecione de: <input checked="" type="checkbox"/> Sim |

| | Indique se a organização adota esta aplicação de combustível |
|---|---|
| Consumo de combustível para a geração de aquecimento | <i>Selecione de:</i> <input checked="" type="checkbox"/> Sim |
| Consumo de combustível para geração de vapor | <i>Selecione de:</i> <input checked="" type="checkbox"/> Não |
| Consumo de combustível para a geração de refrigeração | <i>Selecione de:</i> <input checked="" type="checkbox"/> Não |
| Consumo de combustível para cogeração ou trigeração | <i>Selecione de:</i> <input checked="" type="checkbox"/> Não |

[Linha fixa]

(7.30.7) Informe a quantidade de combustível em MWh que a organização consumiu (exceto matérias-primas) por tipo de combustível.

Biomassa sustentável

(7.30.7.1) Poder calorífico

Selecione de:

LHV

(7.30.7.2) Total de combustível em MWh consumido pela organização

456078.27

(7.30.7.3) Combustível consumido, em MWh, para a autogeração de eletricidade

816.43

(7.30.7.4) Combustível MWh consumido para a autogeração de calor

455261.84

(7.30.7.8) Explique

Fuels such as biodiesel, renewable commercial firewood (planted forests), ethanol and wood waste are considered. The consumption of these fuels was audited during the third-party verification of the GHG inventory.

Outro tipo de biomassa

(7.30.7.1) Poder calorífico

Selecione de:

LHV

(7.30.7.2) Total de combustível em MWh consumido pela organização

39572.88

(7.30.7.3) Combustível consumido, em MWh, para a autogeração de eletricidade

0

(7.30.7.4) Combustível MWh consumido para a autogeração de calor

39572.88

(7.30.7.8) Explique

They are considered fuels like other biomass gases. The consumption of these fuels was audited during the third-party verification of the GHG inventory.

Outros combustíveis renováveis (por ex., hidrogênio renovável)

(7.30.7.1) Poder calorífico

Selecione de:

LHV

(7.30.7.2) Total de combustível em MWh consumido pela organização

0

(7.30.7.3) Combustível consumido, em MWh, para a autogeração de eletricidade

0

(7.30.7.4) Combustível MWh consumido para a autogeração de calor

0

(7.30.7.8) Explique

All biofuel consumption reporting was done in the lines referring to sustainable biomass and other types of biomass.

Carvão

(7.30.7.1) Poder calorífico

Selecione de:

LHV

(7.30.7.2) Total de combustível em MWh consumido pela organização

0

(7.30.7.3) Combustível consumido, em MWh, para a autogeração de eletricidade

0

(7.30.7.4) Combustível MWh consumido para a autogeração de calor

0

(7.30.7.8) Explique

The company does not consume any coal-type fuel.

Petróleo

(7.30.7.1) Poder calorífico

Selecione de:

LHV

(7.30.7.2) Total de combustível em MWh consumido pela organização

35890.25

(7.30.7.3) Combustível consumido, em MWh, para a autogeração de eletricidade

8565.91

(7.30.7.4) Combustível MWh consumido para a autogeração de calor

24922.19

(7.30.7.8) Explique

Fuels such as automotive gasoline, lubricating oil, fuel oil, diesel oil and aviation kerosene - all derived from petroleum - are considered. The consumption of these fuels was audited during the third-party verification of the GHG inventory.

Gás

(7.30.7.1) Poder calorífico

Selecione de:

LHV

(7.30.7.2) Total de combustível em MWh consumido pela organização

869616.07

(7.30.7.3) Combustível consumido, em MWh, para a autogeração de eletricidade

2100.55

(7.30.7.4) Combustível MWh consumido para a autogeração de calor

867515.52

(7.30.7.8) Explique

Fuels such as natural gas and liquefied petroleum gas are considered. The consumption of these fuels was audited during the third-party verification of the GHG inventory.

Outros combustíveis não renováveis (por ex., hidrogênio não renovável)

(7.30.7.1) Poder calorífico

Selecione de:

LHV

(7.30.7.2) Total de combustível em MWh consumido pela organização

0

(7.30.7.3) Combustível consumido, em MWh, para a autogeração de eletricidade

0

(7.30.7.4) Combustível MWh consumido para a autogeração de calor

(7.30.7.8) Explique

All fuel reporting was done on the other lines. The consumption of these fuels was audited during the third-party verification of the GHG inventory.

Total de combustíveis**(7.30.7.1) Poder calorífico**

Selecione de:

LHV

(7.30.7.2) Total de combustível em MWh consumido pela organização

1401157.47

(7.30.7.3) Combustível consumido, em MWh, para a autogeração de eletricidade

11482.89

(7.30.7.4) Combustível MWh consumido para a autogeração de calor

1387272.43

(7.30.7.8) Explique

The consumption of these fuels was audited during the third-party verification of the GHG inventory.

[Linha fixa]

(7.30.9) Dê detalhes sobre a eletricidade, o aquecimento, o vapor e a refrigeração que a organização gerou e consumiu no ano de reporte.

Eletricidade

(7.30.9.1) Geração bruta total (MWh)

11482.89

(7.30.9.2) Geração consumida pela organização (MWh)

11482.89

(7.30.9.3) Geração bruta proveniente de fontes renováveis (MWh)

816.43

(7.30.9.4) Geração proveniente de fontes renováveis consumida pela organização (MWh)

816.43

Aquecimento

(7.30.9.1) Geração bruta total (MWh)

1387272.43

(7.30.9.2) Geração consumida pela organização (MWh)

1387272.43

(7.30.9.3) Geração bruta proveniente de fontes renováveis (MWh)

494534.8

(7.30.9.4) Geração proveniente de fontes renováveis consumida pela organização (MWh)

494534.8

Vapor

(7.30.9.1) Geração bruta total (MWh)

0

(7.30.9.2) Geração consumida pela organização (MWh)

0

(7.30.9.3) Geração bruta proveniente de fontes renováveis (MWh)

0

(7.30.9.4) Geração proveniente de fontes renováveis consumida pela organização (MWh)

0

Refrigeração

(7.30.9.1) Geração bruta total (MWh)

0

(7.30.9.2) Geração consumida pela organização (MWh)

0

(7.30.9.3) Geração bruta proveniente de fontes renováveis (MWh)

0

(7.30.9.4) Geração proveniente de fontes renováveis consumida pela organização (MWh)

0

[Linha fixa]

(7.30.14) Forneça detalhes sobre as quantidades de eletricidade, aquecimento, vapor e/ou refrigeração contabilizadas a um fator de emissão zero ou próximo de zero no valor de Escopo 2 com base no mercado reportado em 7.7.

Row 1

(7.30.14.1) País/área

Selecione de:

Brasil

(7.30.14.2) Método de aquisição

Selecione de:

Eletricidade de entrega padrão pela rede (por ex., oferta de produto padrão por um fornecedor de energia), com o suporte de certificados de atributos energéticos

(7.30.14.3) Portador de energia

Selecione de:

Eletricidade

(7.30.14.4) Tipo de tecnologia de baixo carbono

Selecione de:

Hidrelétrica de grande porte (> 25 MW)

(7.30.14.5) Energia de baixo carbono consumida por meio de métodos de obtenção selecionados no ano de reporte (MWh)

292069

(7.30.14.6) Instrumento de monitoramento utilizado

Selecione de:

I-REC

(7.30.14.7) País/área de origem (geração) da energia de baixo carbono ou do atributo energético

Selecione de:

Brasil

(7.30.14.8) É possível reportar o ano de comissionamento ou de realimentação da unidade de geração de energia?

Selecione de:

Sim

(7.30.14.9) Ano de comissionamento da instalação de geração de energia (por ex., data da primeira operação comercial ou da repotenciação)

1999

(7.30.14.10) Explique

Our operations in Brazil and Chile are now offsetting carbon emissions resulting from energy consumption in their daily activities. This new initiative, implemented in 2022, complements other practices already established in our facilities, all focused on promoting the efficient use of energy and, consequently, reducing the environmental impact of our operations. Our commitment to this responsible approach has also led us to set the ambitious target that by 2030 all of our operations will use exclusively renewable energy.

Row 2

(7.30.14.1) País/área

Selecione de:

Chile

(7.30.14.2) Método de aquisição

Selecione de:

- Eletricidade de entrega padrão pela rede (por ex., oferta de produto padrão por um fornecedor de energia), com o suporte de certificados de atributos energéticos

(7.30.14.3) Portador de energia

Selecione de:

- Eletricidade

(7.30.14.4) Tipo de tecnologia de baixo carbono

Selecione de:

- Solar

(7.30.14.5) Energia de baixo carbono consumida por meio de métodos de obtenção selecionados no ano de reporte (MWh)

2512

(7.30.14.6) Instrumento de monitoramento utilizado

Selecione de:

- I-REC

(7.30.14.7) País/área de origem (geração) da energia de baixo carbono ou do atributo energético

Selecione de:

- Chile

(7.30.14.8) É possível reportar o ano de comissionamento ou de realimentação da unidade de geração de energia?

Selecione de:

- Sim

(7.30.14.9) Ano de comissionamento da instalação de geração de energia (por ex., data da primeira operação comercial ou da repotenciação)

2016

(7.30.14.10) Explique

Our operations in Brazil and Chile are now offsetting carbon emissions resulting from energy consumption in their daily activities. This new initiative, implemented in 2022, complements other practices already established in our facilities, all focused on promoting the efficient use of energy and, consequently, reducing the environmental impact of our operations. Our commitment to this responsible approach has also led us to set the ambitious goal that by 2030 all of our operations will use exclusively renewable energy.

[Adicionar linha]

(7.30.16) Apresente uma decomposição do seu consumo de eletricidade/aquecimento/vapor/refrigeração por país/área no ano de reporte.

Argentina

(7.30.16.1) Consumo de eletricidade comprada (MWh)

65624.49

(7.30.16.2) Consumo de eletricidade autogerada (MWh)

0

(7.30.16.4) Consumo de calor, vapor e refrigeração comprados (MWh)

0

(7.30.16.5) Consumo de calor, vapor e refrigeração autogerados (MWh)

0

(7.30.16.6) Consumo total de energia para eletricidade/aquecimento/vapor/refrigeração (MWh)

65624.49

Brasil

(7.30.16.1) Consumo de eletricidade comprada (MWh)

292069

(7.30.16.2) Consumo de eletricidade autogerada (MWh)

0

(7.30.16.4) Consumo de calor, vapor e refrigeração comprados (MWh)

0

(7.30.16.5) Consumo de calor, vapor e refrigeração autogerados (MWh)

0

(7.30.16.6) Consumo total de energia para eletricidade/aquecimento/vapor/refrigeração (MWh)

292069.00

Chile

(7.30.16.1) Consumo de eletricidade comprada (MWh)

6876.21

(7.30.16.2) Consumo de eletricidade autogerada (MWh)

0

(7.30.16.4) Consumo de calor, vapor e refrigeração comprados (MWh)

0

(7.30.16.5) Consumo de calor, vapor e refrigeração autogerados (MWh)

0

(7.30.16.6) Consumo total de energia para eletricidade/aquecimento/vapor/refrigeração (MWh)

6876.21

Estados Unidos da América

(7.30.16.1) Consumo de eletricidade comprada (MWh)

350318.9

(7.30.16.2) Consumo de eletricidade autogerada (MWh)

0

(7.30.16.4) Consumo de calor, vapor e refrigeração comprados (MWh)

0

(7.30.16.5) Consumo de calor, vapor e refrigeração autogerados (MWh)

0

(7.30.16.6) Consumo total de energia para eletricidade/aquecimento/vapor/refrigeração (MWh)

350318.90

Uruguai

(7.30.16.1) Consumo de eletricidade comprada (MWh)

71842.59

(7.30.16.2) Consumo de eletricidade autogerada (MWh)

0

(7.30.16.4) Consumo de calor, vapor e refrigeração comprados (MWh)

0

(7.30.16.5) Consumo de calor, vapor e refrigeração autogerados (MWh)

0

(7.30.16.6) Consumo total de energia para eletricidade/aquecimento/vapor/refrigeração (MWh)

71842.59

[Linha fixa]

(7.45) Descreva as emissões combinadas globais brutas de Escopos 1 e 2 para o ano de reporte, em toneladas métricas de CO2e, por receita total em moeda unitária, e forneça eventuais métricas de intensidade adicionais adequadas para as operações de negócios.

Row 1

(7.45.1) Valor da intensidade

0.000005963

(7.45.2) Numerador da métrica (Emissões combinadas globais brutas de Escopos 1 e 2, em toneladas métricas de CO2e)

495203.6

(7.45.3) Denominador da métrica

Selecione de:

- receita total unitária

(7.45.4) Denominador da métrica: Total da unidade

83040928788.94

(7.45.5) Valor do Escopo 2 usado

Selecione de:

- Com base no mercado

(7.45.6) Porcentagem de variação em relação ao ano anterior

5.12

(7.45.7) Direção da variação

Selecione de:

- Aumentou

(7.45.8) Motivos da variação

Selecione todos os aplicáveis

- Variação na produção

(7.45.9) Explique

This is the fifth year of publishing the Marfrig Global Foods GHG Inventory with its new organizational structure, considering its two business divisions Marfrig Beef and National Beef. Therefore, this is our fifth year measuring this indicator. In 2023, there was a small decrease in cattle slaughter, which resulted in a lower need for energy to process products. Regarding emissions, it should be noted that, in relation to 2022, Scope 1 and 2 emissions (market based) in 2023 varied, respectively, around -2.90% and -0.07%. These variations caused a 1.92% decrease in Scope 12 emissions compared to 2022. Specifically in relation to Scope 1 emissions, it is already possible to see that the actions planned to achieve the Science-Based Target for the base year 2019 (approved in 2021) are starting to have an impact on the reduction of emissions – this reduction was greatly influenced by the actions carried out in the categories of stationary combustion (replacement of fossil fuels with

biomass) and in the treatment of effluents (implementation of low CO2 emission technologies - aerobics). The organization continues to increase the share of electricity consumption from renewable sources, in order to reduce its Scope 2 emissions. The investments reported in previous reports are in the final phase and Marfrig maintains full attention in monitoring these values to fulfill its commitment to reducing its emissions. Marfrig, in 2023, had a 6.70% drop in its total unit revenue compared to 2022. In this way, the situations contributed to the intensity of emissions increasing by around 5% in 2023.

[Adicionar linha]

(7.52) Forneça as métricas climáticas adicionais relevantes para os negócios da organização.

Row 1

(7.52.1) Descrição

Selecione de:

Outro, especifique

(7.52.2) Valor métrico

0

(7.52.3) Numerador da métrica

0

(7.52.4) Denominador da métrica (apenas para métrica de intensidade)

0

(7.52.5) Porcentagem de variação em relação ao ano anterior

0

(7.52.6) Direção da variação

Selecione de:

Sem alteração

(7.52.7) Explique

N/A

[Adicionar linha]

(7.53) Havia uma meta de emissões ativa no ano de reporte?

Selecione todos os aplicáveis

Meta absoluta

Meta de intensidade

(7.53.1) Dê detalhes das metas de emissões absolutas e do progresso em relação a essas metas.

Row 1

(7.53.1.1) Número de referência da meta

Selecione de:

Abs 1

(7.53.1.2) Esta meta tem bases científicas?

Selecione de:

Sim, essa meta foi aprovada como sendo de bases científicas pela Science Based Targets initiative

(7.53.1.3) Carta de validação oficial da Science Based Targets initiative

MARF-BRA-002-OFF-Validation Letter.pdf

(7.53.1.4) Meta desejada

Selecione de:

Alinhada com os 1,5 °C

(7.53.1.5) Data em que a meta foi definida

04/14/2022

(7.53.1.6) Abrangência da meta

Selecione de:

- Na organização como um todo

(7.53.1.7) Gases de efeito estufa abrangidos pela meta

Selecione todos os aplicáveis

- Dióxido de carbono (CO2)
- Metano (CH4)
- Óxido nitroso (N2O)
- Hidrofluorcarbonetos (HFCs)

(7.53.1.8) Escopos

Selecione todos os aplicáveis

- Escopo 1
- Escopo 2

(7.53.1.9) Método de contabilização do Escopo 2

Selecione de:

- Com base no mercado

(7.53.1.11) Data de término do ano-base

12/31/2019

(7.53.1.12) Emissões no ano-base de Escopo 1 abrangidas pela meta (toneladas métricas de CO2e)

454819.61

(7.53.1.13) Emissões no ano-base de Escopo 2 abrangidas pela meta (toneladas métricas de CO2e)

179184

(7.53.1.31) Emissões totais no ano-base de Escopo 3 abrangidas pela meta (toneladas métricas de CO2e)

0.000

(7.53.1.32) Emissões totais no ano-base abrangidas pela meta em todos os Escopos selecionados (toneladas métricas de CO2e)

634003.610

(7.53.1.33) Emissões no ano-base de Escopo 1 abrangidas pela meta como percentagem das emissões totais no ano-base de Escopo 1

100

(7.53.1.34) Emissões no ano-base de Escopo 2 abrangidas pela meta como percentagem das emissões totais no ano-base de Escopo 2

100

(7.53.1.53) Emissões no ano-base abrangidas pela meta em todos os Escopos selecionados, como percentagem das emissões totais no ano-base em todos os Escopos selecionados

100

(7.53.1.54) Data de término da meta

12/31/2035

(7.53.1.55) Meta de redução com relação ao ano-base (%)

(7.53.1.56) Emissões totais na data de término da meta abrangidas pela meta em todos os Escopos selecionados (toneladas métricas de CO2e)

202881.155

(7.53.1.57) Emissões de Escopo 1 no ano de reporte abrangidas pela meta (toneladas métricas de CO2e)

320639.92

(7.53.1.58) Emissões de Escopo 2 no ano de reporte abrangidas pela meta (toneladas métricas de CO2e)

174563.68

(7.53.1.77) Emissões totais no ano de reporte abrangidas pela meta em todos os escopos selecionados (toneladas métricas de CO2e)

495203.600

(7.53.1.78) Emissões relacionadas à terra abrangidas pela meta

Selecione de:

Não, não abrange nenhuma emissão relacionada à terra (p. ex., SBT não FLAG)

(7.53.1.79) Porcentagem da meta alcançada com relação ao ano-base

32.20

(7.53.1.80) Status da meta no ano de reporte

Selecione de:

Em andamento

(7.53.1.82) Explique a abrangência da meta e identifique eventuais exclusões

Marfrig continues to develop actions and programs to improve the management of GHG emissions in its operations. In this sense, it developed the methodological update of its GHG Inventory, updating the Emission Factors to more recent values, and with local characteristics, whenever possible. With the most assertive and reliable result of its GHG emissions, the company developed, based on the 2019 GHG Inventory, new goals for reducing GHG emissions. The targets were developed in accordance with the methodology and meeting the criteria of the Science-Based Target Initiative, together with the analysis of the potential for reducing GHG emissions in Marfrig Global Foods' operations. The targets were developed by the consultancy ARCA Sustentabilidade, and were submitted and approved by the SBTi in 2022. Therefore, we consider them to be science-based targets. The reported target refers to the GHG emissions reduction target from direct operations (Scopes 1 2) and represents the long-term target (2035). The Scope 1 and 2 emission reduction target applies to Marfrig Global Foods, including the two business divisions Marfrig Beef and National Beef. All emissions from direct operations, included in the company's GHG Inventory, are considered in this target.

(7.53.1.83) Objetivo da meta

Marfrig was the first animal protein company in the Americas to commit to SBTi. Through SBTi, we make transparent the measures we take to contribute to the objective of the Paris Agreement: limiting global warming to 2C. It is worth noting that we have set even more ambitious goals, aiming to restrict global warming to 1.5 C. In addition to establishing clear targets for reducing emissions, based on scientific studies and research, other movements reinforce our commitment to minimizing the impacts of our activities and operations on climate change, such as the Net-Zero Ambition Movement. In short, the establishment of this target reflects Marfrig's commitment to acting against the impacts of climate change, not only in its operations, but throughout its supply chain when considering exposure to identified climate risks; as well as keeping reports and initiatives transparent for investors and other stakeholders.

(7.53.1.84) Plano para alcançar a meta e progresso realizado até o fim do ano de reporte

The main sources of scope 1 and 2 emissions are the consumption of fossil fuels, the treatment of effluents and the consumption of electricity from the distribution network in each country of its operating units. Based on this diagnosis provided by the GHG inventories carried out over the years by Marfrig, it is possible to draw up a plan to reduce the emission sources that have the greatest contribution in Scopes 12. The transition from the use of biomass fuels instead of fossil fuels is intensified every year in equipment such as boilers and electric power generators and this is one of the main potential for reducing emissions. Still in relation to Scope 1, Marfrig seeks to increase the efficiency of effluent treatment every year in an attempt to reduce GHG emissions. With this, the company seeks to implement new technologies to replace the conventional treatment of effluents – an example is the implementation of biodigesters with flare to reduce the emission of methane gas. In 2021, the effluent treatment stations of the units in Brazil in Bataguassu (MS), Promissão (SP) and Tangará da Serra (MT) and in the USA in Iowa (MS) and Liberal City (KS) had the biodigester. Comparison of total effluent treatment emissions in 2 scenarios (I) without the use of biodigester burning in the units listed above; and (II) use of biodigester and flare burning in the units listed above, there is a decrease of about 49% in scenario (II) compared to (I). With regard to Scope 2 emissions, Marfrig has committed to having 80% of its energy come from renewable sources by 2025 and 100% in 2030 in line with RE100 – and this is one of the main actions to achieve the reduction target by 2035.

(7.53.1.85) Meta derivada por meio do uso de uma abordagem de descarbonização setorial

Selecione de:

Não

[Adicionar linha]

(7.53.2) Dê detalhes das metas de intensidade de emissões e do progresso delas.

Row 1

(7.53.2.1) Número de referência da meta

Selecione de:

Int 1

(7.53.2.2) Esta meta tem bases científicas?

Selecione de:

Sim, essa meta foi aprovada como sendo de bases científicas pela Science Based Targets initiative

(7.53.2.3) Carta de validação oficial da Science Based Targets initiative

MARF-BRA-002-OFF-Validation Letter.pdf

(7.53.2.4) Meta desejada

Selecione de:

Alinhada com os 1,5 °C

(7.53.2.5) Data em que a meta foi definida

04/14/2022

(7.53.2.6) Abrangência da meta

Selecione de:

Na organização como um todo

(7.53.2.7) Gases de efeito estufa abrangidos pela meta

Selecione todos os aplicáveis

- Dióxido de carbono (CO2)
- Metano (CH4)
- Óxido nitroso (N2O)
- Hidrofluorcarbonetos (HFCs)

(7.53.2.8) Escopos

Selecione todos os aplicáveis

- Escopo 3

(7.53.2.10) Categorias do Escopo 3

Selecione todos os aplicáveis

- Categoria 1: Bens e serviços adquiridos

(7.53.2.11) Métrica de intensidade

Selecione de:

- Toneladas métricas de CO2e por unidade de produção

(7.53.2.12) Data de término do ano-base

12/31/2019

(7.53.2.15) Valor de intensidade no ano-base para o Escopo 3, Categoria 1: Bens e serviços adquiridos (toneladas métricas de CO2e por unidade de atividade)

4.12

(7.53.2.32) Valor de intensidade no ano-base para o total de Escopo 3 (toneladas métricas de CO2e por unidade de atividade)

4.1200000000

(7.53.2.33) Valor de intensidade no ano-base para todos os Escopos selecionados (toneladas métricas de CO2e por unidade de atividade)

4.1200000000

(7.53.2.36) Porcentagem do total de emissões no ano-base de Escopo 3, Categoria 1: Bens e serviços adquiridos abrangidos pelo Escopo 3, Categoria 1: Valor de intensidade de bens e serviços adquiridos

95

(7.53.2.53) Porcentagem das emissões totais de Escopo 3 (em todas as categorias do Escopo 3) no ano-base abrangida por este valor total de intensidade de Escopo 3

95

(7.53.2.54) Porcentagem das emissões totais do ano-base em todos os Escopos selecionados abrangida por este valor de intensidade

90.7

(7.53.2.55) Data de término da meta

12/31/2035

(7.53.2.56) Meta de redução com relação ao ano-base (%)

33

(7.53.2.57) Valor de intensidade no ano de término da meta para todos os Escopos selecionados (toneladas métricas de CO2e por unidade de atividade)

2.7604000000

(7.53.2.59) Porcentagem de variação prevista nas emissões absolutas de Escopo 3

(7.53.2.62) Valor de intensidade no ano de reporte para o Escopo 3, Categoria 1: Bens e serviços adquiridos (toneladas métricas de CO2e por unidade de atividade)

3.99

(7.53.2.79) Valor de intensidade no ano de reporte para o total de Escopo 3 (toneladas métricas de CO2e por unidade de atividade)

3.9900000000

(7.53.2.80) Valor de intensidade no ano de reporte para todos os Escopos selecionados (toneladas métricas de CO2e por unidade de atividade)

3.9900000000

(7.53.2.81) Emissões relacionadas à terra abrangidas pela meta

Selecione de:

Não, não abrange nenhuma emissão relacionada à terra (p. ex., SBT não FLAG)

(7.53.2.82) Porcentagem da meta alcançada com relação ao ano-base

9.56

(7.53.2.83) Status da meta no ano de reporte

Selecione de:

Em andamento

(7.53.2.85) Explique a abrangência da meta e identifique eventuais exclusões

Marfrig continues to develop actions and programs to improve the management of GHG emissions in its operations. In this sense, it developed the methodological update of its GHG Inventory, updating the Emission Factors to more recent values, and with local characteristics, whenever possible. With the most assertive and

reliable result of its GHG emissions, the company developed, based on the 2019 GHG Inventory, new goals for reducing GHG emissions. The targets were developed in accordance with the methodology and meeting the criteria of the Science-Based Target Initiative, together with the analysis of the potential for reducing GHG emissions in Marfrig Global Foods' operations. The targets were developed by the consultancy ARCA Sustentabilidade, and were submitted and approved by the SBTi in 2022. Therefore, we consider them to be science-based targets. The reported target refers to the target to reduce GHG emissions from indirect operations (Scope 3) of enteric fermentation and manure management of livestock purchased from third parties in the category of purchased goods and services and represents the long-term target (2035). The intensity target considers only this emission source from the purchased goods and services category, since this isolated source called "livestock purchase" (emissions from enteric fermentation and waste management) represents more than 90% of total emissions and 95 % of base year 2019 Scope 3 emissions. As most Scope 3 emissions come from a single emissions category, this should be the target when developing a GHG emissions reduction target. The intensity is calculated by the emissions from the purchase of cattle and the number of slaughtered heads purchased from third parties.

(7.53.2.86) Objetivo da meta

Marfrig was the first animal protein company in the Americas to commit to the SBTi. Through the SBTi, we make transparent the measures we have adopted to contribute to the Paris Agreement's goal of limiting global warming to 2C. It is worth noting that we have set even more ambitious goals, aiming to limit global warming to 1.5C. In addition to establishing clear emissions reduction targets based on scientific studies and research, other movements reinforce our commitment to minimizing the impacts of our activities and operations on climate change, such as the Net-Zero Ambition Movement. In short, the establishment of this goal reflects Marfrig's commitment to acting against the impacts of climate change, not only in its operations, but throughout its supply chain by considering exposure to identified climate risks; as well as keeping reports and initiatives transparent for investors and other stakeholders.

(7.53.2.87) Plano para alcançar a meta e progresso realizado até o fim do ano de reporte

Marfrig will work with farms that supply animals for slaughter, with a view to improving the cattle production system through low GHG emission techniques. For this to happen, Marfrig understands that influencing its value chain and the quality of data provided by partners is a very important point, strengthening collaboration relationships with its suppliers. Currently, the calculated emissions consider a conventional grazing system. The company's strategy involves, first, a separation between conventional systems and low GHG emission systems and soon after an increase in low GHG emission systems, such as Crop-Livestock Integration (ILP), Crop-Livestock-Forest Integration (ILPF), organic production system and others. In addition, the slaughter of younger cattle contributes to the reduction of emissions, when compared to the slaughter of older cattle, since the emission factor is associated with the age of the animal and the time spent in the pasture.

(7.53.2.88) Meta derivada por meio do uso de uma abordagem de descarbonização setorial

Selecione de:

Não

[Adicionar linha]

(7.54) Havia alguma outra meta climática ativa no ano de reporte?

Selecione todos os aplicáveis

Metas de aumento ou manutenção do consumo ou da produção de energia de baixo carbono

(7.54.1) Forneça detalhes das metas da organização para aumentar ou manter o consumo ou a produção de energia de baixo carbono.

Row 1

(7.54.1.1) Número de referência da meta

Selecione de:

Low 1

(7.54.1.2) Data em que a meta foi definida

04/14/2022

(7.54.1.3) Abrangência da meta

Selecione de:

Na organização como um todo

(7.54.1.4) Tipo de meta: vetor de energia

Selecione de:

Eletricidade

(7.54.1.5) Tipo de meta: atividade

Selecione de:

Consumo

(7.54.1.6) Tipo de meta: fonte de energia

Selecione de:

Somente fonte(s) de energia renovável

(7.54.1.7) Data de término do ano-base

12/31/2019

(7.54.1.8) Consumo ou produção do vetor de energia selecionado no ano-base (MWh)

804234.36

(7.54.1.9) Participação percentual das energias renováveis ou de baixo carbono no ano-base

27.19

(7.54.1.10) Data de término da meta

12/31/2025

(7.54.1.11) Participação percentual das energias renováveis ou de baixo carbono na data de término da meta

80

(7.54.1.12) Participação percentual das energias renováveis ou de baixo carbono no ano de reporte

54.35

(7.54.1.13) Porcentagem da meta alcançada com relação ao ano-base

51.43

(7.54.1.14) Status da meta no ano de reporte

Selecione de:

Em andamento

(7.54.1.16) Esta meta faz parte de uma meta de emissões?

(7.54.1.17) Esta meta faz parte de uma iniciativa abrangente?

Selecione todos os aplicáveis

- RE100
- Science Based Targets initiative

(7.54.1.18) Carta de validação oficial da Science Based Targets initiative

MARF-BRA-002-OFF-Validation Letter.pdf

(7.54.1.19) Explique a abrangência da meta e identifique eventuais exclusões

This target is part of the company's absolute reduction target for Scopes 1 and 2, reported in the "ABS 1" target. As one of the ways to achieve the GHG emissions reduction target, the company has adopted the target of increasing the proportion of electricity from renewable sources in its operations, covering all operations of the organization.

(7.54.1.20) Objetivo da meta

Marfrig was the first animal protein company in the Americas to commit to the SBTi. Through the SBTi, we make transparent the measures we have adopted to contribute to the Paris Agreement's goal of limiting global warming to 2C. It is worth noting that we have set even more ambitious goals, aiming to limit global warming to 1.5C. In addition to establishing clear emissions reduction targets based on scientific studies and research, other movements reinforce our commitment to minimizing the impacts of our activities and operations on climate change, such as the Net-Zero Ambition Movement. In short, the establishment of this goal reflects Marfrig's commitment to acting against the impacts of climate change, not only in its operations, but throughout its supply chain by considering exposure to identified climate risks; as well as keeping reports and initiatives transparent for investors and other stakeholders. This goal is part of the commitment made to the SBTi goal.

(7.54.1.21) Plano para alcançar a meta e progresso realizado até o fim do ano de reporte

Marfrig has committed to having 80% of its energy come from renewable sources by 2025 and 100% in 2030 in line with RE100 – and this is one of the main actions to reach the reduction target in 2035.

Row 3

(7.54.1.1) Número de referência da meta

Selecione de:

Low 2

(7.54.1.2) Data em que a meta foi definida

04/14/2022

(7.54.1.3) Abrangência da meta

Selecione de:

Na organização como um todo

(7.54.1.4) Tipo de meta: vetor de energia

Selecione de:

Eletricidade

(7.54.1.5) Tipo de meta: atividade

Selecione de:

Consumo

(7.54.1.6) Tipo de meta: fonte de energia

Selecione de:

Somente fonte(s) de energia renovável

(7.54.1.7) Data de término do ano-base

12/31/2019

(7.54.1.8) Consumo ou produção do vetor de energia selecionado no ano-base (MWh)

804234.36

(7.54.1.9) Participação percentual das energias renováveis ou de baixo carbono no ano-base

27.19

(7.54.1.10) Data de término da meta

12/31/2030

(7.54.1.11) Participação percentual das energias renováveis ou de baixo carbono na data de término da meta

100

(7.54.1.12) Participação percentual das energias renováveis ou de baixo carbono no ano de reporte

54.35

(7.54.1.13) Porcentagem da meta alcançada com relação ao ano-base

37.30

(7.54.1.14) Status da meta no ano de reporte

Selecione de:

Em andamento

(7.54.1.16) Esta meta faz parte de uma meta de emissões?

Abs 1

(7.54.1.17) Esta meta faz parte de uma iniciativa abrangente?

Selecione todos os aplicáveis

RE100

Science Based Targets initiative

(7.54.1.18) Carta de validação oficial da Science Based Targets initiative

MARF-BRA-002-OFF-Validation Letter.pdf

(7.54.1.19) Explique a abrangência da meta e identifique eventuais exclusões

This target is part of the company's absolute reduction target for Scopes 1 and 2, reported in the "ABS 1" target. As one of the ways to achieve the GHG emissions reduction target, the company has adopted the target of increasing the proportion of electricity from renewable sources in its operations, covering all operations of the organization.

(7.54.1.20) Objetivo da meta

Marfrig was the first animal protein company in the Americas to commit to the SBTi. Through the SBTi, we make transparent the measures we have adopted to contribute to the Paris Agreement's goal of limiting global warming to 2C. It is worth noting that we have set even more ambitious goals, aiming to limit global warming to 1.5C. In addition to establishing clear emissions reduction targets based on scientific studies and research, other movements reinforce our commitment to minimizing the impacts of our activities and operations on climate change, such as the Net-Zero Ambition Movement. In short, the establishment of this goal reflects Marfrig's commitment to acting against the impacts of climate change, not only in its operations, but throughout its supply chain by considering exposure to identified climate risks; as well as keeping reports and initiatives transparent for investors and other stakeholders. This goal is part of the commitment made to the SBTi goal.

(7.54.1.21) Plano para alcançar a meta e progresso realizado até o fim do ano de reporte

Marfrig has committed to having 80% of its energy come from renewable sources by 2025 and 100% in 2030 in line with RE100 – and this is one of the main actions to reach the reduction target in 2035.

[Adicionar linha]

(7.55) A organização tinha iniciativas de redução de emissões ativas no ano de reporte? Observe que isto pode incluir aquelas nas fases de planejamento e/ou implementação.

Selecione de:

Sim

(7.55.1) Identifique o número total de iniciativas em cada estágio de desenvolvimento; para aquelas no estágio de implementação, identifique a economia de CO2e estimada.

| | Número de iniciativas | Economia anual total estimada de CO2e em toneladas métricas de CO2e (somente para linhas marcadas com *) |
|------------------------|-----------------------|--|
| Em fase de pesquisa | 0 | <i>Entrada numérica</i> |
| A ser implementada | 0 | 0 |
| Implementação iniciada | 0 | 0 |
| Implementada | 1 | 71.62 |
| Não será implementada | 0 | <i>Entrada numérica</i> |

[Linha fixa]

(7.55.2) Forneça detalhes na tabela abaixo sobre as iniciativas implementadas no ano de reporte.

Row 1

(7.55.2.1) Categoria de iniciativa e Tipo de iniciativa

Política da empresa ou mudança comportamental

Engajamento dos fornecedores

(7.55.2.2) Economia anual estimada de CO2e (toneladas métricas de CO2e)

71.62

(7.55.2.3) Escopo(s) ou categoria(s) do Escopo 3 em que ocorrem as reduções nas emissões

Selecione todos os aplicáveis

Escopo 3, categoria 1: Bens e serviços adquiridos

(7.55.2.4) Voluntária/obrigatória

Selecione de:

Voluntária

(7.55.2.5) Economia monetária anual (unidade monetária – conforme especificada em C0.4)

0

(7.55.2.6) Investimento necessário (unidade monetária – conforme especificado em C0.4)

38712849

(7.55.2.7) Período de retorno

Selecione de:

Nenhum retorno

(7.55.2.8) Vida útil estimada da iniciativa

Selecione de:

> 30 anos

(7.55.2.9) Explique

Marfrig has launched the Viva brand, a line of meats with sustainable characteristics, in partnership with Embrapa. Carbon neutral meat (CCN) is a certification of cattle raised in silvopastoral (livestock-forest) or agrosilvopastoral (crop-livestock-forest, ILPF) integration systems. Marfrig invested approximately R10 million in the development of Viva. Research, property certification, brand building, cutting standards, advertising and royalties. The products in the Viva Carbon Neutral Meat line were developed by Embrapa, which reduces methane emissions. Neutrality is guaranteed by certification and verification by independent auditors who purchase carbon absorption in the integration. The objective of the strategic collaboration is to increase the added value of Brazilian beef by creating conceptual brands adapted to the needs of livestock producers, based on scientific research and international standards. Carbon neutral meat production increases the domestic market and will allow meat to be exported to more demanding countries, making the Brazilian product more distinctive in terms of sustainability. Next, we have the volume of animals slaughtered, calculating the emissions avoided for animals of the same age.

[Adicionar linha]

(7.55.3) Que métodos são utilizados para estimular os investimentos em atividades de redução de emissões?

Row 1

(7.55.3.1) Método

Selecione de:

- Orçamento dedicado à eficiência energética

(7.55.3.2) Explique

Marfrig Global Foods encourages proposals for implementation of projects that reduce the consumption of non-renewable energy resources (coal and fossil fuels) in its operations. The company has taken actions to reduce energy consumption across its facilities and to replace the sources used for more sustainable alternatives. In this sense, equipment has been replaced by others with greater efficiency and efforts are being made to reuse the thermal energy in boilers and rendering, among other examples. For example, the installation of the wind farm in Uruguay. Tacuarembó slaughterhouse has completed and started operations of a wind farm for its own consumption. Wind power will enable power generation to meet, on average, about 30% of the plant's demand, in line with Marfrig's efforts to move towards increasingly sustainable and clean production. For this wind farm project, about US\$5,000,000.00 were invested.

Row 3

(7.55.3.1) Método

Selecione de:

- Conformidade com requisitos/normas regulamentares

(7.55.3.2) Explique

Integrity is one of the values that guide the business of Marfrig Global Foods, a concept reinforced by the fact that the Company has a history of operations marked by its good reputation and respect for society. Compliance with regulatory requirements and standards required in the various regions where the company operates is a non-negotiable requirement in our direct and indirect activities. In addition to complying with laws, regulations and internal requirements, Marfrig has a strong set of values and principles that are applied in every country we operate. Our primary goal is to ensure our investments bring benefits to our shareholders and to the countries where we operate. Marfrig's environmental requirements are mandatory in all our plants. This driver is focused in places where regulations are being drafted for the next years, such as Brazil. The value of carbon (current and projected) in emissions trading systems is included in this topic as an important driver.

Row 4

(7.55.3.1) Método

Selecione de:

- Especificação de menor retorno sobre o investimento (ROI)

(7.55.3.2) Explique

Projects involving generation of renewable energy from clean sources and other sustainability projects are assessed separately based on various parameters, such as energy savings in absolute GJ, absolute CO2 emission reduction, absolute water savings and ROI. Projects with a longer return time (approximately 6 years) are accepted for emission reduction activities.

Row 5

(7.55.3.1) Método

Selecione de:

- Parceria com governos para o desenvolvimento de tecnologias

(7.55.3.2) Explique

Some initiatives are driven by the engagement not only of "nongovernmental" government institutions, but also of private and public entities. Marfrig Global Foods maintains constant contact with private and public entities to discuss and promote new technologies. For example, in 2018, Marfrig established a partnership with the Brazilian Agricultural Research Company (Embrapa), designed to foster the adoption of more sustainable practices in livestock management. The initiative covers the production concepts of Neutral Carbon Meat (CCN - Carne Carbono Neutro) - and Low Carbon Meat (CBC - Carne de Baixo Carbono), developed by Embrapa for the certification of meat produced in systems that neutralize or reduce the emission of methane by animals, strengthening value added to the chain. This initiative represents a breakthrough in the industry's value chain, and reinforces Marfrig's commitment with a sustainable production system. Through this initiative, both the domestic market and the export of meat - especially for more demanding markets - are strengthened, since it differentiates the Brazilian product in non-tariff negotiations involving good sustainability practices issues.

[Adicionar linha]

(7.67) São implementadas práticas de manejo agrícola ou florestal nas terras próprias da organização com benefícios para a mitigação e/ou a adaptação às mudanças climáticas?

Selecione de:

- Sim

(7.67.1) Especifique a(s) prática(s) de manejo agrícola ou florestal implementada(s) nas terras próprias da organização com benefícios para a mitigação e/ou a adaptação às mudanças climáticas e forneça um valor de emissões correspondente, se conhecido.

Row 1

(7.67.1.1) Número de referência da prática de manejo

Selecione de:

MP1

(7.67.1.2) Prática de manejo

Selecione de:

Compostagem

(7.67.1.3) Descrição da prática de manejo

The manure generated in the "El Impulso" feedlot in Uruguay is removed from the feedlots approximately every 90 days. The volume of waste generated makes it impossible to dispose of it directly on the ground without any type of treatment. When removed, it is mixed with other waste generated on the farm (food scraps, material deposited in leachate collection and conduction channels from the pens and material removed from the sedimentation ponds), and a biological treatment process is set up in which a biological treatment process is developed that allows the release of organic solids. During this process, the activity of different types of microorganisms, mainly anaerobic and facultative, is developed and stimulated. With no biological process taking place, an organic source of extinction is subjected to a composting process through which a stabilized fraction is increased, generating a product containing organic matter whose characteristics allow it to be consumed by soil microorganisms more quickly and with less complexity than if it were applied directly to the soil. The correct mixture of waste and the proper assembly of the piles prevent the environmental conditions suitable for the development of microorganisms, ensuring the reduction of the organic fraction of the treated waste and promoting environmental gains and increased soil fertility. Once mature, the material is used as a soil corrective (category B, according to the National Directorate of Quality and Environmental Assessment (DINACEA)) on the company's own properties, on neighboring properties and for use in green areas in the municipalities of Soriano and Río Negro, to which the company delivers the material using vehicles contracted for this purpose. The practice is innovative and the company and the compost generated are already being used on the property.

(7.67.1.4) Principal benefício relacionado às mudanças climáticas

Selecione de:

Redução das emissões (mitigação)

(7.67.1.5) Economia estimada de CO2e (toneladas métricas de CO2e)

6194

(7.67.1.6) Explique

Emissions generated from manure management at Marfrig's own confinement unit were considered avoided because the unit carries out waste treatment. The IPCC AR4 emission factors were used for the calculation.

[Adicionar linha]

(7.68) A organização incentiva seus fornecedores a adotarem práticas de manejo agrícola ou florestal com benefícios para a mitigação e/ou a adaptação às mudanças climáticas?

Selecione de:

Sim

(7.68.1) Especifique quais práticas de manejo agrícola ou florestal com benefícios para a mitigação e/ou a adaptação às mudanças climáticas a empresa incentiva seus fornecedores a adotar e descreva seu papel na implementação de cada prática.

Row 1

(7.68.1.1) Número de referência da prática de manejo

Selecione de:

MP1

(7.68.1.2) Prática de manejo

Selecione de:

Considerações sobre biodiversidade

(7.68.1.3) Descrição da prática de manejo

Marfrig encourages its suppliers through the Marfrig Club Sustainable Practices Guide to have a written plan that points out actions to favor habitats and increase biodiversity in the production unit. In addition, they must maintain forest areas on the property. In Marfrig's Sustainability Policy, the company establishes and also reinforces its commitment to contribute so that ranchers recognize the challenges imposed by climate change and impacts on biodiversity - such as the increase in temperature and the possibilities of resistance to medicines, for example - and take measures to adapt production to this reality, mitigating impacts on the environment, strengthening the program. One of the management practices required by Marfrig of its supplier farms, within the Marfrig Club Program, is to have a written plan that points out actions to favor habitats and increase biodiversity in the production unit. This plan can be specific to the production unit or be a regional plan, if it encompasses or participates in the production unit. In this way, the company engages farms to prepare or participate in a biodiversity management plan, so as not to cause impacts on the region's fauna, flora and ecosystem services. In addition, the company prohibits the use of burning as a management practice on the properties. For units that follow specific protocols, such as those in Rio Grande do Sul (Brazil), which follow the Alianza del Pastizal protocol, there are more conservative management practices, such as having more than 50% of natural pasture. These measures contribute to the maintenance of protected areas and ecosystem services for regulating, in order to mitigate the effects of climate change in the region, in addition to increasing business resilience to this phenomena.

(7.68.1.4) O papel da organização na implementação

Selecione todos os aplicáveis

- Compartilhamento de conhecimentos

(7.68.1.5) Explicação sobre como a organização incentiva a implementação

Animal supply farms must meet at least the three prerequisites for supplying animals to Marfrig (Marfrig Club Protocol, beginner level), being: 1. Animal: Issue the Animal Transit Guide (GTA) 2. Environmental: Not being embargoed by IBAMA 3. Social: Not being on the slave labor blacklist Given the prerequisites, they are able to be slaughtered for the company and therefore considered Marfrig Club beginner level, where they meet more than 10% of the requirements of the evaluated pillars (environmental, social and animal). The management practice reported refers to the compliance with the environmental pillar of the Marfrig Club program. Other requirements requested from suppliers are the presentation of documents, such as proof of Land Regularity Registration (SNCR), Rural Environmental Registry (CAR), Letter of Guarantee, Marfrig Club Protocol Checklist, Invoice and Animal Transit Guide (GTA), among others. To encourage the adoption of these best practices, producers are classified as beginners, bronze, silver or gold, according to their adherence to the pillars of the Marfrig Club. This recognition stems from periodic checks on properties, made to attest to adherence to good practices and to identify progress. In order to improve the classification of the supplying farm within the program, it must increase the percentage of achievement in each pillar, following the sustainable practices manual for the rural producer of the Marfrig Club program. Currently, 100% of direct suppliers – around 9 thousand – participate in the program and are included in these categories. And in 2023, 19% of producers improved practices, moving to higher ratings.

(7.68.1.6) Benefício relacionado às mudanças climáticas

Selecione todos os aplicáveis

- Aumento da resiliência às mudanças climáticas (adaptação)
- Aumento do reservatório de carbono (mitigação)

(7.68.1.7) Explique

To assess the benefits of Marfrig's sustainable management practices for climate change, several methods and tools are used. The company requires its farms to develop a plan to promote habitats and biodiversity, monitored by environmental audits and geoprocessing systems. Forest maintenance is monitored with satellite images and drones to assess vegetation coverage and health.

Row 2

(7.68.1.1) Número de referência da prática de manejo

Selecione de:

MP2

(7.68.1.2) Prática de manejo

Selecione de:

Manejo de gado

(7.68.1.3) Descrição da prática de manejo

In 2020, we launched the Viva! brand, a line of meat cuts produced under the concept of Carbon Neutral Meat (CCN). In this format, the animals are raised in systems that integrate livestock-forest, which allow to neutralize the methane emissions made by the animals. For this, techniques such as Livestock Crop Integration (ILP) and Forest Livestock Integration (ILPF) are used, aimed at reconciling and balancing pastures and biodiversity. These models are the result of an unprecedented partnership that we established with the Brazilian Agricultural Research Corporation (Embrapa), in 2018, to encourage the adoption of more sustainable livestock practices, certifying meat derived from such systems. In addition to the Carbon Neutral Meat (CCN), we are also working together on the Low Carbon Meat (CBC) concept, which will be launched soon. This partnership with Embrapa is in line with the principle that we must encourage changes in production and management systems, such as the rotation of pastures and the integration of livestock systems with forest and agricultural production. We also encourage suppliers to use free-livestock breeding methods, with feed consisting predominantly of pasture. The use of soy in diets, when there is a practice of food supplementation, is discouraged when it is not possible to verify the origin, a conduct that seeks to ensure that the product does not come from areas of deforestation. This practice is consistent with our conduct of supporting initiatives that promote the control of deforestation in commodity chains. Carbon neutral meat from ILPF systems is produced on pasture coupled with planted forest (the main species is eucalyptus). In this format, the ox enters the pasture at the age of 10 months, stays the time necessary for breeding and fattening and leaves ready for slaughter. This ensures that emissions are neutralized by the growth of eucalyptus, as long as the wood maintains the carbon stock, being preferably sent to the sawmill or furniture industry, rather than to firewood or cellulose manufacture. We are concentrating this type of production in Mato Grosso do Sul, where the largest long-cycle eucalyptus pole is located, which is destined for solid wood. In 2021, about 1% of the cattle slaughtered in Brazil came from this system, and it is the company's objective that this percentage grows as the program matures.

(7.68.1.4) O papel da organização na implementação

Selecione todos os aplicáveis

- Compartilhamento de conhecimentos
- Operacional

(7.68.1.5) Explicação sobre como a organização incentiva a implementação

The partnership aims to place low-carbon meat and carbon-neutral meat on the market and explore a niche market with great growth potential, food produced through sustainable processes. This initiative is an advance in the sector's value chain, and reinforces Marfrig's commitment to sustainable production. Marfrig uses its market potential to operationalize the production of these production systems, with the objective of validating the technical and economic viability and introducing this product in a growing market. Also, Marfrig works on the evolution of its suppliers in order to engage them to adapt the conditions for production within these two concepts. Although in a pilot phase, the expectation of a positive impact from these management practices is high, given the potential to reduce GHG emissions from the livestock chain. Suppliers belonging to the program are instructed to obey the guide in order to follow Marfrig's quality standards. In 2023, about 1% of the cattle slaughtered in Brazil came from this system, and it is the company's objective that this percentage grows as the program matures.

(7.68.1.6) Benefício relacionado às mudanças climáticas

Selecione todos os aplicáveis

- Redução nas emissões (mitigação)
- Aumento da resiliência às mudanças climáticas (adaptação)
- Aumento do reservatório de carbono (mitigação)
- Redução na demanda por fertilizantes (adaptação)
- Redução na demanda por pesticidas (adaptação)

(7.68.1.7) Explique

Carbon-Neutral Beef certification involves measuring methane emissions and calculating carbon sequestration by forests, verified by independent audits and protocols such as ISO 14064. In addition, pasture rotation and integration with agricultural systems are assessed through soil productivity and health analyses, using monitoring tools and carbon accounting software. These methods ensure that sustainable practices actually contribute to climate change mitigation.

[Adicionar linha]

(7.68.2) A organização coleta informações dos seus fornecedores sobre os resultados de eventuais práticas de manejo agrícola/florestal que tenha incentivado?

Selecione de:

Sim

(7.69) A organização sabe se alguma das práticas de manejo implementadas em suas próprias terras divulgadas em 7.67.1 tem outros impactos além da mitigação/adaptação às mudanças climáticas?

Selecione de:

Sim

(7.69.1) Dê detalhes das práticas de manejo que tiverem outros impactos além da mitigação/adaptação às mudanças climáticas e sobre a resposta de manejo da organização.

Row 1

(7.69.1.1) Número de referência da prática de manejo

Selecione de:

MP1

(7.69.1.2) Efeito geral

Selecione de:

Positiva

(7.69.1.3) Quais das seguintes opções sofreram impactos?

Selecione todos os aplicáveis

Solo

Água

(7.69.1.4) Descrição do impacto

Organic compounds, such as those produced at the "El Impulso" Feedlot in Uruguay, improve the soil in several ways compared to chemical fertilizers. The soil must be understood as a structure that supports plants and other living beings. Organic compost benefits the soil by increasing the amount of organic matter that is available to plants and microorganisms. Healthier soil facilitates plant development and brings productive gains to the property. Organic compost releases nutrients

more slowly and steadily, which allows plants to make better use of nutrients and reduces nutrient loss through leaching. The activity of microorganisms is an important factor; these microorganisms remain in the soil and are protected and in a favorable environment thanks to vegetation and organic matter. Another benefit of soil rich in organic matter is greater water retention, which is important during periods of low rainfall. It also protects the soil from increased risk of erosion and keeps the temperature lower than in exposed soils. Another great point in the composting process is that organic compounds help to reduce pollution caused by chemical fertilizers due to their excessive use in soil and water. Composting also recycles organic waste, preventing it from being disposed of incorrectly.

(7.69.1.5) Foi implementada alguma resposta a esses impactos?

Selecione de:

Sim

(7.69.1.6) Descrição da resposta

The "El Impulso" feedlot in Uruguay has taken several measures to control, reduce, control and adjust the environmental effects caused by the volume of manure produced in its feedlot. A detailed description of these actions is available here: Every 90 days, the manure is removed from the confinement in accordance with health standards and to avoid environmental problems associated with contamination and bad odors. A treatment process is then initiated via manure composting. Composting through the activity of microorganisms promotes the degradation of organic solids. This biological process transforms the residue into a compound that can be used as fertilizer. The National Directorate of Quality and Environmental Assessment (DINACEA) authorizes the use of the compost in pastures and in agriculture in general. The environmental gains of the process are significant since they minimize environmental risks such as contamination of water resources and soil, in addition to being a source of cost reduction for the company, since it does not require the purchase of chemical fertilizers. In addition, composting reduces emissions from waste management, helping to minimize the effects of global warming. The composting process is implemented throughout Feedlot's operations and is continuously monitored to ensure that the compost produced is effective in its purpose of providing benefits to the soil and sustainable by avoiding contamination from waste management.

[Adicionar linha]

(7.70) A organização sabe se alguma das práticas de manejo mencionadas em 7.68.1 implementadas pelos seus fornecedores têm outros impactos além da mitigação/adaptação às mudanças climáticas?

Selecione de:

Sim

(7.70.1) Forneça detalhes das práticas de manejo implementadas pelos fornecedores da organização que tiverem outros impactos além da mitigação/adaptação às mudanças climáticas.

Row 1

(7.70.1.1) Número de referência da prática de manejo

Selecione de:

MP1

(7.70.1.2) Efeito geral

Selecione de:

Positiva

(7.70.1.3) Quais das seguintes opções sofreram impactos?

Selecione todos os aplicáveis

Solo

Água

(7.70.1.4) Descrição dos impactos

In addition to the impacts already mentioned in C-AC12.2a, the Marfrig Club Program also includes other practices within its Sustainable Practices Guide, which aims to support producing farms. Water management practices can be cited. All residences and other structures of the rural properties supplying within the Marfrig Club Program must have a correct reception and / or sewage treatment. In case there is no sewage treatment, the pits will have to be a minimum distance of 15 meters from water wells. They must also wash empty pesticide packaging at a minimum distance of 30m from water wells, rivers and tributaries. The properties must also have vegetation preserving springs and water courses. These actions aim to reduce the impacts of our suppliers' activities on the quality and availability of water resources in the regions where they operate. The initiative aims to reduce water risks associated with the quality and quantity of water available to our suppliers and our own production units, which are some distance away from suppliers. Currently, 100% of direct suppliers – around 9 thousand – participate in the program and are included in these categories. And in 2023, 19% of producers improved practices, moving to higher ratings.

(7.70.1.5) Foi implementada alguma resposta a esses impactos?

Selecione de:

Sim

(7.70.1.6) Descrição da(s) resposta(s)

As a way to further improve the management of water resources at our suppliers, we have published on our website booklets of good practices involving water efficiency in animal husbandry, prepared by Embrapa (Brazilian Agricultural Research Corporation). We also provide guides (also prepared by Embrapa) for the

construction of septic tanks in the properties, in order to prevent the sewage produced in the rural properties from being discarded without treatment. Currently, 100% of direct suppliers – around 8 thousand – participate in the program and are included in these categories. And in 2023, 19% of producers improved practices, moving to higher ratings. All of these materials can be checked on our website <https://sustentabilidade.marfrig.com.br/#/>
[Adicionar linha]

(7.73) Estão sendo fornecidos dados no nível do produto para os bens ou serviços da organização?

Selecione de:

Não, não forneceremos os dados

(7.74) A organização classifica algum dos seus bens e/ou serviços existentes como produto de baixo carbono?

Selecione de:

Sim

(7.74.1) Dê detalhes dos produtos e/ou serviços que a organização classifica como produtos de baixo carbono.

Row 1

(7.74.1.1) Nível de agregação

Selecione de:

Produto ou serviço

(7.74.1.2) Taxonomia utilizada para classificar o(s) produto(s) ou serviço(s) como de baixo carbono

Selecione de:

Nenhuma taxonomia utilizada para classificar o(s) produto(s) ou serviço(s) como de baixo carbono

(7.74.1.3) Tipo do(s) produto(s) ou serviço(s)

Outros

Outro, especifique :Brazilian Carbon Neutral Meat (CNBB)

(7.74.1.4) Descrição do(s) produto(s) ou serviço(s)

We have adopted production models based on low-carbon technologies for livestock farming, which allows us to offer differentiated products to consumers. This is the case, for example, with our Viva! product line, produced under the umbrella of Brazilian Carbon Neutral Meat (CNBB). According to this formula, animals are raised in systems that integrate them with forests as a way to neutralize animal methane emissions. Such systems operate under the concept of Crop-Livestock-Forest Integration (ILF), a way to create balance and preserve biodiversity. These models are the result of an unprecedented partnership that we established with the Brazilian Agricultural Research Corporation (Embrapa) in 2018. The partnership promotes the adoption of sustainable practices in livestock farming and certifies meat derived from these practices. In addition to Brazilian Carbon Neutral Meat (CNBB), we are also working together on the concept of Low-Carbon Brazilian Meat (LCBB); we expect a product launch soon. In 2021, Marfrig produced 1,042 tons of certified organic meat. As this is a niche product, unfortunately the monetary volumes generated are negligible, which is why this data is not segregated from other production data.

(7.74.1.5) A organização fez uma estimativa das emissões evitadas por este(s) produto(s) ou serviço(s) de baixo carbono?

Selecione de:

Sim

(7.74.1.6) Metodologia utilizada para calcular as emissões evitadas

Selecione de:

Outro, especifique :IPCC AR4

(7.74.1.7) Estágio(s) do ciclo de vida abrangido(s) para o(s) produto(s) ou serviço(s) de baixo carbono

Selecione de:

<i>Cradle-to-grave</i> (“do berço ao túmulo”)

(7.74.1.8) Unidade funcional utilizada

Bataguassu - MS

(7.74.1.9) Produto/serviço de referência ou cenário de base utilizado

Carne Carbono Neutro Brasileira (CNBB)

(7.74.1.10) Estágio(s) do ciclo de vida abrangido(s) para o produto/serviço de referência ou o cenário de base

Selecione de:

<i>Cradle-to-grave</i> (“do berço ao túmulo”)

(7.74.1.11) Estimativa das emissões evitadas (toneladas métricas de CO2e por unidade funcional) com relação ao produto/serviço de referência ou ao cenário de base

316380.22

(7.74.1.12) Explique os cálculos de emissões evitadas, incluindo eventuais suposições

In the conventional livestock system, information is collected on pasture area, number of animals, type of feed, stocking rate and management practices. Based on these data, we can estimate GHG emissions associated with animal enteric methane, which is released during the digestion process. In the ILPF system, in addition to the data mentioned above, additional information about the trees planted, the crop area and other components of the system are also considered. With these data, we can estimate GHG emissions related to carbon sequestration by trees and the increase in vegetation biomass in the system. To calculate the reduction in GHG emissions, we compare the estimated emissions in the two systems. The difference between the emissions of the conventional livestock system and the emissions of the ILPF system will represent the amount of GHGs that are being avoided through the adoption of the ILPF. In addition, to achieve carbon neutrality, Marfrig invests in the use of renewable energy sources in its production units. These renewable energy sources are used to supply part of the operations, reducing dependence on fossil fuels and, consequently, GHG emissions associated with energy consumption. The use of renewable energies is a strategic way of making Marfrig's operations more sustainable and contributing to the reduction of carbon emissions. The company prioritizes the efficient use of natural resources in its production units. It implements water conservation and reuse measures, as well as technologies aimed at reducing energy consumption in its operations. Marfrig invests in cleaner production technologies with less waste generation, aiming to reduce the waste of natural resources and minimize the generation of pollutants. These practices contribute to the reduction of GHG emissions associated with energy consumption and water use.

(7.74.1.13) Receita gerada com produto(s) ou serviço(s) de baixo carbono como porcentagem do total de receita no ano do reporte

1

[Adicionar linha]

(7.79) A organização cancelou créditos de carbono com base em projetos no ano de reporte?

Selecione de:

Não

C8. Desempenho ambiental – Florestas

(8.1) Existem exclusões da divulgação de dados florestais da organização?

| | Exclusões da divulgação |
|------------------------------|--|
| Produto florestal madeireiro | Selecione de: <input checked="" type="checkbox"/> Não |
| Produtos da pecuária | Selecione de: <input checked="" type="checkbox"/> Não |
| Soja | Selecione de: <input checked="" type="checkbox"/> Não |

[Linha fixa]

(8.2) Apresente uma decomposição por *commodity* do volume divulgado.

Produto florestal madeireiro

(8.2.1) Volume de divulgação (toneladas métricas)

116762.66

(8.2.2) Tipo de volume

Selecione todos os aplicáveis

Aprovisionado

(8.2.4) Volume provisionado (toneladas métricas)

116762.66

Produtos da pecuária

(8.2.1) Volume de divulgação (toneladas métricas)

1693095.13

(8.2.2) Tipo de volume

Selecione todos os aplicáveis

- Produzido
- Provisionado

(8.2.3) Volume produzido (toneladas métricas)

8005.6

(8.2.4) Volume provisionado (toneladas métricas)

1685089.53

Soja

(8.2.1) Volume de divulgação (toneladas métricas)

43352.65

(8.2.2) Tipo de volume

Selecione todos os aplicáveis

- Provisionado

(8.2.4) Volume provisionado (toneladas métricas)

43352.65

[Linha fixa]

(8.2.1) Dê detalhes sobre a eventual soja incorporada em produtos animais provisionados pela organização.

Soja

(8.2.1.1) Divulgação da soja incorporada

Selecione de:

Uma parte ou todo o nosso volume de soja incorporada está incluso no nosso "Volume provisionado" conforme reportado na coluna 4 de 8.2

(8.2.1.2) Descrição do uso da soja incorporada e níveis de soja

The use of soy in our direct operations is minimal, resulting in a small number of suppliers, representing less than 2% of our direct input purchases. In our cattle supply chain, predominantly in South America, cattle farming is mainly pasture-based. In this context, only animals finished in confinement systems would be exposed to this type of feed, and even then, some producers choose not to use it. In other words, the use of soy or its derivatives in cattle feed is restricted to a few suppliers during the final fattening phase. In Brazil, for example, around 82% of cattle are raised in extensive, pasture-based systems, according to the 2023 Beef Report by ABIEC (Brazilian Association of Meat Exporting Industries). In the United States and Argentina, the use of soy in animal feed is so small that it can be considered negligible.

(8.2.1.3) Metodologia de cálculo de volume

For each country where Marfrig operates and acquires its cattle, a survey was conducted to determine the average number of days the animals remain in confinement. Additionally, data was collected on how many kilograms of soy an animal consumes in its feed per day. Based on these findings, the amount of soy incorporated by the organization was calculated by multiplying the number of heads of cattle in each country that consumed soy-based feed by the confinement period in days and the amount of soy consumed per head daily. This calculation is more accurate for Marfrig's operations than more general methodologies, such as the Soy Footprint Calculator from the Round Table on Responsible Soy, as it more precisely considers the volumes of cattle that actually consumed soy during their upbringing and accounts for the different realities of soy consumption in each country.

(8.2.1.4) Volume de divulgação da soja incorporada (toneladas métricas)

37799.83

(8.2.1.5) Porcentagem do volume provisionado representado por soja incorporada

87

(8.2.1.6) Sistema de rastreabilidade

Selecione de:

Sim, temos um sistema de rastreabilidade para nossa soja incorporada

(8.2.1.7) Descrição do sistema de rastreabilidade

For our livestock suppliers, to ensure transparency and traceability in soy use, a Due Diligence process is conducted. This verification includes determining whether or not soy is used by the supplier, and if so, whether it is sourced from their own production or purchased from other suppliers. In cases where the direct supplier purchases the input from another source, data and the geographical location of that supplier are requested to assess alignment with Marfrig's socio-environmental criteria. This process has allowed us to make progress in identifying soy-producing areas and their potential links to deforestation, thereby enhancing traceability in our supply chain for this commodity as well. In 2023, only 7.7% of supplier farms in Brazil reported using soy in animal feed.

(8.2.1.8) Porcentagem do volume de divulgação de soja incorporada rastreável até o país/área de produção da soja

100

(8.2.1.9) Porcentagem do volume de divulgação da soja incorporada cuja origem de produção é desconhecida

0

(8.2.1.10) Status de SD/SDC avaliado para a soja incorporada

Selecione de:

Sim, status Sem Desmatamento e Conversão (SDC)

(8.2.1.11) Porcentagem do volume de divulgação da soja incorporada determinado como SD/SDC no ano de reporte

100

(8.2.1.12) Metodologia usada para determinar o status como SD/SDC

Marfrig supports the Soy Moratorium, an initiative aimed at ensuring that soy produced in the Amazon biome is free from deforestation. Therefore, when soy acquisition is necessary for our own operations, we work with major suppliers committed to this initiative, such as ADM, Brevi, BRF Ingredients, and DuPont, all of which have specific policies for purchasing deforestation-free soy. Additionally, Marfrig is involved in several initiatives and partnerships related to commodity sustainability, such as the Tropical Forest Alliance (TFA), which seeks to achieve zero deforestation in the supply chains of beef, palm oil, soy, paper, and pulp. [Linha fixa]

(8.3) Dê detalhes sobre as terras que a organização possui, administra e/ou controla usadas para a produção das <i>commodities</i> divulgadas. [AINDA NÃO DISPONÍVEL]

Produto florestal madeireiro

(8.3.5) Tipo de terra

Selecione de:

Outro tipo de terra, especifique :Não produzimos produtos florestais madeireiros.

(8.3.7) Indique se é possível apresentar o volume produzido nas terras que a organização possui, administra e/ou controla

Selecione de:

Não, outro motivo; especifique :Não produzimos produtos florestais madeireiros.

Produtos da pecuária

(8.3.1) Tipo de controle

Selecione de:

Terras próprias

(8.3.2) País/área

Selecione de:

Uruguai

(8.3.3) Divisão administrativa de primeiro nível

Selecione de:

Estados/jurisdições equivalentes

(8.3.4) Especifique os estados ou jurisdições equivalentes

Mercedes, 5000 Soriano Department, Uruguay

(8.3.6) Área (Hectares)

644

(8.3.7) Indique se é possível apresentar o volume produzido nas terras que a organização possui, administra e/ou controla

Selecione de:

Sim

(8.3.8) Volume produzido nas terras que a organização possui, administra e/ou controla (toneladas métricas)

8005.6

(8.3.9) Porcentagem de área com certificação de terceiros

0

(8.3.10) Esquema de certificação de terceiros

Selecione todos os aplicáveis

Nenhuma área certificada neste país/área, estado ou jurisdição equivalente

Soja

(8.3.7) Indique se é possível apresentar o volume produzido nas terras que a organização possui, administra e/ou controla

Selecione de:

Não, outro motivo; especifique :Não produzimos soja

[Adicionar linha]

(8.4) Indique se alguma das terras que a organização possui, administra e/ou controla não foi usada para a produção das <i>commodities</i> divulgadas no ano de reporte.

Selecione de:

Todas as terras que possuímos, administramos e/ou controlamos são usadas para a produção

(8.5) Dê detalhes das origens dos volumes provisionados da organização.

Produto florestal madeireiro

(8.5.1) País/área de origem

Selecione de:

Brasil

(8.5.2) Divisão administrativa de primeiro nível

Selecione de:

Estados/jurisdições equivalentes

(8.5.3) Especifique os estados ou jurisdições equivalentes

Mato Grosso do Sul; Goiás; Mato Grosso; Rondônia; Rio Grande do Sul; São Paulo; Rio de Janeiro; Minas Gerais; Santa Catarina.

(8.5.4) Volume provisionado proveniente do país/área de origem (toneladas métricas)

116762.66

(8.5.5) Fonte

Selecione todos os aplicáveis

Pequenos produtores independentes

- Produtor de contrato único
- Produtor de contratos múltiplos
- Fornecedores contratados (processadores)
- Fornecedores contratados (fabricantes)

(8.5.7) Explique

These locations cover 100% of the wood products consumed by our company that we currently have traceability from our direct suppliers. Data from direct suppliers are collected through a centralized purchasing system, and reported by each operating unit of the company. These suppliers are located in four Brazilian biomes; Amazonia (Rondônia and part of Mato Grosso); Cerrado (Mato Grosso do Sul, Goiás, Mato Grosso and part of Minas Gerais); Atlantic Forest (São Paulo, Santa Catarina, Rio de Janeiro, part of Minas Gerais and part of Rio Grande do Sul) and Pampas (part of Rio Grande do Sul). Marfrig follows a Policy for the acquisition of biomass inputs that allows that only suppliers legalized by the competent environmental bodies be able to negotiate materials with the company. All Marfrig's wood suppliers (100%) comply with environmental standards. All the environmental management of the biomass purchasing process is the responsibility of the compliance department, which assesses compliance with the minimum requirements for the supply of these materials, including the management of legal requirements, such as the Forest Origin Document, or other specific requirement of the State or Municipality in which it is located. The company also consumes wood products for transporting animals. Part of the purchased pallets is reused as a way to reduce the need for new wood inputs, and the company has been working to increase the share of renewable pallets. Marfrig is also a large consumer of cardboard, as it uses the material to make its products packaging. All cardboard and paper purchased (100%) are FSC-certified, which is part of the selection criteria for suppliers of this material. Part of the cardboard used by the company is recycled.

Produtos da pecuária

(8.5.1) País/área de origem

Selecione de:

- Brasil

(8.5.2) Divisão administrativa de primeiro nível

Selecione de:

- Estados/jurisdições equivalentes

(8.5.3) Especifique os estados ou jurisdições equivalentes

São Paulo; Mato Grosso; Paraná; Goiás; Mato Grosso do Sul; Rondônia; Minas Gerais.

(8.5.4) Volume provisionado proveniente do país/área de origem (toneladas métricas)

490939.59

(8.5.5) Fonte

Selecione todos os aplicáveis

- Pequenos produtores independentes
- Pequenos produtores afiliados à empresa
- Produtor de contrato único
- Produtor de contratos múltiplos

(8.5.7) Explique

Brazil covers 29.13% of the cattle acquired by our company, of the 100% of the cattle that we currently have traceability from our direct suppliers, at the level of the producing farm. Data from direct suppliers is collected through the centralized purchasing system, and reported by each operating unit of the company. These vendors are located in all Biomes. For a farm to be approved and authorized to supply animals to Marfrig, it must meet the requirements regarding the type of management on the property, good environmental conservation practices – which include observing deforestation criteria – and operational legal compliance. The producer cannot be included in the list of Embargoed Areas by IBAMA (Brazilian Institute of the Environment and Renewable Natural Resources) and not have a record of forced or slave-like labor (List of the Ministry of Labor and Employment - MTE - Slave Labor). At the same time, the producer must present proof of Property Registration (SNCR), Rural Environmental Registry (CAR), Letter of Guarantee, Marfrig Club Checklist, Tax Registry, Animal Traffic Invoice and Model A and Model B. Data from direct suppliers is collected through a centralized purchasing system, and informed by each operating unit of the company. Marfrig has made a public commitment against deforestation throughout its production chain in the Amazon and Cerrado biomes, reaffirming the Public Livestock Commitment 2009, through which Marfrig achieved zero deforestation in its production chain and goes even further: it adds commitments to eliminate deforestation throughout its value chain in the Amazon biome by 2025. along the value chain, effectively combating deforestation. The perspective is to achieve free deforestation by 2025 in all Brazilian biomes.. This will be done through mechanisms combined with each other, including chip and livestock play, satellite monitoring, georeferencing of rural properties, blockchain systems and risk maps, which cross vegetation maps with reproduction and recreate suppliers, allowing the identification of areas more susceptible to deforestation.

Soja

(8.5.1) País/área de origem

Selecione de:

- Argentina

(8.5.2) Divisão administrativa de primeiro nível

Selecione de:

Não divulgando

(8.5.4) Volume provisionado proveniente do país/área de origem (toneladas métricas)

3582.8

(8.5.5) Fonte

Selecione todos os aplicáveis

Comerciante/agente/mercado de <i>commodities</i>

(8.5.7) Explique

Data from direct suppliers are collected through a centralized purchasing system, and reported by each operating unit of the company. The use of soybeans in the company's direct operations occurs at its own containment unit, located in Uruguay, although the soy is not of national origin, but rather imported from suppliers in Argentina and Paraguai. The unit uses soybean husk and bran as a complement to animal feed. Despite being a little representative compared to other forest risk products, the company monitors the quantities and origin of the soybeans purchased by the unit.

Soja

(8.5.1) País/área de origem

Selecione de:

Paraguai

(8.5.2) Divisão administrativa de primeiro nível

Selecione de:

Não divulgando

Soja

(8.5.1) País/área de origem

Selecione de:

Uruguai

(8.5.2) Divisão administrativa de primeiro nível

Selecione de:

Estados/jurisdições equivalentes

(8.5.3) Especifique os estados ou jurisdições equivalentes

Artigas; Canelones; Cerro Largo; Colonia; Durazno; Flores; Florida; Lavalleja; Maldonado; Paysandu; Rio Negro; Rivera; Rocha; Salto; San Jose; Soriano; Tacuarembó; Trienta y Tres.

Soja

(8.5.1) País/área de origem

Selecione de:

Brasil

(8.5.2) Divisão administrativa de primeiro nível

Selecione de:

Estados/jurisdições equivalentes

(8.5.3) Especifique os estados ou jurisdições equivalentes

São Paulo; Mato Grosso; Paraná; Goiás; Mato Grosso do Sul; Rondônia; Minas Gerais.

Produtos da pecuária

(8.5.1) País/área de origem

Selecione de:

Argentina

(8.5.2) Divisão administrativa de primeiro nível

Selecione de:

Estados/jurisdições equivalentes

(8.5.3) Especifique os estados ou jurisdições equivalentes

Santa Fé; Córdoba; San Luis; La Pampa; Buenos Aires; Santiago del Estero; Mendoza; Entre Rios; Salta; La Rioja.

Produtos da pecuária

(8.5.1) País/área de origem

Selecione de:

Uruguai

(8.5.2) Divisão administrativa de primeiro nível

Selecione de:

Estados/jurisdições equivalentes

(8.5.3) Especifique os estados ou jurisdições equivalentes

Artigas; Canelones; Cerro Largo; Colonia; Durazno; Flores; Florida; Lavalleja; Maldonado; Paysandu; Rio Negro; Rivera; Rocha; Salto; San Jose; Soriano; Tacuarembó; Trienta y Tres.

Produtos da pecuária

(8.5.1) País/área de origem

Selecione de:

Estados Unidos da América

(8.5.2) Divisão administrativa de primeiro nível

Selecione de:

- Estados/jurisdições equivalentes

(8.5.3) Especifique os estados ou jurisdições equivalentes

Arizona, Colorado, Iowa, Illinois, Indiana, Kansas, Minnesota, Missouri, Mississippi, North Dakota, Nebraska, New Mexico, Oklahoma, South Dakota, Tennessee, Texas, Wisconsin, e Wyoming.

[Adicionar linha]

(8.7) A organização tem uma meta de eliminação do desmatamento e da conversão, ou qualquer outra meta para a produção/o provisionamento sustentável das <i>commodities</i> divulgadas, ativas no ano de reporte? [AINDA NÃO DISPONÍVEL]

Produto florestal madeireiro

(8.7.1) Meta ativa para a eliminação do desmatamento ou da conversão

Selecione de:

- Sim, temos uma meta de eliminação da conversão

(8.7.2) Abrangência da meta de eliminação do desmatamento ou da conversão

Selecione de:

- Na organização como um todo (incluindo os fornecedores)

(8.7.5) Outras metas ativas relacionadas a esta <i>commodity</i>, incluindo aquelas que contribuem para a meta de eliminação do desmatamento ou da conversão da organização

Selecione de:

- Sim, temos outras metas relacionadas a esta <i>commodity</i>

Produtos da pecuária

(8.7.1) Meta ativa para a eliminação do desmatamento ou da conversão

Selecione de:

- Sim, temos uma meta de eliminação da conversão

(8.7.2) Abrangência da meta de eliminação do desmatamento ou da conversão

Selecione de:

- Na organização como um todo (incluindo os fornecedores)

(8.7.5) Outras metas ativas relacionadas a esta <i>commodity</i>, incluindo aquelas que contribuem para a meta de eliminação do desmatamento ou da conversão da organização

Selecione de:

- Sim, temos outras metas relacionadas a esta <i>commodity</i>

Soja

(8.7.1) Meta ativa para a eliminação do desmatamento ou da conversão

Selecione de:

- Sim, temos uma meta de eliminação da conversão

(8.7.2) Abrangência da meta de eliminação do desmatamento ou da conversão

Selecione de:

- Na organização como um todo (incluindo os fornecedores)

(8.7.5) Outras metas ativas relacionadas a esta <i>commodity</i>, incluindo aquelas que contribuem para a meta de eliminação do desmatamento ou da conversão da organização

Selecione de:

Sim, temos outras metas relacionadas a esta <i>commodity</i>

[Linha fixa]

(8.7.1) Dê detalhes sobre a meta de eliminação do desmatamento ou da conversão da organização ativa durante o ano de reporte.

Produto florestal madeireiro

(8.7.1.1) Meta de eliminação do desmatamento ou da conversão

Selecione de:

Sem conversão

(8.7.1.2) Definição a organização de “sem desmatamento” ou “sem conversão”

According to the organization, "non-conversion" is the absence of change from a natural ecosystem to another land use or profound change in the species composition, structure, or function of the ecosystem in question. "Non-deforestation" is understood as the absence of loss of natural forests as a result of the following processes: conversion to agriculture or other non-forest land use; conversion to a plantation; severe or sustained degradation.

(8.7.1.3) Data de corte

Selecione de:

2008

(8.7.1.4) Escopo geográfico da data de corte

Selecione de:

País/área, especifique

(8.7.1.5) Justificativa para a seleção da data de corte

Selecione de:

Acordo/recomendação do setor como um todo

(8.7.1.6) Data final para se alcançar a eliminação do desmatamento ou da conversão

Selecione de:

2025

Produtos da pecuária

(8.7.1.1) Meta de eliminação do desmatamento ou da conversão

Selecione de:

Sem conversão

(8.7.1.2) Definição a organização de “sem desmatamento” ou “sem conversão”

According to the organization, "non-conversion" is the absence of change from a natural ecosystem to another land use or profound change in the species composition, structure, or function of the ecosystem in question. "Non-deforestation" is understood as the absence of loss of natural forests as a result of the following processes: conversion to agriculture or other non-forest land use; conversion to a plantation; severe or sustained degradation.

(8.7.1.3) Data de corte

Selecione de:

2008

(8.7.1.4) Escopo geográfico da data de corte

Selecione de:

Bioma, especifique

(8.7.1.5) Justificativa para a seleção da data de corte

Selecione de:

Acordo/recomendação do setor como um todo

(8.7.1.6) Data final para se alcançar a eliminação do desmatamento ou da conversão

Selecione de:

2025

Soja

(8.7.1.1) Meta de eliminação do desmatamento ou da conversão

Selecione de:

Sem conversão

(8.7.1.2) Definição a organização de “sem desmatamento” ou “sem conversão”

According to the organization, "non-conversion" is the absence of change from a natural ecosystem to another land use or profound change in the species composition, structure, or function of the ecosystem in question. "Non-deforestation" is understood as the absence of loss of natural forests as a result of the following processes: conversion to agriculture or other non-forest land use; conversion to a plantation; severe or sustained degradation.

(8.7.1.3) Data de corte

Selecione de:

2020

(8.7.1.4) Escopo geográfico da data de corte

Selecione de:

País/área, especifique

(8.7.1.5) Justificativa para a seleção da data de corte

Selecione de:

Acordo/recomendação do setor como um todo

(8.7.1.6) Data final para se alcançar a eliminação do desmatamento ou da conversão

Selecione de:

2025

[Adicionar linha]

(8.7.2) Dê detalhes de outras metas relacionadas às <i>commodities</i> da organização, incluindo eventuais metas que contribuem para sua meta de eliminação do desmatamento ou da conversão e o progresso dessas metas.

Produto florestal madeireiro

(8.7.2.1) Número de referência da meta

Selecione de:

Meta 5

(8.7.2.2) A meta contribui com a meta de eliminação do desmatamento ou da conversão reportada em 8.7

Selecione de:

Sim, esta meta contribui para nossa meta de eliminação da conversão

(8.7.2.3) Abrangência da meta

Selecione de:

Na organização como um todo (incluindo os fornecedores)

(8.7.2.4) Volume de <i>commodity</i> abrangida pela meta (toneladas métricas)

Selecione de:

Volume de divulgação

(8.7.2.5) Categoria da meta e Métrica quantitativa

Engajamento com os fornecedores de Nível 1

Porcentagem de fornecedores de Nível 1 engajados

(8.7.2.8) Data em que a meta foi definida

12/31/2019

(8.7.2.9) Data de término do ano-base

12/31/2019

(8.7.2.10) Valor no ano-base

0.01

(8.7.2.11) Data de término da meta

12/31/2025

(8.7.2.12) Valor no ano final

60

(8.7.2.13) Valor no ano de reporte

33

(8.7.2.14) Status da meta no ano de reporte

Selecione de:

Revisada

(8.7.2.15) Porcentagem da meta alcançada com relação ao ano-base

54.99

(8.7.2.16) Tratados/iniciativas/quadros ambientais globais alinhados com essas metas ou suportados por ela

Selecione todos os aplicáveis

Quadro da Biodiversidade Global Kunming-Montreal

(8.7.2.17) Explique a abrangência da meta e identifique eventuais exclusões

The company has a policy for the acquisition of material of forest origin that seeks to mitigate the risks associated with forests. Marfrig is a major consumer of paper and cardboard, as this material is part of the packaging of its commercialized products. The forestry products used in the administrative sectors, such as paper and cardboard, are certified by the FSC. This target was defined by the company with the aim of increasing the share of certified products in our portfolio, mitigating possible risks related to forests and the origin of these products. The company also has suppliers of wood products from pallets and biomass for the boilers. These suppliers must follow the policy for purchasing material of forest origin. The procurement sector seeks to engage these suppliers to better monitor compliance with the company's sustainability criteria.

(8.7.2.18) Plano para alcançar a meta e progresso realizado até o fim do ano de reporte

The target was established in 2019 and, in 2023, we have already managed to evolve and work at some level of engagement with 33% of our suppliers in Brazil. We also seek to map the origin of goods in the supply chain with the appropriate level of granularity necessary to define the supply chain risk and assess compliance with Marfrig's commitment to combating deforestation. The company is working with suppliers to map all risks associated with purchasing these products. Another Marfrig differential on this front is its support for the use of recyclable packaging. A large customer requires product shipping boxes to be at least 25% postconsumer recycled material made from waste from manufacturing new products and 40% fully recycled material

(8.7.2.20) Outros detalhes da meta

This target year was revised this year to align with the new objectives of zero deforestation and conversion from the company. Initially, this target had an end date of 2030. However, Marfrig is able to bring forward the target initially suggested so that its objectives of zero deforestation and conversion can be achieved by 2025.

Produtos da pecuária

(8.7.2.1) Número de referência da meta

Selecione de:

Meta 1

(8.7.2.2) A meta contribui com a meta de eliminação do desmatamento ou da conversão reportada em 8.7

Selecione de:

Sim, esta meta contribui para nossa meta de eliminação da conversão

(8.7.2.3) Abrangência da meta

Selecione de:

- Na organização como um todo (incluindo os fornecedores)

(8.7.2.4) Volume de <i>commodity</i> abrangida pela meta (toneladas métricas)

Selecione de:

- Volume de divulgação

(8.7.2.5) Categoria da meta e Métrica quantitativa

Rastreabilidade

- Porcentagem do volume rastreável até o ponto de rastreabilidade

(8.7.2.6) Ponto de rastreabilidade

Selecione de:

- Área de provisionamento, mas não para a unidade de produção

(8.7.2.8) Data em que a meta foi definida

12/31/2020

(8.7.2.9) Data de término do ano-base

12/31/2020

(8.7.2.10) Valor no ano-base

99

(8.7.2.11) Data de término da meta

12/31/2025

(8.7.2.12) Valor no ano final

(8.7.2.13) Valor no ano de reporte

100

(8.7.2.14) Status da meta no ano de reporte

Selecione de:

 Alcançada**(8.7.2.15) Porcentagem da meta alcançada com relação ao ano-base**

100.00

(8.7.2.16) Tratados/iniciativas/quadros ambientais globais alinhados com essas metas ou suportados por ela

Selecione todos os aplicáveis

 Quadro da Biodiversidade Global Kunming-Montreal Acordo de Paris Objetivos de Desenvolvimento Sustentável**(8.7.2.17) Explique a abrangência da meta e identifique eventuais exclusões**

In Brazil, Marfrig Global Foods employs a sophisticated and robust socio-environmental traceability system aimed at eliminating the possibility of purchasing animals from farms involved in deforestation, slave labor, or situated within indigenous reserves or quilombola territories. To qualify as a supplier to Marfrig, farms must meet the company's socio-environmental requirements, adhering to commitments against deforestation and complying with property rights, environmental legislation, and labor conditions. Additionally, we do not condone animal husbandry within indigenous or quilombola territories. This objective was chosen to meet market pressures and comply with Brazilian legislation, ensuring Marfrig's products adhere to a free-deforestation policy in the Amazon and other Brazilian biomes. To achieve this, satellite image databases of supplier farms are provided by the National Institute for Space Research (INPE). This enables Marfrig to verify that supplying properties meet socio-environmental standards. All Marfrig units utilize the TAURA Cattle Purchase module for acquiring livestock. Prior to purchase and slaughter, buyers consult the list of producers embargoed by IBAMA, using producer information. The TAURA system automatically blocks purchases from any producer listed by IBAMA and from those potentially involved in slave labor. Simultaneously, producers must provide proof of registration in the Rural Property National Registry (SNCR) and the Rural Environmental Registry (CAR). Supplier farms within the Amazon Biome undergo continuous geospatial monitoring. The cattle procurement processes from these farms have achieved 100% compliance with the Public Commitment for Livestock in the Amazon. This achievement is annually certified by an independent audit.

(8.7.2.19) Liste as ações que mais contribuíram para se alcançar ou manter essa meta

Marfrig Global Foods achieves its goals through a rigorous system of socio-environmental traceability and responsible purchasing practices. Using advanced technology, such as satellite images provided by INPE, the company continuously monitors supplier farms to ensure that they are free of deforestation, slave labor or animals raised in indigenous or quilombola territories. Marfrig also requires all producers to submit formal registrations, such as the SNCR and CAR, ensuring that all operations comply with Brazilian environmental and land legislation. These measures guarantee that Marfrig's products comply with the targets set.

(8.7.2.20) Outros detalhes da meta

Marfrig Global Foods demonstrates its commitment to sustainable and responsible practices in the meat supply chain, contributing to the preservation of forests. It also ensures that its operations are in line with Brazil's environmental and social regulations. This target is crucial to maintained so Marfrig can achieve their other targets about cattle products traceability to indirect suppliers.

Soja

(8.7.2.1) Número de referência da meta

Selecione de:

Meta 6

(8.7.2.2) A meta contribui com a meta de eliminação do desmatamento ou da conversão reportada em 8.7

Selecione de:

Sim, esta meta contribui para nossa meta de eliminação da conversão

(8.7.2.3) Abrangência da meta

Selecione de:

Na organização como um todo (incluindo os fornecedores)

(8.7.2.4) Volume de <i>commodity</i> abrangida pela meta (toneladas métricas)

Selecione de:

Volume de divulgação

(8.7.2.5) Categoria da meta e Métrica quantitativa

Engajamento com os fornecedores de Nível 1

Porcentagem de fornecedores de Nível 1 engajados

(8.7.2.8) Data em que a meta foi definida

12/31/2019

(8.7.2.9) Data de término do ano-base

12/31/2019

(8.7.2.10) Valor no ano-base

0.01

(8.7.2.11) Data de término da meta

12/31/2025

(8.7.2.12) Valor no ano final

100

(8.7.2.13) Valor no ano de reporte

70

(8.7.2.14) Status da meta no ano de reporte

Selecione de:

Em andamento

(8.7.2.15) Porcentagem da meta alcançada com relação ao ano-base

(8.7.2.16) Tratados/iniciativas/quadros ambientais globais alinhados com essas metas ou suportados por ela

Selecione todos os aplicáveis

Quadro da Biodiversidade Global Kunming-Montreal

(8.7.2.17) Explique a abrangência da meta e identifique eventuais exclusões

We engage our suppliers in sourcing soy exclusively from companies participating in the Soy Moratorium. This initiative ensures that the companies do not acquire soybean originating from deforested regions of the Amazon. In our operations, soybean currently accounts for less than 2% of the total inputs acquired.

(8.7.2.18) Plano para alcançar a meta e progresso realizado até o fim do ano de reporte

Marfrig has a soy purchasing process that requests additional information from suppliers regarding origin and possible certifications. The company works with initial engagement with suppliers, in order to map the associated risks, and implement new forms of compliance, such as certifications or other types of screenings for the coming years. In addition, the company is updating the Marfrig Club Program, to insert new information to be collected from supplier farms, seeking to increase the traceability of soy consumption in its chain. In Uruguay, currently soy is used in animal feed (26% soy hulls and 74% extruded soy bran), the company monitors the quantities and origin of soy purchased by the unit. In Brazil, all soy consumed is purchased from companies committed to the Soy Moratorium. In addition, the supplier companies: ADM, BRF Ingredients and Dupont have specific policies for buying soy outside deforestation areas.

(8.7.2.20) Outros detalhes da meta

Another point evaluated in the responsible process procurement relates to the use of soybean, which cannot come from deforested areas. To verify this point, we use a ratification formula that includes soybean amongst the environmental issues evaluated. Not only is the use of this feedstock as animal feed submitted for evaluation, but also the production of alternative proteins that use this commodity as a base. The practices of responsible procurement also evaluate the availability of water in the regions where the properties are located. If any supplier is found to be noncompliant, they are blocked in the purchasing system and prevented from trading animals with Marfrig until they resolve the issue.

Produtos da pecuária

(8.7.2.1) Número de referência da meta

Selecione de:

Meta 2

(8.7.2.5) Categoria da meta e Métrica quantitativa

Rastreabilidade

- Porcentagem do volume rastreável até o ponto de rastreabilidade

(8.7.2.6) Ponto de rastreabilidade

Selecione de:

- Unidade de produção

(8.7.2.10) Valor no ano-base

41.57

(8.7.2.12) Valor no ano final

100

(8.7.2.14) Status da meta no ano de reporte

Selecione de:

- Em andamento

(8.7.2.16) Tratados/iniciativas/quadros ambientais globais alinhados com essas metas ou suportados por ela

Selecione todos os aplicáveis

- Quadro da Biodiversidade Global Kunming-Montreal

(8.7.2.18) Plano para alcançar a meta e progresso realizado até o fim do ano de reporte

The company developed the Marfrig Verde Plan, which aims to ensure that 100% of the company's production chain is free of deforestation by 2025. This plan reaffirms the 2009 Public Livestock Commitment, through which Marfrig achieved zero deforestation in its direct supplier chain, and ensures the elimination of deforestation throughout its supply chain in all Brazilian biomes by 2025, effectively combating deforestation. The perspective is to achieve zero deforestation by identifying the origin of the company's direct and indirect suppliers. To this end, the action plan includes short, medium, and long-term actions, with the initial years focusing on most of the necessary instruments to enable the traceability of direct and indirect suppliers. From 2022 to 2025, Marfrig will carry out the blocked

producers reintegration program, allowing them to meet the company's sustainability criteria again. A technical assistance, intensification, and network restoration program was also implemented through improved pastures, genetic improvement, and animal nutrition. Support for the pilot initiative led by IDH, the Sustainable Calf Production Program in Mato Grosso, is part of building these technical assistance models. Additionally, together with financial institutions, Marfrig and IDH are coordinating the construction of credit suitable for the needs of cattle farmers.

(8.7.2.20) Outros detalhes da meta

For us, acting in a socially and environmentally responsible way also means adopting responsible purchasing criteria. This principle, which guides our sustainability management, ensures that we offer reliable, high-quality products that have won awards and are recognized in the world's largest consumer markets. We were pioneers in our sector by adopting measures such as geomonitoring and tracking the supply chain, in line with our public commitment to reducing deforestation in biomes.

Produtos da pecuária

(8.7.2.1) Número de referência da meta

Selecione de:

Meta 3

(8.7.2.5) Categoria da meta e Métrica quantitativa

Rastreabilidade

Porcentagem do volume rastreável até o ponto de rastreabilidade

(8.7.2.6) Ponto de rastreabilidade

Selecione de:

Unidade de produção

(8.7.2.10) Valor no ano-base

0.01

(8.7.2.12) Valor no ano final

(8.7.2.14) Status da meta no ano de reporte

Selecione de:

Revisada

(8.7.2.16) Tratados/iniciativas/quadros ambientais globais alinhados com essas metas ou suportados por ela

Selecione todos os aplicáveis

Quadro da Biodiversidade Global Kunming-Montreal

(8.7.2.18) Plano para alcançar a meta e progresso realizado até o fim do ano de reporte

Based on the Production/Conservation/Inclusion approach, the Marfrig Green Plan envisages closer integration with the production chain, mitigating deforestation risks. Many actions will be simultaneous and interconnected, involving networking, partnerships with associations representing livestock farmers, civil society organizations, and academia, as well as joint actions with the Public Prosecutor's Office. Society will be able to track goal achievement through transparent platforms. Also, by the end of 2020, the satellite-based geospatial monitoring system used for the Amazon was adapted to monitor the Cerrado biome. From 2022 to 2025, Marfrig will implement a reintegration program for blocked producers, enabling them to meet the company's sustainability criteria once again. A technical assistance program, intensification, and restoration of the network will also be implemented through improved pastures, genetic enhancement, and animal nutrition. Support for the IDH-led Sustainable Calves Production Program pilot initiative in Mato Grosso is part of constructing these technical assistance models. Additionally, together with financial institutions, Marfrig and IDH are coordinating the construction of suitable credit facilities tailored to the needs of livestock farmers.

(8.7.2.20) Outros detalhes da meta

For us, acting in a socially and environmentally responsible way also means adopting responsible purchasing criteria. This principle, which guides our sustainability management, ensures that we offer reliable, high-quality products that have won awards and are recognized in the world's largest consumer markets

Produtos da pecuária

(8.7.2.1) Número de referência da meta

Selecione de:

Meta 4

(8.7.2.5) Categoria da meta e Métrica quantitativa

Engajamento com os fornecedores de Nível 1

- Porcentagem de fornecedores de Nível 1 engajados

(8.7.2.10) Valor no ano-base

66.78

(8.7.2.12) Valor no ano final

100

(8.7.2.14) Status da meta no ano de reporte

Selecione de:

- Alcançada

(8.7.2.16) Tratados/iniciativas/quadros ambientais globais alinhados com essas metas ou suportados por ela

Selecione todos os aplicáveis

- Quadro da Biodiversidade Global Kunming-Montreal

(8.7.2.19) Liste as ações que mais contribuíram para se alcançar ou manter essa meta

The company understands that this is a way of controlling its exposure to risks related to deforestation, through the development of suppliers. With our suppliers engaged in the adoption of sustainable production practices, our risk is reduced in relation to forest risks. Therefore, the company works with the objective of keeping all its suppliers within the Marfrig Club program. Currently, 100% of direct suppliers participate in the program and are included in these categories. To verify the properties' adherence to good practices on each of these fronts, a checklist is applied that is fully adapted to Brazilian conditions. Thus, it is possible to identify the advances in the property in the relevant themes. In an innovative way, we are expanding all of Marfrig Club's expertise to our direct suppliers. With that, we spread, in this chain link, the best practices of a more efficient and low-carbon livestock, and we started to include them in our innovation projects and in the application of research-based protocols, as is the case of CNBB and LCBB.

(8.7.2.20) Outros detalhes da meta

This restructuring and updating of the Marfrig Club monitoring protocol, in line with our commitment to continuous improvement, reflects the objectives and indicators of the most demanding international standards in relation to sustainability criteria, such as Rainforest Alliance, GlobalGAP, RedTractor, IFC, CDP, FAIRR, BBFAW and Forest500.

[Adicionar linha]

(8.8) Indique se a organização dispõe de um sistema de rastreabilidade para determinar as origens dos seus volumes provisionados e dê detalhes sobre os métodos e as ferramentas usados.

Produto florestal madeireiro

(8.8.1) Sistema de rastreabilidade

Selecione de:

Sim

(8.8.2) Métodos/ferramentas usados no sistema de rastreabilidade

Selecione todos os aplicáveis

Certificação da cadeia de custódia

(8.8.3) Descrição dos métodos/ferramentas usados no sistema de rastreabilidade

Marfrig is a large consumer of cardboard, because this material is part of the packaging of its marketed products. The company has a purchasing criterion that allows the purchase of these products only if their sustainable origin is proven, as a function of the FSC certificate. Thus, 100% of the suppliers meet this criterion. Marfrig consumes only FSC-certified cardboard, which is a protocol followed by the raw material purchasing department, ensuring that the inputs used in its activities come from forests with responsible management. By purchasing certified material only, the company ensures that its inputs come from ecologically correct and socially fair exploitation. For the wood used as biomass in the boilers, all the suppliers of this input must submit the Forest Origin Document (DOF), a license required to transport and store forest products with information of their origin. These suppliers must follow Marfrig Global Foods' Policy for the Acquisition of Forest Material. The policy states that the purchase of our wood does not come from areas of illegal deforestation and from suppliers that violate human rights and traditional populations. We also aim to map the origin of goods in the supply chain with an appropriate level of granularity necessary to define supply chain risk and to assess compliance with Marfrig's commitment to fighting deforestation. All products of forest origin supplied to Marfrig must originate in planted forests with measurable volume and in areas that are not embargoed by environmental agencies and / or are in an area of indigenous and / or traditional communities.

Produtos da pecuária

(8.8.1) Sistema de rastreabilidade

Selecione de:

Sim

(8.8.2) Métodos/ferramentas usados no sistema de rastreabilidade

Selecione todos os aplicáveis

Mapeamento da cadeia de valor

Engajamento/comunicação com o fornecedor

Sistema de rastreabilidade interno

(8.8.3) Descrição dos métodos/ferramentas usados no sistema de rastreabilidade

Marfrig Global Foods uses a socio-environmental traceability system, aiming to eliminate the possibility of purchasing animals produced in farms with deforestation, slave labor, or within indigenous reserve or conservation units, problems. For a farm to be approved and authorized to become an animal supplier for Marfrig, it must meet the requirements regarding the type of management in the property, and good practices of environment conservation. In Brazil, the cattle supplier cannot be included in the list of Embargoed areas by IBAMA and have no record of forced or compulsory labor (List of the Ministry of Labor and Employment). Simultaneously, the producer must submit proof of Land Registry (SNCR) and CAR. Marfrig works beyond the first level of cattle suppliers, and has developed the RFI tool (Request for Information), which is submitted to our direct suppliers for information about where they are buying animals from. Through the tool, ranchers must inform the origin of the animals purchased, for which Marfrig requests - Property, Municipality, State, Owner, CNPJ or CPF. The company recently announced the Marfrig Verde, which aims to ensure that 100% of the company's production chain is sustainable and free from deforestation by 2025. By the end of 2020, the company adapted the geomonitoring system via satellite, used in Amazon, for the monitoring of the Cerrado biome. By 2022, Marfrig will adapt all its systems to control the chain and mitigate risks. In the period between 2022 and 2025, Marfrig will lead the reintegration program for blocked producers, making it possible for them to meet the company's sustainability criteria again. A technical assistance, intensification and restoration network program will also be put in place through improved pasture, genetic improvement and animal nutrition. By 2025, the goal is to achieve full traceability of Marfrig's supply chain in the Amazon and in Cerrado, including indirect suppliers. In 2020, we customized a tool (Conecta) that combines satellite monitoring and blockchain technology to verify the presence of deforestation and other socio-environmental non-compliances in the beef cattle production chain. Until 2023, Conecta was made available to more than 15,000 direct producers operating in Mato Grosso and Rondônia. We also use Visipecc, a tool developed specifically for meat packers and monitoring companies in Brazil, which enables them to track and monitor their indirect suppliers.

Soja

(8.8.1) Sistema de rastreabilidade

Selecione de:

Sim

(8.8.2) Métodos/ferramentas usados no sistema de rastreabilidade

Selecione todos os aplicáveis

- Mapeamento da cadeia de valor
- Engajamento/comunicação com o fornecedor
- Sistema de rastreabilidade interno

(8.8.3) Descrição dos métodos/ferramentas usados no sistema de rastreabilidade

Marfrig has been working, mainly through the Marfrig Club protocol, to know how to quantify how many producers use soybean meal in the feeding of their animals. From there we will establish procedures that will be applied according to the Biome that the property is in, and in the Amazon Biome, we will try to find out if they use products purchased from companies that are part of the “Soy Moratorium”. In 2020 we expand the scope of the geomonitoring system from Amazon to Cerrado, This improvement was possible because we got 100% of the maps of livestock properties across the country, regardless of the biome. Thus, based on the maps of the farms obtained by the CAR (Rural Environmental Registry), information that is crosschecked with the satellite images of the farms, provided by INPE (National Institute for Space Research), we seek to ensure that the properties are free from deforestation and conflicts with indigenous lands or conservation units. The principle of responsible sourcing does not just apply to livestock suppliers. Soy producers are also evaluated through an approval form, in which one of the items evaluated is the verification of the origin of the grain, in order to ensure that they are not produced in areas of deforestation. This look at soy controls happens not only for use in animal feed, but also for the production of alternative proteins that use this commodity as a base. The company uses soy in its direct operations in a cattle feed, located in Uruguay. Soy consumption occurs as an input for animal feed and the quantity and origin of the soy are monitored by the unit. The direct suppliers of soy to Marfrig are companies that participate in the soy moratorium, and that have traceability of the origin of their products. Suppliers undergo an assessment and are approved according to the procurement program for managing raw materials, materials and service providers.

[Linha fixa]

(8.8.1) Dê detalhes de até que ponto a organização pode rastrear seus volumes provisionados.

Produto florestal madeireiro

(8.8.1.1) Porcentagem do volume provisionado rastreável até a unidade de produção

65

(8.8.1.2) Porcentagem do volume provisionado rastreável até a área de provisionamento, e não até a unidade de produção

20

(8.8.1.3) Porcentagem do volume provisionado rastreável até o país/área de origem, e não até a área de provisionamento ou a unidade de produção

0

(8.8.1.4) Porcentagem do volume provisionado rastreável até outro ponto (p. ex., instalação de processamento/primeiro importador) não no país/área de origem

15

(8.8.1.5) Porcentagem do volume provisionado de origens desconhecidas

0

(8.8.1.6) Porcentagem do volume provisionado reportado

100.00

Produtos da pecuária

(8.8.1.1) Porcentagem do volume provisionado rastreável até a unidade de produção

100

(8.8.1.2) Porcentagem do volume provisionado rastreável até a área de provisionamento, e não até a unidade de produção

0

(8.8.1.3) Porcentagem do volume provisionado rastreável até o país/área de origem, e não até a área de provisionamento ou a unidade de produção

0

(8.8.1.4) Porcentagem do volume provisionado rastreável até outro ponto (p. ex., instalação de processamento/primeiro importador) não no país/área de origem

0

(8.8.1.5) Porcentagem do volume provisionado de origens desconhecidas

0

(8.8.1.6) Porcentagem do volume provisionado reportado

100.00

Soja

(8.8.1.1) Porcentagem do volume provisionado rastreável até a unidade de produção

0

(8.8.1.2) Porcentagem do volume provisionado rastreável até a área de provisionamento, e não até a unidade de produção

100

(8.8.1.3) Porcentagem do volume provisionado rastreável até o país/área de origem, e não até a área de provisionamento ou a unidade de produção

0

(8.8.1.4) Porcentagem do volume provisionado rastreável até outro ponto (p. ex., instalação de processamento/primeiro importador) não no país/área de origem

0

(8.8.1.5) Porcentagem do volume provisionado de origens desconhecidas

0

(8.8.1.6) Porcentagem do volume provisionado reportado

100.00
[Linha fixa]

(8.9) Dê detalhes da avaliação feita pela organização do status de Sem Desmatamento (SD) ou Sem Desmatamento e Conversão (SDC) das suas <i>commodities</i> divulgadas. [AINDA NÃO DISPONÍVEL]

Produto florestal madeireiro

(8.9.1) Status de SD/SDC avaliado para esta <i>commodity</i>

Selecione de:

Sim, status Sem Desmatamento e Conversão (SDC)

(8.9.2) Porcentagem do volume de divulgação determinada como SD/SDC no ano de reporte

100

(8.9.3) Porcentagem do volume de divulgação determinada como SD/SDC por meio de um esquema de certificação de terceiros que oferece garantia total de SD/SDC

25

(8.9.4) Porcentagem do volume de divulgação determinado como SD/SDC por meio do monitoramento da unidade de produção

0

(8.9.5) Porcentagem do volume de divulgação determinada como SD/SDC por meio do monitoramento da área de provisionamento

75

(8.9.6) Alguma proporção do volume de divulgação da organização é certificada por meio de um esquema que não oferece garantia total de SD/SDC?

Selecione de:

Não

Produtos da pecuária

(8.9.1) Status de SD/SDC avaliado para esta <i>commodity</i>

Selecione de:

Sim, status Sem Desmatamento e Conversão (SDC)

(8.9.2) Porcentagem do volume de divulgação determinada como SD/SDC no ano de reporte

100

(8.9.3) Porcentagem do volume de divulgação determinada como SD/SDC por meio de um esquema de certificação de terceiros que oferece garantia total de SD/SDC

0

(8.9.4) Porcentagem do volume de divulgação determinado como SD/SDC por meio do monitoramento da unidade de produção

100

(8.9.5) Porcentagem do volume de divulgação determinada como SD/SDC por meio do monitoramento da área de provisionamento

0

(8.9.6) Alguma proporção do volume de divulgação da organização é certificada por meio de um esquema que não oferece garantia total de SD/SDC?

Selecione de:

Não

Soja

(8.9.1) Status de SD/SDC avaliado para esta <i>commodity</i>

Selecione de:

Sim, status Sem Desmatamento e Conversão (SDC)

(8.9.2) Porcentagem do volume de divulgação determinada como SD/SDC no ano de reporte

100

(8.9.3) Porcentagem do volume de divulgação determinada como SD/SDC por meio de um esquema de certificação de terceiros que oferece garantia total de SD/SDC

0

(8.9.4) Porcentagem do volume de divulgação determinado como SD/SDC por meio do monitoramento da unidade de produção

100

(8.9.5) Porcentagem do volume de divulgação determinada como SD/SDC por meio do monitoramento da área de provisionamento

0

(8.9.6) Alguma proporção do volume de divulgação da organização é certificada por meio de um esquema que não oferece garantia total de SD/SDC?

Selecione de:

Não

[Linha fixa]

(8.9.1) Dê detalhes dos esquemas de certificação de terceiros usados para determinar o status de Sem Desmatamento (SD) ou Sem Desmatamento e Conversão (SDC) do volume de divulgação desde a data de corte especificada.

Produto florestal madeireiro

(8.9.1.1) Esquema de certificação de terceiros que oferecem garantia total de SD/SDC

Unidade de gestão florestal/Certificação do produtor

Certificação de Gestão Florestal do FSC

(8.9.1.2) Porcentagem do volume de divulgação determinada como SD/SDC por meio de um esquema de certificação que oferece garantia total de SD/SDC

25

(8.9.1.3) Explique

In 2023, all the cardboard and paper consumed by Marfrig were provided with at least one FSC certification. From the 23,163.23 tons of cardboard consumed, 100% of this value had the FSC Forest Management certification; and 60% also had the FSC Controlled Wood, FSC Chain-of-Custody and/or FSC Recycled certifications. For the 97,15 tons of paper consumed, 96% of this value had the FSC Forest Management Certification and 100% had the FSC Chain-of-Custody certification. 100% of the pallets acquired in 2023 are registered into the CTF (Federal Technical Registry) from Ibama (the Brazilian Institute of Environment and Renewable Natural Resources). This registration issues a Certificate of Regularity (CR), which certifies the origin of the wood used in the pallets as being legal and from areas free from deforestation and conversion. Marfrig has a Forestry Material Acquisition Policy (version PMAB01, available at: <https://ri.marfrig.com.br/>), whose objective is to guarantee the sustainable origin of products derived from wood used in the production process of Marfrig company. This policy applies to all Company employees, stakeholders and third parties acting on the Company's behalf. In it are found: Origin mapping - Mapping the origin of goods in the supply chain with the appropriate level of granularity necessary to define the supply chain risk and assess compliance with Marfrig's commitment to combating deforestation. Origin verification - All

products of forestry origin supplied to Marfrig must originate from planted forests with measurable volume and plants in areas not embargoed by environmental agencies and/or located in areas of indigenous and/or traditional communities.

(8.9.1.4) Documentação de certificação

Cert_FSC.pdf
[Adicionar linha]

(8.9.3) Dê detalhes do monitoramento da unidade de produção usado para determinar o status de Sem Desmatamento (SD) ou Sem Desmatamento e Conversão (SDC) dos volumes desde a data de corte especificada.

Produtos da pecuária

(8.9.3.1) Porcentagem do volume de divulgação determinado como SD/SDC por meio do monitoramento da unidade de produção

100.00

(8.9.3.2) Abordagem de monitoramento da unidade de produção

Selecione todos os aplicáveis

- Monitoramento geoespacial ou ferramenta de detecção remota
- Sistema de monitoramento baseado no terreno

(8.9.3.3) Descrição da abordagem de monitoramento da unidade de produção

Through the Marfrig Green Program, we ensure that 100% of our direct beef protein suppliers are free from deforestation and conversion by applying environmental and social criteria across multiple biomes, including the Amazon, Cerrado, Atlantic Forest, Pantanal, and Pampa. This commitment extends to all countries where we operate, such as Brazil, Argentina, Chile, the United States, and Uruguay. We continuously monitor supplier farms through geospatial technology, using satellite imagery and data from the Rural Environmental Registry (CAR) to verify ecosystem preservation and detect deforestation or conflicts with indigenous lands. Monitoring began in the Amazon biome in 2009 and expanded to the Cerrado in 2020. In 2021, we enhanced our monitoring methodology to include more stringent criteria for tracking indirect suppliers, a crucial aspect of our supply chain. Farms that do not comply with the Marfrig Green program requirements are excluded from our supply base until they provide the necessary information and adhere to our commitments. Marfrig also introduced the Marca Viva! initiative, offering meat cuts produced under the Carbon Neutral Brazilian Beef (CNBB) criteria, where animals are raised in livestock-forest environments that neutralize methane emissions. We are also developing the Low Carbon Brazilian Beef (LCBB) initiative, with a product launch planned soon. Additionally, Marfrig employs a socio-environmental risk

map that covers the entire national territory, integrating data on livestock production, environmental conservation, and human rights to identify high-risk areas and prioritize mitigation efforts.

(8.9.3.4) Status SD/SDC verificado

Selecione de:

Sim

(8.9.3.5) Tipo de verificação

Selecione todos os aplicáveis

Pelo interessado

(8.9.3.6) Porcentagem do volume de divulgação que é tanto determinada como SD/SDC por meio do monitoramento da unidade de produção quanto verificada como SD/SDC

100

(8.9.3.7) Explique o processo de verificação do status de SD/SDC

The procedures were conducted to analyze cattle purchases made by the Company within the Amazon biome between January 1 and December 31, 2022, in compliance with the NBC TSC 4400 standard and the Terms of Reference (ToR) agreed upon with Greenpeace. The main methods included document inspection, employee interviews, operational simulations, and data cross-referencing to ensure the integrity of the information. The analyses focused on a 10% sampling of total purchases made during the period, in addition to verifying direct and blocked suppliers based on satellite imagery and geographic information systems. Specific documents such as CAR, LAR, CCIR, and land titles were requested for 25 properties randomly selected from the sample. Additionally, cross-references with public lists of embargoed areas (IBAMA) and forced labor were performed. The sampling included 10 cases for each supplier blocking system test criterion, totaling 23 cases analyzed. Additional tests were conducted to ensure that the commercial properties did not involve protected areas or deforestation after October 2009. Finally, the reliability of the geomonitoring system was verified by Brain Soluções de Tecnologia Digital through a simulation with 30 properties from the GEO List, selected based on criteria of deforestation, overlap with Conservation Units, and Indigenous Lands.

(8.9.3.8) Anexo da verificação (opcional)

RELATÓRIO DE AUDITORIA 2023 - MARFRIG E GREENPEACE.pdf

Soja

(8.9.3.1) Porcentagem do volume de divulgação determinado como SD/SDC por meio do monitoramento da unidade de produção

100.00

(8.9.3.2) Abordagem de monitoramento da unidade de produção

Selecione todos os aplicáveis

Monitoramento geoespacial ou ferramenta de detecção remota

(8.9.3.3) Descrição da abordagem de monitoramento da unidade de produção

One of our responsible purchasing requirements is the use of soy, which must not come from deforested areas. To carry out this verification, we use an approval form, in which this practice is included in one of the evaluated environmental aspects. This focus on controlling soy occurs not only for use in animal feed, but also for the production of alternative proteins that use this commodity as a base, as is the case with PlantPlus!, a company that emerged from our partnership with Archer Daniels Midland Company (ADM), dedicated to the production of plant-based foods. Routines like this are aligned with sustainable practices along the production chain, which contributes to the conservation and biodiversity of biomes, especially in the Amazon.

(8.9.3.4) Status SD/SDC verificado

Selecione de:

Sim

(8.9.3.5) Tipo de verificação

Selecione todos os aplicáveis

Por terceiros

(8.9.3.6) Porcentagem do volume de divulgação que é tanto determinada como SD/SDC por meio do monitoramento da unidade de produção quanto verificada como SD/SDC

100

(8.9.3.7) Explique o processo de verificação do status de SD/SDC

Our commitment is selected by third parties. We partner with BrainAg, a geomonitoring service provider that monitors our suppliers via satellite, operating 24 hours a day, seven days a week. This platform performs continuous verification regarding compliance with the company's socio-environmental criteria. In this process, supplier data is cross-referenced with georeferenced information and environmental and land documents (which can also be accessed on official public platforms) in order to identify possible non-conformities such as deforestation, embargoed areas, conservation units, indigenous and quilombola territories, and labor analogous to slavery.

[Linha fixa]

(8.9.4) Dê detalhes do monitoramento da área de provisionamento usado para determinar o status de Sem Desmatamento (SD) ou Sem Desmatamento e Conversão (SDC) dos volumes desde a data de corte especificada.

Produto florestal madeireiro

(8.9.4.1) Porcentagem do volume de divulgação determinada como SD/SDC por meio do monitoramento do desmatamento e da conversão na área de provisionamento

75.00

(8.9.4.2) Abordagem de monitoramento usada para determinar se as áreas de provisionamento não apresentam riscos ou apresentam riscos desprezíveis de desmatamento ou conversão

Selecione todos os aplicáveis

Informação coletada por meio de mecanismos de queixa

(8.9.4.3) Descrição da abordagem, incluindo a frequência de avaliação

Marfrig's operating units are instructed to analyze and collect complaints and reports from first and third parties about their firewood suppliers. When this occurs, the supplier in question is reported to the company's purchasing department, which monitors whether there are any irregularities in the acquisition of these wood products, such as the existence of slave or child labor in the production areas, environmental crimes, irregularities in the documentation of ownership of the areas, extraction of native wood or wood considered illegal by the Brazilian Forest Code. If the inspection indicates any of these problems, the supplier is removed from its contracts and the products are immediately returned.

(8.9.4.4) Países/áreas de origem

Selecione todos os aplicáveis

Brasil

(8.9.4.5) Áreas de provisionamento

Marfrig analyses the deforestation and conversion risk of all the Brazilian biomes where the company obtains their firewood, with the biomes in consideration being the Amazonia, Cerrado, Pampas and Mata Atlântica.

(8.9.4.6) O status SD/SDC é verificado

Selecione de:

Sim

(8.9.4.7) Tipo de verificação

Selecione todos os aplicáveis

Própria

(8.9.4.8) Porcentagem do volume de divulgação que é tanto determinada como SD/SDC por meio do monitoramento da área de provisionamento quanto verificada como SD/SDC

75

(8.9.4.9) Explique o processo de verificação do status de SD/SDC

Marfrig has a Forestry Material Acquisition Policy (version PMAB01, available at: <https://ri.marfrig.com.br/>), whose objective is to guarantee the sustainable origin of products derived from wood used in the production process of Marfrig company. This policy applies to all Company employees, stakeholders and third parties acting on the Company's behalf. In it are found: Origin mapping - Mapping the origin of goods in the supply chain with the appropriate level of granularity necessary to define the supply chain risk and assess compliance with Marfrig's commitment to combating deforestation. Origin verification - All products of forestry origin supplied to Marfrig must originate from planted forests with measurable volume and plants in areas not embargoed by environmental agencies and/or located in areas of indigenous and/or traditional communities. When a grievance arises, Marfrig's inspector conducts a thorough review to ensure that the supplier complies with the Forestry Material Acquisition Policy. If the supplier is found to be non-compliant, their contract is immediately suspended. This verification step ensures that all biomass timber products originate from areas free of deforestation and land conversion, reinforcing Marfrig's commitment to sustainable sourcing.

(8.9.4.11) Uso de classificação do risco

In 2020, we completed the development of an important tool called the Socio-environmental Risk Mitigation Map, and began employing it in 2021. This tool represented a significant step forward in our responsible procurement practices. It has provided us with valuable information by integrating various types of maps, including socioenvironmental indicators such as deforested areas, pastureland and preserved native vegetation, along with data on forced or child labor. This new tool included an additional map containing information on the beef herds in specific regions. By combining these different data sources, we have managed to develop a risk matrix in the form of a geographical map. This groundbreaking approach in the livestock chain has allowed us to identify and prioritize actions in regions that are more susceptible to socio-environmental risks in the Amazon and Cerrado biomes. The consolidation of this information resulted in a risk matrix with various levels, ranging from “very low” to “very high”.

[Linha fixa]

(8.10) Indique se a organização monitorou ou estimou a pegada de desmatamento e conversão de outros ecossistemas naturais para as <i>commodities </i>divulgadas.

| | Monitoramento ou estimativa da pegada de desmatamento e conversão da organização |
|------------------------------|--|
| Produto florestal madeireiro | Selecione de: <input checked="" type="checkbox"/> Sim |
| Produtos da pecuária | Selecione de: <input checked="" type="checkbox"/> Sim |
| Soja | Selecione de: <input checked="" type="checkbox"/> Sim |

[Linha fixa]

(8.10.1) Dê detalhes do monitoramento ou da estimativa da pegada de desmatamento e conversão da organização.

[AINDA NÃO DISPONÍVEL]

Produto florestal madeireiro

(8.10.1.1) Monitoramento e estimativa da pegada de desmatamento e conversão da organização

Selecione de:

Monitoramos a pegada de desmatamento e conversão na nossa cadeia de valor

(8.10.1.2) Porcentagem do volume de divulgação monitorada ou estimada

100

(8.10.1.3) Reporte da pegada de desmatamento e conversão

Selecione todos os aplicáveis

Nos últimos cinco anos

(8.10.1.7) Pegada de desmatamento e conversão conhecida ou estimada nos últimos cinco anos (hectares)

0

(8.10.1.9) Descreva os métodos e as fontes de dados utilizados para monitorar ou estimar a pegada de desmatamento e conversão da organização

Marfrig has a Policy for the Acquisition of Materials of Forest Origin (version PMAB01, available at: <https://ri.marfrig.com.br/>), whose objective is to guarantee the sustainable origin of products derived from wood used in the company's production process. This policy applies to all Company employees, stakeholders and third parties acting on the Company's behalf. It contains: Origin mapping - Continuously maps the origin of goods in the supply chain with the appropriate level of granularity necessary to define the supply chain risk and assess compliance with Marfrig's commitment to combating deforestation. Origin verification - All products of forest origin supplied to Marfrig must originate from planted forests with measurable volume and plants in areas not embargoed by environmental agencies and/or located in areas of indigenous and/or traditional communities, continuously monitored. Furthermore, Klabin is our supplier of wood forestry products. Klabin is a world reference in sustainable development and is certified by the FSC - Forest Stewardship Council; CERFLOR (Brazilian Forest Certification Program); American Institute of Baking (AIB); ISEGA; FSSC 22000; ISO 14001 and ISO 9001.

Produtos da pecuária

(8.10.1.1) Monitoramento e estimativa da pegada de desmatamento e conversão da organização

Selecione de:

Monitoramos a pegada de desmatamento e conversão na nossa cadeia de valor

(8.10.1.2) Porcentagem do volume de divulgação monitorada ou estimada

(8.10.1.3) Reporte da pegada de desmatamento e conversão

Selecione todos os aplicáveis

Desde uma data de corte especificada

(8.10.1.4) Ano da data de corte

2009

(8.10.1.6) Pegada de desmatamento e conversão conhecida ou estimada desde a data de corte especificada (hectares)

0

(8.10.1.9) Descreva os métodos e as fontes de dados utilizados para monitorar ou estimar a pegada de desmatamento e conversão da organização

Through the Marfrig Verde Program, we ensure that 100% of our direct bovine protein suppliers are free from deforestation and conversion by applying rigorous environmental and social criteria. This approach is implemented not only in the Amazon but across all Brazilian biomes where we source animals for meat, leather, and by-products. We are also committed to achieving a deforestation-free supply chain in all countries where we operate, including Brazil, Argentina, Chile, the United States, and Uruguay. We continuously monitor supplier farms through geospatial technology, verifying ecosystem preservation and identifying deforestation or conflicts with indigenous lands. Our monitoring, which began in 2009 in the Amazon and expanded to the Cerrado in 2020, relies on farm maps from the Rural Environmental Registry (CAR) and satellite imagery from the National Institute for Space Research (INPE). In 2022, we expanded the Socioenvironmental Risk Map to cover 100% of the national territory, including the Mata Atlântica biome. This map helps us identify and prioritize actions in cattle supply areas most exposed to socio-environmental risks. By using this data, we implement targeted actions to mitigate risks, promoting sustainable development and respecting human rights and biodiversity conservation. The Marfrig Verde Program, now three years old, aims to achieve a 100% deforestation-free supply chain across the Amazon, Cerrado, and other biomes by 2025.

Soja

(8.10.1.1) Monitoramento e estimativa da pegada de desmatamento e conversão da organização

Selecione de:

Estimamos a pegada de desmatamento e conversão com base na área de provisionamento

(8.10.1.2) Porcentagem do volume de divulgação monitorada ou estimada

100

(8.10.1.3) Reporte da pegada de desmatamento e conversão

Selecione todos os aplicáveis

Nos últimos cinco anos

(8.10.1.7) Pegada de desmatamento e conversão conhecida ou estimada nos últimos cinco anos (hectares)

0

(8.10.1.9) Descreva os métodos e as fontes de dados utilizados para monitorar ou estimar a pegada de desmatamento e conversão da organização

One of our key responsible purchasing requirements is ensuring that soy used in our operations does not come from deforested areas. This verification is conducted through an approval form, addressing environmental aspects that are continuously monitored. This control applies not only to soy used in animal feed but also in producing alternative proteins, such as those by PlantPlus!, a company developed in partnership with Archer Daniels Midland Company (ADM) for plant-based foods. Our responsible purchasing practices extend across the production chain, contributing to biodiversity conservation, especially in the Amazon, and include considerations for water availability in the regions where our suppliers are located. To mitigate deforestation risks, we purchase soy for processing or animal feed only from companies participating in the Soy Moratorium, a longstanding sector commitment to not buy soy from deforested areas in the Amazon. Additionally, we source soy from companies like ADM, BRF Ingredients, and IFF, all of which have specific policies for purchasing soy outside deforestation areas. For instance, BRF is a member of the RTRS – Round Table on Responsible Soy Association, which promotes responsible soy production and use, and adheres to the Global GAP CFM, ensuring quality assurance in the production and supply of raw materials and feed ingredients throughout all stages of production.

Produtos da pecuária

(8.10.1.9) Descreva os métodos e as fontes de dados utilizados para monitorar ou estimar a pegada de desmatamento e conversão da organização

We are committed to achieving a deforestation-free supply chain in all countries where we operate, including Brazil, Argentina, Chile, the United States, and Uruguay. However, the only country where Marfrig possess an owned land destined to cattle production is in Uruguay. Marfrig directly monitors its plant, ensuring that none of its operations result in a deforestation and conversion footprint, conserving local biomes and ecosystems.

[Adicionar linha]

(8.12) Indique se há detalhes de certificação disponíveis para os volumes de <i>commodities</i> vendidos a membros solicitantes do programa Supply Chain do CDP.

Produto florestal madeireiro

(8.12.1) Adoção de esquema de certificação de terceiros

Selecione de:

Não, e não planejamos adotar uma certificação de terceiros nos próximos dois anos

(8.12.5) Razão principal pela qual não foi adotada uma certificação de terceiros

Selecione de:

Não é uma prioridade estratégica imediata

(8.12.6) Explique por que não foi adotada a certificação de terceiros

Marfrig acquires certified timber products, but does not sell derivatives of these products to customers, since they are only used for internal processes. Therefore, this issue does not apply to this commodity.

Produtos da pecuária

(8.12.1) Adoção de esquema de certificação de terceiros

Selecione de:

Não, mas planejamos adotar uma certificação de terceiros nos próximos dois anos

(8.12.5) Razão principal pela qual não foi adotada uma certificação de terceiros

Selecione de:

Nenhum procedimento padronizado

(8.12.6) Explique por que não foi adotada a certificação de terceiros

Marfrig is still developing a certification model for its commercialized cattle products.

Soja

(8.12.1) Adoção de esquema de certificação de terceiros

Selecione de:

Não, e não planejamos adotar uma certificação de terceiros nos próximos dois anos

(8.12.5) Razão principal pela qual não foi adotada uma certificação de terceiros

Selecione de:

Não é uma prioridade estratégica imediata

(8.12.6) Explique por que não foi adotada a certificação de terceiros

Marfrig purchases soy, but does not sell derivatives of these products to customers, since they are only used for internal processes. Therefore, this issue does not apply to this commodity.

[Linha fixa]

(8.13) A organização calcula as reduções e/ou remoções nas emissões de GEEs resultantes da gestão do uso da terra e das alterações de uso da terra ocorridas nas suas operações diretas e/ou na cadeia de valor <i>upstream</i>?

Produto florestal madeireiro

(8.13.1) Reduções e remoções nas emissões de GEEs calculadas resultantes da gestão do uso da terra e das alterações no uso da terra

Selecione de:

Não, mas planejamos fazê-lo nos próximos dois anos

(8.13.2) Razão principal pela qual a organização não calcula as reduções e remoções nas emissões de GEEs resultantes da gestão e das alterações do uso da terra

Selecione de:

Nenhum procedimento padronizado

(8.13.3) Explique por que a organização não calcula as remoções e reduções nas emissões de GEEs resultantes da gestão do uso da terra e das alterações no uso da terra

Marfrig does not have the necessary data for estimating the calculation of emissions from changes in land use related to timber forest products purchased by the company. Marfrig has a specific policy for purchasing forest material, and through compliance and engagement procedures with direct suppliers, monitors the forest risks associated with these products. The company is studying to map the supply chain for these products, for better evaluations and impact estimates.

Produtos da pecuária

(8.13.1) Reduções e remoções nas emissões de GEEs calculadas resultantes da gestão do uso da terra e das alterações no uso da terra

Selecione de:

Não, mas planejamos fazê-lo nos próximos dois anos

(8.13.2) Razão principal pela qual a organização não calcula as reduções e remoções nas emissões de GEEs resultantes da gestão e das alterações do uso da terra

Selecione de:

Nenhum procedimento padronizado

(8.13.3) Explique por que a organização não calcula as remoções e reduções nas emissões de GEEs resultantes da gestão do uso da terra e das alterações no uso da terra

Marfrig does not have the data necessary for estimating the calculation of emissions from changes in land use related to the purchase of livestock by operating units. A calculation methodology must be developed to include this source in the corporate GHG emissions inventory. The company is currently studying the possibilities of including estimates for this emission source. There is a complexity in adapting georeferenced monitoring data for the Amazon biome to calculate emissions, but the company is studying improvements to be implemented in the coming years.

Soja

(8.13.1) Reduções e remoções nas emissões de GEEs calculadas resultantes da gestão do uso da terra e das alterações no uso da terra

Selecione de:

- Não, mas planejamos fazê-lo nos próximos dois anos

(8.13.2) Razão principal pela qual a organização não calcula as reduções e remoções nas emissões de GEEs resultantes da gestão e das alterações do uso da terra

Selecione de:

- Nenhum procedimento padronizado

(8.13.3) Explique por que a organização não calcula as remoções e reduções nas emissões de GEEs resultantes da gestão do uso da terra e das alterações no uso da terra

Marfrig does not have the necessary data for estimating the calculation of emissions from changes in land use related to acquired soy. The consumption of soy in direct operations is reduced, and through compliance procedures and engagement of direct suppliers, the company monitors the forest risks associated with these products. The company is studying to map the supply chain for these products, for better evaluations and impact estimates.

[Linha fixa]

(8.14) Indique se a organização avalia sua própria conformidade e/ou a conformidade dos seus fornecedores com as regulamentações florestais e/ou as normas obrigatórias, e dê detalhes. [AINDA NÃO DISPONÍVEL]

(8.14.1) Avaliar a conformidade legal com as regulamentações florestais

Selecione de:

- Sim, de fornecedores

(8.14.2) Aspectos da legislação levados em conta

Selecione todos os aplicáveis

- Direitos de uso da terra
 Proteção ambiental

- Regras florestais, incluindo a gestão florestal e a conservação da biodiversidade, quando diretamente relacionado ao corte de madeira
- Proteção dos direitos humanos pelas leis internacionais

(8.14.3) Procedimento para assegurar a conformidade legal

Selecione todos os aplicáveis

- Certificação
- Monitoramento baseado no terreno
- Detecção remota ou outro monitoramento geoespacial

(8.14.4) Indique se são coletados dados relacionados à conformidade com o Código Florestal Brasileiro

Selecione de:

- Sim

(8.14.5) Explique

Timber Products: Marfrig ensures that all its cardboard suppliers are FSC-certified, an international forest certification that guarantees products from responsible forest management. The company uses firewood, primarily in Brazilian operations, sourced from planted forests with known origins and commercial purposes. Marfrig only purchases firewood with the Forest Origin Document (DOF) issued by Ibama, ensuring legal and traceable wood sources. Additionally, Marfrig adheres to a Policy for the Acquisition of Material of Forest Origin, aiming to eliminate deforestation from its supply chains. This policy applies globally, ensuring that wood is sourced only from planted forests and does not come from illegal deforestation or suppliers violating human rights. The company focuses on mapping supply chain origins to assess deforestation risks and ensure compliance. All forest-origin products must come from non-embargoed planted forests, outside indigenous or traditional community areas. These procedures ensure legal compliance and continuous supplier engagement to fully map forest risk areas. Cattle: Marfrig's sustainability management focuses on reducing deforestation within its supply chain through sustainable practices that promote legal compliance, environmental protection, and fair trade. The company emphasizes increasing pasture productivity to avoid the need for deforestation and collaborates with buyers to promote sustainable sourcing. To enhance traceability, Marfrig developed the Request for Information (RFI) tool, requiring ranchers to disclose the origins of cattle purchased from third parties. The sustainability department checks these suppliers against IBAMA and MTE lists to ensure compliance. Marfrig aims to go beyond legal requirements, working towards full supply chain traceability through the Marfrig Verde Plan. By 2025, the company plans to achieve full traceability in the Amazon and Cerrado biomes. In 2020, Marfrig adapted its satellite geomonitoring system, previously used in the Amazon, to include the Cerrado, ensuring better monitoring of both direct and indirect suppliers. The company also supports cattle raisers in socio-environmental risk areas to adopt sustainable practices, facilitating reinclusion into the supply chain. To scale this initiative, Marfrig plans to collaborate with producers, government entities, sector companies, civil society, customers, investors, and banks. Soy: Marfrig ensures that soy products purchased in Brazil are free from illegal deforestation and natural area conversion. Soy is used in some processed products in Marfrig's Brazilian operations, with the company sourcing soy domestically and ensuring traceability through supplier commitments to the Soy Moratorium. Suppliers undergo rigorous social and environmental assessments and are approved based on Marfrig's procurement program. The company works with a few major suppliers that comply with environmental laws, including the forest code. Through the Marfrig Verde program, Marfrig aims to achieve a deforestation-free supply chain by 2025. Significant progress has been made, with 86% origin identification in the Amazon and 71% in the Cerrado by 2023. The responsible sourcing principle

extends to soy producers, who are evaluated to ensure their grains are not from deforested areas. This assessment is crucial not only for animal feed but also for the production of alternative proteins using soy as a base.

[Linha fixa]

(8.15) A organização se engaja em iniciativas paisagísticas (inclusive jurisdicionais) para o progresso dos objetivos comuns de uso sustentável da terra?

| | |
|--|---|
| | Engajamento em iniciativas paisagísticas/jurisdicionais |
| | Selecione de: <input checked="" type="checkbox"/> Sim, nós nos engajamos em iniciativas paisagísticas/jurisdicionais |

[Linha fixa]

(8.15.1) Indique os critérios que a organização leva em conta ao priorizar paisagens ou jurisdições para o engajamento em abordagens colaborativas para o uso sustentável da terra e dê uma explicação.

(8.15.1.1) Critérios para a priorização de paisagens/jurisdições para o engajamento

Selecione todos os aplicáveis

- Capacidade de contribuir com/crescer a partir de iniciativas paisagísticas e/ou jurisdicionais existentes
- Oportunidade para aumentar o acesso ao mercado de pequenos produtores e comunidades locais
- Oportunidade de proteger e restaurar os ecossistemas naturais

(8.15.1.2) Explique o processo de priorização de paisagens/jurisdições para o engajamento

Marfrig has taken a careful and strategic approach to identifying landscapes and jurisdictions with which to engage collaboratively towards sustainable land use. For this, the company considered specific criteria for prioritizing these areas of activity. The first criterion selected was the opportunity to protect and restore natural ecosystems. This means that Marfrig sought to identify regions where there are degraded or threatened areas that could be recovered and conserved with the implementation of sustainable practices. This prioritization is in line with the company's commitment to contribute to the conservation of biodiversity and natural

resources. Another criterion considered was increasing market access for small producers and local communities. This means that Marfrig sought to identify landscapes and jurisdictions where collaboration could directly benefit local producers, providing them with opportunities for growth and sustainable economic development. Finally, the company also assessed the ability to contribute to existing landscape and/or jurisdictional approaches. This means that Marfrig sought to identify regions where sustainability initiatives or programs already exist, so that the company's engagement could add efforts and strengthen these joint actions. Based on these criteria, Marfrig has established partnerships and collaborations with different initiatives, such as the "Sustainable Bezerro" program and "Marfrig Verde", which focus on the socioeconomic inclusion of cattle ranchers, controlling deforestation, conserving native vegetation and the development of a low-carbon economy. In this sense, the partnership with the PCI Institute was fundamental, aiming at raising funds for the State of Mato Grosso and promoting the expansion of agricultural and forestry production, conservation of native vegetation, socioeconomic inclusion of family farming and reduction of carbon emissions. In this way, the company adopted a strategic and committed approach to sustainability to identify the areas in which it could significantly contribute to the responsible use of the land, promoting sustainable practices, the well-being of local communities and the conservation of the environment. The partnerships with BIOMAS and the PCI Institute are concrete examples of how Marfrig has engaged in collaborative initiatives aimed at promoting sustainability and responsible development in different regions of Brazil.

[Linha fixa]

(8.15.2) Dê detalhes do engajamento da organização com iniciativas paisagísticas/jurisdicionais para um uso sustentável da terra durante o ano de reporte.

Row 1

(8.15.2.1) ID da paisagem/jurisdição

Selecione de:

LJ1

(8.15.2.2) Nome da iniciativa

Sustainable Calf Program

(8.15.2.3) País/área

Selecione de:

Brasil

(8.15.2.4) Nome da área paisagística ou jurisdicional

(8.15.2.6) Indique se a organização pode apresentar as dimensões da área abrangida pela iniciativa

Selecione de:

- Não, a área é desconhecida

(8.15.2.8) Tipo de engajamento

Selecione todos os aplicáveis

- Financiador: Oferece recursos financeiros totais ou parciais
- Outro, especifique :Supporter: Implement activities to support at least one goal

(8.15.2.9) Ano de início do engajamento

2019

(8.15.2.10) Ano de término do engajamento

Selecione de:

- Especifique :2025

(8.15.2.11) Investimento estimado ao longo do período do projeto

434167.76

(8.15.2.12) Objetivos paisagísticos apoiados pelo engajamento

Ambientais

- Prevenção do desmatamento/conversão de outros ecossistemas naturais e/ou redução da taxa de degradação
- Menor índice de degradação do ecossistema
- Aumento da taxa de sequestro de carbono (p. ex., por meio da restauração)
- Aumento e/ou manutenção de áreas protegidas
- Conservação e/ou restauração de ecossistemas naturais

Sociais

- Garantia de que as comunidades locais e os pequenos produtores se beneficiem dos resultados da iniciativa paisagística/jurisdicional
- Implementação de atividades/práticas de subsistência que reduzam a pressão sobre as florestas
- Melhores modelos de negócios que permitam a inclusão (incluindo dos pequenos produtores)

Produção

- Aumento e/ou manutenção da saúde do solo
- Sistema confiável de rastreabilidade de <i>commodities</i> e coleta de dados/monitoramento da paisagem

(8.15.2.13) Ações da organização que dão suporte à iniciativa

Participar do planejamento e do alinhamento entre as várias partes interessadas

- Coprojetar e desenvolver objetivos, estratégias e planos de ação com metas e marcos com prazos para a iniciativa
- Colaborar no estabelecimento e na gestão de um sistema de monitoramento contra o desmatamento, a conversão e/ou a degradação de ecossistemas naturais
- Colaborar nas avaliações de sustentabilidade da paisagem por meio de um mapeamento participativo
- Colaborar na gestão/planejamento do uso da terra na paisagem/jurisdição
- Ajudar a estabelecer uma plataforma de governança transparente, responsável por gerenciar a iniciativa e suas atividades, com funções e responsabilidades claras e tomadas de decisões equilibradas

Vincular a ação da cadeia de valor com iniciativas paisagísticas/jurisdicionais por meio da colaboração com o setor privado

- Colaborar para a rastreabilidade das <i>commodities</i>

(8.15.2.14) Tipo de parceiros engajados no design e na implementação da iniciativa

Selecione todos os aplicáveis

- Comunidades locais
- ONG e/ou sociedade civil

(8.15.2.15) Descrição do engajamento

The collaborative initiative adopted by Marfrig, the Sustainable Calf Program, aims at professionalizing small producers in raising calves, which is the first phase of livestock farming. Initially developed in the Amazon biome, the program seeks to promote the socioeconomic inclusion of ranchers, providing adequate lines of credit, technical assistance for genetic and pasture improvement, in addition to supporting land and environmental regularization. The initiative is also in line with the Produce, Conserve and Include Strategy (PCI) of the State of Mato Grosso, which seeks to promote a more sustainable production chain, including the recovery of permanent preservation areas and the control of deforestation. To engage with the jurisdictional/landscape initiative, Marfrig acts as a supporter and financier. The company implements activities that support the program's objectives, such as technical guidance to producers, credit lines and assistance for genetic and pasture improvement. In addition, Marfrig offers full or partial financial support for carrying out the program's activities, ensuring its viability and reach. The program seeks to increase the rate of carbon sequestration through the restoration of pastures and degraded areas, prevent deforestation and the conversion of natural ecosystems, and ensure the inclusion of small producers. In addition, the company seeks to ensure the traceability of commodities and the conservation of natural ecosystems. The company also collaborates in the management and planning of land use in the Amazon region, as well as in the establishment and management of monitoring systems for deforestation and conversion of natural ecosystems. In addition, the company collaborates in landscape sustainability assessments through participatory mapping and for the traceability of commodities. Through these actions, Marfrig makes a positive contribution to addressing critical issues in the Amazon landscape, promoting sustainable practices, conservation of natural ecosystems, socioeconomic inclusion of producers and control of deforestation. The governance mechanisms of the landscape/jurisdictional initiative involve different stakeholders that jointly define and make decisions. The company acts as a strategic partner, contributing with financial resources and technical knowledge for the success of the collaborative initiative and for the achievement of the established sustainability objectives.

(8.15.2.16) É utilizado um quadro de monitoramento coletivo para medir o progresso com relação aos objetivos e ações paisagísticos

Selecione de:

Sim, o progresso é monitorado utilizando-se um quadro internamente definido

(8.15.2.17) Indique as conquistas do engajamento da organização até o momento e como o progresso é monitorado

In 2021, we conducted environmental and management diagnostics with the aim of restoring vegetation on 25 properties of different sizes in the state of Mato Grosso. The project included mapping affected areas with quantitative and qualitative analyses. We launched the "Portal do Pecuarista," an exclusive communication channel for our partner producers across Brazil. Through this new channel, livestock farmers have access to information and content about cattle sales, slaughter, management, sustainability, animal welfare, and other topics of interest to livestock farmers. We also adjusted our methodology and expanded the scope of monitoring: in addition to verifying the origin of animals acquired through direct means, we also improved the criteria and practices used by producers to share information about their suppliers. With the Socioenvironmental Risk Map, we identified and prioritized actions in cattle supply areas in Brazil that are more exposed to socioenvironmental risks. In 2023, the tool began to cover 100% of the national territory, including the Atlantic Forest biome. Engagement with stakeholders, implementation of sustainable practices, and adoption of monitoring systems have contributed to achieving the objectives set forth in the Marfrig Verde plan. This has provided us with greater clarity and traceability regarding indirect suppliers, which are a critical link in the value chain. By 2022, the Marfrig Verde program also achieved 100% monitoring of direct supplier properties, as well as 85% and 71% monitoring of direct producers with farms within the Amazon and Cerrado biomes, respectively, providing reports on the operations of our indirect suppliers. As a sustainable development program, Marfrig Verde is based on the pillars of Production / Preservation / Inclusion. Since 2021, through the program, we have reintegrated 3,561 farms that were suspended as suppliers and in 2023 we reintegrated

approximately 975 farms. Through technical support, documentation, legal advice and multitemporal geospatial analysis, we were able to help these suppliers resume their activities in line with the company's socioeconomic commitments.

(8.15.2.18) Afirmações feitas

Selecione de:

Sim, estamos fazendo uma afirmação

(8.15.2.19) Tipo de afirmação feita

Selecione de:

Afirmação coletiva

(8.15.2.20) Dê outros detalhes sobre a afirmação da organização

Initiatives such as Sustainable Calf and Marfrig Verde enable greater intensification of productive areas and the preservation of native vegetation, thanks to the technical assistance provided to producers, commitments to zero deforestation, and goals for forest restoration. We have invested EUR 1.75 million in the Sustainable Calf Program to facilitate technical training, property regularization, and forest restoration. Through Verde and the Sustainable Calf Program, we are promoting enhanced technical training for producers, property regularization, and the preservation of native vegetation. These programs not only support sustainable cattle raising practices but also contribute significantly to the broader goal of environmental conservation. By intensifying the use of existing productive areas, these initiatives help avoid the need for new deforestation, thus preserving critical ecosystems. Additionally, the programs' focus on forest restoration and property regularization ensures that the agricultural practices align with environmental regulations and contribute to the resilience of local ecosystems.

Row 2

(8.15.2.1) ID da paisagem/jurisdição

Selecione de:

LJ2

(8.15.2.2) Nome da iniciativa

Marfrig Verde

(8.15.2.3) País/área

Selecione de:

Brasil

(8.15.2.4) Nome da área paisagística ou jurisdicional

Includes 8 Brazilian states: Roraima, Mato Grosso, Mato Grosso do Sul, Goiania, São Paulo, Minas Gerais, Paraná and Rio Grande do Sul. The biomes, Amazon, Cerrado, Pantanal, Atlantic Forest and Pampa, cover the states mentioned above

(8.15.2.6) Indique se a organização pode apresentar as dimensões da área abrangida pela iniciativa

Selecione de:

Não, a área é desconhecida

(8.15.2.8) Tipo de engajamento

Selecione todos os aplicáveis

Financiador: Oferece recursos financeiros totais ou parciais

Outro, especifique :Supporter: Implement activities to support at least one goal

(8.15.2.9) Ano de início do engajamento

2020

(8.15.2.10) Ano de término do engajamento

Selecione de:

Especifique :2030

(8.15.2.11) Investimento estimado ao longo do período do projeto

96214905.61

(8.15.2.12) Objetivos paisagísticos apoiados pelo engajamento

Ambientais

- Prevenção do desmatamento/conversão de outros ecossistemas naturais e/ou redução da taxa de degradação
- Menor índice de degradação do ecossistema
- Aumento e/ou manutenção de áreas protegidas
- Conservação e/ou restauração de ecossistemas naturais
- Redução das emissões por meio de mudanças no uso da terra e/ou de produção agrícola

Sociais

- Garantia de que as comunidades locais e os pequenos produtores se beneficiem dos resultados da iniciativa paisagística/jurisdicional
- Implementação de atividades/práticas de subsistência que reduzam a pressão sobre as florestas
- Melhores modelos de negócios que permitam a inclusão (incluindo dos pequenos produtores)

Produção

- Aumento e/ou manutenção da saúde do solo
- Maior adoção de práticas de produção sustentáveis (p. ex., eficiência no uso de insumos e práticas de gestão hídrica)
- Sistema confiável de rastreabilidade de <i>commodities</i> e coleta de dados/monitoramento da paisagem

(8.15.2.13) Ações da organização que dão suporte à iniciativa

Participar do planejamento e do alinhamento entre as várias partes interessadas

- Coprojetar e desenvolver objetivos, estratégias e planos de ação com metas e marcos com prazos para a iniciativa
- Colaborar no estabelecimento e na gestão de um sistema de monitoramento contra o desmatamento, a conversão e/ou a degradação de ecossistemas naturais
- Colaborar na gestão/planejamento do uso da terra na paisagem/jurisdição

Promover capacidades da comunidade e das várias partes interessadas

- Engajar as partes interessadas sobre a importância da conservação, da restauração e/ou da reabilitação

Vincular a ação da cadeia de valor com iniciativas paisagísticas/jurisdicionais por meio da colaboração com o setor privado

- Colaborar para a rastreabilidade das <i>commodities</i>

(8.15.2.14) Tipo de parceiros engajados no design e na implementação da iniciativa

Selecione todos os aplicáveis

- Comunidades locais
- ONG e/ou sociedade civil
- Produtores

(8.15.2.15) Descrição do engajamento

Marfrig Verde is a collaborative initiative aimed at strengthening ties with rural producers, following an approach that combines production, preservation and inclusion. To achieve this purpose, the company acts as a supporter, implementing activities that support various objectives, such as reducing emissions, conserving and restoring natural ecosystems, and adopting sustainable production practices. The financial commitment is also a fundamental part of Marfrig's participation in Marfrig Verde, assuming the role of financier to enable the implementation of these strategic actions. The company develops innovative financing mechanisms, such as support for the application of the Forest Code, encouragement of sustainable production systems and payment for environmental services. Marfrig is engaged in collaborating in the co-projection and development of objectives, strategies and action plans with well-defined goals and deadlines. The company also collaborates in the management and planning of land use in the landscape/jurisdiction, seeking to ensure sustainable production and conservation practices. Monitoring and traceability are crucial aspects of Marfrig's commitment to Marfrig Verde, allowing the identification of areas sensitive to deforestation and actions that may cause degradation. With the combination of technologies such as chipping, cattle ear tagging, satellite monitoring and blockchain systems, the company can take proactive actions to mitigate potential negative impacts on the landscape. Marfrig's activities make a positive contribution to addressing critical issues in the landscape/jurisdiction, promoting the conservation of natural resources, reducing emissions, sustainable land use and encouraging responsible production. The partnership with other institutions, such as EMBRAPA and the PCI Institute, strengthens the collaborative approach and increases the scale and agility of the actions of the Marfrig Verde Plan. The project's governance involves several stakeholders, including cattle ranchers' associations, civil society organizations, academia and the Public Prosecutor's Office. This network operation allows different actors to participate in the definition and decision-making process, sharing responsibilities and expertise for the success of the initiative.

(8.15.2.16) É utilizado um quadro de monitoramento coletivo para medir o progresso com relação aos objetivos e ações paisagísticos

Selecione de:

- Sim, o progresso é monitorado utilizando-se um quadro internamente definido

(8.15.2.17) Indique as conquistas do engajamento da organização até o momento e como o progresso é monitorado

The actions and support of Marfrig Global Foods have played a crucial role in the landscape and jurisdictional initiative focused on the sustainability of the beef value chain. The approach of the Marfrig Verde plan is based on production-preservation-inclusion, aiming for effective transformation across the entire system and collaboration with various stakeholders to achieve its objectives. Within the landscape initiative, the company has implemented measures to reduce emissions

through changes in land use and more sustainable agricultural practices. Monitoring and traceability of the supply chain have enabled the tracking of the origin and quantity of soy consumed in its operations, ensuring compliance with legal and socio-environmental requirements. The results of this engagement have been positive, with the acquisition and slaughter of animals with complete traceability, as well as the dissemination of best production practices on farms. Partnerships with companies aligned with the Soy Moratorium and the Green Protocol of the Pará Grains have also contributed to the promotion of responsible soy production and the conservation of natural ecosystems. Relevant stakeholders, such as rural producers, have benefited from innovative financing actions and structured technical assistance. Engagement with various actors in the livestock value chain and collaboration with associations, civil society organizations, and academia strengthen governance and land use management. Moreover, the commitment to sustainable development has promoted awareness about the importance of conservation and restoration of the environment. Although a verification or validation status of the approach has not been mentioned yet, the progress achieved so far is indicative of Marfrig's commitment and advancement in pursuing a more sustainable beef value chain. Engagement with stakeholders, implementation of sustainable practices, and adoption of monitoring systems have contributed to achieving the objectives set forth in the Marfrig Verde plan. The achievements include emissions reduction, conservation of natural ecosystems, promotion of inclusion, and raising awareness about the importance of sustainability. The company has demonstrated its influence on policies and governance by working in partnership with other organizations and institutions, seeking collaborative solutions to socio-environmental challenges.

(8.15.2.18) Afirmações feitas

Selecione de:

Sim, estamos fazendo uma afirmação

(8.15.2.19) Tipo de afirmação feita

Selecione de:

Afirmação coletiva

(8.15.2.20) Dê outros detalhes sobre a afirmação da organização

Initiatives such as Sustainable Calf and Marfrig Verde enable greater intensification of productive areas and the preservation of native vegetation, thanks to the technical assistance provided to producers, commitments to zero deforestation, and goals for forest restoration. We have invested EUR 1.75 million in the Sustainable Calf Program to facilitate technical training, property regularization, and forest restoration. Through Verde and the Sustainable Calf Program, we are promoting enhanced technical training for producers, property regularization, and the preservation of native vegetation. These programs not only support sustainable cattle raising practices but also contribute significantly to the broader goal of environmental conservation. By intensifying the use of existing productive areas, these initiatives help avoid the need for new deforestation, thus preserving critical ecosystems. Additionally, the programs' focus on forest restoration and property regularization ensures that the agricultural practices align with environmental regulations and contribute to the resilience of local ecosystems.

[Adicionar linha]

(8.15.3) Para cada uma das <i>commodities </i>divulgadas pela organização, dê detalhes dos volumes de divulgação provenientes de cada uma das jurisdições/paisagens com que ela se engaja.

Row 1

(8.15.3.1) ID da paisagem/jurisdição

Selecione de:

LJ1

(8.15.3.2) Algum volume produzido e/ou provisionado da <i>commodity</i> pela organização tem origem nesta paisagem/jurisdição, e a organização é capaz/está disposta a divulgar informações sobre este volume?

Selecione de:

Sim, produzimos/provisionamos <i>commodities</i> nesta paisagem/jurisdição, e somos capazes/estamos dispostos a divulgar dados de volume

(8.15.3.3) Commodity

Selecione de:

Produto florestal madeireiro

(8.15.3.4) Porcentagem do volume de divulgação proveniente desta paisagem/jurisdição

41.5

Row 4

(8.15.3.1) ID da paisagem/jurisdição

Selecione de:

LJ2

(8.15.3.2) Algum volume produzido e/ou provisionado da <i>commodity</i> pela organização tem origem nesta paisagem/jurisdição, e a organização é capaz/está disposta a divulgar informações sobre este volume?

Selecione de:

Sim, produzimos/provisionamos <i>commodities</i> nesta paisagem/jurisdição, e somos capazes/estamos dispostos a divulgar dados de volume

(8.15.3.3) Commodity

Selecione de:

Produtos da pecuária

(8.15.3.4) Porcentagem do volume de divulgação proveniente desta paisagem/jurisdição

29

Row 5

(8.15.3.1) ID da paisagem/jurisdição

Selecione de:

LJ2

(8.15.3.2) Algum volume produzido e/ou provisionado da <i>commodity</i> pela organização tem origem nesta paisagem/jurisdição, e a organização é capaz/está disposta a divulgar informações sobre este volume?

Selecione de:

Sim, produzimos/provisionamos <i>commodities</i> nesta paisagem/jurisdição, e somos capazes/estamos dispostos a divulgar dados de volume

(8.15.3.3) Commodity

Selecione de:

Produto florestal madeireiro

(8.15.3.4) Porcentagem do volume de divulgação proveniente desta paisagem/jurisdição

Row 6**(8.15.3.1) ID da paisagem/jurisdição**

Selecione de:

LJ2

(8.15.3.2) Algum volume produzido e/ou provisionado da <i>commodity</i> pela organização tem origem nesta paisagem/jurisdição, e a organização é capaz/está disposta a divulgar informações sobre este volume?

Selecione de:

Sim, produzimos/provisionamos <i>commodities</i> nesta paisagem/jurisdição, e somos capazes/estamos dispostos a divulgar dados de volume

(8.15.3.3) Commodity

Selecione de:

Soja

(8.15.3.4) Porcentagem do volume de divulgação proveniente desta paisagem/jurisdição

78.9

[Adicionar linha]

(8.16) A organização participa de alguma outra atividade para dar suporte à implementação de políticas e compromissos relacionados ao desmatamento, à conversão de ecossistemas ou a problemas de direitos humanos na cadeia de valor da <i>commodity</i>?

Selecione de:

Sim

(8.16.1) Dê detalhes das atividades externas que dão suporte à implementação das políticas e compromissos da organização relacionados ao desmatamento, à conversão de ecossistemas ou a problemas de direitos humanos na cadeia de valor das <i>commodities</i>

Row 1

(8.16.1.1) Commodity

Selecione todos os aplicáveis

- Produto florestal madeireiro

(8.16.1.2) Atividades Sustentáveis

Selecione todos os aplicáveis

- Engajamento com organizações não-governamentais

(8.16.1.3) País/área

Selecione de:

- Brasil

(8.16.1.4) Área subnacional

Selecione de:

- Especifique :All national territory

(8.16.1.5) Dê outros detalhes sobre a atividade

Marfrig is committed to the sustainable use of the timber forest product commodity. For this we have: TFA: Seeks to achieve zero deforestation in the beef, palm oil, soy, paper and cellulose production chains. This global alliance, brings together the top executives from various industries producing consumer goods, and the US government. Marfrig is part of the TFA Steering Committee. FSC: Klabin is our supplier of timber forest products. Klabin is a world reference in sustainable development and is certified by the FSC. Global Compact: This initiative of the United Nations (UN) aims to engage companies to good practices of sustainability and corporate social responsibility, he said, undermining ten principles related to Human Rights, Labor, Environment and Anti-Corruption. Brazil Coalition - Clima Floresta e Agricultura: a movement composed of more than 300 representatives from the private sector, financial sector, academia and civil society, uniting different voices in favor of Brazil's leadership in a new low carbon, competitive, responsible and inclusive economy. In this context, it works to promote synergy between the protection,

conservation, sustainable use of natural and planted forests, agriculture and livestock and adaptation to climate change agendas. PCI Institue: The State of Mato Grosso, through its governor, launched the “Strategy: Produce, Conserve and Include” at the Climate Convention (COP 21), with the objective of raising funds for the State, aiming at expanding and increasing the efficiency of agricultural production. and forestry, conservation of remnants of native vegetation, recomposition of environmental liabilities and the socioeconomic inclusion of family farming and generate a reduction in emissions and carbon sequestration of 6 GTonCO₂, through the control of deforestation and the development of a low carbon economy. Marfrig also has a Policy for the Acquisition of Material of Forest Origin, whose objective is to ensure the sustainable origin of wood-derived products used in the production process from the company. Support for these initiatives is in line with Marfrig's business strategy of being a reference company in sustainability within its sector, with origin control of its product chain, assuring customers and consumers that they are not associated with the deforestation of areas of risk.

Row 2

(8.16.1.1) Commodity

Selecione todos os aplicáveis

Produtos da pecuária

(8.16.1.2) Atividades Sustentáveis

Selecione todos os aplicáveis

Engajamento com organizações não-governamentais

(8.16.1.3) País/área

Selecione de:

Brasil

(8.16.1.4) Área subnacional

Selecione de:

Especifique :All national territory

(8.16.1.5) Dê outros detalhes sobre a atividade

Marfrig continues to globally support the development of protein sustainability standards through engagement/participation in: Global Roundtable for Sustainable Beef (GRSB): Its members include producers, producer associations, commercial and processing sectors, retail companies, civil organizations and roundtables from Canada, Colombia and United States, as well as the European one. Brazilian Roundtable for Sustainable Beef (GTPS): The main purpose of the GTPS is to discuss

and develop the common principles, standards and practices to be adopted by the sector, with the premise of developing a sustainable, fair, environmentally correct and economically feasible livestock. Among the work developed by the GTPS and its partners, the preparation of the Guide to Sustainable Livestock Indicators stands out, engaging all links of the cattle production chain. Marfrig Global Foods participates in the Group as a Board member. Tropical Forest Alliance (TFA): The alliance goal is to reach zero net deforestation in the beef, palm oil, soy, paper and pulp production chains. Marfrig is a member of the institution's Steering Committee, body responsible for the decisions of the alliance. Global Compact: This initiative of the United Nations (UN) aims to engage companies to good practices of sustainability and corporate social responsibility, he said, undermining ten principles related to Human Rights, Labor, Environment and Anti-Corruption. EMBRAPA: The partnership aims to promote the adoption of more sustainable practices to livestock, thus strengthening the value added to the chain. The initiative promotes the production concepts of Carbon Neutral Brazilian (CNBB) and Low Carbon Brazilian Beef (LCBB), developed by Embrapa for the certification of meat produced in systems that neutralize or reduce the emission of methane by animals. In addition, Marfrig also support the initiatives: Ministério Público Federal (MPF) e Imaflora; PCI Institute; Safe Trace e The Nature Conservancy; Friends Earth Brazilian Amazon; Brazil Coalition - Climate Forest and Agriculture; Meat Traceability Task Force. Support for these initiatives is in line with Marfrig's business strategy of being a reference company in sustainability within its sector.

Row 3

(8.16.1.1) Commodity

Selecione todos os aplicáveis

Soja

(8.16.1.2) Atividades Sustentáveis

Selecione todos os aplicáveis

Engajamento com organizações não-governamentais

(8.16.1.3) País/área

Selecione de:

Brasil

(8.16.1.4) Área subnacional

Selecione de:

Especifique :All national territory

(8.16.1.5) Dê outros detalhes sobre a atividade

Marfrig is committed to the sustainable use of the soy commodity. For this we have: Tropical Forest Alliance: Seeks to achieve zero deforestation in the beef, palm oil, soy, paper and cellulose production chains. This global alliance, created in 2012 by the Consumer Goods Forum, brings together the top executives from various industries producing consumer goods, and the US government. Marfrig is part of the TFA Steering Committee. Global Compact: This initiative of the United Nations (UN) aims to engage companies to good practices of sustainability and corporate social responsibility, he said, undermining ten principles related to Human Rights, Labor, Environment and Anti-Corruption. Brazil Coalition - Climate Forest and Agriculture: a movement composed of more than 300 representatives from the private sector, financial sector, academia and civil society, uniting different voices in favor of Brazil's leadership in a new low carbon, competitive, responsible and inclusive economy. In this context, it works to promote synergy between the protection, conservation, sustainable use of natural and planted forests, agriculture and livestock and adaptation to climate change agendas. Soy Moratorium: The soybeans purchased are of national origin, traceability is linked to the commitment of our suppliers with this initiative. Suppliers undergo an assessment and are approved according to the procurement program for managing raw materials, materials and service providers. To carry out this verification, we use an approval form, in which this practice is addressed in one of the environmental aspects evaluated. In addition to that, soy is purchased from the companies: ADM, Brevil, BRF Ingredients and Dupont. All companies have specific policies for the purchase of soy outside deforestation areas. The BRF, for example, is aligned with and a member of the RTRS. PCI Institute: This initiative, in its production strategy, aims to expand the grain area in degraded pasture areas from 9.5 to 12.5 million hectares by 2030 and increase grain production from 50 to 92M ton by 2030, through the control of deforestation and the development of a low carbon economy. Support for these initiatives is in line with Marfrig's business strategy of being a reference company in sustainability within its sector.

[Adicionar linha]

(8.17) A organização apoia ou implementa projeto(s) focado(s) na restauração e na proteção de longo prazo dos ecossistemas?

Selecione de:

Sim

(8.17.1) Dê detalhes sobre o(s) projeto(s), incluindo a extensão, a duração e a frequência de monitoramento. Especifique eventuais resultados medidos.

Row 1

(8.17.1.1) Referência do projeto

Selecione de:

Projeto 1

(8.17.1.2) Tipo de projeto

Selecione de:

- Restauração de ecossistemas florestais

(8.17.1.3) Benefícios esperados do projeto

Selecione todos os aplicáveis

- Melhoria na saúde do solo
- Redução nas emissões de GEEs
- Melhoria na regulação ambiental
- Restauração de ecossistema(s) natural(is)
- Redução/interrupção da perda de biodiversidade
- Melhoria na sustentabilidade das práticas de produção
- Garantia de um fornecimento contínuo de <i>commodities </i>agrícolas

(8.17.1.4) Este projeto origina algum crédito de carbono?

Selecione de:

- Não

(8.17.1.5) Descrição do projeto

he project announced by Marfrig Global Foods S.A., in partnership with Itaú Unibanco, Rabobank, Santander, Suzano, and Vale, consists of creating a company dedicated to the activities of forest restoration, conservation, and preservation in Brazil. The initiative aims to restore and protect a total of 4 million hectares of native forests in different Brazilian biomes, including the Amazon, the Atlantic Forest, and the Cerrado, over a period of 20 years. The project is not a legal requirement imposed on the companies. Instead, it is a voluntary action adopted by the involved companies. The motivation behind the creation of Biomás is aligned with global concerns related to environmental conservation and climate change mitigation. The participating companies seek to contribute to the reduction of greenhouse gas emissions and to protect and preserve biodiversity in Brazil. Biomás was established to act as a platform to promote forest restoration, conservation, and preservation in the country, with the objective of trading carbon credits as a way to financially support the restoration and conservation projects of degraded areas. The Biomás company will have an initial investment of R 20 million from each partner to support the initial activities of the company. The project involves the restoration of 2 million hectares of degraded areas, with the planting of approximately 2 billion native trees, in addition to the conservation and preservation of another 2 million hectares. In addition to the direct environmental benefits of the initiative, the alliance between the companies also aims to stimulate regional development and strengthen local communities through their involvement in the value chain. The expectation is that the project will contribute to the protection of diverse species of animals and plants, as well as significantly reduce carbon equivalent emissions over the next two decades.

(8.17.1.6) Onde o projeto está sendo realizado, com relação à cadeia de valor da organização?

Selecione todos os aplicáveis

- Projeto com base em área(s) de abastecimento

Projeto com base em outro local

(8.17.1.7) Ano de início

2022

(8.17.1.8) Ano final

Selecione de:

2041-2045

(8.17.1.9) Área do projeto até o momento (hectares)

0

(8.17.1.10) Área do projeto no ano final (hectares)

4000000

(8.17.1.11) País/área

Selecione de:

Brasil

(8.17.1.12) Latitude

-23

(8.17.1.13) Longitude

-49

(8.17.1.14) Frequência de monitoramento

Selecione de:

Anualmente

(8.17.1.15) Investimento total ao longo do período do projeto (moeda)

120000000

(8.17.1.16) Para quais dos benefícios esperados pela organização o progresso está sendo monitorado?

Selecione todos os aplicáveis

- Melhoria na saúde do solo
- Melhoria na sustentabilidade das práticas de produção
- Redução/interrupção da perda de biodiversidade
- Redução nas emissões de GEEs

(8.17.1.17) Explique

The project, which began in 2022 with an expected completion date of 2042, aims to restore, conserve and preserve a total of 4 million hectares of native forests in the Brazilian Amazon, Cerrado and Atlantic Forest biomes. To date, no reforestation activities have been carried out since the project was recently created. However, in 2023, the action plan to start restoration activities in the degraded areas is still being developed. The project area in the target year is 4 million hectares, representing a significant effort in environmental conservation over two decades. The project will be monitored annually, meaning that activities and progress will be continuously assessed at annual intervals. The project will use remote sensing, using satellite imagery to monitor changes in forest cover over time. In addition, there will be regular visits to the restoration areas to assess tree growth, vegetation development and the presence of fauna. Biodiversity indicators will be measured to assess the success of the project in preserving the diversity of animal and plant species. Carbon emissions will also be assessed, before and after reforestation, to measure the impact of the project on reducing greenhouse gases. Another important aspect is the assessment of socioeconomic indicators to assess the involvement and benefits provided to local communities, such as employment opportunities, economic development and capacity building. The results measured will include the total area restored and preserved, the diversity of species recovered, the amount of carbon equivalent reduced, the positive impact on local communities and other key indicators related to the success of the project in achieving its environmental conservation and sustainable development objectives. The initial investment of US 120,000,000 will be allocated to support the implementation of the project over time and ensure its effectiveness and the achievement of the established goals.

[Adicionar linha]

C9. Desempenho ambiental – Segurança hídrica

(9.1) Existem exclusões na divulgação de dados hídricos da organização?

Selecione de:

Não

(9.2) Em todas as operações da organização, qual proporção dos seguintes aspectos hídricos é regularmente medida e monitorada?

Captação de água – volume total

(9.2.1) Porcentagem de unidades/instalações/operações

Selecione de:

100%

(9.2.2) Frequência de medição

Selecione de:

Mensal

(9.2.3) Método de medição

In Brazil, the Marfrig rely on electromagnetic flow meters to measure water consumption in each plant. In other countrys, the volumes are monitored through the hydrometer, at the entrance of the operating units, and consolidated on site by the Sustainability team.

(9.2.4) Explique

In the Marfrig, all water withdrawal – total volume is measured monthly in 100% of units. Monitoring is important, as this is a KPI for Marfrig's water management, through which it is possible to increase efficiency, refine goals related to water and avoid waste in operations. Marfrig report this information at an internal level quarterly, and report data externally on an annual basis.

Captação de água – volume por fonte

(9.2.1) Porcentagem de unidades/instalações/operações

Selecione de:

100%

(9.2.2) Frequência de medição

Selecione de:

Mensal

(9.2.3) Método de medição

In Brazil, the Marfrig rely on electromagnetic flow meters to measure water consumption in each plant. In other countrys, the volumes are monitored through the hydrometer, at the entrance of the operating units, and consolidated on site by the Sustainability team. The water withdrawal sources that Marfrig uses are: surface, underground and other sources.

(9.2.4) Explique

In the Marfrig, all water withdrawal – volume per source is measured monthly in 100% of units. Measurement/monitoring is important because this is a KPI that allows for water management, through which it is possible to identify the priority sources of water collection in each of the factories and assess dependence on them. Having this detailed information is important for drawing up plans in cases of possible water crises. The data obtained are audited by a third party. This routine, carried out continuously, ensures the identification of opportunities for improvement, and contributes to measure performance regarding in these issues. In addition, Marfrig has a data collection and monitoring system for its Sustainability KPIs, through the ARCA platform. To Marfrig, "units" it's refer all operating units (bovine slaughterhouses; lamb slaughterhouse and units for high-aggregate value products). All units are monitored for water withdrawal – volume per source.

Qualidade da captação de água

(9.2.1) Porcentagem de unidades/instalações/operações

Selecione de:

100%

(9.2.2) Frequência de medição

Selecione de:

Mensal

(9.2.3) Método de medição

The measurement method used consists of carrying out water quality analyzes within the operating unit itself at the collection points, in order to comply with environmental agencies. Parameters measured include: BOD, NH3, NO2, NO3 and Phosphorus. These parameters are required for all units reporting water withdrawal volumes. This procedure provides a number of advantages, such as obtaining more accurate and faster results, since there is no waiting time for sample transport and analysis.

(9.2.4) Explique

In the Marfrig, 100% of operating units analyze the quality of their water through analyzes carried out at the plants themselves. Furthermore, all Marfrig plants have Water Treatment Plants (WTPs) that are appropriate for their respective water sources, whether it's underground, surface water, or other sources. The measurement/monitoring of water quality is carried out because this ensures that the treated water meets the drinking water standards required by current legislation in each country where the company operates and to which it exports. To Marfrig, "units" it's refer all operating units (bovine slaughterhouses; lamb slaughterhouse and units for high-aggregate value products). All units are monitored for quality of water withdrawal volumes.

Descarga de água – volume total

(9.2.1) Porcentagem de unidades/instalações/operações

Selecione de:

100%

(9.2.2) Frequência de medição

Selecione de:

Contínua

(9.2.3) Método de medição

Marfrig measures water discharge in real time. The total volume of water discarded is continuously measured at all Marfrig units using the Parshall gutter, and the results are consolidated on site by the Sustainability team. The Parshall trough is a device commonly used to measure flow in open channels of liquids flowing by gravity. Furthermore, in 2023, Marfrig created an online effluent discharge monitoring system.

(9.2.4) Explique

In the Marfrig, all water discharged is measured continuously in 100% of units. Measuring and monitoring this information is important to mitigate the impact of Marfrig's operations on the environment and meet legal requirements, since the company is required by local environmental agencies to measure water discharge. Furthermore, the online monitoring system to release of effluents refines and speeds up the routines for monitoring the volumes of wastewater discharged during the operations. In this platform, the flow and volume data from each of plants are concentrated, in real time, that allows Marfrig to monitor the Effluents Treatment Plants (ETP) on an ongoing basis, identify opportunities for improvement, and anticipate corrective measures that may prove necessary. To Marfrig, "units" it's refer all operating units (bovine slaughterhouses; lamb slaughterhouse and units for high-aggregate value products). All units are monitored for water discharged volumes.

Descargas de água – volumes por destino

(9.2.1) Porcentagem de unidades/instalações/operações

Selecione de:

100%

(9.2.2) Frequência de medição

Selecione de:

Contínua

(9.2.3) Método de medição

Marfrig measure water discharged in real-time. The total volume of water discharged is measured continuously at all Marfrig units using the Parshall flume, and the results are consolidated in loco by the Sustainability team. The effluent discharge destinations for Marfrig are: Release into municipal collecting system; Release in soil (fertigation); Release into a water body.

(9.2.4) Explique

In the Marfrig, all water discharged – volumes by destination is measured continuously using the Parshall flume method in 100% of units. This measurement/monitoring is carried out and is important because one of the destinations of Marfrig's effluents is water bodies. In addition, the company's water disposal management must comply with regulatory requirements and other rules applicable to each country of operation and export. Thus, the water discharged generated throughout the various production stages in Marfrig plants is treated before it returns to the environment. To Marfrig, "units" it's refer all operating units (bovine slaughterhouses; lamb slaughterhouse and units for high-aggregate value products). All units are monitored for water discharged – volumes by destination.

Descargas de água – volume por método de tratamento

(9.2.1) Porcentagem de unidades/instalações/operações

Selecione de:

100%

(9.2.2) Frequência de medição

Selecione de:

Contínua

(9.2.3) Método de medição

All water discharged is continuously measured in 100% of units using the Parshall flume method. This monitoring is crucial as some effluents are directed to water bodies. The company's water disposal must meet regulatory requirements and other applicable rules in each country of operation and export. Water discharged from various production stages is treated before returning to the environment. "Units" refers to all operational sites, including slaughterhouses and high-value product units.

(9.2.4) Explique

In the Marfrig, all water discharged – volume per treatment method is measured continuously using the Parshall flume method in 100% of units. Measurement/monitoring is carried out because one of the destinations of Marfrig's effluents is water bodies. In addition, the company's water disposal management must comply with regulatory requirements and other rules applicable to each country of operation and export. Thus, the water discharged generated throughout the various production stages in Marfrig plants is treated before it returns to the environment. This can be done, as all plants rely on ETPs, which consist of structures in which the input goes through physical-chemical treatments, followed by biological procedures, so that, at the end of the process, it meets the discharge standards required by the prevailing federal or state legislation. This structure also gives the industrial units autonomy to receive and treat the wastewater generated in the various production stages.

Qualidade da descarga de água – por parâmetros de efluente padrão

(9.2.1) Porcentagem de unidades/instalações/operações

Selecione de:

100%

(9.2.2) Frequência de medição

Selecione de:

Contínua

(9.2.3) Método de medição

To monitor the quality of water discharge – by standard effluent parameters, Marfrig uses tests from external laboratories. The key parameters considered are: 5-day biological oxygen demand (BOD); total suspended solids (TSS); turbidity, phosphorus and others. The pH and dissolved oxygen parameters are measured in loco and consolidated by Marfrig's Sustainability team on a daily basis.

(9.2.4) Explique

In the Marfrig, all water discharged – by standard effluent parameters is measured monthly using tests from external laboratories and pH and dissolved oxygen parameters are measured in loco on a daily basis in 100% of units. The measurement and monitoring of these parameters is important for Marfrig, as it is responsible for releasing good quality effluents into water bodies. Measurement/monitoring aims to reduce the environmental impacts resulting from the company's activities. Wastewater management practices comply with the export requirements of each recipient country, as well as third-party audit standards. The company's operations ac-counted for 18 certifications, including BRC Global Standards, Hilton Quota, McDonald's SWA, ISO 14001 and others. To Marfrig, "units" it's refer all operating units (bovine slaughterhouses; lamb slaughterhouse and units for high-aggregate value products). All units are monitored for water discharged – by standard effluent parameters.

Qualidade da descarga de água – emissões para a água (nitratos, fosfatos, pesticidas e/ou outras substâncias prioritárias)

(9.2.1) Porcentagem de unidades/instalações/operações

Selecione de:

100%

(9.2.2) Frequência de medição

Selecione de:

Mensal

(9.2.3) Método de medição

In relation to monitoring the quality of water discharge – due to emissions into the water, Marfrig uses tests from external laboratories. The main parameters considered for this analysis are cadmium and mercury (in accordance with Directive 2013/39/EU of the European Parliament and of the Council).

(9.2.4) Explique

At Marfrig, all water discharge through emissions into water is measured monthly through external laboratory tests at 100% of the units. Measuring/monitoring these parameters is extremely important for Marfrig, as it is responsible for releasing good quality effluents into water bodies, reducing the environmental impacts resulting from its activities. For Marfrig, “units” refer to all operational units (beef slaughterhouses; lamb slaughterhouses and high value-added product units). All units are monitored for water discharge – through emissions.

Qualidade da descarga de água – temperatura

(9.2.1) Porcentagem de unidades/instalações/operações

Selecione de:

100%

(9.2.2) Frequência de medição

Selecione de:

Mensal

(9.2.3) Método de medição

Temperature measurement in the effluent collection process is carried out monthly using thermometers by the team responsible at Marfrig units. In Uruguay, the Ministry of the Environment monitors discharge temperatures hourly, year-round, 365 days a year.

(9.2.4) Explique

At Marfrig, all discarded water, including temperature, is measured monthly by the designated team in 100% of the units. Temperature monitoring is essential to meet the legal requirements of each location where the company operates. Furthermore, wastewater is normally discharged at room temperature. Marfrig does not release hot or cold water into the environment. The lagoon's wastewater treatment process also helps adjust the temperature to suit environmental conditions. The term “units” at Marfrig refers to all operational facilities, which include beef slaughterhouses, lamb slaughterhouses and units for high-value-added products. All units undergo water discharge temperature monitoring.

Consumo de água – volume total

(9.2.1) Porcentagem de unidades/instalações/operações

Selecione de:

100%

(9.2.2) Frequência de medição

Selecione de:

Mensal

(9.2.3) Método de medição

Marfrig monitors monthly water consumption via a water balance system that tracks intake and discharge volumes. This process is managed by the sustainability consultancy ARCA, which utilizes Marfrig's data in its proprietary system. In Brazil, water abstraction is gauged with electromagnetic flow meters, while hydrometers are used elsewhere. Parshall gutters are employed to measure water discharge.

(9.2.4) Explique

At Marfrig, all water consumption — total volume — is measured monthly by subtracting water discharges from water withdrawals across 100% of our units. Marfrig considers it crucial to measure and monitor the water consumption of all operating units due to local legal requirements and market demands. Particularly in Europe, customers demand transparency regarding the quantity and quality of water used in our products. Monitoring this data is also essential because we have set a goal to reduce water consumption by 20% per ton of product by 2035, based on our 2020 performance. Measurement of consumption is the primary method to achieve this goal. The term 'units' at Marfrig refers to all operating facilities, including bovine slaughterhouses, lamb slaughterhouses, and units for high-value-added products. Water consumption volumes are monitored across all units.

Água reciclada/reutilizada

(9.2.1) Porcentagem de unidades/instalações/operações

Selecione de:

100%

(9.2.2) Frequência de medição

Selecione de:

Mensal

(9.2.3) Método de medição

Marfrig measures its water consumption monthly using a water balance that accounts for both withdrawals and discharges. This water balance is conducted by the sustainability consulting firm ARCA Sustentabilidade, utilizing the collection and disposal data inputted by Marfrig into the ARCA system (developed by the consultancy). Water withdrawal is measured using electromagnetic flow meters in Brazil and hydrometers in other countries. Water discharge is measured using Parshall flumes.

(9.2.4) Explique

All water consumption — total volume — is measured monthly by subtracting water discharges from water withdrawals (water withdrawals - water discharges) across 100% of our units. It is crucial for Marfrig to measure and monitor the water consumption of all its operating units due to local legal requirements and market demand, especially from customers in Europe who seek transparency regarding the quantity and quality of water used in our products. Monitoring this data is essential because we have set a goal to reduce water consumption by 20% per ton of products by 2035, based on our 2020 performance. Monitoring consumption is integral to achieving this goal. The term 'units' at Marfrig refers to all operating facilities, including bovine slaughterhouses, lamb slaughterhouses, and units for high-value-added products. Water consumption volumes are monitored across all units.

Fornecimento de serviços de WASH (água, saneamento e higiene) em perfeito funcionamento e gerenciados com segurança para todos os funcionários

(9.2.1) Porcentagem de unidades/instalações/operações

Selecione de:

100%

(9.2.2) Frequência de medição

Selecione de:

Contínua

(9.2.3) Método de medição

Water used for personal hygiene is provided by local water utilities in accordance with the quality standards defined by the responsible body. With a focus on employees' welfare, Marfrig checks and monitors whether the internal water systems are fully operational. The volumes are measured monthly by the units' water meters and consolidated by the Sustainability team.)

(9.2.4) Explique

At Marfrig, the provision of WASH services to all employees is monitored monthly by the Sustainability team across all units. Measurement and monitoring are conducted in all units to ensure the quality of potable water supplied for human consumption. This includes filters and drinking fountains in all operational facilities such as slaughterhouses, processing plants, and distribution centers. Ensuring WASH services for employees is not only fundamental but also essential for the organization's continuity. Marfrig places high importance on occupational health and safety in its management practices. Ensuring safe and healthy environments for employees to perform their duties is a fundamental and non-negotiable requirement. In this context, "units" at Marfrig refer to all operational facilities, including distribution centers and feedlot units. Monitoring is conducted across all these units.

[Linha fixa]

(9.2.2) Quais são os volumes totais de captação, descarga e consumo de água em todas as operações da organização, como esses volumes se comparam ao ano de reporte anterior e como é previsto que eles variem?

Total de captação

(9.2.2.1) Volume (megalitros/ano)

26504.54

(9.2.2.2) Comparação com o ano de reporte anterior

Selecione de:

Menor

(9.2.2.3) Motivo principal para a comparação com o ano de reporte anterior

Selecione de:

Aumento/redução na eficiência

(9.2.2.4) Previsão para cinco anos

Selecione de:

Igual

(9.2.2.5) Principal motivo da previsão

Selecione de:

- Aumento/redução na eficiência

(9.2.2.6) Explique

For Marfrig, the thresholds for comparing water flow between the current and previous years, as well as the five-year forecast, follow specific classifications: Deviation +/- 5%: considered "practically the same". Deviation between +/- 5-15%: classified as "higher" or "lower". Deviation +/- 15%: labeled as "much higher" or "much lower". The volume of water withdrawal for Marfrig's operations totaled 26.504 million cubic meters in the period under analysis. This represents a reduction of 3.01% compared to the total volume withdrawn in 2022. This reduction is in line with certain water resource management initiatives and also reflects a slight reduction in production. Looking ahead, water withdrawals are expected to decrease over the next five years. To achieve this goal, Marfrig plans to invest in capital expenditures (CAPEX) to improve withdrawal management infrastructure. The goal is to increase water efficiency in its operations and promote projects and initiatives that promote greater water efficiency in both its own processes and those of its suppliers. This includes Marfrig's initiative to increase control with a pilot project for remote and automatic monitoring of water withdrawal. Data on the volume of water withdrawal from each operational unit was collected through the ARCA system and consolidated, resulting in the total volume reported.

Total de descarga

(9.2.2.1) Volume (megalitros/ano)

23937.78

(9.2.2.2) Comparação com o ano de reporte anterior

Selecione de:

- Igual

(9.2.2.3) Motivo principal para a comparação com o ano de reporte anterior

Selecione de:

- Aumento/redução na eficiência

(9.2.2.4) Previsão para cinco anos

Selecione de:

- Menor

(9.2.2.5) Principal motivo da previsão

Selecione de:

Aumento/redução na eficiência

(9.2.2.6) Explique

To Marfrig, the thresholds for comparing water discharge between the current and previous reporting years, as well as the five-year forecast, follow specific classifications: Deviation +/- 5%: Considered "pretty much the same." Deviation between +/- 5-15%: Classified as "higher" or "lower." Deviation +/- 15%: Labeled as "much higher" or "much lower." The volume of water discharged for Marfrig's operations was pretty much the same as in the previous year, totaling 23.93 million cubic meters for the period. This represents a reduction of 0.50% compared to 2022, a variation that aligns with the slight reduction in water abstraction and the slight reduction in production observed in both South and North America. Looking ahead, there is a forecast over the next five years that water discharge will decrease. To achieve this, Marfrig is investing (CAPEX) in a comprehensive project to modernize the Effluents Treatment Plants (ETP). Approximately R 30 million are being invested in the modernization of ETPs and Water Treatment Plants (WTPs) across its operating units. Through the implementation of biological systems and segregation technologies, the company has made significant progress in efficient wastewater treatment processes. Data on the volume of effluents from each operating unit were collected using the ARCA system and consolidated, resulting in the total volume reported.

Consumo total

(9.2.2.1) Volume (megalitros/ano)

2566.76

(9.2.2.2) Comparação com o ano de reporte anterior

Selecione de:

Menor

(9.2.2.3) Motivo principal para a comparação com o ano de reporte anterior

Selecione de:

Aumento/redução na eficiência

(9.2.2.4) Previsão para cinco anos

Selecione de:

Menor

(9.2.2.5) Principal motivo da previsão

Selecione de:

Aumento/redução na eficiência

(9.2.2.6) Explique

To Marfrig, the thresholds for comparing water consumption between the current and previous reporting years, as well as the five-year forecast, follow specific classifications: Deviation +/- 5%: Considered "pretty much the same." Deviation between +/- 5-15%: Classified as "higher" or "lower." Deviation +/- 15%: Labeled as "much higher" or "much lower." To calculate water consumption, Marfrig subtracts total water discharges from total water withdrawal. The volume of water consumption for Marfrig's operations was lower than in the previous year, totaling 2.56 million cubic meters for the period. This represents a 26% decrease compared to 2022, a variation that reflects the increased efficiency of Marfrig's processes observed in both South America and North America. In response, Marfrig has implemented several measures to reduce water consumption in its plants, including flow reduction, automation equipment, and employee training. Additionally, the company has adopted projects to reuse water where potable standards are not required. Looking ahead, there is a forecast over the next five years that water withdrawal will continue to decrease. To achieve this goal, Marfrig is investing (CAPEX) in water and effluent management infrastructure improvements. These investments aim to enhance water efficiency in its operations and support projects and initiatives aimed at greater water efficiency in its own processes and those of its suppliers. Furthermore, Marfrig has set a goal to reduce water consumption by 20% by 2035 per ton of products, building upon the company's performance in 2020.

[Linha fixa]

(9.2.4) Indique se a água é captada em áreas com estresse hídrico, indique o volume, como ele se compara com o ano de reporte anterior e quais são as previsões de variação.

(9.2.4.1) As captações provêm de áreas com estresse hídrico

Selecione de:

Sim

(9.2.4.2) Volume captado em áreas com estresse hídrico (em mega litros)

12164.07

(9.2.4.3) Comparação com o ano de reporte anterior

Selecione de:

Igual

(9.2.4.4) Motivo principal para a comparação com o ano de reporte anterior

Selecione de:

Aumento/redução na eficiência

(9.2.4.5) Previsão para cinco anos

Selecione de:

Menor

(9.2.4.6) Principal motivo da previsão

Selecione de:

Aumento/redução na eficiência

(9.2.4.7) % do total de captação em áreas com estresse hídrico

45.89

(9.2.4.8) Ferramenta de identificação

Selecione todos os aplicáveis

WRI Aqueduct

(9.2.4.9) Explique

For Marfrig, water stress in its operations was higher than in the previous year, resulting in a 4% increase in the period, that is, practically the same as last year (11,700.97). This performance is in line with Marfrig's quest to improve its water efficiency and management. To monitor water availability risks in its manufacturing units, Marfrig conducts continuous analyses. Through these assessments, the company identifies the quality and quantity of reservoirs, allowing targeted measures to increase water efficiency in critical areas and reduce water withdrawals. Among Marfrig's facilities, the Liberal and Dodge City plants in the United States are located in an area classified as extremely high risk, Iowa and Moultrie are in regions classified as medium high, while Itupeva (Brazil) faces high water stress. Villa Mercedes (Argentina) are in regions classified as medium-high risk. Internally, these metrics are used annually to assess the organization's water risk management performance. Looking ahead, the percentage of water collected in stress-prone areas is expected to decrease further over the next five years. To achieve this goal,

Marfrig will continue to invest in studies and projects aimed at increasing water efficiency at its units and reducing dependence on water collection in high-stress regions. This strategic approach involves the use of tools such as specific studies conducted by environmental consultants, incorporating scenarios provided by WRI's Aqueduct tool and IPCC climate projections (RCP4.5 and RCP8.5). By integrating unit locations with water collection data from the Arca Sustainability system, Marfrig calculates the volume and percentage of water coming from areas affected by stress. These assessments are carried out annually at all operational units, including cattle and sheep slaughterhouses, as well as units producing high-added-value products.

[Linha fixa]

(9.2.5) Que proporção das <i>commodities </i>agrícolas relevantes para a sua organização tem origem em áreas de estresse hídrico?

Produtos da pecuária

(9.2.5.1) A proporção desta <i>commodity </i>produzida em áreas com estresse hídrico é conhecida

Selecione de:

Sim

(9.2.5.2) Porcentagem do total de <i>commodities </i>agrícolas produzidas em áreas de estresse hídrico

Selecione de:

0%

(9.2.5.3) Explique

Marfrig has a relatively small production of livestock commodities in Uruguay. However, the region where this production is located does not face problems of water stress. Therefore, the percentage of production in areas with water stress is 0%. The tool used: Marfrig conducts an ongoing analysis of the status of the water supply in the locations where its plants are located, in order to measure the risks of water availability for its operations. Through this study, the quality and quantity of the reservoirs are identified. For this task, the company uses a specific tool, AQUEDUCT, made available by the World Resources Institute (WRI). The frequency of the assessments is annual. Regarding the future trend of this indicator, it is expected that there will be no change in the coming years, with the percentage remaining the same at 0%, that is, with no production in areas of water stress. This metric is used by Marfrig to assess the investment strategy in water risk mitigation projects, based on the identification and monitoring of its production units that may be located in regions of water stress. For Marfrig, the assessment of this parameter was carried out based on all operational units (cattle slaughterhouses; sheep slaughterhouses and high value-added product units). All units are monitored for water withdrawal in areas with water stress.

[Linha fixa]

(9.2.6) Que proporção das <i>commodities </i>agrícolas aprovoadas e relevantes para a sua organização tem origem em áreas de estresse hídrico?

Produtos da pecuária

(9.2.6.1) A proporção desta <i>commodity </i>aprovoadada de áreas com estresse hídrico é conhecida

Selecione de:

Sim

(9.2.6.2) Porcentagem do total de <i>commodities </i>agrícolas aprovoadadas em áreas de estresse hídrico

Selecione de:

11-25

(9.2.6.3) Explique

In 2023, only 11% of supplier farms were in water-stressed areas, equivalent to approximately 990 farms. This % is estimated from the number of supplier farms and the number of farms located in water-stressed areas. The water-stress criterion is assessed based on the classification of “high” and “very high”, according to Aqueduct’s assessment. This proportion has varied over the past years due to the calculation methodology and therefore the classification of water-stressed units has been modified from one year to the next. However, future trends predicted for these proportions are expected to be slightly higher, due to the expected increase in production. This metric is used at Marfrig to evaluate the investment strategy, within the Marfrig Verde program, aimed at suppliers located in critical regions, such as encouraging alternative sources of water collection.

[Linha fixa]

(9.2.7) Forneça os dados do total de captação de água por fonte.

Água doce de superfície, incluindo águas de chuva, brejos, rios e lagos

(9.2.7.1) Relevância

Selecione de:

Relevante

(9.2.7.2) Volume (megalitros/ano)

8904.1

(9.2.7.3) Comparação com o ano de reporte anterior

Selecione de:

Igual

(9.2.7.4) Motivo principal para a comparação com o ano de reporte anterior

Selecione de:

Aumento/redução na eficiência

(9.2.7.5) Explique

Surface water withdrawal through rivers and lakes is significant for Marfrig, accounting for 33% of the total water withdrawal. For Marfrig, the "comparison with previous reporting year" follows these classifications: Deviation +/- 5% pretty much the same; Deviation between +/- 5-15% higher/lower; Deviation +/- 15% much higher/lower. Based on direct measurements, the volume of water withdrawn through rivers and lakes by Marfrig was pretty much the same as in the previous year, totaling 8.9 million cubic meters for the period. This reflects a slight increase of 1.6% compared to 2022, a variation considered negligible due to its low deviation. This improvement is attributed to advances in water efficiency across units, including equipment replacements. All units are monitored monthly for withdrawals from this source, with volumes varying annually. Marfrig anticipates future reductions in withdrawals through initiatives exploring alternative water sources currently under study.

Água salobra de superfície/água do mar

(9.2.7.1) Relevância

Selecione de:

Não relevante

(9.2.7.5) Explique

Marfrig does not withdraw water from coastal sources in any of its units. These water sources are not pertinent to the company's operations because its operating units are generally situated inland, far from the coastlines of the countries where it operates, which makes access to seawater challenging. Additionally, using brackish water for the company's operations is currently not economically feasible.

Água subterrânea – renovável

(9.2.7.1) Relevância

Selecione de:

Não relevante

(9.2.7.5) Explique

Marfrig does not withdraw water from groundwater – renewable in any of its units. The operational units of Marfrig Global Foods that do collect water source it from underground wells, which are characterized as non-renewable groundwater sources.

Água subterrânea – não renovável

(9.2.7.1) Relevância

Selecione de:

Relevante

(9.2.7.2) Volume (megalitros/ano)

11577.15

(9.2.7.3) Comparação com o ano de reporte anterior

Selecione de:

Menor

(9.2.7.4) Motivo principal para a comparação com o ano de reporte anterior

Selecione de:

Outro, especifique :increased consumption of water from other sources

(9.2.7.5) Explique

Marfrig significantly relies on non-renewable groundwater, with deep wells contributing 43.68% of its total water withdrawal. They classify year-over-year comparisons as follows: +/- 5% is considered practically the same, +/- 5-15% as higher/lower, and deviations over +/- 15% as much higher/lower. Direct measurements show that groundwater withdrawal totaled 11.577 million cubic meters, marking a 37.3% increase compared to 2022. This reduction in groundwater consumption is due to increased usage of other water sources by Marfrig's U.S. units in Liberal, Dodge City, and North Baltimore. All units undergo monthly monitoring of groundwater withdrawals, which continue to rise annually. Nonetheless, Marfrig plans to reduce these withdrawals by exploring alternative water sources. This includes increased use of third-party water, recycled water, and potentially rainwater.

Água produzida/arrastada

(9.2.7.1) Relevância

Selecione de:

Não relevante

(9.2.7.5) Explique

Marfrig does not withdraw water from this type of source in any of its units. The company does not have any internal processes within its operations that involve water production for use within the operational limits of its units. However, Marfrig does reuse properly treated effluents for less critical purposes within its operating units, ensuring compliance with relevant environmental and health regulations.

Fontes terceirizadas

(9.2.7.1) Relevância

Selecione de:

Relevante

(9.2.7.2) Volume (megalitros/ano)

6023.28

(9.2.7.3) Comparação com o ano de reporte anterior

Selecione de:

Muito mais alto

(9.2.7.4) Motivo principal para a comparação com o ano de reporte anterior

Selecione de:

Outro, especifique :Reduction in withdrawals from other sources of capture, but an increase in water from third-party sources.

(9.2.7.5) Explique

Marfrig relies heavily on water withdrawals from third parties, accounting for 22.73% of its total water use. They classify annual comparisons as follows: a deviation of +/- 5% is practically the same, +/- 5-15% is higher/lower, and deviations over +/- 15% are much higher/lower. Direct measurements indicate a significant increase in third-party water sourced through municipal suppliers, totaling 6.023 million cubic meters, up 7322% from 2022. This increase primarily involves U.S. units that have decreased groundwater use but increased reliance on third-party water sources. All units are monitored monthly for these withdrawals, with volumes varying annually. Marfrig expects future increases in third-party water use, exploring alternative sources like greater reliance on third-party suppliers and expanded use of reclaimed water.

[Linha fixa]

(9.2.8) Forneça os dados do total de descarga de águas por destino.

Água doce de superfície

(9.2.8.1) Relevância

Selecione de:

Relevante

(9.2.8.2) Volume (megalitros/ano)

8836.22

(9.2.8.3) Comparação com o ano de reporte anterior

Selecione de:

Igual

(9.2.8.4) Motivo principal para a comparação com o ano de reporte anterior

Selecione de:

Aumento/redução na eficiência

(9.2.8.5) Explique

Water discharge into rivers, canals, and streams is critical for Marfrig, making up 36.9% of total water discharge. Marfrig categorizes year-over-year comparisons as follows: +/- 5% deviation is considered practically the same, +/- 5-15% deviation is larger/smaller, and deviation over +/- 15% is much larger/smaller. Using the Parshall flume for direct measurement, Marfrig's water discharge was nearly the same as the previous year, totaling 8.8 million cubic meters, a 1.9% increase from 2022. This minor variation is attributed to operational and seasonal factors with minimal impact on the overall discharged volume. All units are monitored monthly, with expected annual volume variations. Marfrig anticipates continuing surface water disposal, as it is the primary method for most of its operating units to release treated effluents.

Água salobra de superfície/água do mar

(9.2.8.1) Relevância

Selecione de:

Não relevante

(9.2.8.5) Explique

This source is not relevant, as no Marfrig unit discharges wastewater from this source. The effluents from the company's slaughter and processing operational units represent almost all of the effluents discharged, and are destined for surface waters and third-party disposal.

Água subterrânea

(9.2.8.1) Relevância

Selecione de:

Não relevante

(9.2.8.5) Explique

This source is not relevant, as no Marfrig unit discharges wastewater from this source. The effluents from the company's slaughter and processing operational units represent almost all of the effluents discharged, and are destined for surface waters and third-party disposal.

Destinos de terceiros

(9.2.8.1) Relevância

Selecione de:

Relevante

(9.2.8.2) Volume (megalitros/ano)

15101.55

(9.2.8.3) Comparação com o ano de reporte anterior

Selecione de:

Igual

(9.2.8.4) Motivo principal para a comparação com o ano de reporte anterior

Selecione de:

Aumento/redução na eficiência

(9.2.8.5) Explique

Marfrig relies heavily on outsourced municipal sewage treatment plants and private services for water disposal, which accounts for 63% of total water disposal. Marfrig categorizes annual comparisons as follows: deviations within +/- 5% are practically the same, +/- 5-15% are higher/lower, and deviations over +/- 15% are much higher/lower. Direct measurements using the Parshall flume show that Marfrig's water disposal volume was 15.1 million cubic meters, a decrease of 1.87% from the previous year. This minor variation is attributed to operational and seasonal factors that had minimal impact on the total discharged volume. All units undergo monthly monitoring, with annual volume variations anticipated. Marfrig expects future reductions in water disposal through third-party sources, as most Marfrig Beef units currently use this method for treated effluent disposal.

[Linha fixa]

(9.2.9) Indique, nas suas operações diretas, o(s) nível(is) mais alto(s) em que as descargas são tratadas.

Tratamento terciário

(9.2.9.1) Relevância do nível de tratamento para a descarga

Selecione de:

Relevante

(9.2.9.2) Volume (megalitros/ano)

2869.52

(9.2.9.3) Comparação do volume tratado com o do ano de reporte anterior

Selecione de:

Este é nosso primeiro ano de medição

(9.2.9.4) Motivo principal para a comparação com o ano de reporte anterior

Selecione de:

Mudança na metodologia de registro

(9.2.9.5) Porcentagem de unidades/instalações/operações a que esse volume se aplica

Selecione de:

1-10

(9.2.9.6) Explique

Water discharge that undergoes tertiary treatment is relevant to Marfrig, as it represents 12% of total water discharge. Marfrig categorizes comparisons with the previous reporting year as follows: Deviation within +/- 5% Almost the same Deviation between +/- 5-15% Higher/Lower Deviation +/- 15% Much higher/Lower Compliance and Standards: This level of treatment is applied to Marfrig's operations because the company meets several standards in its effluent management. In 2023, Marfrig's operations accounted for 18 certifications, including BRC Global Standards, Hilton Quota, McDonald's SWA and ISO 14001. In addition, Marfrig meets the regulatory requirements and other applicable regulations in each country where it operates. Measured directly by the Parshall Channel, the volume of water discharged at Marfrig was greater than in the previous year, totaling 2.89 million cubic meters in the period. This is the first year that we have reported the volume of effluent with tertiary treatment, with 2 of the 33 operational units (6%) having tertiary treatment, all of which are monitored monthly using this method, with volumes varying annually. The discharge of water that undergoes tertiary treatment is expected to decrease in the future, due to changes in Marfrig's operational processes.

Tratamento secundário

(9.2.9.1) Relevância do nível de tratamento para a descarga

Selecione de:

Relevante

(9.2.9.2) Volume (megalitros/ano)

14265.48

(9.2.9.3) Comparação do volume tratado com o do ano de reporte anterior

Selecione de:

Muito mais alto

(9.2.9.4) Motivo principal para a comparação com o ano de reporte anterior

Selecione de:

Mudança na metodologia de registro

(9.2.9.5) Porcentagem de unidades/instalações/operações a que esse volume se aplica

Selecione de:

51-60

(9.2.9.6) Explique

Water discharge that undergoes secondary treatment is relevant to Marfrig, as it represents 59.6% of total water discharge. Marfrig categorizes comparisons with the previous reporting year as follows: Deviation within +/- 5% Almost the same Deviation between +/- 5-15% Higher/Lower Deviation +/- 15% Much higher/Lower Compliance and Standards: This level of treatment is applied to Marfrig's operations because the company meets several standards in its effluent management. In 2023, Marfrig's operations accounted for 18 certifications, including BRC Global Standards, Hilton Quota, McDonald's SWA and ISO 14001. In addition, Marfrig meets the regulatory requirements and other regulations applicable in each country where it operates. Measured directly by the Parshall canal, the volume of water discharged at Marfrig was higher than in the previous year, totaling 14.2 million cubic meters in the period. This was 65% higher than the total for 2022. This increase is related to changes in the accounting of operational units in which 2 more operational units that perform secondary treatment were added to the calculations, previously reported "Discharge to a third party without treatment". 24 of the 33 operational units (72%) have secondary treatment, all of them monthly using this method, with volumes varying annually. The discharge of water that undergoes secondary treatment is expected to increase in the future, since most Marfrig Beef units use this type of final destination for treated effluents.

Apenas tratamento primário

(9.2.9.1) Relevância do nível de tratamento para a descarga

Selecione de:

Relevante

(9.2.9.2) Volume (megalitros/ano)

1357.14

(9.2.9.3) Comparação do volume tratado com o do ano de reporte anterior

Selecione de:

Muito mais alto

(9.2.9.4) Motivo principal para a comparação com o ano de reporte anterior

Selecione de:

Mudança na metodologia de registro

(9.2.9.5) Porcentagem de unidades/instalações/operações a que esse volume se aplica

Selecione de:

1-10

(9.2.9.6) Explique

The disposal of water that undergoes primary treatment is relevant for Marfrig, but represents only 5.7% of total water disposal. For this type of treatment, there was an increase in value, when compared to last year, of almost 4344%. This increase is related to the accounting of the volume of effluent discharged from the Argentina unit (Villa Mercedes) which began to be carried out in this reporting year. Measured directly by the Parshall flume, the volume of water discarded to Marfrig through this type of treatment was 1,357.14 cubic meters in the period. Only 2 of the 32 operational units perform this method and are monitored monthly. These units refer to Chile – Patagonia and Argentina - Villa Mercedes, USA – Kansas, Brazil - Itupeva where the slaughter unit only performs the primary treatment of effluents, followed by release into the collection network. Therefore, these units are accounted for separately by type of treatment from the other units. However, for accounting by destination, the value of this unit is added to all others located in third-party destinations. The expectation is that in the future the disposal of water that undergoes primary treatment will continue, as it is used as the final destination of effluents treated by only one of Marfrig Beef's units.

Descarga no meio ambiente natural sem tratamento

(9.2.9.1) Relevância do nível de tratamento para a descarga

Selecione de:

Não relevante

(9.2.9.6) Explique

This type of treatment is not relevant, as none of Marfrig's operating units dispose of their effluents into the natural environment without treatment. This revision clarifies the statement succinctly while maintaining its original intent.

Descarga em terceiros sem tratamento

(9.2.9.1) Relevância do nível de tratamento para a descarga

Selecione de:

Relevante

(9.2.9.2) Volume (megalitros/ano)

5445.64

(9.2.9.3) Comparação do volume tratado com o do ano de reporte anterior

Selecione de:

Muito mais baixo

(9.2.9.4) Motivo principal para a comparação com o ano de reporte anterior

Selecione de:

Mudança na metodologia de registro

(9.2.9.5) Porcentagem de unidades/instalações/operações a que esse volume se aplica

Selecione de:

21-30

(9.2.9.6) Explique

Water discharge to third parties by municipal wastewater treatment plants and private services (fertigation) is relevant to Marfrig, as it represents 22.7% of total water discharge. Marfrig categorizes comparisons with the previous reporting year as follows: Deviation within +/- 5% Almost the same Deviation between +/- 5-15% Higher/Lower Deviation +/- 15% Much higher/Lower This level of treatment is applied to Marfrig's operations because the company complies with several standards in its effluent management. In 2023, Marfrig's operations were certified for 18 standards, including BRC Global Standards, Hilton Quota, McDonald's SWA and ISO 14001. In addition, Marfrig adheres to the regulatory requirements and other regulations applicable in each country where it operates. Measured directly by the Parshall Canal, the volume of water discharged at Marfrig was significantly lower than in the previous year, totaling 5.44 million cubic meters in the period. This was a 65% reduction compared to 2022. This variation is related to the accounting of the volume of effluent discharged at the Dodge City and Hummels Wharf units in the United States, the latter being the operational unit included in this reporting year. Of the 33 units in operation, 2 (6.1%) have this type of treatment, all of which are continuously monitored. For the future, the expectation is to reduce the discharge of water into the collection network and expand the use of fertigation at Marfrig's operational units.

Outros

(9.2.9.1) Relevância do nível de tratamento para a descarga

Selecione de:

Não relevante

(9.2.9.6) Explique

Other types of treatment are not relevant, as none of Marfrig's operating units that dispose of their effluents receive treatments other than those listed above. This revision clarifies the statement succinctly while maintaining its original intent and meaning.

[Linha fixa]

(9.2.10) Forneça detalhes das emissões de nitratos, fosfatos, pesticidas e outras substâncias prioritárias para a água da organização no ano de reporte.

(9.2.10.1) Emissões para a água no ano de reporte (toneladas métricas)

64.57

(9.2.10.2) Categorias de substâncias incluídas

Selecione todos os aplicáveis

Fosfatos

(9.2.10.4) Explique

During the slaughter and meat processing, large amounts of water are used for washing and cooling. This includes water used to clean equipment, water used to wash animals, and water used for general maintenance of the facilities. Wash water, which contains organic waste, including blood, fat, and tissue remains, can have a high load of phosphorus and other nutrients. Even with treatment, some of these pollutants can remain. To reduce and manage pollutants, Marfrig carries out effluent treatment at all of its operational units in Brazil. The company adopts advanced treatment technologies to minimize the load of phosphorus and other contaminants in effluents. In addition, Marfrig ensures compliance with legislation and regulatory parameters, including the rules defined by CONAMA (National Environmental Council), which regulate the disposal of effluents. The company continuously monitors the discharged effluents to ensure that they are within the established limits and to identify opportunities for improvements in the treatment processes
[Linha fixa]

(9.3) Nas suas operações diretas e na cadeia de valor a montante, qual é o número de instalações onde foram identificadas dependências, impactos, riscos e oportunidades substanciais relacionados à água?

Operações diretas

(9.3.1) Identificação de instalações na etapa da cadeia de valor

Selecione de:

Sim, avaliamos esta etapa da cadeia de valor, mas não identificamos nenhuma instalação com dependências, impactos, riscos ou oportunidades relacionados à água

(9.3.2) Número total de instalações identificadas

4

(9.3.3) % de instalações em operações diretas que isso representa

Selecione de:

1-25

(9.3.4) Explique

Marfrig has several operating units in different regions where water quality and/or availability risks have been identified. The water risk analysis of the operating units' watersheds is carried out annually. In 2023, the units located in regions with these situations represented approximately 12.7% (4) of the company's units. In 2023, the only tool for mapping the risk of water stress was the Aqueduto (WRI). For Marfrig, "units" refers to all operating units (beef slaughterhouses; lamb slaughterhouses and high value-added product units). All units are monitored for exposure to water risks with the potential to cause a substantial financial or strategic impact on Marfrig's business.

Cadeia de valor <i>upstream</i>

(9.3.1) Identificação de instalações na etapa da cadeia de valor

Selecione de:

Não, avaliamos esta etapa da cadeia de valor, mas não identificamos nenhuma instalação com dependências, impactos, riscos e oportunidades relacionados à água

(9.3.4) Explique

For Marfrig, "facilities" for the supply chain are defined as the cattle supplier farm. The assessment was conducted using tools such as Aqueduct and considering criteria of significant physical and financial impact for Marfrig. In this assessment, no facilities were identified that met all the criteria (dependency, impact, risks and opportunities) with high significance.

[Linha fixa]

(9.3.1) Para cada instalação mencionada em 9.3., dê as coordenadas, os dados de contabilização da água e uma comparação com o ano de reporte anterior.

Row 1

(9.3.1.1) Número de referência da instalação

Selecione de:

Instalação 2

(9.3.1.2) Nome da instalação (opcional)

Itupeva

(9.3.1.3) Estágio da cadeia de valor

Selecione de:

Operações diretas

(9.3.1.4) Dependências, impactos, riscos e/ou oportunidades identificados nesta instalação

Selecione todos os aplicáveis

Dependências

Impactos

Riscos

Oportunidades

(9.3.1.5) Captações ou descargas no ato de reporte

Selecione de:

Sim, captações e descargas

(9.3.1.7) País/área e Bacia hidrográfica

Brasil

Outro, especifique :Bacia PCJ

(9.3.1.8) Latitude

-23.15

(9.3.1.9) Longitude

-47.045391

(9.3.1.10) Localizada em área de estresse hídrico

Selecione de:

Sim

(9.3.1.13) Total de captação de água nesta instalação (megalitros)

11.27

(9.3.1.14) Comparação da captação total com o ano de reporte anterior

Selecione de:

Igual

(9.3.1.15) Captações de água doce de superfície, incluindo as águas da chuva, brejos, rios e lagos

0

(9.3.1.16) Captação de água salobra de superfície/água do mar

0

(9.3.1.17) Captação de águas subterrâneas – renovável

0

(9.3.1.18) Captação de água subterrânea – não-renovável

11.27

(9.3.1.19) Captação de água produzida/arrastada

0

(9.3.1.20) Captação de fontes terceirizadas

0

(9.3.1.21) Total de descargas de água nesta instalação (megalitros)

5.2

(9.3.1.22) Comparação da descarga total com o ano de reporte anterior

Selecione de:

Igual

(9.3.1.23) Descargas em água doce superficial

0

(9.3.1.24) Descargas em água salobra de superfície/água do mar

0

(9.3.1.25) Descargas em águas subterrâneas

0

(9.3.1.26) Descargas em destinos terceirizados

5.2

(9.3.1.27) Consumo de água total nesta instalação (megalitros)

6.07

(9.3.1.28) Comparação do consumo total com o ano de reporte anterior

Selecione de:

Menor

(9.3.1.29) Explique

The location coordinates correspond to the "Itupeva" unit. The Aqueduct (WRI) tool was used to classify this facility as water stressed. Marfrig uses the following thresholds for "comparison with previous reporting year": +/- 5% deviation practically the same; +/- 5-15% deviation higher/lower; +/- 15% deviation much higher/lower. For the Itupeva unit, based on direct measurements: The volume of groundwater withdrawal (non-renewable) was almost the same as the previous year (-4% compared to 2021). The volumes are monitored monthly and vary annually. The observed variation in withdrawal (-2%), effluent (-4%) and consumption (-11%) is in line with increased production and ongoing water efficiency projects. The trend is expected to decrease in the future due to these efficiency projects, such as equipment replacement. A volume of zero indicates that the unit has no draw or discharge from the source specified in the question field.

Row 2

(9.3.1.1) Número de referência da instalação

Selecione de:

- Instalação 4

(9.3.1.2) Nome da instalação (opcional)

Liberal

(9.3.1.3) Estágio da cadeia de valor

Selecione de:

- Operações diretas

(9.3.1.4) Dependências, impactos, riscos e/ou oportunidades identificados nesta instalação

Selecione todos os aplicáveis

- Dependências
- Impactos
- Riscos
- Oportunidades

(9.3.1.5) Captações ou descargas no ato de reporte

Selecione de:

Sim, captações e descargas

(9.3.1.7) País/área e Bacia hidrográfica

Canadá

Rio Mississippi

(9.3.1.8) Latitude

37.05

(9.3.1.9) Longitude

-100.9

(9.3.1.10) Localizada em área de estresse hídrico

Selecione de:

Sim

(9.3.1.13) Total de captação de água nesta instalação (megalitros)

4682.9

(9.3.1.14) Comparação da captação total com o ano de reporte anterior

Selecione de:

Maior

(9.3.1.15) Captações de água doce de superfície, incluindo as águas da chuva, brejos, rios e lagos

0

(9.3.1.16) Captação de água salobra de superfície/água do mar

0

(9.3.1.17) Captação de águas subterrâneas – renovável

0

(9.3.1.18) Captação de água subterrânea – não-renovável

3745.32

(9.3.1.19) Captação de água produzida/arrastada

0

(9.3.1.20) Captação de fontes terceirizadas

937.58

(9.3.1.21) Total de descargas de água nesta instalação (megalitros)

5505.86

(9.3.1.22) Comparação da descarga total com o ano de reporte anterior

Selecione de:

Igual

(9.3.1.23) Descargas em água doce superficial

0

(9.3.1.24) Descargas em água salobra de superfície/água do mar

0

(9.3.1.25) Descargas em águas subterrâneas

(9.3.1.26) Descargas em destinos terceirizados

5505.86

(9.3.1.27) Consumo de água total nesta instalação (megalitros)

-439.37

(9.3.1.28) Comparação do consumo total com o ano de reporte anterior

Selecione de:

 Muito mais baixo**(9.3.1.29) Explique**

The location coordinates refer to the "Liberal" unit. The tool used to classify the location of the facility as water stressed was Aqueduct. Marfrig uses the following thresholds for "comparison with the previous reporting year": Deviation of +/- 5% practically the same; Deviation of +/- 5-15% higher/lower; Deviation of +/- 15% much higher/lower. For the Liberal unit, based on direct measurements: The volume of water withdrawal from other sources (water supplied by the municipality) was lower than the previous one (-12% compared to 2022). The volume of water consumed at this unit was negative, due to the non-accounting of reused water and, during the rendering processes, a significant amount of water is released, which then enters the wastewater system, part is lost through evaporation, but part is condensed and added to the effluent flow. The volumes are monitored monthly and vary annually. The observed variation in withdrawal (-12%), effluent (-2%) and consumption (-380%) is in line with the increase in production and ongoing water efficiency projects. The trend is expected to decrease in the future due to these efficiency projects, such as equipment replacement. A volume of zero indicates that the unit has no withdrawal or discharge from the source specified in the question field.

Row 3**(9.3.1.1) Número de referência da instalação**

Selecione de:

 Instalação 3**(9.3.1.2) Nome da instalação (opcional)**

Dodge City

(9.3.1.3) Estágio da cadeia de valor

Selecione de:

- Operações diretas

(9.3.1.4) Dependências, impactos, riscos e/ou oportunidades identificados nesta instalação

Selecione todos os aplicáveis

- Dependências
- Impactos
- Riscos
- Oportunidades

(9.3.1.5) Captações ou descargas no ato de reporte

Selecione de:

- Sim, captações e descargas

(9.3.1.7) País/área e Bacia hidrográfica

Canadá

- Rio Mississippi

(9.3.1.8) Latitude

37.75

(9.3.1.9) Longitude

-99.99

(9.3.1.10) Localizada em área de estresse hídrico

Selecione de:

Sim

(9.3.1.13) Total de captação de água nesta instalação (megalitros)

5821.75

(9.3.1.14) Comparação da captação total com o ano de reporte anterior

Selecione de:

Igual

(9.3.1.15) Captações de água doce de superfície, incluindo as águas da chuva, brejos, rios e lagos

0

(9.3.1.16) Captação de água salobra de superfície/água do mar

0

(9.3.1.17) Captação de águas subterrâneas – renovável

1335.2

(9.3.1.18) Captação de água subterrânea – não-renovável

0

(9.3.1.19) Captação de água produzida/arrastada

0

(9.3.1.20) Captação de fontes terceirizadas

4486.56

(9.3.1.21) Total de descargas de água nesta instalação (megalitros)

5389.42

(9.3.1.22) Comparação da descarga total com o ano de reporte anterior

Selecione de:

Menor

(9.3.1.23) Descargas em água doce superficial

0

(9.3.1.24) Descargas em água salobra de superfície/água do mar

0

(9.3.1.25) Descargas em águas subterrâneas

0

(9.3.1.26) Descargas em destinos terceirizados

5389.42

(9.3.1.27) Consumo de água total nesta instalação (megalitros)

432.34

(9.3.1.28) Comparação do consumo total com o ano de reporte anterior

Selecione de:

Muito mais alto

(9.3.1.29) Explique

The location coordinates refer to "Dodge City" unit. The tool used to classify the location of the facility as water stressed was Aqueduct Marfrig uses the following limits for "comparison with the previous reporting year": Deviation of +/- 5% practically the same; Deviation of +/- 5-15% higher/lower; Deviation of +/- 15% much

higher/lower. For the Dodge City unit, based on direct measurements: The volume of withdrawal from non-renewable groundwater was much lower than the previous year (-75% compared to 2022). On the other hand, the volume of water withdrawn from other sources (water obtained by the municipality) was much higher. This increase is related to the reduction in groundwater withdrawal. The volumes are monitored monthly and vary annually. The observed variation in withdrawal (-1%), effluent (-8%) and consumption (1899%) is in line with the increase in production and ongoing water efficiency projects. The trend is expected to decrease in the future due to these efficiency projects, such as equipment replacement. A volume of zero indicates that the unit has no withdrawal or discharge from the source specified in the question field.

Row 4

(9.3.1.1) Número de referência da instalação

Selecione de:

- Instalação 1

(9.3.1.2) Nome da instalação (opcional)

Villa Mercedes

(9.3.1.3) Estágio da cadeia de valor

Selecione de:

- Operações diretas

(9.3.1.4) Dependências, impactos, riscos e/ou oportunidades identificados nesta instalação

Selecione todos os aplicáveis

- Dependências
- Impactos
- Riscos
- Oportunidades

(9.3.1.5) Captações ou descargas no ato de reporte

Selecione de:

- Sim, captações e descargas

(9.3.1.7) País/área e Bacia hidrográfica

Afeganistão

Outro, especifique :Quinto

(9.3.1.8) Latitude

-33.692425

(9.3.1.9) Longitude

-65.455875

(9.3.1.10) Localizada em área de estresse hídrico

Selecione de:

Sim

(9.3.1.13) Total de captação de água nesta instalação (megalitros)

429.06

(9.3.1.14) Comparação da captação total com o ano de reporte anterior

Selecione de:

Maior

(9.3.1.15) Captações de água doce de superfície, incluindo as águas da chuva, brejos, rios e lagos

0

(9.3.1.16) Captação de água salobra de superfície/água do mar

0

(9.3.1.17) Captação de águas subterrâneas – renovável

0

(9.3.1.18) Captação de água subterrânea – não-renovável

429.06

(9.3.1.19) Captação de água produzida/arrastada

0

(9.3.1.20) Captação de fontes terceirizadas

0

(9.3.1.21) Total de descargas de água nesta instalação (megalitros)

320.02

(9.3.1.22) Comparação da descarga total com o ano de reporte anterior

Selecione de:

Menor

(9.3.1.23) Descargas em água doce superficial

0

(9.3.1.24) Descargas em água salobra de superfície/água do mar

0

(9.3.1.25) Descargas em águas subterrâneas

0

(9.3.1.26) Descargas em destinos terceirizados

320.02

(9.3.1.27) Consumo de água total nesta instalação (megalitros)

109.03

(9.3.1.28) Comparação do consumo total com o ano de reporte anterior

Selecione de:

Muito mais baixo

(9.3.1.29) Explique

The location coordinates correspond to the "Villa Mercedes" unit. The Aqeduct (WRI) tool was used to classify this facility as water stressed. Marfrig uses the following thresholds for "comparison with previous reporting year": +/- 5% deviation practically the same; +/- 5-15% deviation higher/lower; +/- 15% deviation much higher/lower. For the Villa Mercedes unit, based on direct measurements: The volume of groundwater withdrawal (non-renewable) was lower than the previous year (-14% compared to 2022). The volumes are monitored monthly and vary annually. The observed variation in withdrawal (-14%), effluent (-8%) and consumption (-26%) is in line with increased production and ongoing water efficiency projects. The trend is expected to decrease in the future due to these efficiency projects, such as equipment replacement. A volume of zero indicates that the unit has no draw or discharge from the source specified in the question field.

[Adicionar linha]

(9.3.2) Para as instalações nas suas operações diretas mencionadas em 9.3.1, que proporção dos dados de contabilização da água foi verificada por terceiros?

Captação de água – volume total

(9.3.2.1) Porcentagem verificada

Selecione de:

76-100

(9.3.2.2) Norma de verificação utilizada

Marfrig holds all the necessary environmental licenses for its operations and submits regular reports on water withdrawal and effluent discharge to local environmental and regulatory agencies. These agencies conduct periodic inspections of Marfrig's facilities, reviewing water withdrawal volumes by source, effluent discharge volumes, effluent parameters, and other related information. Additionally, Marfrig publishes consolidated data on water consumption by source and water reuse rates in its Sustainability Report.

Captação de água – volume por fonte

(9.3.2.1) Porcentagem verificada

Selecione de:

76-100

(9.3.2.2) Norma de verificação utilizada

Marfrig holds all the necessary environmental licenses for its operations and regularly reports water withdrawal and effluent discharge data to local environmental and regulatory agencies responsible for water resource management. Local agencies conduct periodic inspections of Marfrig's facilities, reviewing water withdrawal volumes by source, effluent discharge volumes, effluent parameters, and other relevant details. Additionally, Marfrig publishes consolidated information on water consumption by source and water reuse rates in its Sustainability Report.

Captação de água – qualidade por parâmetro padrão de qualidade da água

(9.3.2.1) Porcentagem verificada

Selecione de:

76-100

(9.3.2.2) Norma de verificação utilizada

Marfrig holds all the necessary environmental licenses for its operations and submits periodic reports on water withdrawal and effluent discharge to local environmental and regulatory agencies responsible for water resource management. Local agencies conduct regular inspections of Marfrig's operational units, reviewing water withdrawal volumes by source, effluent discharge volumes, effluent parameters, and other relevant data. Furthermore, all Marfrig units are equipped with Water Treatment Stations, and 100% of them undergo internal audits.

Descarga de água – volume total

(9.3.2.1) Porcentagem verificada

Selecione de:

76-100

(9.3.2.2) Norma de verificação utilizada

Marfrig holds all the necessary environmental licenses for its operations and regularly submits reports on water withdrawal and effluent discharge data to local environmental and regulatory agencies. These agencies conduct periodic inspections of Marfrig's operational units, reviewing volumes of water withdrawal by source, effluent discharge volumes, effluent parameters, and other relevant data. In Brazil, 58% of Marfrig's plants are ISO 14.001 certified, which ensures compliance with the Environmental Management System requirements set by the Brazilian Association of Technical Standards (ABNT). Consequently, the management of effluents—including generation, volumes, discharge standards, and other legal requirements—is verified annually through external audits.

Descarga de água – volume por destino

(9.3.2.1) Porcentagem verificada

Selecione de:

76-100

(9.3.2.2) Norma de verificação utilizada

Marfrig holds all necessary environmental licenses for its operations and submits periodic reports on water withdrawal and effluent discharge to local environmental and regulatory agencies overseeing water resource management. These agencies conduct regular inspections of Marfrig's operational units, monitoring water withdrawal volumes by source, effluent discharge volumes, effluent parameters, and other related data. In Brazil, 58% of Marfrig's plants are ISO 14001 certified, demonstrating compliance with the Environmental Management System standards set by the Brazilian Association of Technical Standards (ABNT). Consequently, the management of effluents—including their generation, volumes, discharge standards, and legal compliance—is subject to annual external audits.

Descargas de água – volume por nível de tratamento final

(9.3.2.1) Porcentagem verificada

Selecione de:

76-100

(9.3.2.2) Norma de verificação utilizada

Marfrig holds all necessary environmental licenses for its operations and submits regular reports on water withdrawal and effluent discharge to local environmental and regulatory agencies. These agencies conduct inspections of Marfrig's operational units, monitoring water withdrawal volumes, effluent discharge volumes, and effluent parameters, among other relevant data. In Brazil, 58% of Marfrig's plants are ISO 14001 certified. This certification is awarded to companies that implement an Environmental Management System in line with the Brazilian Association of Technical Standards (ABNT). Consequently, effluent management—including generation, volumes, discharge standards, and compliance with legal requirements—is subject to annual external audits.

Descargas de água – qualidade por parâmetros de qualidade da água padrão

(9.3.2.1) Porcentagem verificada

Selecione de:

76-100

(9.3.2.2) Norma de verificação utilizada

Marfrig holds all required environmental licenses for its operations and regularly reports on water withdrawal and effluent discharge to local environmental and regulatory agencies. These agencies conduct periodic inspections of Marfrig's operational units, verifying water withdrawal volumes, effluent discharge volumes, and parameters. In Brazil, 58% of Marfrig's plants are ISO 14001 certified, a standard that ensures companies have an Environmental Management System in place, according to the Brazilian Association of Technical Standards (ABNT). Consequently, effluent management—including generation, volumes, discharge standards, and legal compliance—is annually verified by external audits.

Consumo de água – volume total

(9.3.2.1) Porcentagem verificada

Selecione de:

76-100

(9.3.2.2) Norma de verificação utilizada

Marfrig holds all necessary environmental licenses for its operations and regularly submits reports on water withdrawal and effluent discharge to local environmental and regulatory agencies. These agencies conduct periodic inspections of Marfrig's operational units, verifying details such as water withdrawal volumes by source, effluent discharge volumes, and effluent parameters.

[Linha fixa]

(9.4) Alguma das instalações indicadas em 9.3.1 pode exercer impacto para um membro solicitante do programa Supply Chain do CDP?

Selecione de:

Sim, os membros do programa cadeia de fornecimento do CDP adquirem bens e serviços das instalações indicadas em 9.3.1

(9.4.1) Indique quais instalações mencionadas em 9.3.1 podem causar impactos para um membro solicitante do programa Supply Chain do CDP.

Row 1

(9.4.1.1) Número de referência da instalação

Selecione de:

Instalação 2

(9.4.1.2) Nome da instalação

Itupeva

(9.4.1.3) Membro solicitante

Selecione de:

(9.4.1.4) Descrição do potencial impacto para o membro

The lack of water at Marfrig's Itupeva processed food unit could have a direct impact on production and, consequently, on supply to Arcos Dourados. Since production at the unit is critically dependent on water for its industrial processes, a water shortage could disrupt operations. This impact could result in delays or even temporary shutdowns of production, affecting the regularity and quantity of products supplied to Arcos Dourados. Therefore, effective management of water resources at the Itupeva unit is crucial to ensure continuity of supply and avoid potential disruptions in the supply chain.

(9.4.1.5) Explique

*The facility involved includes only the Itupeva processing unit
[Adicionar linha]*

(9.5) Dê um valor para a eficiência na captação total de água da organização.

(9.5.1) Receita (moeda)

136485000000

(9.5.2) Eficiência total na captação de água

5149495.14

(9.5.3) Tendência futura prevista

The future trend is for water efficiency to be greater in the coming years, even with the projection of an increase in revenue and a possible increase in the total volume of water abstraction (it is estimated that up to 5%), this is because Marfrig adopts several measures to reduce water consumption at the units, such as flow reduction and automation equipment, among others, in addition to a training schedule for its employees

[Linha fixa]

(9.8) Apresente informações de intensidade hídrica para cada commodity agrícola importante produzida pela organização.

Produtos da pecuária

(9.8.1) São coletadas/calculadas informações sobre a intensidade hídrica desta commodity produzida

Selecione de:

Sim

(9.8.2) Valor da intensidade hídrica (m³/denominador)

7.7

(9.8.3) Numerador: aspecto hídrico

Selecione de:

Captações de água doce

(9.8.4) Denominador

Selecione de:

Toneladas métricas

(9.8.5) Comparação com o ano de reporte anterior

Selecione de:

Igual

(9.8.6) Explique

For the agricultural commodity 'livestock', the water intensity value was calculated using the ratio: total water abstraction / Total IR production (tons). The comparison with the previous reporting year was considered equal, with a difference of only 0.03 m³/ton. There was no significant change in the reporting year compared to the previous year due to the small variation in the denominator (production in tons), which increased by only 2.9% from 2022 (3,558,984.32 tons) to 2023 (3,442,000 tons). This minimal variation resulted in a classification of 'about the same' between the years. Marfrig assesses this metric to measure and monitor water consumption relative to production tonnage. This monitoring is crucial for evaluating the organization's performance in water management and for making informed decisions regarding water risk management and operational efficiency. Marfrig's future strategy aims to reduce its water intensity by decreasing the volume of water consumed per ton produced. Specifically, the company plans to: Reduce the volume of water abstraction (numerator); Increase production tonnage (denominator). Aligned with this strategy, Marfrig set a target in 2020 to achieve a 20% reduction in water consumption per ton of products by 2035. In 2023, several actions and measures were implemented to progress towards this goal. These included financial incentives linking water consumption reduction goals to variable remuneration for unit managers and directors, adoption of efficient water-use equipment such as flow and automation reducers, and training teams on water management practices. [Linha fixa]

(9.9) Apresente informações de intensidade hídrica para cada <i>commodity </i>agrícola importante adquirida pela organização.

Produtos da pecuária

(9.9.1) São coletadas/calculadas informações sobre a intensidade hídrica desta <i>commodity</i> provisionada

Selecione de:

Sim

(9.9.2) Valor da intensidade hídrica (m3/denominador)

45.3

(9.9.3) Numerador: Aspecto hídrico

Selecione de:

Captações de água doce

(9.9.4) Denominador

Selecione de:

Outro, especifique :Number of steers purchased,

(9.9.5) Comparação com o ano de reporte anterior

Selecione de:

Este é nosso primeiro ano de medição

(9.9.6) Explique

*Data on water intensity from the commodity acquired by Marfrig have not been calculated. However, Marfrig plans to monitor this indicator in the coming years.
[Adicionar linha]*

(9.12) Dê eventuais valores de intensidade hídrica disponíveis para os produtos ou serviços da organização.

Row 1

(9.12.1) Nome do produto

Cattle Meat

(9.12.2) Valor da intensidade hídrica

7.7

(9.12.3) Numerador: Aspecto hídrico

Selecione de:

Consumo de água

(9.12.4) Denominador

m³ / tons of products produced

(9.12.5) Explique

Represents the company's water withdrawal rate and is the monitoring KPI (m³ of water withdrawal / tons of products produced). This indicator evaluates all countries in which Marfrig operates. The data is collected monthly through the ARCA platform and consolidated (sum of water withdrawal in the year). The chosen denominator (tons of production) is the ideal denominator for this calculation, since production depends on water, in this case, variations in the increase or decrease in production will impact the value of water withdrawal. The company monitors this indicator monthly and develops water efficiency projects, aiming at reducing water withdrawal, as well as diversifying water sources, including water reuse.

[Adicionar linha]

(9.13) Algum dos produtos da organização contém substâncias classificadas como de risco por alguma autoridade regulatória?

(9.13.1) Os produtos contêm substâncias de risco

Selecione de:

Não

(9.13.2) Explique

None of Marfrig's products have compounds exhibiting intrinsically negative properties such as being persistent, bioaccumulative and toxic (PBT), very persistent and very bioaccumulative (vPvB), carcinogenic, mutagenic and toxic for reproduction (CMR), or endocrine disruptors (ED). To guarantee this, Marfrig is inspected by health authorities and international certification organizations. Under this routine of third-party audits, the company achieved 100% of the maximum result (Grade AA) in the audits performed by the BRCGS (Brand Reputation Compliance Global Standard), a global benchmark regarding food safety. As a result of the good practices it's has adopted on this front, no market bans related to food safety issues were recorded within it's global operations in 2023. In addition, Marfrig has own laboratories, accredited under ISO 17.025, for the evaluation of products. And, it also follows the guideline Integrated Management System (IMS), related to food quality and safety.

[Linha fixa]

(9.14) A organização classifica algum dos seus produtos e/ou serviços atuais como de baixo impacto hídrico?

(9.14.1) Produtos e/ou serviços classificados como de baixo impacto hídrico

Selecione de:

Sim

(9.14.2) Definição utilizada para classificar o baixo impacto hídrico

Marfrig understands that low water impact products/services are those in which their production or execution involves low water consumption, effluent reduction and water efficiency. As examples, the company has: Marfrig Club - Development of a protocol containing actions for Marfrig's suppliers, which contains guidelines on good practices for water use and effluent treatment, protection of springs and care to avoid contamination, by the generated wastewater, in homes, stables and other installations. Suppliers can also find effluent treatment information in the sustainability tab on the Marfrig website. Organic meat - The characteristic of this production front is that the company does not use herbicides, synthetic fertilizers and antibiotics, nor hormones as growth stimulants. The application of sanitary products is only for treatments, and in a non-preventive way, and it is forbidden to feed animals with genetically modified products. In 2022, the company registered reported new sales records, a reflection of the expansion of this program in 2021. In the same year, an organic equivalence agreement was signed between the United States and Canada (USCOEA), and beef starts being shipped to Brazil for the production of organic corned beef, which is then forwarded to the United States. In addition to including new producers, the company added a group of ranchers who already had organic certification. With this, Marfrig will be able to further expand this type of production, which is a global reference. Fertigation - Instead of discarding water after using it in production processes, the company uses the treated effluent to irrigate productive areas on farms close to it's plants. By capturing organic matter and nutrients throughout the industrial process, it offers plantations, soil and cultivation improvement, even reducing fertilization with conventional fertilizers. In Brazil, for example, the units in Tangará da Serra (MT) and Bataguassu (MS) carry out fertigation, directing the effluent, after treatment, to be used as fertilizer in plantations and pastures. The criteria specified in each of these three practices adopted by Marfrig are used to classify its products/services as low water impact. At the Marfrig Club and for Organic Beef, the criteria are applied in the acquisition of raw materials, as these are programs aimed at the company's suppliers. For these programs, the water aspects considered are quality and quantity of the water. As for the practice of Fertirrigation, the criteria are applied after the productive activity, more specifically in the disposal of residual water inherent to the process. For this practice, the water aspects considered are the quantity and quality of the discharged effluent.

(9.14.4) Explique

Marfrig club is a program focused on sustainability on several fronts, one of which is encouraging water management practices to reduce the water impact on the supply chain. Organic meat is the production of meat without the presence of herbicides, synthetic fertilizers and antibiotics, nor hormones as growth stimulants. And, which has a group of certified producers, which ensures compliance with the standards. Producers are audited by an external certifier and by internal controls carried out by a team of specialized technicians. Thus, the products can be characterized with low water impact, since there is no contamination of the water table by herbicides, fertilizers or hormones. Fertigation is a water reuse service in productive areas and, therefore, has a low water impact.

[Linha fixa]

(9.15) A organização tem metas relacionadas à água?

Selecione de:

Sim

(9.15.1) Indique se a organização tem metas relacionadas à poluição da água, à captação de água, aos serviços de WASH ou a outras categorias relacionadas à água.

| | Meta definida nesta categoria | Explique |
|---|---|--|
| Poluição da água | Selecione de: <input checked="" type="checkbox"/> Sim | Entrada de texto rico [deve estar abaixo de 1000 caracteres] |
| Captação de água | Selecione de: <input checked="" type="checkbox"/> Sim | Entrada de texto rico [deve estar abaixo de 1000 caracteres] |
| Serviços de água, saneamento e higiene (WASH) | Selecione de: <input checked="" type="checkbox"/> Sim | Entrada de texto rico [deve estar abaixo de 1000 caracteres] |
| Outros | Selecione de: <input checked="" type="checkbox"/> Não, e não planejamos fazê-lo nos próximos dois anos | <i>Marfrig does not foresee the establishment of any other targets related to water at the moment.</i> |

[Linha fixa]

(9.15.2) Forneça detalhes sobre suas metas relacionadas à água e o progresso alcançado.

Row 1

(9.15.2.1) Número de referência da meta

Selecione de:

Meta 3

(9.15.2.2) Abrangência da meta

Selecione de:

País/área/região

(9.15.2.3) Categoria da meta e Métrica quantitativa

Serviços de água, saneamento e higiene (WASH)

Outros WASH (água, saneamento e higiene), especifique :% of water reused in operations

(9.15.2.4) Data em que a meta foi definida

12/31/2023

(9.15.2.5) Data de término do ano-base

12/31/2023

(9.15.2.6) Valor no ano-base

4

(9.15.2.7) Data de término do ano-alvo

(9.15.2.8) Valor no ano final

5

(9.15.2.9) Valor no ano de reporte

4

(9.15.2.10) Status da meta no ano de reporte

Selecione de:

Nova

(9.15.2.11) Porcentagem da meta alcançada com relação ao ano-base

0

(9.15.2.12) Tratados/iniciativas/quadros ambientais globais alinhados com essas metas ou suportados por ela

Selecione todos os aplicáveis

Objetivos do Desenvolvimento Sustentável 6

(9.15.2.13) Explique a abrangência da meta e identifique eventuais exclusões

The target on % of reused water is applied to all Latin American countries (Argentina, Brazil, Uruguay and Chile), excluding North America (USA)

(9.15.2.14) Plano para alcançar a meta e progresso realizado até o fim do ano de reporte

Marfrig has a KPI project that continuously monitors its goals, including public goals. The company monitors the results quarterly and annually, following the linear trend to guide the necessary actions. This includes the target of % of reused water in Marfrig's operations in South America. The target was redefined and 2023 was set as the base year in which the result was 4%. Marfrig intends to increase the % of reused water in operations to reach 5% by 2030, using 2023 as the baseline. In 2023, actions included developing projects to reuse this resource where water quality is not critical. Investments in water and effluent management infrastructure increased 10.87% in CAPEX from 2022 to 2023, and water reuse projects were developed in regions with non-critical water quality.

(9.15.2.16) Outros detalhes da meta

The target of % of reused water is essential for water management, as it diversifies sources, ensuring a continuous supply of water for toilets even during periods of water scarcity. The target is 5% of recycled water for Marfrig's operations in South America, with the final result calculated as an average for all countries in South America. This objective is aligned with the strategy of reducing environmental impact and mitigating risks associated with water scarcity. The result of 4% in 2023 is the reference year for Marfrig to monitor progress annually. The result for 2023 is already the impact of the actions that Marfrig has taken to encourage operational units to expand the treatment and use of recycled water, mainly in toilets. The initiatives include investments in treatment infrastructure and increasing water reuse capacity. The methodology for defining the target involved calculating the total volume of recycled water produced in each country and dividing it by the total volume of water used.

Row 2

(9.15.2.1) Número de referência da meta

Selecione de:

Meta 1

(9.15.2.2) Abrangência da meta

Selecione de:

Na organização como um todo (somente nas operações diretas)

(9.15.2.3) Categoria da meta e Métrica quantitativa

Captação de água

Redução nas captações por unidade de produção

(9.15.2.4) Data em que a meta foi definida

12/31/2020

(9.15.2.5) Data de término do ano-base

12/31/2020

(9.15.2.6) Valor no ano-base

7.85

(9.15.2.7) Data de término do ano-alvo

12/31/2035

(9.15.2.8) Valor no ano final

6.27

(9.15.2.9) Valor no ano de reporte

7.7

(9.15.2.10) Status da meta no ano de reporte

Selecione de:

Em andamento

(9.15.2.11) Porcentagem da meta alcançada com relação ao ano-base

9

(9.15.2.12) Tratados/iniciativas/quadros ambientais globais alinhados com essas metas ou suportados por ela

Selecione todos os aplicáveis

Objetivos do Desenvolvimento Sustentável 6

(9.15.2.13) Explique a abrangência da meta e identifique eventuais exclusões

This target includes all of Marfrig's slaughter and processing units across all countries—Argentina, Uruguay, Chile, Brazil, and the United States—totaling 33 units

(9.15.2.14) Plano para alcançar a meta e progresso realizado até o fim do ano de reporte

Marfrig has a KPI project that continuously monitors its targets, including public goals. The company tracks results quarterly and annually, following the linear trend to guide necessary actions. This includes the water consumption intensity target. By 2023, 9.49% of the target had been achieved compared to the base year. The target remained unchanged. The expected range for the period was 1% less, due to an increase in water abstraction, indicating that additional efforts will be needed to meet the target Marfrig aims to reduce water consumption by 20% by 2035, using 2020 as the baseline. In 2023, actions included adopting flow-reducing equipment, automation systems, employee training on efficient water use, and promoting best practices through the Marfrig Club. Investments in water and effluent management infrastructure increased by 10.87% in CAPEX from 2022 to 2023, and water reuse projects were developed in regions with non-critical water quality.

(9.15.2.16) Outros detalhes da meta

The metric used to track this target is total water withdrawal (m^3) divided by total tons produced (tons), resulting in m^3/ton . The target applies to all of Marfrig's operating units, encompassing direct operations (i.e., it covers the entire company as defined by the reporting boundary). Currently, the water intensity target does not extend to the supply chain, as initial efforts are required before establishing a public target. In this regard, there is an ongoing goal (base year 2020 and target year 2030) to have 100% of direct suppliers within the Marfrig Club. This goal aims to engage suppliers to improve their water governance. The target is to reduce water consumption intensity by 20%. The motivations for this target are: 1. To reduce environmental impact. Water intensity targets can help protect natural ecosystems by ensuring that human water demand does not compromise their health and adequate supply; and 2. To realize significant economic benefits. By setting water intensity targets, Marfrig can identify opportunities to optimize processes, reduce water consumption, and consequently lower operating costs.

Row 3

(9.15.2.1) Número de referência da meta

Selecione de:

Meta 2

(9.15.2.2) Abrangência da meta

Selecione de:

País/área/região

(9.15.2.3) Categoria da meta e Métrica quantitativa

Poluição da água

Redução na concentração de poluentes

(9.15.2.4) Data em que a meta foi definida

12/31/2022

(9.15.2.5) Data de término do ano-base

12/31/2022

(9.15.2.6) Valor no ano-base

9.8

(9.15.2.7) Data de término do ano-alvo

12/31/2025

(9.15.2.8) Valor no ano final

10.0

(9.15.2.9) Valor no ano de reporte

9.85

(9.15.2.10) Status da meta no ano de reporte

Selecione de:

Em andamento

(9.15.2.11) Porcentagem da meta alcançada com relação ao ano-base

25

(9.15.2.12) Tratados/iniciativas/quadros ambientais globais alinhados com essas metas ou suportados por ela

Selecione todos os aplicáveis

Objetivos do Desenvolvimento Sustentável 6

(9.15.2.13) Explique a abrangência da meta e identifique eventuais exclusões

The target covers all of Marfrig's operating units in South America - direct operations, not including north america. At the moment, the WTQI target is not applied to the supply chain, because initial efforts need to be made before adopting a public target

(9.15.2.14) Plano para alcançar a meta e progresso realizado até o fim do ano de reporte

The goal is to achieve a score of 10 on the Effluent Treatment Quality Index (EQTI) for all operating units by 2025. This index is based on the BOD parameter of treated effluent, ensuring compliance with both internal standards and local legislation. By 2023, 25% progress had been made toward this goal. To drive progress in 2023 and meet the 2025 target, Marfrig implemented several initiatives: all operating units are equipped with Effluent Treatment Plants (ETEs) for physical, chemical, and biological treatment of effluents before discharge. Additionally, an online monitoring system was established to track effluent discharge in real-time, enhancing the ability to identify and address potential issues proactively. Marfrig's KPI project continuously tracks its goals, including the EQTI, with quarterly and annual reviews to guide necessary actions based on linear trend analysis.

(9.15.2.16) Outros detalhes da meta

In 2023, Marfrig achieved 25% progress towards its target Effluent Treatment Quality Index (EQTI). This progress exceeded expectations due to investments made to improve the efficiency of effluent treatment at operating units. The progress made is in line with initial planning. This goal is essential for Marfrig in managing its water facilities and risks, ensuring compliance with internal standards and local legislation for effluent disposal. By improving the quality of treated effluents, Marfrig mitigates environmental risks and reduces the water impact of its operations. The unit of the metric used to track this target is the Biochemical Oxygen Demand (BOD) in mg/L. Effluent Treatment Quality Index (ETQI) is an index specific to Marfrig's operations, which is measured through the comparison between the BOD of the final effluent, on a scale from 0 to 10. The target was defined based on internal quality standards and local legal requirements

[Adicionar linha]

C10. Desempenho ambiental – Plásticos

(10.1) A organização tem metas relacionadas ao plástico? Em caso positivo, de que tipo?

(10.1.1) Metas em vigor

Selecione de:

Sim

(10.1.2) Tipo e métrica da meta

Gestão do fim da vida útil

- Aumentar a proporção de lixo plástico reciclável que coletamos, triamos e reciclamos
- Reduzir a proporção de resíduos plásticos enviados para aterros e/ou incinerados

(10.1.3) Explique

Marfrig has set a target of "Percentage of waste sent to landfill" as part of its sustainability KPIs project, aiming to reduce the amount of waste disposed of in landfills and increase the recycling rate. The motivation for this target is to promote environmental management practices that minimize the impact of the company's operations on the environment. Reducing waste sent to landfills contributes to the conservation of natural resources, the reduction of pollution and the advancement of the circular economy, where recyclable materials are reused instead of discarded. The timeline for achieving this target is set for the year 2030. The target amount is currently under review. To achieve this target, the company is implementing specific actions, such as improving recycling processes and promoting waste reduction practices in all its operations in Latin America. In addition, the units sort the materials, separating them into different classifications so that they can be reused, recycled or recovered, according to the characteristics, legal requirements and demands of the environmental agencies of each country; Employees participate in periodic training on the subject and are continually instructed to dispose of the material correctly in their work routines. Marfrig's goal of reducing the percentage of waste sent to landfills and increasing recycling is aligned with UN Sustainable Development Goal 12, which aims to ensure sustainable production and consumption patterns. By reducing the amount of waste and promoting recycling, the company contributes to the efficient management of natural resources and the minimization of environmental impacts. Adherence to practices such as sorting, recycling and reverse logistics reinforces its commitment to waste reduction and sustainable development, directly aligning with the principles of SDG 12.

[Linha fixa]

(10.2) Indique se a organização se engaja nas seguintes atividades.

Produção/comercialização de polímeros plásticos (incluindo conversores de plástico)

(10.2.1) A atividade se aplica

Selecione de:

Não

(10.2.2) Explique

Marfrig does not carry out this type of activity in its operations for plastics.

Produção/comercialização de produtos duráveis e/ou componentes plásticos (incluindo materiais mistos)

(10.2.1) A atividade se aplica

Selecione de:

Não

(10.2.2) Explique

Marfrig does not carry out this type of activity in its operations for plastics.

Utilização de bens e/ou componentes de plásticos duráveis (incluindo materiais mistos)

(10.2.1) A atividade se aplica

Selecione de:

Não

(10.2.2) Explique

Marfrig does not carry out this type of activity in its operations for plastics.

Produção/comercialização de embalagens plásticas

(10.2.1) A atividade se aplica

Selecione de:

Não

(10.2.2) Explique

Marfrig does not carry out this type of activity in its operations for plastics.

Produção/comercialização de bens/produtos embalados em plástico

(10.2.1) A atividade se aplica

Selecione de:

Sim

(10.2.2) Explique

Marfrig, as a global leader in the production of hamburgers, sells its productive goods in plastic packaging. The company's sales are for wholesale, retail and fast food and in all of them, packaging is present. However, for some customers, Marfrig already adopts packaging reduction practices. Thus, the product reaches the consumer ready for consumption and with the least amount of packaging possible, generating a reduction in water (both for manufacturing the packaging and utensils that would be used to prepare the food) and waste.

Fornecimento/comercialização serviços que usam embalagens plásticas (por ex. serviços alimentares)

(10.2.1) A atividade se aplica

Selecione de:

Não

(10.2.2) Explique

Marfrig does not carry out this type of activity in its operations for plastics.

Prestação de serviços de gestão de resíduos e/ou gestão da água

(10.2.1) A atividade se aplica

Selecione de:

Não

(10.2.2) Explique

Marfrig does not carry out this type of activity in its operations for plastics.

Fornecimento de produtos e/ou serviços financeiros para atividades relacionadas com plásticos

(10.2.1) A atividade se aplica

Selecione de:

Não

(10.2.2) Explique

Marfrig does not carry out this type of activity in its operations for plastics.

Outras atividades não especificadas

(10.2.1) A atividade se aplica

Selecione de:

Não

(10.2.2) Explique

Marfrig does not carry out this type of activity in its operations for plastics.

[Linha fixa]

(10.5) Indique o peso total de embalagens plásticas vendidas e/ou utilizadas e indique o conteúdo das matérias-primas.

Embalagens plásticas utilizadas

(10.5.1) Peso total durante o ano de reporte (toneladas métricas)

4546

(10.5.2) Porcentagens dos conteúdos de matérias-primas disponíveis para o reporte

Selecione todos os aplicáveis

Porcentagem de conteúdo virgem de base fóssil

(10.5.3) Porcentagem de conteúdo virgem de base fóssil

100

(10.5.7) Explique

The percentage virgin fossil-based content was determined by calculation of the content of the packaging of products sold in Brazil, as detailed below: - PVDC (polyvinylidene chloride): 44% - PP (polypropylene): 41% - PVC (polyvinyl chloride): 13% - LDPE (low density polyethylene): 1% - HDPE (high density polyethylene): 1% At the moment, this data does not yet go through any third party verification. The percentage may change due to the possible inclusion of other operating units beyond the limits of Brazil.

[Linha fixa]

(10.5.1) Indique o potencial de circularidade das embalagens plásticas vendidas e/ou utilizadas pela organização.

Embalagens plásticas utilizadas

(10.5.1.1) Porcentagens disponíveis para o reporte do potencial de circularidade

Selecione todos os aplicáveis

Porcentagem reutilizável

(10.5.1.2) Porcentagem de embalagens plásticas reutilizáveis

24

(10.5.1.5) Explique

Recyclability was evaluated based on the reverse logistics of waste. The percentage of plastic packaging that is reusable was determined by estimation. At the moment, this data does not yet go through any third party verification. The percentages may change due to the better robustness of the analyzes that will be conducted in the future

[Linha fixa]

C11. Desempenho ambiental – Biodiversidade

(11.2) Quais ações a organização adotou no ano de reporte para progredir com seus compromissos relacionados à biodiversidade?

(11.2.1) Ações tomadas no período de reporte para progredir com seus compromissos relacionados à biodiversidade

Selecione de:

Sim, estamos adotando ações para progredir com nossos compromissos relacionados à biodiversidade

(11.2.2) Tipo de ação adotada para o progresso dos compromissos relacionados à biodiversidade

Selecione todos os aplicáveis

Leis e política

Incentivos econômicos, de subsistência e outros

Gestão do solo/água

Gestão das espécies

Proteção do solo/água

Educação e conscientização

[Linha fixa]

(11.3) A organização usa indicadores de biodiversidade para monitorar o desempenho em suas atividades?

| | A organização usa indicadores para monitorar o desempenho em biodiversidade? | Indicadores utilizados para monitorar o desempenho em biodiversidade |
|--|--|--|
| | Selecione de: | Selecione todos os aplicáveis |

| | A organização usa indicadores para monitorar o desempenho em biodiversidade? | Indicadores utilizados para monitorar o desempenho em biodiversidade |
|--|--|---|
| | <input checked="" type="checkbox"/> Sim, utilizamos indicadores | <input checked="" type="checkbox"/> Indicadores de pressão <input checked="" type="checkbox"/> Indicadores de resposta |

[Linha fixa]

(11.4) A organização vem realizando atividades dentro ou próximas a áreas importantes para a biodiversidade no ano de reporte?

Áreas legalmente protegidas

(11.4.1) Indique se alguma das atividades da organização é realizada dentro ou próximas deste tipo de área importante para a biodiversidade

Selecione de:

Não

(11.4.2) Explique

Marfrig undertakes not to acquire animals originating from: Conservation Units, Indigenous Territory, Quilombola Territory, Environmental Protection Areas and areas embargoed by Ibama.

Sítios do Patrimônio Mundial da UNESCO

(11.4.1) Indique se alguma das atividades da organização é realizada dentro ou próximas deste tipo de área importante para a biodiversidade

Selecione de:

Não

(11.4.2) Explique

We carried out geospatial monitoring and completed the Socio-Environmental Risk Mitigation Map, a tool that allowed us to identify and prioritize actions in regions most susceptible to socio-environmental risks in Brazilian biomes, such as the Amazon and the Cerrado. This strategy based on risk zones made it possible to initiate an engagement and monitoring process. We started by working with suppliers located in very high risk areas and gradually moved towards very low risk areas. The progressive approach allowed us to act strategically, involving suppliers in our efforts to achieve a value chain free of deforestation and conversion. In our ongoing commitment to the preservation of Brazilian biomes, we highlight our support for AMPARA Silvestre. AMPARA Silvestre is an institution dedicated to the preservation and recovery of Brazilian fauna, protection of biodiversity and defense of wild animals. Currently, it has established a permanent base in the Pantanal. Relying on a highly qualified team, investigations were initiated and areas have been monitored to implement risk mitigation measures in the Pantanal region and prevent predation.

O Homem da UNESCO e as Reservas da Biosfera

(11.4.1) Indique se alguma das atividades da organização é realizada dentro ou próximas deste tipo de área importante para a biodiversidade

Selecione de:

Não

(11.4.2) Explique

Our entire production process is tracked from the perspective of food safety and quality, from the origin of animals, inputs and ingredients to the dispatch of finished products, a practice we have adopted since 2007. Therefore, the organization has not located an operation in any area of protection of UNESCO Man and Biosphere Reserves

Sítios Ramsar

(11.4.1) Indique se alguma das atividades da organização é realizada dentro ou próximas deste tipo de área importante para a biodiversidade

Selecione de:

Não

(11.4.2) Explique

Through geospatial monitoring carried out by the organization, there are no activities located in protected areas of Ramsar sites.

Áreas-chave para a biodiversidade

(11.4.1) Indique se alguma das atividades da organização é realizada dentro ou próximas deste tipo de área importante para a biodiversidade

Selecione de:

Sim

(11.4.2) Explique

Marfrig is a company in the food sector that operates globally, including in Brazil, in the Cerrado, Amazon, Atlantic Forest and Pantanal biomes. Its activities cover the entire value chain, from purchasing livestock to processing products. In the Cerrado, the company buys cattle from local suppliers. These suppliers are evaluated and monitored to ensure compliance with Marfrig's policies and guidelines regarding sustainability and respect for biodiversity. The company strives to ensure that the cattle purchased are free from deforestation in this biome. In the Amazon, Marfrig also buys cattle from suppliers in the region. The company is committed to avoiding purchasing cattle from areas that are not deforestation-free. Marfrig seeks to trace the origin of its cattle and ensure that its supply chain is free from practices that harm biodiversity and Amazon ecosystems. In the Atlantic Forest, Marfrig maintains similar activities in relation to the purchase of cattle. The company seeks partnerships with suppliers committed to the sustainability and conservation of this important biome. Actions are also taken to prevent deforestation and degradation of natural areas, as well as to preserve local biodiversity. In Pantanal, the company buys cattle and processes beef. Marfrig seeks to ensure that its operations do not cause negative impacts on the biodiversity and ecosystems of the Pantanal. This includes the adoption of sustainable practices, such as adequate management of water resources and the conservation of native vegetation. In all these regions, Marfrig collaborates with organizations and institutions, such as the PCI Institute, to evaluate and mitigate the impacts of its activities on biodiversity. The company constantly seeks to improve its practices and promote sustainability throughout its value chain, from the responsible purchase of raw materials to the processing of products.

Outras áreas importantes para a biodiversidade

(11.4.1) Indique se alguma das atividades da organização é realizada dentro ou próximas deste tipo de área importante para a biodiversidade

Selecione de:

Não

(11.4.2) Explique

A Marfrig utiliza diversas ferramentas e metodologias, como mapeamento de riscos socioambientais e indicadores de desempenho ambiental, para identificar áreas de risco e priorizar ações de mitigação. O monitoramento contínuo das fazendas fornecedoras, por meio de imagens de satélite e informações do Cadastro Ambiental Rural, auxilia na verificação da preservação do ecossistema e na identificação de desmatamentos e conflitos. Com base nessas estimativas, a Marfrig implementa medidas para promover a sustentabilidade e adotar boas práticas ambientais, visando à conservação dos recursos naturais e proteção do meio ambiente.

[Linha fixa]

(11.4.1) Dê detalhes das atividades da organização localizadas dentro ou perto de áreas importantes para a biodiversidade no ano de reporte.

Row 1

(11.4.1.2) Tipos de áreas importantes para a biodiversidade

Selecione todos os aplicáveis

Áreas-chave para a biodiversidade

(11.4.1.4) País/área

Selecione de:

Brasil

(11.4.1.5) Nome da área importante para a biodiversidade

Amazon, Cerrado, Pantanal, Atlantic Forest and Pampa biomes

(11.4.1.6) Proximidade

Selecione de:

Dados não disponíveis

(11.4.1.8) Descreva brevemente as atividades da organização localizadas na área selecionada ou nas suas proximidades no ano de reporte

Meat processing: The company processes beef, producing meat, leather and by-products in its units located in the Amazon, Cerrado, Pantanal, Atlantic Forest and Pampa biomes. Purchase of animals: Marfrig purchases animals from suppliers located in the biomes mentioned for the production of beef. The company evaluates and selects 100% of beef protein suppliers using environmental and social criteria, ensuring high production standards and observing legal compliance, good environmental conservation practices and the type of management adopted on the properties.

(11.4.1.9) Indique se alguma das atividades da organização localizadas na área selecionada ou nas suas proximidades pode afetar negativamente a biodiversidade

Selecione de:

Sim, mas foram implementadas medidas de mitigação

(11.4.1.10) Medidas de mitigação implementadas na área selecionada

Selecione todos os aplicáveis

Controles operacionais

Controles da redução

(11.4.1.11) Explique como as atividades da organização localizadas na área selecionada ou em suas proximidades podem afetar negativamente a biodiversidade, como isso foi avaliado e descreva eventuais medidas de mitigação implementadas

The activities of Marfrig located in the Amazon, Cerrado, Pantanal, Atlantic Forest, Pampa, or their vicinity, can negatively impact biodiversity in various ways. Some of the potential impacts include deforestation, habitat loss, soil degradation, water pollution, and ecosystem fragmentation. These activities can have adverse consequences for flora and fauna species in these regions, including threatened and endemic species. To assess these impacts, Marfrig adopts several monitoring and evaluation measures. Some of the assessment and mitigation practices implemented include: Geospatial Monitoring: The company continuously monitors supplier farms using satellite imagery, comparing them with data from the Rural Environmental Registry (CAR) and other sources. This monitoring allows verification of ecosystem preservation, identification of deforestation, and conflicts with indigenous lands or conservation units. Socio-Environmental Risk Map: By identifying our suppliers on the risk map, we are getting closer to those in critically risky areas, while still examining all areas, engaging them in efforts to identify indirect risks. We began requesting annual information on the farms where they buy cattle, which helped us track and visualize this producer profile, from priority areas to sequentially less exposed areas. This routine adds to efforts to mitigate socio-environmental risks in our supply chain. The map covers 100% of the country. Third-Party Audits: The company subjects the cattle purchasing processes from farms in the Amazon biome to third-party audits to ensure compliance with criteria and guidelines established by the Public Commitment for Amazon Livestock. These audits assess the practices applied to combat deforestation and uphold human rights. Responsible Sourcing: Marfrig adopts responsible sourcing practices, verifying the origin of animals from deforested areas. Suppliers are asked to share information about their own suppliers, ensuring greater transparency and traceability in the supply chain. In addition to these assessment and mitigation measures, Marfrig also implements the Verde Program, which establishes an action plan to eliminate deforestation and conversion of areas by 2025 across all Brazilian biomes. The program includes the development of audit parameters and procedures, as mentioned earlier, aiming to increase transparency and ensure compliance with environmental commitments. These measures demonstrate Marfrig's commitment to mitigating negative impacts on biodiversity and promoting sustainable practices

in its operations within the mentioned biomes. The company seeks to identify and address socio-environmental risks, collaborating with biodiversity conservation and ecosystem protection in these regions.

[Adicionar linha]

C13. Informações adicionais e assinatura

(13.1) Indique se as informações ambientais incluídas na resposta ao CDP (não divulgadas nas 7.9.1/2/3, 8.9.1/2/3/4 e 9.3.2) foram verificadas e/ou comprovadas por um terceiro.

| | |
|--|---|
| | Outras informações ambientais incluídas na resposta ao CDP foram verificadas e/ou comprovadas por um terceiro |
| | Selecione de: <input checked="" type="checkbox"/> Sim |

[Linha fixa]

(13.1.1) Quais pontos de dados na resposta ao CDP são verificados e/ou comprovados por um terceiro e quais normas foram usadas?

Row 1

(13.1.1.1) Problema ambiental para o qual os dados foram verificados e/ou comprovados

Selecione todos os aplicáveis

Florestas

(13.1.1.2) Módulo de divulgação e dados verificados e/ou comprovados

Desempenho ambiental - Florestas

Origens de volumes obtidos

(13.1.1.3) Norma de verificação/comprovação

Normas florestais

- Forest Stewardship Council (FSC)
- Programme for the Endorsement of Forest Certification (PEFC)
- Outro padrão de verificação florestal, especifique :Ibama Certification of Regularity (CR)

(13.1.1.4) Mais detalhes do processo de verificação/comprovação por terceiros

In 2023, all the cardboard and paper consumed by Marfrig were provided with at least one FSC certification. From the 23,163.23 tons of cardboard consumed, 100% of this value had the FSC Forest Management certification; and 60% also had the FSC Controlled Wood, FSC Chain-of-Custody and/or FSC Recycled certifications. For the 97,15 tons of paper consumed, 96% of this value had the FSC Forest Management Certification and 100% had the FSC Chain-of-Custody certification and the Program for the Endorsement of Forest Certification (PEFC). 100% of the pallets acquired in 2023 are registered into the CTF (Federal Technical Registry) from Ibama (the Brazilian Institute of Environment and Renewable Natural Resources). This registration issues a Certificate of Regularity (CR), which certifies the origin of the wood used in the pallets as being legal and from areas free from deforestation and conversion. Marfrig has a Forestry Material Acquisition Policy (version PMAB01, available at: <https://ri.marfrig.com.br/>), whose objective is to guarantee the sustainable origin of products derived from wood used in the production process of Marfrig company. This policy applies to all Company employees, stakeholders and third parties acting on the Company's behalf. In it are found: Origin mapping - Mapping the origin of goods in the supply chain with the appropriate level of granularity necessary to define the supply chain risk and assess compliance with Marfrig's commitment to combating deforestation. Origin verification - All products of forestry origin supplied to Marfrig must originate from planted forests with measurable volume and plants in areas not embargoed by environmental agencies and/or located in areas of indigenous and/or traditional communities.

(13.1.1.5) Anexar evidência/relatório de verificação/comprovação (opcional)

Cert_FSC.pdf

Row 2

(13.1.1.1) Problema ambiental para o qual os dados foram verificados e/ou comprovados

Selecione todos os aplicáveis

- Água

(13.1.1.2) Módulo de divulgação e dados verificados e/ou comprovados

Desempenho ambiental - Segurança hídrica

- Receita associada a produtos contendo substâncias perigosas
- Descarga de água – volume total

- Descargas de água – volumes por destino
- Descargas de água – volume por método de tratamento

(13.1.1.3) Norma de verificação/comprovação

Normas gerais

- Outro padrão de verificação geral, especifique :ABNT NBR ISO 14064-3:2007 (Associação Brasileira de Normas Técnicas)

(13.1.1.4) Mais detalhes do processo de verificação/comprovação por terceiros

Marfrig Global Foods recognizes the dependence of its operations on water resources and considers this a material aspect of its business planning. In 2023, the data on effluent volumes underwent assurance conducted by the Instituto Totum, in accordance with ABNT NBR ISO 14064-3:2007. The company completes the verification annually, covering effluent volumes (effluent volume verification).

(13.1.1.5) Anexar evidência/relatório de verificação/comprovação (opcional)

Declaration CDP_Marfrig_2024 - 05.07.24.pdf
 [Adicionar linha]

(13.2) Use este campo para indicar qualquer informação ou contexto adicional que considere relevante para a resposta da organização. Observe que este campo é opcional e não é pontuado.

| | |
|--|------------------------|
| | Informações adicionais |
| | N/A |

[Linha fixa]

(13.3) Dê as seguintes informações sobre a pessoa que assinou (aprovou) a resposta ao CDP.

(13.3.1) Cargo

South America Sustainability Director (CSO)

(13.3.2) Categoria de cargo correspondente

Selecione de:

Diretor de Sustentabilidade (CSO)

[Linha fixa]

(13.4) Indique seu consentimento para que o CDP compartilhe os detalhes de contato com o Pacific Institute para respaldar o conteúdo do site Water Action Hub.

Selecione de:

Não

