

More4Sustainability Survey (EN)



* To participate in the survey, please BEMAS and Mainnovation permission to store the provided data.

In the report, all data will be anonymous unless we have your explicit permission to discuss your case.

- ☐ I hereby give BEMAS and Mainnovation the permission to store the answers and personal data I have entered in this survey

More4Sustainability Survey (EN)

General data



* Please enter the data of you and your organization

Name participant

Function

Phone number

Email address

Company

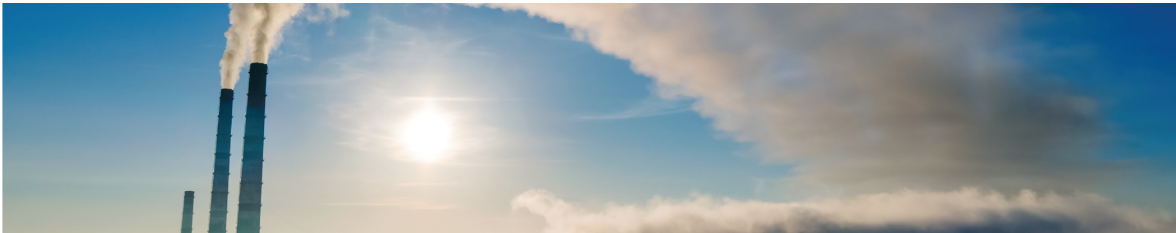
Plant name

* Please enter your country

* Please enter your sector

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1. Energy Consumption and GHG emission



* 1A. What was the energy consumption and GHG emission of your plant in 2023?

Gross operational Energy Consumption
(in GigaJoule)

Gross operational GHG Emission
(in kTon CO2 equivalents)

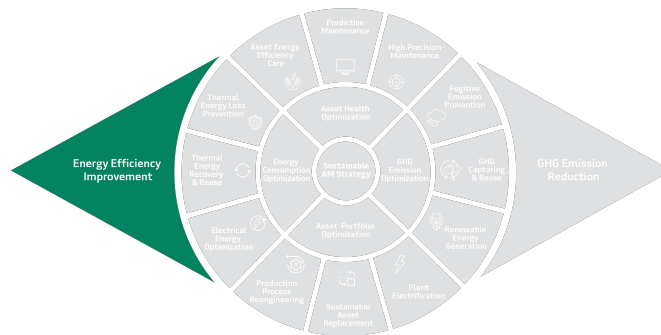
Percentage of combustion-related CO2 emission
(in %)

Production volume
(please provide unit in following question)

* 1B. In what unit do you measure your production volume?

More4Sustainability Survey (EN)

2. (Expected) sustainability improvement in terms of Energy Efficiency



* 2A. What was the improvement in energy consumption per produced unit in 2023 compared to 2020?

-50% 0% +50%

2B. What was the improvement in this period in Energy Efficiency for the following sustainability items?

We ask you to indicate which sustainability items lead to the total improvement from 2A. The total sum of percentages from 2B.1 to 2B.12 should be equal to the percentage from question 2A. The irrelevant items can be left blank.

2B.1 Plant Electrification

-50% 0% +50%

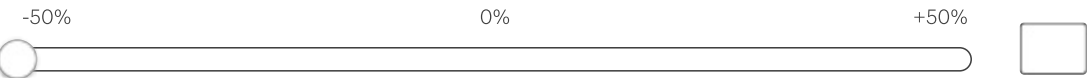
2B.2 Sustainable Asset Replacement

-50% 0% +50%

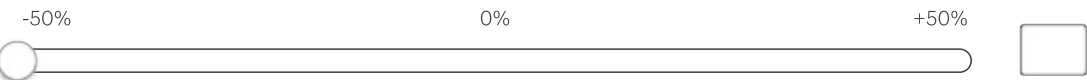
2B.3 Production Process Reengineering

-50% 0% +50%

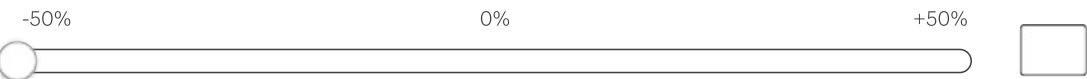
2B.4 Asset Energy Efficiency Care



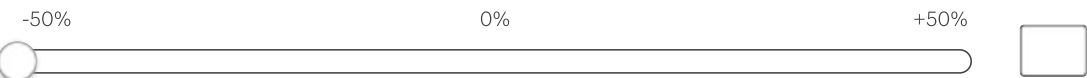
2B.5 Predictive Maintenance



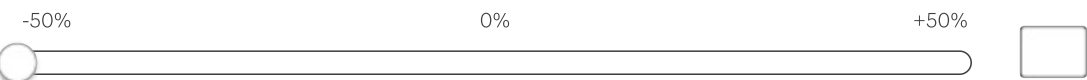
2B.6 High Precision Maintenance



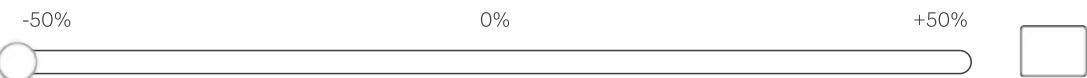
2B.7 Electrical Energy Optimization



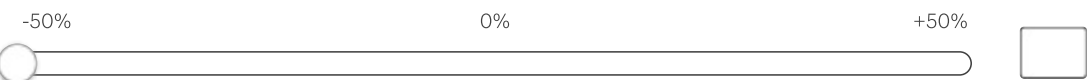
2B.8 Thermal Energy Recovery & Reuse



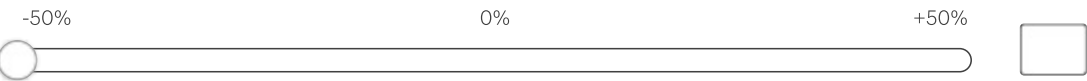
2B.9 Thermal Energy Loss Prevention



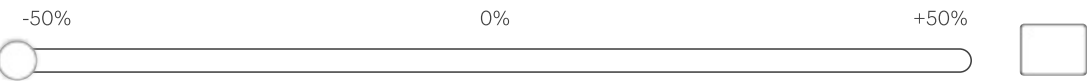
2B.10 Fugitive Emission Prevention



2B.11 GHG Capturing & Reuse

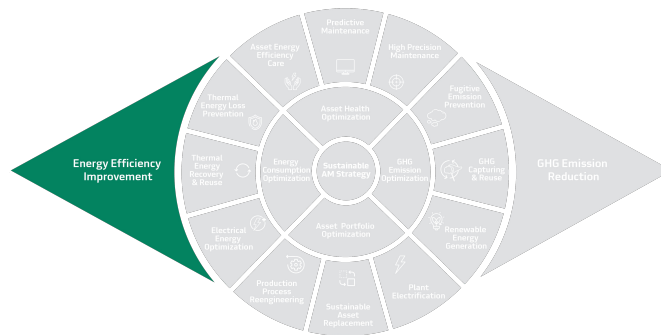


2B.12 Renewable Energy Generation



More4Sustainability Survey (EN)

2. (Expected) sustainability improvement in terms of Energy Efficiency



* 2C. What is the expected improvement in energy consumption per produced unit in 2027 compared to 2020?

-50% 0% +50%

2D. What is the expected improvement in this period in Energy Efficiency for the following sustainability items?

We ask you to indicate which sustainability items lead to the total improvement from 2C. The total sum of percentages from 2D.1 to 2D.12 should be equal to the percentage from question 2C. The irrelevant items can be left blank.

2D.1 Plant Electrification

-50% 0% +50%

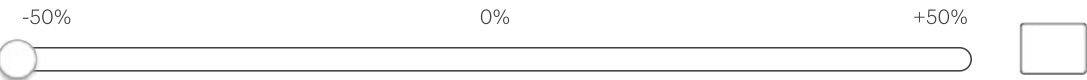
2D.2 Sustainable Asset Replacement

-50% 0% +50%

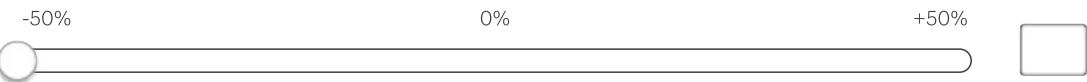
2D.3 Production Process Reengineering

-50% 0% +50%

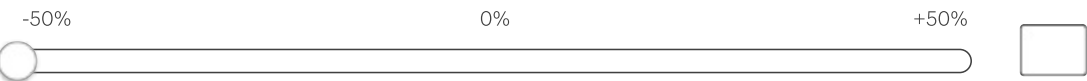
2D.4 Asset Energy Efficiency Care



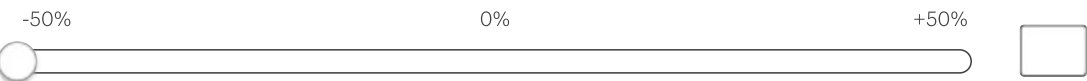
2D.5 Predictive Maintenance



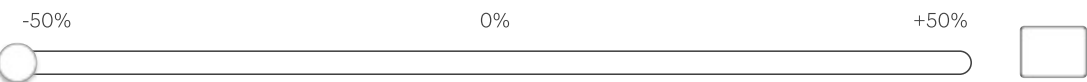
2D.6 High Precision Maintenance



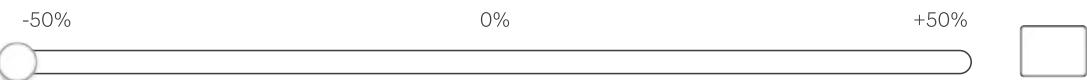
2D.7 Electrical Energy Optimization



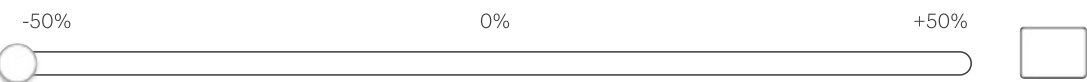
2D.8 Thermal Energy Recovery & Reuse



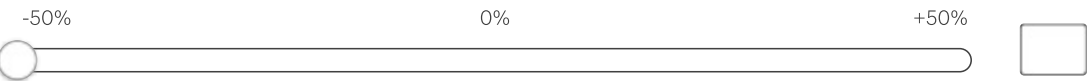
2D.9 Thermal Energy Loss Prevention



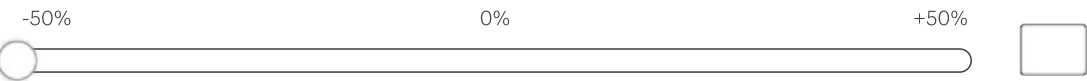
2D.10 Fugitive Emission Prevention



2D.11 GHG Capturing & Reuse

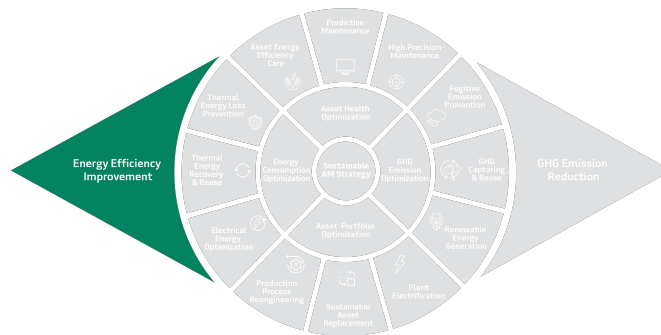


2D.12 Renewable Energy Generation



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2. (Expected) sustainability improvement in terms of Energy Efficiency



* 2E. What is the expected improvement in energy consumption per produced unit in 2030 compared to 2020?

-50% 0% +50%

2F. What is the expected improvement in this period in Energy Efficiency for the following sustainability items?

We ask you to indicate which sustainability items lead to the total improvement from 2E. The total sum of percentages from 2F.1 to 2F.12 should be equal to the percentage from question 2E. The irrelevant items can be left blank.

2F.1 Plant Electrification

-50% 0% +50%

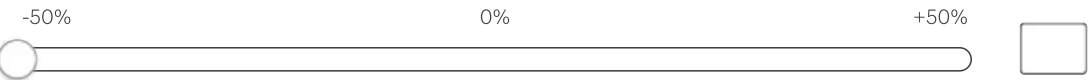
2F.2 Sustainable Asset Replacement

-50% 0% +50%

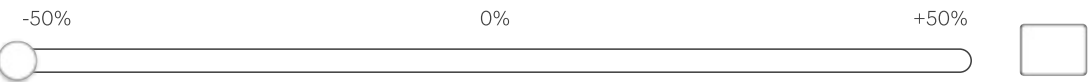
2F.3 Production Process Reengineering

-50% 0% +50%

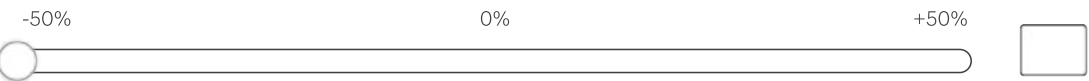
2F.4 Asset Energy Efficiency Care



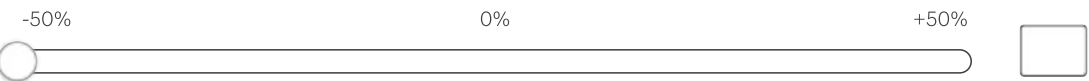
2F.5 Predictive Maintenance



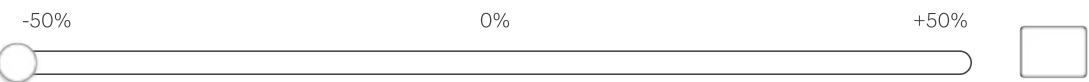
2F.6 High Precision Maintenance



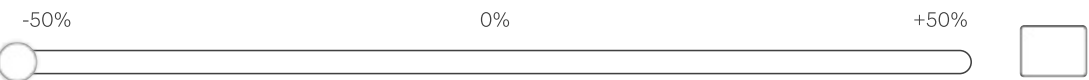
2F.7 Electrical Energy Optimization



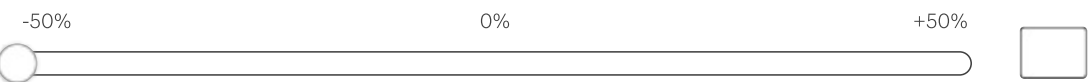
2E.8 Thermal Energy Recovery & Reuse



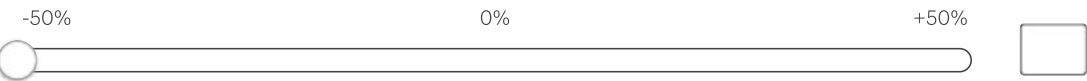
2F.9 Thermal Energy Loss Prevention



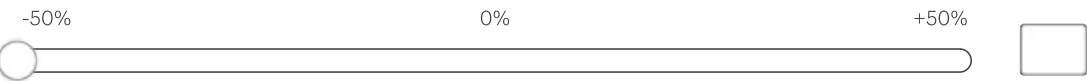
2F.10 Fugitive Emission Prevention



2F.11 GHG Capturing & Reuse



2F.12 Renewable Energy Generation



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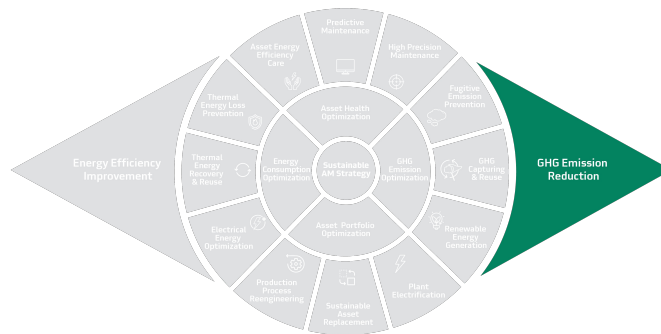
3. (Expected) sustainability improvement in terms of GHG Emissions

* 3A. What was the improvement in CO2 equivalent emission per produced unit in 2023 compared to 2020?

-50%

0%

+50%



3B. What was the improvement in this period in GHG Emissions for the following sustainability items?

We ask you to indicate which sustainability items lead to the total improvement from 3A. The total sum of percentages from 3B.1 to 3B.12 should be equal to the percentage from question 3A. The irrelevant items can be left blank.

3B.1 Plant Electrification

-50%

0%

+50%

3B.2 Sustainable Asset Replacement

-50%

0%

+50%

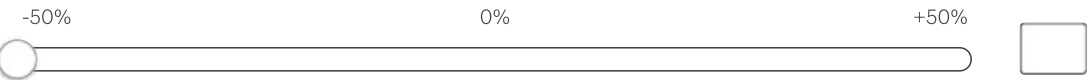
3B.3 Production Process Reengineering

-50%

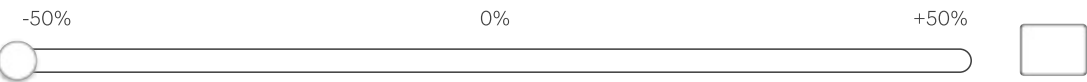
0%

+50%

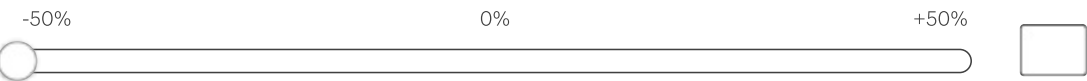
3B.4 Asset Energy Efficiency Care



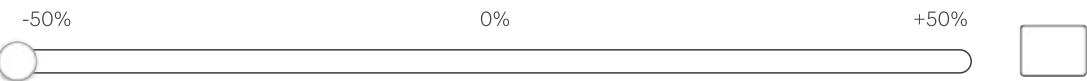
3B.5 Predictive Maintenance



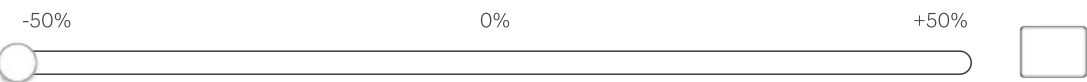
3B.6 High Precision Maintenance



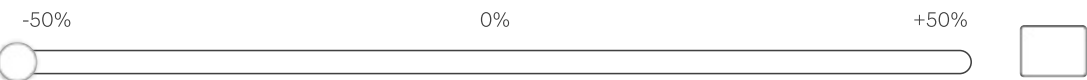
3B.7 Electrical Energy Optimization



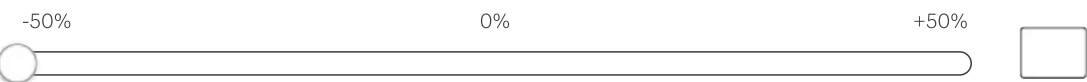
3B.8 Thermal Energy Recovery & Reuse



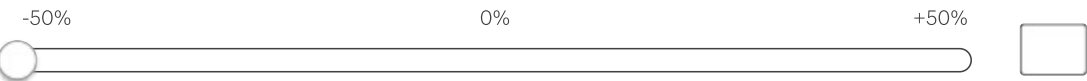
3B.9 Thermal Energy Loss Prevention



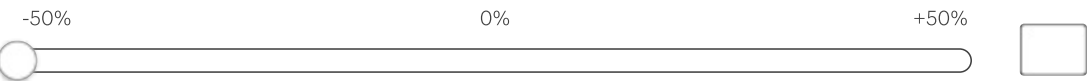
3B.10 Fugitive Emission Prevention



3B.11 GHG Capturing & Reuse



3B.12 Renewable Energy Generation



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3. (Expected) sustainability improvement in terms of GHG Emissions



* 3C. What is the expected improvement in CO2 equivalent emission per produced unit in 2027 compared to 2020?

-50% 0% +50%

3D. What is the expected improvement in this period in GHG Emissions for the following sustainability items?

We ask you to indicate which sustainability items lead to the total improvement from 3C. The total sum of percentages from 3D.1 to 3D.12 should be equal to the percentage from question 3C. The irrelevant items can be left blank.

3D.1 Plant Electrification

-50% 0% +50%

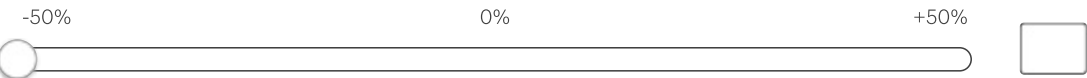
3D.2 Sustainable Asset Replacement

-50% 0% +50%

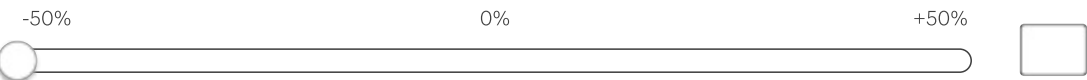
3D.3 Production Process Reengineering

-50% 0% +50%

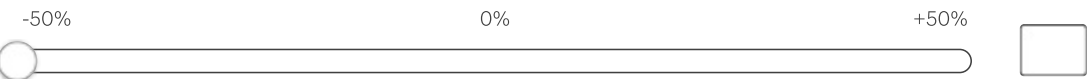
3D.4 Asset Energy Efficiency Care



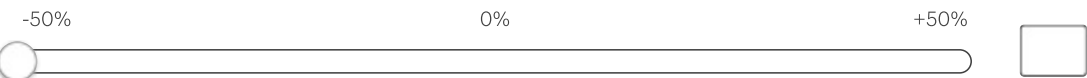
3D.5 Predictive Maintenance



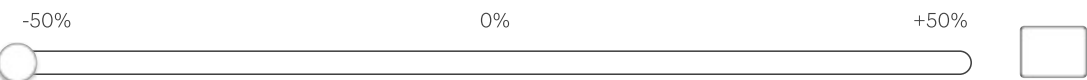
3D.6 High Precision Maintenance



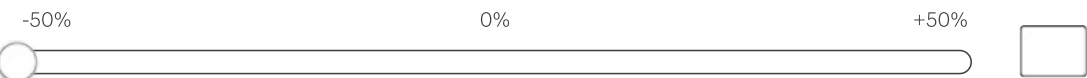
3D.7 Electrical Energy Optimization



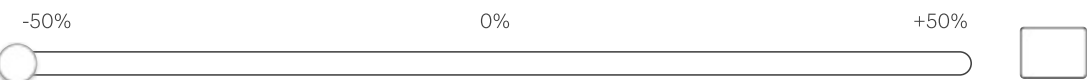
3D.8 Thermal Energy Recovery & Reuse



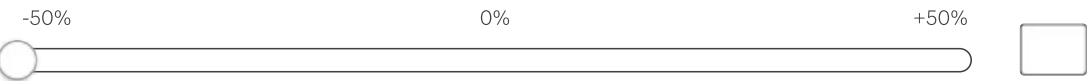
3D.9 Thermal Energy Loss Prevention



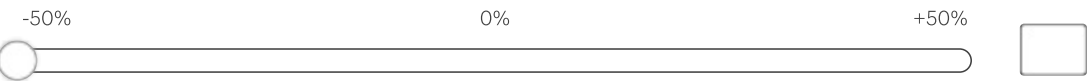
3D.10 Fugitive Emission Prevention



3D.11 GHG Capturing & Reuse



3D.12 Renewable Energy Generation



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3. (Expected) sustainability improvement in terms of GHG Emissions



* 3E. What is the expected improvement in CO2 equivalent emission per produced unit in 2030 compared to 2020?

-50% 0% +50%

3F. What is the expected improvement in this period in GHG Emissions for the following sustainability items?

We ask you to indicate which sustainability items lead to the total improvement from 3E. The total sum of percentages from 3F.1 to 3F.12 should be equal to the percentage from question 3E. The irrelevant items can be left blank.

3F.1 Plant Electrification

-50% 0% +50%

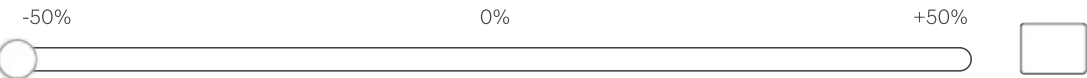
3F.2 Sustainable Asset Replacement

-50% 0% +50%

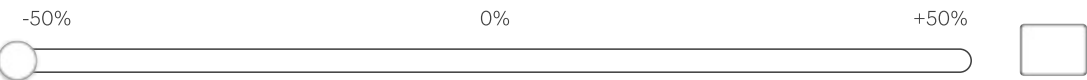
3F.3 Production Process Reengineering

-50% 0% +50%

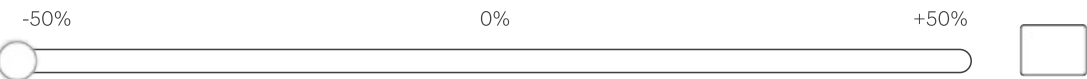
3F.4 Asset Energy Efficiency Care



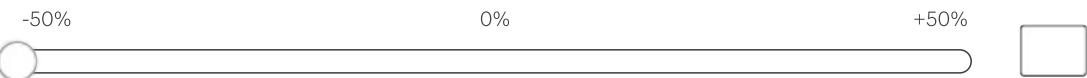
3F.5 Predictive Maintenance



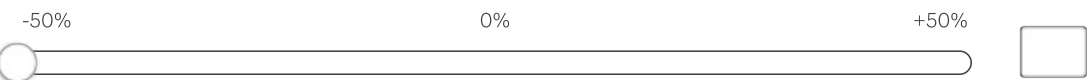
3F.6 High Precision Maintenance



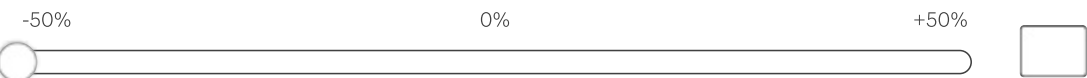
3F.7 Electrical Energy Optimization



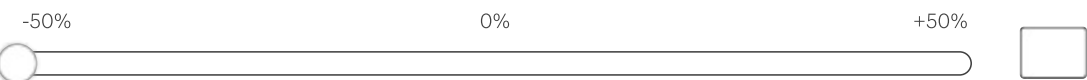
3F.8 Thermal Energy Recovery & Reuse



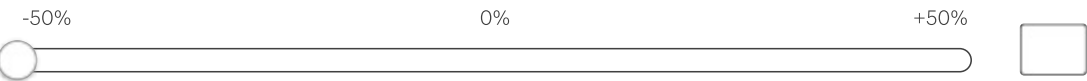
3F.9 Thermal Energy Loss Prevention



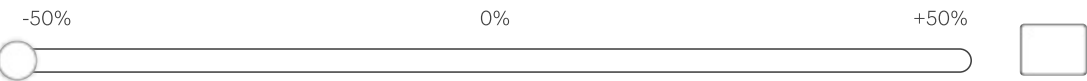
3F.10 Fugitive Emission Prevention



3F.11 GHG Capturing & Reuse



3F.12 Renewable Energy Generation



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4. Asset Portfolio Optimization



4A. What is the implementation degree in your plant of Asset Portfolio Optimization practices?

(Leave empty if not implemented)

	Level of implementation 2023	Level of implementation 2027	Level of implementation 2030
ISO 55000 standard for Asset Management	<input type="text"/>	<input type="text"/>	<input type="text"/>
Asset Portfolio Management Tooling	<input type="text"/>	<input type="text"/>	<input type="text"/>
Artificial Intelligence for Asset Portfolio Optimization	<input type="text"/>	<input type="text"/>	<input type="text"/>
Employee Training on Asset Portfolio Optimization	<input type="text"/>	<input type="text"/>	<input type="text"/>
Asset Portfolio Optimization Process	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 1 (please specify in following question)	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 2 (please specify in following question)	<input type="text"/>	<input type="text"/>	<input type="text"/>

4B. Please describe which other practice was or will be implemented to support reduction of GHG emission and/or energy consumption.

(Leave empty if not implemented)

Other practice 1

Other practice 2

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5. Plant Electrification



* 5A. Has your company implemented Plant Electrification practices in the previous 3 years or will it be implementing (some of) these practices in the upcoming 6 years?

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5. Plant Electrification



5B. What is the implementation degree and impact of Plant Electrification practices in your plant?

(Leave empty if not implemented)

	Level of implementation 2023	Level of implementation 2027	Level of implementation 2030	Impact on GHG emission reduction	Impact on energy consumption reduction
Electric pumps	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Electric compressors	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Electric heaters	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Electric vehicles and forklifts	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

5C. Please describe which other practice (other 1, 2 or 3) was implemented to reduce GHG emission and/or energy consumption.
(Leave empty if not implemented)

Other practice 1	<input type="text"/>
Other practice 2	<input type="text"/>
Other practice 3	<input type="text"/>

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6. Sustainable Asset Replacement



* 6A. Has your company implemented Sustainable Asset Replacement practices in the previous 3 years or will it be implementing (some of) these practices in the upcoming 6 years?

More4Sustainability Survey (EN)

6. Sustainable Asset Replacement



6B. What is the implementation degree and impact of Sustainable Asset Replacement practices in your plant?

(Leave empty if not implemented)

	Level of implementation 2023	Level of implementation 2027	Level of implementation 2030	Impact on GHG emission reduction	Impact on energy consumption reduction
LED lighting	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Smart and Adaptive Lighting	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
High-efficiency HVAC	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
High-efficiency Motors & Drives	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Lifetime Extension, Refurbishment & Overhaul	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Circularity	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

6C. Please describe which other practice (other 1, 2 or 3) was implemented to reduce GHG emission and/or energy consumption.
(Leave empty if not implemented)

Other practice 1	<input type="text"/>
Other practice 2	<input type="text"/>
Other practice 3	<input type="text"/>

More4Sustainability Survey (EN)

7. Production Process Reengineering



* 7A. Has your company implemented Production Process Reengineering practices in the previous 3 years or will it be implementing (some of) these practices in the upcoming 6 years?

More4Sustainability Survey (EN)

7. Production Process Reengineering



7B. What is the implementation degree and impact of Production Process Reengineering practices in your plant?

(Leave empty if not implemented)

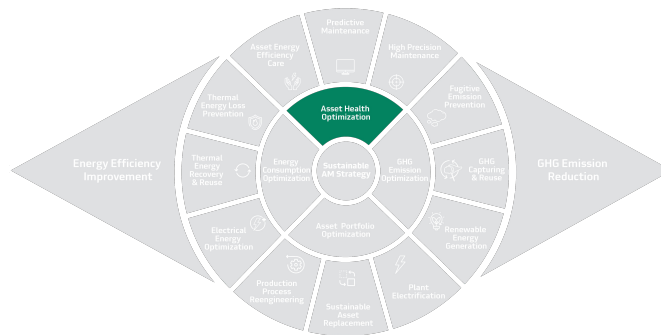
	Level of implementation 2023	Level of implementation 2027	Level of implementation 2030	Impact on GHG emission reduction	Impact on energy consumption reduction
Process Optimization and Redesign	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Product Changeover	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
(Partial) Plant Closure	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Building (a partial) new plant	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Circularity	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

7C. Please describe which other practice (other 1, 2 or 3) was implemented to reduce GHG emission and/or energy consumption.
(Leave empty if not implemented)

Other practice 1	<input type="text"/>
Other practice 2	<input type="text"/>
Other practice 3	<input type="text"/>

More4Sustainability Survey (EN)

8. Asset Health Optimization



8A. What is the implementation degree of Asset Health Optimization practices in your plant?

(Leave empty if not implemented)

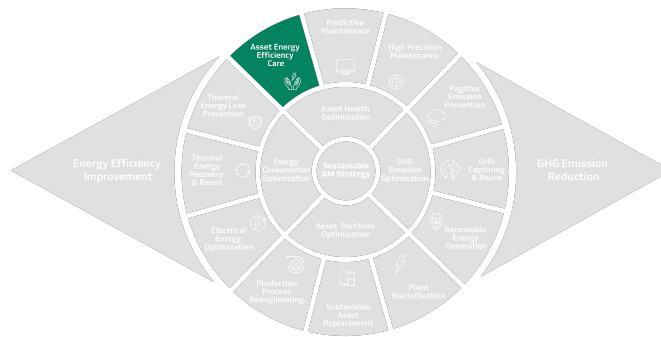
	Level of implementation 2023	Level of implementation 2027	Level of implementation 2030
ISO 18436 standard for condition monitoring & diagnostics of machines	<input type="text"/>	<input type="text"/>	<input type="text"/>
Real Time Conditioning Monitoring Tooling	<input type="text"/>	<input type="text"/>	<input type="text"/>
Artificial Intelligence for Asset Health Optimization	<input type="text"/>	<input type="text"/>	<input type="text"/>
Employee Training on Asset Health Optimization	<input type="text"/>	<input type="text"/>	<input type="text"/>
Asset Health Optimization Process	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 1	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 2	<input type="text"/>	<input type="text"/>	<input type="text"/>

8B. Please describe which other practice (other 1, 2 or 3) was implemented to reduce GHG emission and/or energy consumption.
(Leave empty if not implemented)

Other practice 1	<input type="text"/>
Other practice 2	<input type="text"/>

More4Sustainability Survey (EN)

9. Asset Energy Efficiency Care



* 9A. Has your company implemented Asset Energy Efficiency Care practices in the previous 3 years or will it be implementing (some of) these practices in the upcoming 6 years?

More4Sustainability Survey (EN)

9. Asset Energy Efficiency Care



9B. What is the implementation degree and impact of Asset Energy Efficiency Care practices in your plant?

(Leave empty if not implemented)

	Level of implementation 2023	Level of implementation 2027	Level of implementation 2030	Impact on GHG emission reduction	Impact on energy consumption reduction
Regular Cleaning	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Lubrication	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Filter maintenance	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Operator maintenance	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Routine inspections	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Monitor equipment settings	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

9C. Please describe which other practice (other 1, 2 or 3) was implemented to reduce GHG emission and/or energy consumption.
(Leave empty if not implemented)

Other practice 1	<input type="text"/>
Other practice 2	<input type="text"/>
Other practice 3	<input type="text"/>

More4Sustainability Survey (EN)

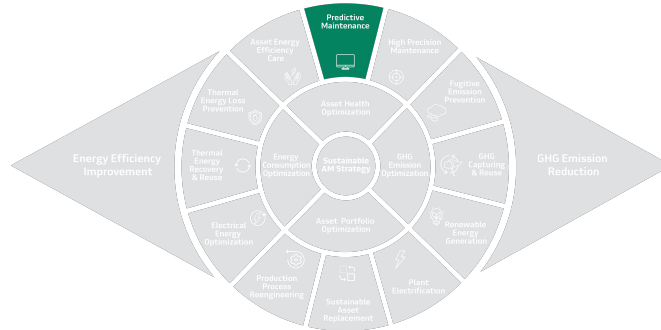
10. Predictive Maintenance



* 10A. Has your company implemented Predictive Maintenance practices in the previous 3 years or will it be implementing (some of) these practices in the upcoming 6 years?

More4Sustainability Survey (EN)

10. Predictive Maintenance



10B. What is the implementation degree and impact of Predictive Maintenance practices in your plant?

(Leave empty if not implemented)

	Level of implementation 2023	Level of implementation 2027	Level of implementation 2030	Impact on GHG emission reduction	Impact on energy consumption reduction
Predictive maintenance via condition monitoring	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Predictive maintenance via Integrative Data Analysis (IDA) and predictive modeling	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Prescriptive maintenance	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

10C. Please describe which other practice (other 1, 2 or 3) was implemented to reduce GHG emission and/or energy consumption.

(Leave empty if not implemented)

Other practice 1	<input type="text"/>
Other practice 2	<input type="text"/>
Other practice 3	<input type="text"/>

More4Sustainability Survey (EN)

11. High Precision Maintenance



* 11A. Has your company implemented High Precision Maintenance practices in the previous 3 years or will it be implementing (some of) these practices in the upcoming 6 years?

More4Sustainability Survey (EN)

11. High Precision Maintenance



11B. What is the implementation degree and impact of High Precision Maintenance practices in your plant?

(Leave empty if not implemented)

	Level of implementation 2023	Level of implementation 2027	Level of implementation 2030	Impact on GHG emission reduction	Impact on energy consumption reduction
Precision Measurement	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Laser Accurate Alignment	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Precise Calibration of Instruments	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Tight Tolerance Management	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Quality Assurance	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Clear Maintenance Instructions	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

11C. Please describe which other practice (other 1, 2 or 3) was implemented to reduce GHG emission and/or energy consumption.
(Leave empty if not implemented)

Other practice 1	<input type="text"/>
Other practice 2	<input type="text"/>
Other practice 3	<input type="text"/>

More4Sustainability Survey (EN)

12. Energy Efficiency Optimization



12A. What is the implementation degree of Energy Efficiency Optimization practices in your plant?

(Leave empty if not implemented)

	Level of implementation 2023	Level of implementation 2027	Level of implementation 2030
ISO 50001 standard for Energy Management	<input type="text"/>	<input type="text"/>	<input type="text"/>
Energy Management Tooling	<input type="text"/>	<input type="text"/>	<input type="text"/>
Artificial Intelligence for Energy Optimization	<input type="text"/>	<input type="text"/>	<input type="text"/>
Employee Training on Energy Optimization	<input type="text"/>	<input type="text"/>	<input type="text"/>
Energy Optimization Process	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 1	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 2	<input type="text"/>	<input type="text"/>	<input type="text"/>

12B. Please describe which other practice (other 1, 2 or 3) was implemented to reduce GHG emission and/or energy consumption.
(Leave empty if not implemented)

Other practice 1	<input type="text"/>
Other practice 2	<input type="text"/>

More4Sustainability Survey (EN)

13. Electrical Energy Optimization



* 13A. Has your company implemented Electrical Energy Optimization practices in the previous 3 years or will it be implementing (some of) these practices in the upcoming 6 years?

More4Sustainability Survey (EN)

13. Electrical Energy Optimization



13B. What is the implementation degree and impact of Electrical Energy Optimization practices in your plant?

(Leave empty if not implemented)

	Level of implementation 2023	Level of implementation 2027	Level of implementation 2030	Impact on GHG emission reduction	Impact on energy consumption reduction
HVAC Optimization	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Lighting Upgrades	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Motors and Drives	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Load Balancing	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Power Factor Correction	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

13C. Please describe which other practice (other 1, 2 or 3) was implemented to reduce GHG emission and/or energy consumption.

(Leave empty if not implemented)

Other practice 1	<input type="text"/>
Other practice 2	<input type="text"/>
Other practice 3	<input type="text"/>

More4Sustainability Survey (EN)

14. Thermal Energy Recovery & Reuse



* 14A. Has your company implemented Thermal Energy Recovery & Reuse practices in the previous 3 years or will it be implementing (some of) these practices in the upcoming 6 years?

More4Sustainability Survey (EN)

14. Thermal Energy Recovery & Reuse



14B. What is the implementation degree and impact of Thermal Energy Recovery & Reuse practices in your plant?

(Leave empty if not implemented)

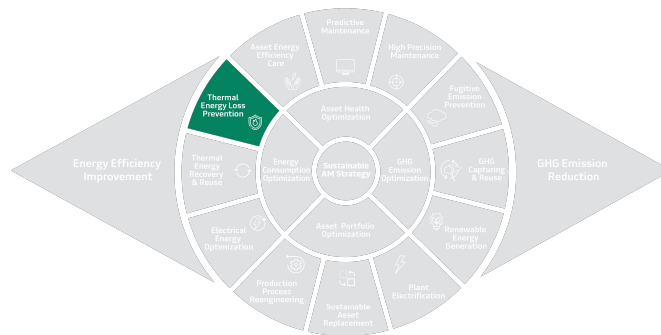
	Level of implementation 2023	Level of implementation 2027	Level of implementation 2030	Impact on GHG emission reduction	Impact on energy consumption reduction
Heat Recovery Systems	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Cogeneration Systems	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
District Heating and Cooling	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Industrial Process Integration	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Thermal Storage Systems	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Thermal Storage Systems	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

14C. Please describe which other practice (other 1, 2 or 3) was implemented to reduce GHG emission and/or energy consumption.
(Leave empty if not implemented)

Other practice 1	<input type="text"/>
Other practice 2	<input type="text"/>
Other practice 3	<input type="text"/>

More4Sustainability Survey (EN)

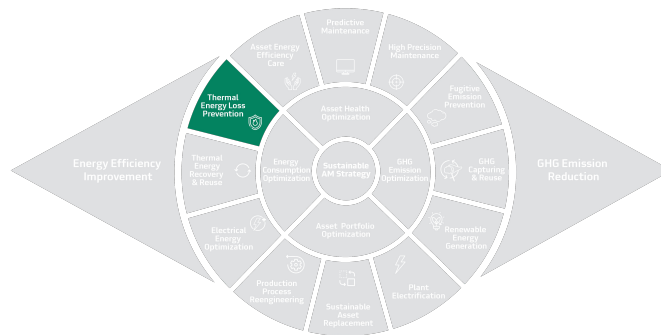
15. Thermal Energy Loss Prevention



* 15A. Has your company implemented Thermal Energy Loss Prevention practices in the previous 3 years or will it be implementing (some of) these practices in the upcoming 6 years?

More4Sustainability Survey (EN)

15. Thermal Energy Loss Prevention



15B. What is the implementation degree and impact of Thermal Energy Loss Prevention practices in your plant?

(Leave empty if not implemented)

	Level of implementation 2023	Level of implementation 2027	Level of implementation 2030	Impact on GHG emission reduction	Impact on energy consumption reduction
Insulation	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Thermal Imaging and Infrared Thermography	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Temperature Sensors	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

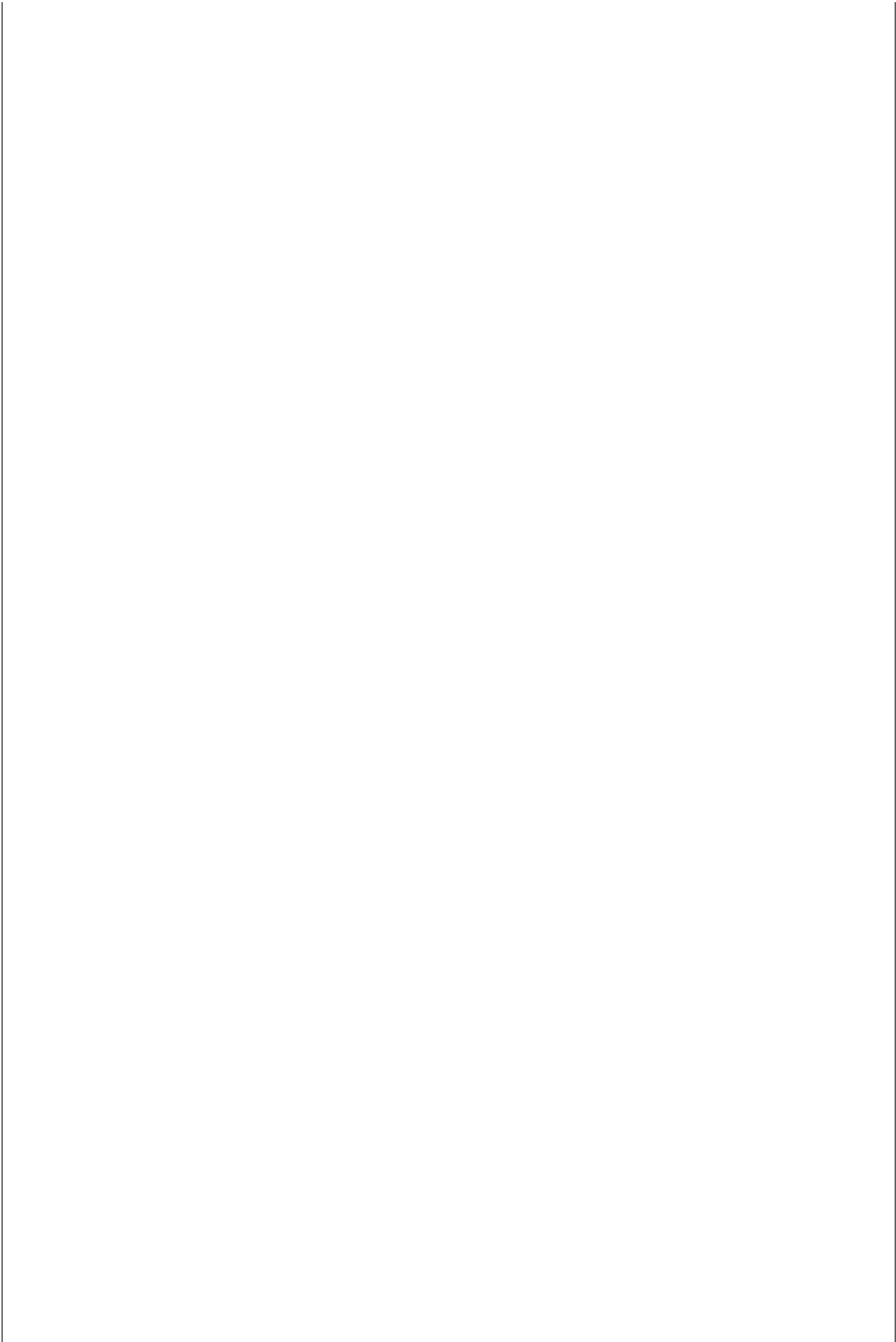
15C. Please describe which other practice (other 1, 2 or 3) was implemented to reduce GHG emission and/or energy consumption.

(Leave empty if not implemented)

Other practice 1

Other practice 2

Other practice 3



More4Sustainability Survey (EN)

16. GHG Emission Optimization



16A. What is the implementation degree of GHG Emission Optimization practices in your plant?

(Leave empty if not implemented)

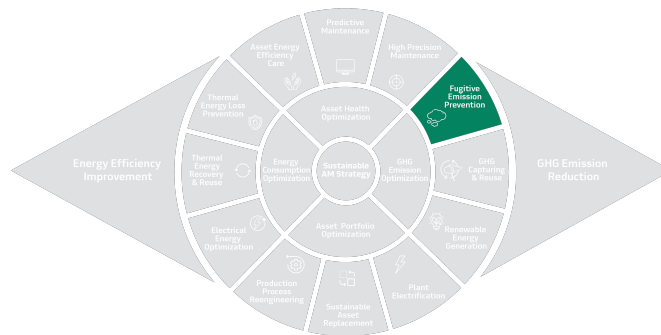
	Level of implementation 2023	Level of implementation 2027	Level of implementation 2030
ISO 14001 standard for Environmental Systems	<input type="text"/>	<input type="text"/>	<input type="text"/>
Emission Management Tooling	<input type="text"/>	<input type="text"/>	<input type="text"/>
Artificial Intelligence for Emission Optimization	<input type="text"/>	<input type="text"/>	<input type="text"/>
Employee Training on Emission Optimization	<input type="text"/>	<input type="text"/>	<input type="text"/>
Energy Optimization Process	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 1	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 2	<input type="text"/>	<input type="text"/>	<input type="text"/>

16B. Please describe which other practice (other 1, 2 or 3) was implemented to reduce GHG emission and/or energy consumption.
(Leave empty if not implemented)

Other practice 1	<input type="text"/>
Other practice 2	<input type="text"/>

More4Sustainability Survey (EN)

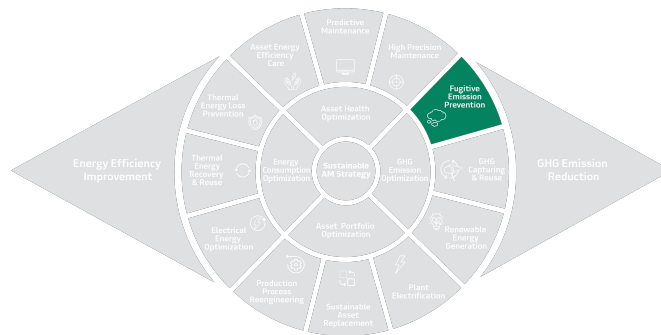
17. Fugitive Emission Prevention



* 17A. Has your company implemented Fugitive Emission Prevention practices in the previous 3 years or will it be implementing (some of) these practices in the upcoming 6 years?

More4Sustainability Survey (EN)

17. Fugitive Emission Prevention



17B. What is the implementation degree and impact of Fugitive Emission Prevention practices in your plant?

(Leave empty if not implemented)

	Level of implementation 2023	Level of implementation 2027	Level of implementation 2030	Impact on GHG emission reduction	Impact on energy consumption reduction
Leak Detection and Repair (LDAR)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Sealing and Repair	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Emission Control Technologies	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

17C. Please describe which other practice (other 1, 2 or 3) was implemented to reduce GHG emission and/or energy consumption.

(Leave empty if not implemented)

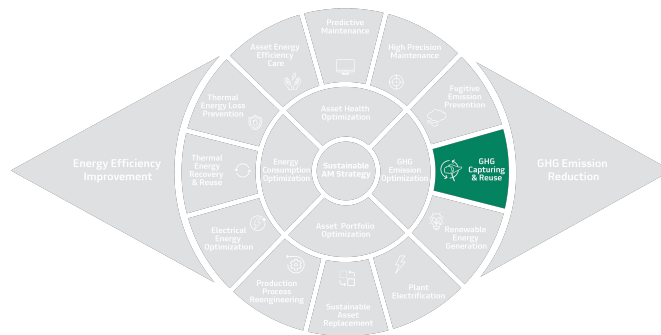
Other practice 1

Other practice 2

Other practice 3

More4Sustainability Survey (EN)

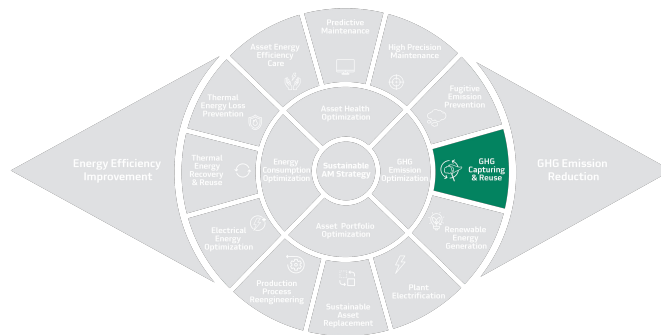
18. Green House Gas Capture & Reuse



* 18A. Has your company implemented Green House Gas Capture & Reuse practices in the previous 3 years or will it be implementing (some of) these practices in the upcoming 6 years?

More4Sustainability Survey (EN)

18. Green House Gas Capture & Reuse



18B. What is the implementation degree and impact of Green House Gas Capture & Reuse practices in your plant?

(Leave empty if not implemented)

	Level of implementation 2023	Level of implementation 2027	Level of implementation 2030	Impact on GHG emission reduction	Impact on energy consumption reduction
Green House Gas Capture & Reuse	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Transportation and Storage	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Utilization and Conversion	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Biological Conversion	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

18C. Please describe which other practice (other 1, 2 or 3) was implemented to reduce GHG emission and/or energy consumption.

(Leave empty if not implemented)

Other practice 1	<input type="text"/>
Other practice 2	<input type="text"/>
Other practice 3	<input type="text"/>

More4Sustainability Survey (EN)

19. Renewable Energy Generation



* 19A. Has your company implemented Renewable Energy Generation practices in the previous 3 years or will it be implementing (some of) these practices in the upcoming 6 years?

More4Sustainability Survey (EN)

19. Renewable Energy Generation



19B. What is the implementation degree and impact of Renewable Energy Generation practices in your plant?

(Leave empty if not implemented)

	Level of implementation 2023	Level of implementation 2027	Level of implementation 2030	Impact on GHG emission reduction	Impact on energy consumption reduction
Solar Energy Systems	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Wind Energy Systems	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Biomass Energy Systems	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Geothermal Energy Systems	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other practice 3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

19C. Please describe which other practice (other 1, 2 or 3) was implemented to reduce GHG emission and/or energy consumption.

(Leave empty if not implemented)

Other practice 1	<input type="text"/>
Other practice 2	<input type="text"/>
Other practice 3	<input type="text"/>

More4Sustainability Survey (EN)

20. Sustainable Asset Management Strategy



20A. What is the importance of the following requirements for securing sustainability in your Maintenance & Asset Management organization?

(Leave empty if not implemented)

	Level of implementation 2023	Level of implementation 2027	Level of implementation 2030
Mission, Vision, and Values Alignment	<input type="text"/>	<input type="text"/>	<input type="text"/>
Sustainability Culture	<input type="text"/>	<input type="text"/>	<input type="text"/>
Compliance and Standards	<input type="text"/>	<input type="text"/>	<input type="text"/>
Performance Measurement and Reporting	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other requirement 1	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other requirement 2	<input type="text"/>	<input type="text"/>	<input type="text"/>

20B. Please describe which other requirement was or will be implemented to support reduction of GHG emission and/or energy consumption.

(Leave empty if not implemented)

Other practice 1

Other practice 2

More4Sustainability Survey (EN)

21. Sustainability Vision and Goals



* 21A. How do you rank the business criticality of the following Maintenance & Asset Management strategies (1=most important; 6=least important)?

		Safety Control
		Asset Utilization
		Financial Control
		Lifetime Extension
		Sustainability Control
		Asset Development

* 21B. Do you consider sustainability when purchasing new machines, equipments or spare parts?

* 21C. Do you consider sustainability when contracting external resources?

* 21D. What is the impact of sustainability reporting on your workload as M&AM-manager?

21E. Which of the following sustainability development goals is or will your Maintenance & Asset Management organization be working on?
(Leave empty if not implemented)

	Level of implementation 2020-2023	Level of implementation 2024-2027	Level of implementation 2028-2030
No Poverty	<input type="text"/>	<input type="text"/>	<input type="text"/>
Zero Hunger	<input type="text"/>	<input type="text"/>	<input type="text"/>
Good Health and Well-being	<input type="text"/>	<input type="text"/>	<input type="text"/>
Quality Education	<input type="text"/>	<input type="text"/>	<input type="text"/>
Gender Equality	<input type="text"/>	<input type="text"/>	<input type="text"/>
Clean Water and Sanitation	<input type="text"/>	<input type="text"/>	<input type="text"/>
Affordable and Clean Energy	<input type="text"/>	<input type="text"/>	<input type="text"/>
Decent Work and Economic Growth	<input type="text"/>	<input type="text"/>	<input type="text"/>
Industry, Innovation, and Infrastructure	<input type="text"/>	<input type="text"/>	<input type="text"/>
Reduced Inequality	<input type="text"/>	<input type="text"/>	<input type="text"/>
Sustainable Cities and Communities	<input type="text"/>	<input type="text"/>	<input type="text"/>
Responsible Consumption and Production	<input type="text"/>	<input type="text"/>	<input type="text"/>
Climate Action	<input type="text"/>	<input type="text"/>	<input type="text"/>
Life Below Water	<input type="text"/>	<input type="text"/>	<input type="text"/>
Life on Land	<input type="text"/>	<input type="text"/>	<input type="text"/>
Peace, Justice, and Strong Institutions	<input type="text"/>	<input type="text"/>	<input type="text"/>
Partnerships for the Goals	<input type="text"/>	<input type="text"/>	<input type="text"/>

More4Sustainability Survey (EN)

22. Maintenance & Asset Management Data



* 22A. Please enter the technical plant information for your plant in 2023.

Asset Replacement Value	<input type="text"/>
Building year plant	<input type="text"/>
Average age assets	<input type="text"/>
Average Technical Lifetime	<input type="text"/>
Assets with complete asset data	<input type="text"/>
Asset Health Index	<input type="text"/>

* 22B. Please enter the plant performance information for your plant in 2023.

Production loss due to maintenance	<input type="text"/>
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* 22C. Please enter the maintenance cost information for your plant in 2023.

Material costs	<input type="text"/>
Labor costs	<input type="text"/>
Outsourcing costs	<input type="text"/>
Outsourcing costs with contract	<input type="text"/>
Preventive maintenance costs	<input type="text"/>
Corrective maintenance costs	<input type="text"/>

* 22D. Please enter the CAPEX information for your plant in 2023.

Average capital allocation costs for maintenance projects (shutdowns, turn-arounds, lifetime extension)	<input type="text"/>
Inventory stock value	<input type="text"/>
Planning compliance capital improvement & extension projects	<input type="text"/>
% Projects maintenance ready	<input type="text"/>

* 22E. Please enter the resource information for your plant in 2023.

% Work orders finished as scheduled	<input type="text"/>
Technician productivity	<input type="text"/>
Training costs	<input type="text"/>
Size of maintenance crew (in fte)	<input type="text"/>

* 22F. Please enter the Safety, Health & Quality information for your plant in 2023.

Number of maintenance safety incidents (= integrity incidents and incidents during maintenance work)	<input type="text"/>
% Legal inspections completed in time	<input type="text"/>

More4Sustainability Survey (EN)

End of survey



Thank You!

We appreciate your time and valuable input. Thank you for participating! We look forward to sharing our report of the industry trends in sustainability with you.

* In our report, we would like to share inspiring cases of applied best practices in sustainability. Would you like to be one of these cases?

- ☐ Yes. I hereby give permission to be contacted by BEMAS and Mainnovation for a case interview that will later be added to the report.
- ☐ No, thank you.