

GRI SUPPLEMENT 2022

Partner for positive change



Metso Outotec's Annual report 2022 consists of five sections:

All Annual report sections are available in English and in Finnish. They are downloadable on our Annual report website at mogroup.com/annualreport. In this Annual report, we apply integrated reporting elements.

METSO OUTOTEC CHANNELS

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Business overview



Strategy, value creation and sustainability

Financial review



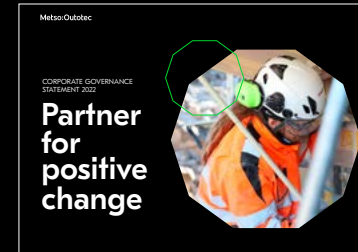
Board of Directors' report, financial statements and investor information

GRI supplement



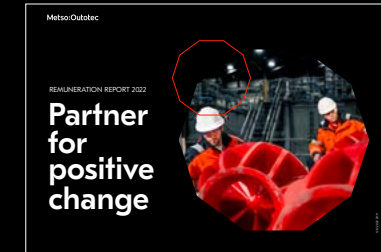
Externally assured sustainability information compliant with the GRI standards

Corporate governance statement



Corporate governance, internal control and risk management systems

Remuneration report



Remuneration of the Board of Directors and the CEO

This is the GRI supplement, including independent practitioner's assurance report.



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About this GRI supplement

Metso Outotec publishes its sustainability data annually. The quantitative data for the 2022 calendar year contained in this supplement has been prepared in accordance with the GRI Standards.

Our reporting meets the requirements of the Finnish Accounting Act on the disclosure of non-financial information. The required non-financial information is disclosed in the Review by the Board of Directors in Metso Outotec's Financial statements 2022. In our Statement of non-financial information we also disclose to what extent our activities are eligible for and aligned with the EU Taxonomy as required by the EU Taxonomy Regulation and the Finnish Accounting Act. This GRI supplement and the sustainability information disclosed in the Business overview section of the Annual report have been prepared to meet the expectations of a wider audience and the requirements of several sustainability indices.

The boundary of our reporting is Metso Outotec Corporation, unless otherwise stated. This scope of reporting excludes associated companies and joint ventures. Supplier-related information includes spending on local suppliers, supplier sustainability audits, the lost time incident frequency rate (LTIFR) of contractors and other supervised workers, and CO₂ emissions of purchased goods and services as well as transportation. Sustainability data is presented at the group level, unless otherwise stated.

Metso Outotec's Annual report 2022 consists of the Business overview, Financial review, Corporate governance statement, Remuneration report, and the GRI supplement. The GRI reporting principles for defining report content and quality and the GRI 1: Foundation Standard have been taken into consideration in producing sustainability-related content. In addition, our reporting includes the industry-specific indicators (SASB Index) identified in the Sustainability Accounting Standards Board's (SASB) Industrial Machinery & Goods Standard.

Sustainability data is presented in various sections of the Annual report. Key figures are summarized in the 'Key Performance Indicators' section of this GRI supplement, with references to additional information set out in the 'GRI Content Index' section.

This report also describes Metso Outotec's performance with reference to the ten principles of the UN Global Compact initiative, specifically regarding human rights, labor rights, environment, and anti-corruption principles. The GRI Content Index also shows the indicators used by Metso Outotec to evaluate progress in these areas.

Metso Outotec's sustainability agenda and related action plans, targets and long-term goals are also aligned with the UN Sustainable Development Goals (SDGs). We have integrated the most relevant Sustainable Development Goals into our sustainability agenda. Five SDGs have been identified as the most relevant areas where we want to demonstrate our impact during this strategy period. This report also describes Metso Outotec's progress against these goals.

In line with the goals set by the UN General Assembly, our products help our customers make their operations more sustainable, with increased resource efficiency and greater adoption of clean and environmentally efficient technologies (SDG 9). This includes actions to combat climate change (SDG 13) through the use of our technologies. We also increase the efficiency of our water use by reducing the amount of freshwater needed in our processes and by increasingly recycling and safely re-using water, thus decreasing the amount of wastewater (SDG 6).

We offer work opportunities for all genders as well as for young people and persons with disabilities. Furthermore, we aim to achieve equal pay for work of equal value, as well as to protect labor rights and promote a safe and secure working environment for all employees (SDG 8).

In addition, because the majority of Metso Outotec's manufacturing is outsourced, responsible procurement is important to us. By requiring sustainable practices across our supply chain we also promote the wider adoption of responsible management practices and the reduction of waste generation (SDG 12).

PwC has provided limited assurance on the sustainability information disclosed in Metso Outotec's Annual report 2022, as an independent third party. The scope of the assured information is indicated in the independent assurance report on page 31 of this report.

Sustainability governance

Sustainability is fundamental to our business and to our everyday work at all levels of the organization.

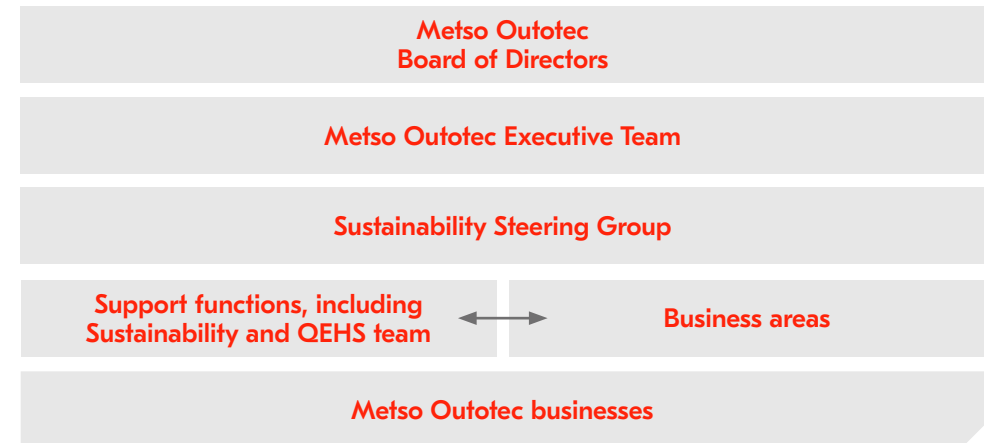
Metso Outotec's Board of Directors oversees the effectiveness of Metso Outotec's sustainability governance and follows up with management to ensure that the sustainability agenda is pursued effectively.

The Metso Outotec Executive Team is the group's top decision-making committee. It regularly reviews and ensures the implementation of the sustainability agenda and makes decisions on corporate-level sustainability priorities, such as climate targets. The heads of the business areas are accountable for sustainability matters in their respective business areas.

The Chief Financial Officer, who is a member of the Metso Outotec Executive Team, has overall accountability for sustainability. The CFO and the Sustainability and QEHS team jointly lead Metso Outotec's group-level approach to material sustainability issues in cooperation with businesses and other corporate functions. This includes the development of the overall sustainability agenda and sustainability practices and communications, as well as the implementation of corporate policies. The team contributes to sustainability-related training, risk assessment and management as well as external reporting in cooperation with other corporate functions, and it is also responsible for the proactive management of internal and external stakeholders' expectations.

The Sustainability Steering Group includes leaders and subject matter experts from different business areas and corporate functions. The Sustainability Steering Group meets twice a quarter to review the overall progress of the sustainability agenda and performance against targets and provides guidance on sustainability matters, governance and policies.





Metso Outotec's integrated management system complies with the requirements of international standards. Key units of Metso Outotec are certified to ISO 9001 (quality), ISO 14001 (environment) and ISO 45001 (safety) standards.



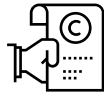


Metso Outotec's stakeholders

Continuous interaction with stakeholders – entities or individuals that have an impact on our business or are affected by our activities, products and services – is a key aspect of Metso Outotec's approach to sustainability. We recognize that the appropriate focus areas and channels of communication vary by stakeholder needs. Metso Outotec defined its key stakeholders through a materiality analysis conducted in 2020.

Key stakeholders	Topics of interest	Engagement	Our response to stakeholder expectations in 2022
Customers 	<ul style="list-style-type: none"> – Sustainability discussions with customers are related to many different topics, including our handprint impact (technology and service impact for our customer) and our footprint actions (how we reduce environmental impacts and improve social aspects across our supply chain). 	<ul style="list-style-type: none"> – We have active sustainability-related discussions with many of our customers to collect feedback, to support our customers in reaching their sustainability targets, and to work together to make improvements to products and our own operations. – In addition to active discussions, we also deepen our understanding of our customers' needs and challenges by systematically collecting feedback. 	<ul style="list-style-type: none"> – In 2022, we started an extensive sustainability training program for our sales organization to support our sales employees in meeting customers' sustainability needs. – We have supported our customers in many sustainability-related projects and inquiries by offering our solutions and services as well as our know-how and data. – In our customer feedback surveys, we collect Net Promoter Score and Customer Satisfaction ratings, and we analyze customer comments to understand their reasoning driving these scores. The analysis helps us to understand customer requirements and to plan for improvement actions.
Employees 	<ul style="list-style-type: none"> – Corporate social responsibility actions, wellbeing initiatives, diversity and inclusion, one's own growth and career opportunities in the company, sustainability strategy, targets and performance, environmental efficiency of own operations, health and safety. 	<ul style="list-style-type: none"> – We conduct employee engagement surveys on a quarterly basis, two of which are full surveys per year for all employees and two pulse surveys for white-collar employees. Active listening and continuous dialogue are important parts of our performance culture. All teams discuss their respective results and seek ways to improve where needed. – We offer leadership training for our leaders and line managers in line with our Leadership Principles. – The wellbeing of our people is a priority, and we have many local actions on-going to support our people in this area. 	<ul style="list-style-type: none"> – We track our employee engagement with engagement surveys. On average, more than 80% of our employees respond to the survey (in Dec 2022 85%) and submit thousands of open comments that provide valuable information to help us understand the areas that need improvement. – We continuously develop our managers' leadership capabilities and support the competence development of our employees. – In health and wellbeing, our engagement survey score has improved and is now in the top 5 percent in our industry. This result shows that our people feel health and wellbeing is a priority at Metso Outotec. – To promote diversity and inclusion, we have initiated various actions: we conducted a fair pay analysis and made corrective actions based on the findings, we have built inclusive talent acquisition practices, conducted psychological safety trainings, and launched the Conscious Inclusion training and Women's mentoring program.

Key stakeholders	Topics of interest	Engagement	Our response to stakeholder expectations in 2022
Suppliers and subcontractors 	<ul style="list-style-type: none"> – We aim to ensure that our suppliers comply with our sustainability and quality requirements. Accordingly, we have developed a Supplier Code of Conduct that sets the standards for our suppliers and forms the basis for supplier cooperation. – Our supplier selection is a broad process; the priority for global sourcing and procurement is to find ways to work with suppliers to improve their sustainability performance, in addition to normal commercial considerations. 	<ul style="list-style-type: none"> – We work closely with our suppliers and subcontractors. This cooperation is based on solid partnership and long-term collaboration. We are transparent in what we require of our suppliers, and we encourage safe working practices. – Further details about our approach to working with suppliers is available in the Business overview and in the Statement of non-financial information. 	<ul style="list-style-type: none"> – We assess and track our suppliers' performance on a monthly basis, and we disclose and discuss results with Procurement teams to support our suppliers' sustainability development. – We conduct internal supplier sustainability audits and third-party supplier audits for high-risk suppliers. – In 2022, our supplier engagement KPI reached 19.6%. Following our engagement with them, several large suppliers committed to Science-Based targets and set meaningful CO₂ emissions reduction targets.
Shareholders 	<ul style="list-style-type: none"> – Metso Outotec is committed to long-term value creation for its shareholders, and we believe our sustainability performance contributes to this. Key topics of interest include our Planet Positive offering and how we manage our own footprint. 	<ul style="list-style-type: none"> – We have continued the development of sustainability communications for investors using a range of channels. 	<ul style="list-style-type: none"> – We actively engage with our investors and shareholders at investor events and meetings, and through calls as well as more general digital communications. More information about our investor dialogue in 2022 is available in the Financial review.
Media 	<ul style="list-style-type: none"> – Our focus is on building reputation and trust through active dialogue with media. We aim to provide media with easy access to useful information, case studies and expert views. 	<ul style="list-style-type: none"> – We provide clear and accurate information about Metso Outotec through many channels. We interact with media representatives both locally and globally to publicize our sustainability work. – Our experts meet trade press representatives at exhibitions and conferences and share the latest product news with them. 	<ul style="list-style-type: none"> – Several international engagements with trade media such as Mining Magazine, Mining International and Aggregates Business. Our releases have been well received by the media, especially information about large orders and new innovations such as our mill lining recycling service. – We actively responded to journalists requests during 2022 and also offered opportunities for CEO-level interviews.
Non-governmental organizations 	<ul style="list-style-type: none"> – Our focus for sponsorships and donations are environmental protection and conservation, safety programs, and natural disaster relief. 	<ul style="list-style-type: none"> – We have good cooperation with non-governmental organizations (NGOs). Our cooperation partners include, e.g. Plan International. 	<ul style="list-style-type: none"> – Donating laptops to support Ukrainian IT students in Finland. – Partnering with Plan India to build school facilities in Alwar, Rajasthan. – Helping underprivileged youth through the Pescar Project in Sorocaba, Brazil.

Key stakeholders	Topics of interest	Engagement	Our response to stakeholder expectations in 2022
Local communities 	<ul style="list-style-type: none"> – Community projects are based on local needs and defined through discussions with local communities. 	<ul style="list-style-type: none"> – We are a responsible corporate citizen and we work closely with the local communities around our operating sites. – We create value by providing employment opportunities, and we support corporate social responsibility projects that bring measurable benefits to our local communities. 	<ul style="list-style-type: none"> – We strive to carry out co-funded community projects in collaboration with our customers. We also aim to integrate voluntary work into community projects. – In 2022, for example, we continued our SOS Children's Village project in India that aims to provide holistic development of 50 abandoned children from 5 family homes.
Universities, vocational schools and research centers 		<ul style="list-style-type: none"> – We regard cooperation with universities and research institutes as important and an essential factor in our approach to innovation. We arrange cooperation projects, school visits, apprenticeship training, internships and dissertation positions. 	
Authorities, regulators and government 	<ul style="list-style-type: none"> – Sustainable minerals and aggregates processing, electrification, digitalized process optimization and safety. 	<ul style="list-style-type: none"> – Metso Outotec continues to engage in R&D collaboration focusing on sustainability, automation and digitalization. Collaboration is mainly through EU, Business Finland and EIT Raw Materials research programs. – One example is the Business Finland funded "Tocanem program – towards carbon neutral metals". This is one of the four strategic research projects of the Association of Finnish Steel and Metal Producers' members. – Metso Outotec is continuously focusing on the aggregate industry's safety, environment and standardization, for example by participating in the development and implementation of EN1009 safety standards. 	<ul style="list-style-type: none"> – Metso Outotec participates 9 large, externally funded R&D projects/ programs, with the aim to strengthen our know-how and competences in several strategic areas. – We have completed research programs related to water, energy, resource and tailings efficiency, as well as autonomous processes facilitated by artificial sensing intelligence. – New research programs are initiated through the EU-driven Horizon Europe program. – We actively participate in Committee for European Construction Equipment (CECE) activities in this field.

Reporting principles

Economic data

The economic data in this report is based on data collected through our enterprise resource planning and management reporting systems. Figures used in Metso Outotec's 2022 consolidated Financial statements have been prepared in accordance with International Financial Reporting Standards.

Environmental data

Environmental data has been collected through our HSE24 reporting system. The principle applied in defining the scope for which environmental data is collected is financial control, and leased assets are included in the reported figures.

This data is available for Metso Outotec's largest business units and has been collected from all our manufacturing units, research centers, service centers, assembly shops and warehouses with more than 50 employees. It includes energy use, water use, waste, and VOC emissions. In addition, energy data is collected from offices with more than 100 employees.

Our smallest offices, typically with fewer than 100 employees, and the smallest service centers, assembly shops and warehouses with fewer than 50 employees, are not included in the environmental reporting. This is because they are often located in large office facilities together with other companies. They typically pay a monthly lump sum to the office space providers, and therefore it is not possible to determine their specific electricity, heat or water consumption. We have estimated that the impact of these locations is not material for Metso Outotec's total figures.

Waste generated in Metso Outotec's own activities is predominantly from the production process in operational sites such as foundries, manufacturing sites, and assembly and service workshops. The largest amount of waste is generated at foundries (sand and slag) and manufacturing sites (rubber and metallic scraps). Metso Outotec has implemented several initiatives that aim to reduce waste generation in its operational sites by improving production processes as well as by developing new alternatives for recycling. Waste is mainly recycled or recovered by external companies. These companies are selected and managed by each location in accordance with Metso Outotec's and local legal requirements. Waste figures are reported in the HSE24 system bi-annually for each operational location.

Metso Outotec's internal processes do not consume large amounts of water and water is often reused and process water can be recycled. The primary water use in our own operations is for cooling water in foundries. Water discharge is measured if required by site permits.

Environmental data from Metso Outotec's project sites are excluded from the data collection process. All local subsidiaries from which the data was collected are fully owned by Metso Outotec.

The methodology of calculating the scope 3 emissions of purchased goods and services is based on Metso Outotec's spending by supplier type and country and is carried out using data supplied by the environmentally extended input-output matrices from Exiobase.

Our positive climate impact, our handprint, is based on an estimate of the emissions avoided by using Metso Outotec technologies. We have calculated the carbon dioxide (CO₂) emissions from the use of Metso Outotec technologies against the industry baseline or an alternative technology.

Social data

Employee data was collected through a global HR master data system which is based on SAP SuccessFactors.

Health and safety

Metso Outotec's global HSE24 reporting system is used to collect health and safety data and to monitor progress towards common health and safety targets across all Metso Outotec operations.

We have implemented a health and safety management system fulfilling local statutory requirements. The system also supports standards such as ISO 45001. The occupational health and safety management system and reported indicators cover employees as well as workers who are not employees but whose work or workplace is controlled by the organization.

All work-related injuries are reported, without exception, in our HSE24 reporting system. Injuries are investigated and the results are reported in the system. Injuries are reviewed with management, and the necessary corrective actions are identified during the investigation. All lost-time injuries are reviewed at least annually to identify high-consequence work-related injuries. All injuries that are reported with a consequence defined as a "lost-time injury", "restricted work", or "medical treatment" are included in recordable injuries. The type of injury is reported based on the Injury classification on the injury form for each incident. Fatalities are categorized separately.

The number of hours worked per month is estimated as headcount at the end of the month multiplied by 160 hours. Hours worked are not made public but are used only to calculate frequency rates. Where either the number or rate need to be reported, only the rate is reported so that reporting is concise. Hours for non-employees are not reported because they are business-sensitive information and would add little value to information about injury frequency rates.

Our Hazard Identification and Risk Assessment (HIRA) process is used to identify work-related hazards and to assess related risks. The quality of the HIRA process is ensured by involving local HSE staff in the process as defined in our HSE roles and responsibilities framework. Actions resulting from the HIRA process continually improve our occupational health and safety management system. All workers are also expected to report work-related hazards in our HSE24 reporting system. There is also a channel for anonymous reports of any illegal or unethical conduct.

Key performance indicators

Location of operations (2-1)

10 largest countries by personnel

	2022	2021	2020	2019
Chile	2,818	2,343	2,267	2,679
Finland	2,431	2,302	2,357	2,563
Brazil	1,630	1,603	1,503	1,368
India	1,420	1,215	1,023	1,027
China	1,013	974	978	999
United States	962	998	1,030	1,136
Australia	845	874	975	1,075
Mexico	714	526	428	454
Sweden	652	660	743	932
United Kingdom	600	526	486	517

Information on employees and non-guaranteed hours employees (2-7 and 2-8)

2022	Female	Male	Other	Total
By employment contract				
Permanent	2,693	12,288	0	14,981
Temporary	313	1,411	0	1,724
By employment type				
Full-time	2,867	13,490	0	16,357
Part-time	94	87	0	181
Non-guaranteed hours	45	122	0	167
Total	3,006	13,699	0	16,705

2022	Permanent	Temporary	Full-time	Part-time	Non-guaranteed hours	Total
By region						
Europe	5,099	316	5,141	131	143	5,415
North and Central America	2,242	31	2,244	29	0	2,273
South America	4,319	586	4,905	0	0	4,905
APAC	1,431	578	1,964	21	24	2,009
Africa, Middle East and India	1,890	213	2,103	0	0	2,103
Total	14,981	1,724	16,357	181	167	16,705

2022

Workers who are not employees	4,774
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The number of employees is reported as headcount in the end of year.

Workers who are not employees are typically used to balance temporary resource needs. These workers are typically hired by a third-party company.

Membership associations (2-28)

Metso Outotec is involved with various country specific industry, trade and expert organizations. On the national level in Finland, Metso Outotec is a member of the Federation of Finnish Technology Industries and the Confederation of Finnish Industries, and participates in issue-specific working groups.

External initiatives

Metso Outotec is a supporter of the UN Global Compact. As a supporter, we are committed to annually communicating on the UN Global Compact website how we have advanced in the development of our activities in the defined areas.

We are committed to complying with the UN Declaration of Human Rights and UN Guiding Principles on Human Rights.

Metso Outotec also supports and operates according to the principles described in the OECD Guidelines for Multinational Enterprises and the International Labor Organization's (ILO) Declaration of Fundamental Principles and Rights at Work.

Collective bargaining agreements (2-30)

Metso Outotec supports freedom of association and the right to collective bargaining for all our employees. 49% of Metso Outotec employees were covered by bargaining agreements in 2022. The percentage varied widely between regions; it was highest in Asia Pacific (88%) and lowest in Africa, Middle East and India (1%).

Terms of employment are always determined based on local laws and regulations, and if there are collective bargaining agreements in a country, these are naturally followed as well. If there are bargaining agreements in a country, but not all employee groups are included, then all the laws and regulations, as well as existing bargaining agreements are reviewed to determine the correct terms of employment accordingly.

GRI 201: ECONOMIC PERFORMANCE

Direct economic value generated and distributed (201-1)

EUR million	2022	2021	2020	2019
Customers: Sales and other income	5,295	4,236	3,319	2,819
Suppliers: Operating costs	4,132	2,598	2,231	1,749
Employees: Wages and benefits	1,056	941	686	585
Public sector: Taxes	112	92	52	66
Creditors: Interest	63	39	38	33
Communities: Sponsorships and donations	0.6	0.4	1.3	0.60
Shareholders: Payments to providers of capital	199	166	177	144
Economic value retained	-268	401	133	242

The partial demerger of Metso Corporation and combination of Metso's Minerals business and Outotec was completed on June 30, 2020. In the consolidated financial statements according to IFRS this transaction is treated as a reverse acquisition, where Metso Minerals is the accounting acquirer and Outotec the accounting acquiree. The acquisition of Outotec has been accounted for in the consolidated financial statements as business combination using the acquisition method. Outotec has been consolidated from the acquisition date 30 June 2020 onwards to the group's financial figures. For comparison year 2020 the economic data for indicator GRI 201-1 is presented accordingly.

Income taxes*, largest countries

EUR million	2022	EUR million	2021
Finland	51	Finland	22
USA	21	USA	18
Brazil	19	Brazil	13
China	17	China	9
Germany	14	Canada	8
India	8	Mexico	7
Great Britain	7	Sweden	6
Sweden	6	Australia	5
France	5	India	4
Canada	5	France	3

* presented on an accrual basis.

GRI 204: PROCUREMENT PRACTICES

Proportion of spending on local suppliers (204-1)

Our most significant operations, based on spend volume, are in China, Finland, India, Brazil, United States, Denmark, Chile, Australia, Turkey and France (75%). We define 'local supplier' as sourced from the same country as the plant or location and 'significant locations of operation' as the biggest countries for Metso Outotec procurement.

Our spending on suppliers that are local to the purchasing operations in 2022 amounted to 68% of our total supply spend.

GRI 205: ANTI-CORRUPTION

Operations assessed for risks related to corruption (205-1)

Fraud, misconduct and crime are relevant threats to Metso Outotec due to the company's global presence, various counterparties and high number of business transactions.

In 2022, Internal Audit performed 20 audits accounting for approximately 50% of Metso Outotec's annual sales in 2022. Internal Audit supported Compliance organization in Whistleblower and other investigations, facilitated internal control self-assessments and participated in various internal control development projects, for example related to the on-going ERP Business Program. The internal audits focused on the following areas: information security and access management, usage of sales third parties and key areas of internal control framework such as procurement and sales.

GRI 302: ENERGY

Energy consumption within the organization (302-1), TJ

	2022	2021	2020	2019
Direct energy consumption by fuel				
Natural gas	621	624*	551	599
Coal	0	0	0	0
Heavy fuel oil (HFO)	0	0	0	0
Diesel	22	24	49	47
Liquefied petroleum gas (LPG)	141	102	37	35
Renewable fuel	24	31*	27	0
Indirect energy consumption				
Electricity	751	743*	610	667
District heat	78	87	84	84
Steam	8	28	44	49
Total energy consumption	1,645	1,639*	1,404	1,482

* Figure restated as a result of data validation.

Cooling consumed and sold is included in the electricity. The consumption figures are calculated based on invoicing. Standard conversion factors (SI) are used in the calculations.

Reduction of energy consumption (302-4), TJ

	2022	2021	2020
Reduction of energy consumption	91	67*	9

* Figure restated as a result of data validation.

Reduction of energy consumption as a direct result of conservation and efficiency initiatives.

Reductions in energy consumption include electricity, heating, cooling, steam and fuel since baseline 2019.

GRI 303: WATER AND EFFLUENTS

Water withdrawal (303-3), 1,000 m³

	2022	2021	2020	2019
Surface water	15	30	665	926
Groundwater	104	73	50	66
Rainwater	0	0	0	0
Municipal water or other utilities	262	278	253	279
Total	381	381	968	1,271

Municipal water and other water utilities are reported by each unit based on invoicing. Groundwater and rainwater are calculated on the basis of unit records and methodologies. Some assumptions are also used.

As a result of water efficiency measures approximately 34,000 m³ of water was saved in our operations in 2022.

GRI 304: BIODIVERSITY

Significant impacts of activities, products, and services on biodiversity

Our activities have the potential to affect biodiversity, both at our manufacturing sites and indirectly through the way our equipment is used by customers.

Our equipment manufacturing sites, assembly and service workshops are mostly in industrial parks (zoned for industrial use) with limited biodiversity sensitivity, and in which the environmental permits take into account potential biodiversity and endangered species impacts.

When Metso Outotec opens new sites, we require that they are built with tight controls over their environmental impacts, and we check whether construction requires an environmental permit. In case the construction could have an impact on biodiversity, an environmental impact assessment is carried out (impacts on flora, fauna, endangered species, water management, pollution or habitat conversion).

The operations of our customers in the aggregates and mining industries typically have significant land footprints, often in environmentally sensitive areas, and land disturbance and pollution can impact habitats and species. If not properly manufactured, used, or maintained, Metso Outotec's products have the potential to harm the biodiversity surrounding our customers' plants.

To mitigate this risk, in cooperation with customers, we design products and processes to minimize the release of effluents and atmospheric emissions. Metso Outotec's technological focus in this regard is mainly on closed water loops, raw material efficiency, tailings management and emissions management systems. These have a positive impact on conserving natural habitats, reducing land-use impacts, preventing pollution and reducing groundwater consumption. It is also beneficial to customers in that it contributes to minimizing the amount of raw materials needed as inputs for operating their plants.

GRI 305: EMISSIONS

Direct (Scope 1) GHG emissions (305-1), tCO₂

	2022	2021	2020	2019
Scope 1 emissions	43,868	43,204*	36,918	39,492

* Figure restated as a result of data validation.

Calculated in accordance with the GHG protocol. GHG emissions reporting covers only CO₂.

The reported emissions are based on invoicing and converted from MWh to CO₂ emissions.

We use standard conversion factors (SI).

The source for emission factors is the IEA "CO₂ emissions from fuel combustion" 2020 edition

Indirect (Scope 2) GHG emissions (305-2), tCO₂

	2022	2021	2020	2019
Scope 2 emissions (market based)	5,076	9,186*	7,995	83,338*
Scope 2 emissions (location based)	89,951	92,343*	70,434*	78,483*

* Figure restated as a result of data validation.

Calculated in accordance with the GHG protocol. GHG emissions reporting covers only CO₂.

The reported emissions are based on invoicing and converted from MWh to CO₂ emissions.

We use standard conversion factors (SI).

The source for emission factors is the IEA "CO₂ emissions from fuel combustion" 2020 edition. In calculations for market-based emissions we used supplier-specific emission factors.

Other indirect (Scope 3) GHG emissions (305-3), tCO₂

	2022	2021	2020	2019
Purchased goods and services	843,000	635,000*	458,000*	668,000*
Fuel and energy related emissions	22,000	22,000	18,000	20,000
Upstream transportation	115,000	104,000*	98,000*	127,000*
Business travel	11,000	9,000	10,000	29,000
Downstream transportation	38,000	39,000*	36,000*	47,000*
Use of sold products	2,621,000	2,669,000	2,422,000	1,641,000

* Figure restated as a result of data validation and methodology update.

Figures rounded to the nearest thousand.

Metso Outotec conducted an analysis of all Scope 3 emission categories. Based on that analysis, six emission categories were identified: purchased goods and services, fuel- and energy-related emissions, upstream transportation, business travel, downstream transportation, and use of sold products.

Metso Outotec has assessed its Scope 3 emissions based on the GHG Protocol's Corporate Value Chain Accounting and Reporting Standard. GHG emissions reporting covers only CO₂. Metso Outotec does not have any biogenic CO₂ emissions in its operations.

Purchased goods and services Scope 3 emissions are calculated using a spend-based approach and cover direct and indirect spend. The analysis is based on the monetary value of purchased goods and services by supplier type and country, and is carried out using the environmentally extended input-output matrices from Exiobase. In 2022, our calculation methodology was revised considering spend categorization and emission factors and 2019-21 numbers were updated.

Fuel- and energy-related Scope 3 emissions include emissions that are not included in Scope 1 or Scope 2 (production of fuels and energy purchased: diesel, LPG, natural gas, electricity, steam, district heating). Coverage is 100% and the emission factor source is:

www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2016

Upstream transportation emissions are based on CO₂ data provided by logistics service providers (LSPs), the distance provided by the LSPs and gross weight. Data coverage is 60% of the total transportation spend and extrapolation is made for the remaining share. Upstream transportation CO₂ emissions take into account transportation between Tier-1 suppliers and own operations, and transportation between Metso Outotec units. During 2022, we updated the 2019 logistics CO₂ emissions baseline to account for additional logistics emissions from US deliveries that were previously excluded from the calculation. We also improved our logistics emissions calculation methodology and updated the historical figures for the period 2019-2021 to ensure consistency. This resulted in an increase in logistics CO₂ emissions for the comparison year 2021, from 97kt to 143kt. This change does not affect the logistics CO₂ emissions reduction target, which is still -20% by 2025 compared to 2019. We updated also the categorization between upstream and downstream emissions to be based on shipment level data instead of shipment count, which changed the ratio between these categories.

Metso Outotec currently monitors and reports Scope 3 emissions stemming from business travel which accounts for 99% of workforce.

Downstream transportation emissions are based on CO₂ data provided by logistics service providers (LSPs), the distance provided by the LSPs and gross weight. Data coverage is 60% of the total transportation spend and extrapolation is made for the remaining share. Downstream transportation CO₂ emissions take into account transportation of products from Metso Outotec units to customers and transportation from suppliers to customers. See above for upstream transportation emissions about revision of methodology.

Use of sold products: Equipment emissions are based on annual hours of operation and baseline operating conditions. Adjustments are made for energy sources (by country for electricity) and materials (steel, rubber, ceramic). Emissions from the use of sold products for 2022 and 2021 includes the following products: crushing equipment (Pebble Crushing, Ore Sorters, Conveyor solutions and Lokotrak®), grinding equipment (HRCe, Vertimill®, SMD, HIGmill®, AG mills, Pebble mills), separation equipment (FloatForce™ mechanism, SkimAir, Dry LIMS) and Ceramic filters. Emissions from the use of sold products for 2020 did not include Lokotrak and for 2019 it included the following products: HRC, VTM, SMD and HIGmill. The country-specific and other emission factors used were retrieved from Ecoinvent 3.8 database in 2022, Ecoinvent 3.7 database in 2021 and 2020 and from GaBi database in 2019.

Reduction of GHG emissions (305-5), tCO₂

	2022	2021	2020
Reduction of emissions, scope 1	9,156	6,335*	2,266
Reduction of emissions, scope 2	89,089	90,153*	69,809*

* Figure restated as a result of data validation.

The emissions reduction achieved is calculated on the basis of the reduction in energy consumption since baseline year 2019, based on invoicing and conversion to CO₂ emissions.

GHG emissions reporting covers only CO₂.

The reported emissions are based on invoicing and converted from MWh to CO₂ emissions.

We use standard conversion factors (SI).

The source for emission factors is the IEA "CO₂ emissions from fuel combustion" 2020 edition. In calculations for market-based emissions we used supplier-specific emission factors and 'Residual mix CO₂e emission' factors (AIB, European Residual Mixes Results of the calculation of Residual Mixes for the calendar year 2019) when needed.

Savings from renewable energy certificates and guarantees of origin are included.

Nitrogen oxides, sulfur oxides, and other significant air emissions (305-7)

	2022	2021	2020	2019
VOC emissions, (tonnes)	494	440*	331	345

* Figure restated as a result of data validation.

In 2022, SO_x emissions were 2.5 tonnes and NO_x emissions were 17 tonnes.

GRI 306: WASTE 2020

Waste by type and disposal method (306-3, 306-4, 306-5), tonnes

	2022	2021	2020	2019
Waste diverted from disposal, offsite				
Hazardous				
Preparation for reuse	0	0	0	0
Recycling	609	470*	976	606
Other recovery operations	0	0	0	0
Total	609	470	976	606
Non-hazardous				
Preparation for reuse	0	0	0	0
Recycling	76,846	77,871*	47,406	36,204*
Other recovery operations	0	0	0	0
Total	76,846	77,871	47,406	36,204
Total Waste diverted from disposal, offsite	77,455	78,341	48,382	36,810
Waste directed to disposal, offsite				
Hazardous				
Incineration (with energy recovery)	1,309	1,284*	487*	144
Incineration (without energy recovery)	153	152*	77*	183
Landfilling	88	109	159	3,395
Other disposal operations	0	0	0	0
Total	1,550	1,545	723	3,722
Non-hazardous				
Incineration (with energy recovery)	3,760	3,045*	1,526	2,252
Incineration (without energy recovery)	40	39*	15	4
Landfilling	3,378	5,631*	14,030	20,979
Other disposal operations	0	0	0	0
Total	7,178	8,715	15,571	23,235
Total Waste directed to disposal, offsite	8,728	10,260	16,294	26,957
Waste diverted from disposal (306-4)	77,455	78,341*	48,382	36,810*
Waste directed to disposal (306-5)	8,728	10,260*	16,294	26,957

* Figure restated as a result of data validation.

The waste disposal method has been determined based on information provided by the waste disposal contractor. Reuse and onsite storage are not significant in Metso Outotec's operations.

There were no significant spills in 2022, 2021, 2020 or 2019.

GRI 401: EMPLOYMENT

New employee hires and employee turnover (401-1)

Employment 2022

Category	Indicator	Number of new hires	% of total no. of new hires	New hire rate %
New hires by age group	<30	1,732	36%	67%
	30–50	2,625	55%	25%
	>50	415	9%	12%
New hires by gender	Female	874	18%	29%
	Male	3,898	82%	28%
	Other	-	-	-
New hires by region	Europe	1,080	23%	20%
	North and Central America	666	14%	29%
	South America	2,242	47%	46%
	APAC	332	7%	17%
	Africa, Middle East and India	452	9%	21%
Total new hires	Total	4,772		29%

Category	Indicator	Number of leavers	% of total no. of leavers	Turnover rate %
Leavers by age group	<30	947	26%	36%
	30–50	2,150	58%	20%
	>50	583	16%	16%
Leavers by gender	Female	639	17%	21%
	Male	3,040	83%	22%
	Other	1	0%	-
Leavers by region	Europe	1,045	28%	19%
	North and Central America	455	12%	20%
	South America	1,655	45%	34%
	APAC	310	8%	15%
	Africa, Middle East and India	215	6%	10%
Total leavers	Total	3,680		22%

Total number and rate of new employee hires during the reporting period, by age group, gender and region. Total number and rate of employee turnover during the reporting period, by age group, gender and region. Divestments and acquisitions excluded. Employee can retain a right to not inform gender.

		Female	Male	Other
New hires by job level	Blue collar	143	2,434	-
	Professional	723	1,376	-
	Middle management	7	85	-
	Senior management	1	3	-
Leavers by job level	Blue collar	64	1,854	-
	Professional	30	140	-
	Middle management	543	1,029	1
	Senior management	2	17	-

Parental leave (401-3)

At Metso Outotec we comply with the local regulations regarding the parental leave practices and in some countries, such as Australia, we offer benefits that exceed the minimum regulations.

In 2022, Metso Outotec Australia revised its parental leave policy to reflect the company's commitment to Diversity and inclusion. The parental leave benefit in Metso Outotec Australia is gender neutral, allowing employees of any gender to take Primary Care Giver Leave. Not only does the policy give both parents the equal opportunity to take time off to care for their child, it also addresses the pay gap that results from it. We also believe that by supporting the gender-neutral parental leave system, more women would return to work full-time after parental leave.

GRI 402: LABOR/MANAGEMENT RELATIONS

Minimum notice periods regarding operational changes (402-1)

Notice periods and the time period for the consultation process related to operational changes vary by country and region.

Minimum notice periods are based on the local labor legislation of each country we operate in.

GRI 403: OCCUPATIONAL HEALTH AND SAFETY

Work-related injuries (403-9)

OWN EMPLOYEES

		2022	2021	2020	2019
Fatalities	Number of fatalities	0	1	0	0
		2022	2021	2020	2019
High-consequence injury rate					
By region	Europe	0.0	0.2	0.1	0.4
	North and Central America	0.0	0.0	0.0	0.3
	South America	0.0	0.0	0.1	0.0
	Asia-Pacific	0.0	0.5	0.3*	0.2
	Africa, Middle East and India	0.3	0.0	0.0	0.3
	Total	0.0	0.1	0.1	0.3

* Figure restated as a result of data validation.

High-consequence injury rate reflects the number of high-consequence injuries per million hours worked. High-consequence injuries exclude fatalities but include injuries from which the worker cannot recover, or does not or is not expected to recover fully to pre-injury health status within 6 months. High-consequence injury rate does not include fatalities.

403-9-c: Based on the history of high-consequence injuries, hazards that pose a risk of high-consequence injury include contact with moving machinery, handling of heavy objects, fall from height, exposure to hot material, and road travel.

Actions taken to minimize related risks include observing, installing guarding on machinery, designing improved lifting tools, installing railings on working platforms, improved vehicle safety, and training employees on safe work methods.

		2022	2021	2020	2019
Lost time injury frequency					
By region	Europe	1.5	1.8*	1.8*	1.8
	North and Central America	1.2	0.3	1.0	1.4*
	South America	0.7	0.8	0.9	1.1
	Asia-Pacific	0.3	0.5	1.0	1.0
	Africa, Middle East and India	1.1	0.3	0.6	1.8
	Total	1.1	1.0	1.2*	1.5

* Figure restated as a result of data validation.

Lost time incident frequency (LTIF) reflects the number of injuries resulting in an absence of at least one workday per million hours worked.

		2022	2021	2020	2019
Recordable injury rate					
By region	Europe	2.7	3.3	4.7*	4.0*
	North and Central America	5.4	5.5*	4.4	4.7*
	South America	1.5	1.3	1.8	2.6
	Asia-Pacific	1.8	4.2*	5.8*	6.7
	Africa, Middle East and India	1.8	1.5	2.0	6.3
	Total	2.5	3.0*	3.7	4.5

* Figure restated as a result of data validation.

Includes lost time, restricted work, and medical treatment incidents.

		2022	2021	2020	2019
Injury rate					
By region	Europe	12.0	15.5*	15.1*	17.4*
	North and Central America	15.8	9.1*	11.3*	15.4*
	South America	5.6	4.0	4.1*	5.1
	Asia-Pacific	9.7	16.3	21.0*	41.8*
	Africa, Middle East and India	4.7	5.9*	6.9	20.2
	Total	9.6	10.6*	11.5*	18.4*

* Figure restated as a result of data validation.

Includes lost time, restricted work, medical treatment and first-aid incidents.

403-9-d: Actions taken to minimize risks from hazards related to other than high-consequence injuries include the introduction of safer tools and work methods, additional training, and improved personal protective equipment.

		2022	2021	2020	2019
Types of Injury	Superficial injuries and open wounds	66%	60%	55%*	52%
	Dislocations, sprains and strains	6%	8%*	9%*	8%
	Burns, corrosions, scalds and frostbite	6%	5%	6%*	7%*
	Fractures	7%	5%	5%*	3%
	Concussions and internal injuries	5%	5%*	2%	3%
	Traumatic amputations	1%	1%	0%	0%
	Acute poisonings and infections	1%	2%	2%	1%
	Other specified types of injury	0%	5%	3%	3%
	Unspecified	9%	11%	18%*	24%
	Total	100%	100%	100%	100%

* Figure restated as a result of data validation.

According to ILO classification, % of total injuries.

		2022	2021	2020	2019
Risk observation frequency					
By region	Europe	1,187	1,388*	1,326*	786*
	North and Central America	2,405	2,514*	1,981*	1,423*
	South America	6,410	6,682*	5,105*	1,784*
	Asia-Pacific	2,863	3,193*	4,650*	4,580*
	Africa, Middle East and India	2,758	3,330*	2,555*	2,305*
	Total	3,182	3,400*	3,000*	1,860*

* Figure restated as a result of data validation.

Includes risk observations.

		2022	2021	2020	2019
Near miss frequency					
By region	Europe	75	73*	61*	53*
	North and Central America	29	46	49*	57*
	South America	22	23	41*	17
	Asia-Pacific	24	35	24	35
	Africa, Middle East and India	53	76	52	102
	Total	46	52*	48	50*

* Figure restated as a result of data validation.

Includes near misses.

NON-METSO OUTOTEC EMPLOYEES – CONTRACTORS AND SUPERVISED WORKERS

		2022	2021	2020	2019
Fatalities	Number of fatalities	0	0	0	0
		2022	2021	2020	2019
High consequence injury rate					
By region	Europe	0.0	0.0	0.0	0.0
	North and Central America	0.0	0.0	0.0	0.0
	South America	0.0	0.6*	0.0	0.6
	Asia-Pacific	0.0	0.0	0.0	0.0
	Africa, Middle East and India	0.0	0.0	0.0	0.0
	Total	0.0	0.1	0.0	0.1

High-consequence injury rate reflects the number of high-consequence injuries per million hours worked. High-consequence injuries exclude fatalities but include injuries from which the worker cannot recover, or does not or is not expected to recover fully to pre-injury health status within 6 months. High-consequence injury rate does not include fatalities.

		2022	2021	2020	2019
Lost time incident frequency					
By region	Europe	2.5	1.6*	1.9*	0.0
	North and Central America	0	7.1*	0.0	0.0
	South America	2.8	4.4*	3.7	3.5
	Asia-Pacific	0	0.0	3.9	1.6
	Africa, Middle East and India	0.8	0.6*	1.7	0.9
	Total	1.5	1.8*	2.2*	1.2

Lost time incident frequency (LTIF) reflects the number of injuries resulting in an absence of at least one workday per million hours worked.

		2022	2021	2020	2019
Recordable injury rate					
By region	Europe	7.0	4.0*	4.6*	1.5
	North and Central America	13.3	7.1*	14.3	6.1
	South America	5.0	6.3*	7.4	6.5
	Asia-Pacific	9.4	17.7*	5.9	6.3
	Africa, Middle East and India	1.0	2.5*	2.4	2.7
	Total	3.7	4.6*	4.3*	3.5

Includes lost time, restricted work, and medical treatment incidents.

		2022	2021	2020	2019
Injury rate					
By region	Europe	11.4	7.6*	6.9*	6.4
	North and Central America	53.3	21.3*	23.9	24.5
	South America	13.5	11.3*	13.4	10.0
	Asia-Pacific	18.8	37.8*	23.6	38.0
	Africa, Middle East and India	4.8	5.4*	3.2	6.3
	Total	9.6	9.3*	7.5*	10.1

Includes lost time, restricted work, medical treatment and first aid incidents.

		2022	2021	2020	2019
Types of Injury	Superficial injuries and open wounds	55%	62%*	55%	58%
	Dislocations, sprains and strains	8%	10%	3%	2%
	Burns, corrosions, scalds and frostbite	7%	3%	1%	2%
	Fractures	13%	11%*	16%	6%
	Concussions and internal injuries	2%	4%	3%	3%
	Traumatic amputations	2%	0%	0%	0%
	Acute poisonings and infections	2%	1%	0%	1%
	Other specified types of injury	2%	0%	3%	1%
	Unspecified	10%	10%	20%	26%
	Total	100%	100%	100%	100%

* Figure restated as a result of data validation.

According to ILO classification, % of total injuries.

Data is collected from all worldwide locations and it covers all Metso Outotec operations, including employees and other workers whose work or workplace is controlled by Metso Outotec.

Newly acquired operations are integrated into reporting within a year of the date acquired.

Rates for employees have been calculated based on estimated hours worked.

Rates for non-employee workers have been calculated based on monitored hours worked.

Rates have been calculated per million hours worked.

Omissions: Number of injuries is not reported where rate is used. Hours are not reported.

Workers covered by an occupational health and safety management system (403-8)

	Number of employees and external workers	%
Covered by health and safety management system	21,479	100%
Covered by such a system that has been internally audited	21,479	100%
Covered by such a system that has been audited or certified by an external party	9,666	45%

GRI 404: TRAINING AND EDUCATION

Average hours of training per year per employee (404-1)

Category	Average hours	
By gender	Female	5.07
	Male	5.34
	Other	-
By employee category	Blue collar	2.85
	Professional	6.84
	Middle management	5.38
	Senior management	4.10
Total average hours	5.29	

Includes global mandatory trainings and eLearnings

Training and Education (404-3)

Percentage of employees receiving regular performance and career development reviews: 95%.

Category	%	
By gender	Female	95%
	Male	95%
	Other	-
By employee category	Professional	94%
	Middle management	97%
	Senior management	99%

Includes only white collar employees.

GRI 405: DIVERSITY AND EQUAL OPPORTUNITY

Diversity of governance bodies and employees (405-1)

Diversity of governance bodies

	Indicator	2022	2021	2020	2019 (Metso)	2019 (Outotec)	
Board of Directors	By gender						
	Female	33%	29%	30%	25%	50%	
	Male	67%	71%	70%	75%	50%	
	By age group						
	<30	0%	0%	0%	0%	0%	
	30-50	0%	0%	0%	13%	13%	
	>50	100%	100%	100%	88%	88%	
	Executive Team	By gender					
		Female	44%	40%	36%	18%	30%
Male		56%	60%	64%	82%	70%	
By age group							
<30		0%	0%	0%	0%	0%	
30-50		56%	50%	36%	55%	50%	
>50		44%	50%	64%	45%	50%	

Diversity of employees

	Indicator	2022		2021	
Employee category		White-collar	Blue-collar	White-collar	Blue-collar
By gender	Female	26%	4%	25%	3%
	Male	74%	96%	75%	97%
	Other	0%	0%		
By age group	<30	14%	19%	13%	17%
	30-50	63%	64%	63%	65%
	>50	24%	17%	24%	18%
	Total	10,826	5,879	10,356	5,274

Ratio of basic salary and remuneration of women to men (405-2)

	Blue collar	Professional	Middle management	Senior management
Chile	0.78 : 1	0.66 : 1	0.94 : 1	-
Finland	0.96 : 1	0.95 : 1	0.98 : 1	1:1
Brazil	0.71 : 1	0.74 : 1	0.99 : 1	-
India	-	1.01 : 1	-	-
China	0.78 : 1	0.78 : 1	1.13 : 1	-

Ratio is not provided if number of employees is small.

Chile, Finland, Brazil, India and China are the top 5 biggest countries. They represent about 55% of company's total headcount.

GRI 406: NON-DISCRIMINATION

Incidents of discrimination and corrective actions taken (406-1)

There were no incidents of discrimination reported in 2022.

METSO OUTOTEC INDICATORS

Metso Outotec topic: Sustainability targets set in R&D projects

	2022	2021	2020
% of R&D spend on projects with sustainability targets	99.7%	95%	91%

Sustainability targets include environmental efficiency improvements and safety improvements. The figures reported for 2022 and 2021 are % of R&D spend on projects with sustainability targets, whereas the 2020 figure is % of the projects with sustainability targets. Therefore these are not directly comparable.

Metso Outotec topic: Supplier sustainability audits

	2022	2021	2020	2019
Number of supplier sustainability audits	131	152	142	160

In addition to third-party supplier sustainability audits (15), Metso Outotec also conducted 116 internal supplier sustainability audits in 2022.

Metso Outotec topic: Community engagement

	2022
Support for non-profit organizations (EUR)	635,377
Environmental protection and conservation	3%
Health and social programs	56%
Natural disasters	2%
Other	39%

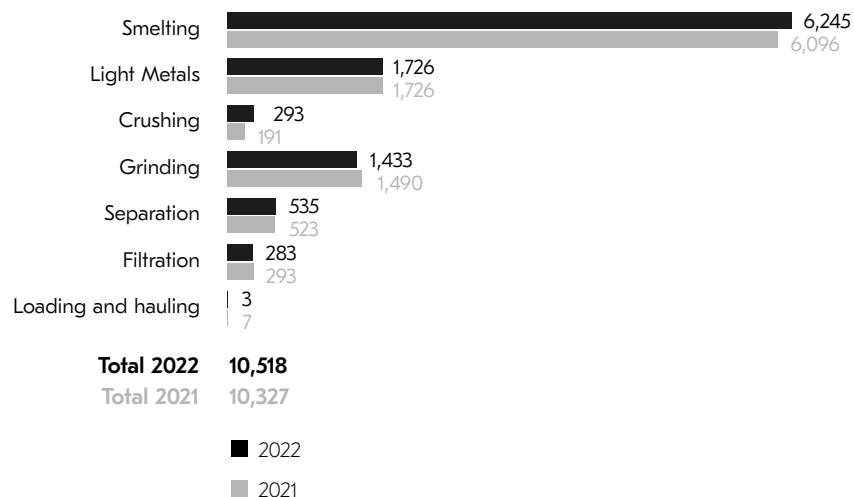
Metso Outotec topic: Planet Positive sales

	2022	2021
Planet Positive sales (EUR million)	1,338	886*

*The Planet Positive sales figure (EUR 592 million) reported in the 2021 Annual Report included only equipment and consumables sales; the figure now includes also services.

Metso Outotec topic: Handprint (Reductions in CO₂ emissions of products and services)

CO₂ emissions avoided (thousand tonnes) 2022



Smelting and Light metals:

The handprint for ferrochrome process, copper flash smelting, nickel advisor, alumina calcination and hot tube digestion is measured by the emissions avoided by using these technologies. These technologies are measured against industry baselines and the actual saved emissions depend on the annual production volumes. For Nickel Advisor the benchmark is the same process operated without the tool. The country specific and other emission factors used were retrieved from Ecoinvent 3.8 database.

Other products:

The handprint of crushing products (pebble crushing, ore sorters, conveyor solutions and Lokotrack®), grinding products (HRCe, Vertimill®, SMD, HIGmill®, Autogenous and pebble mills), mineral separation (FloatForce™ mechanism, SkimAir®, dry LIMS) and dewatering (ceramic filters) as well as Truck Body is measured by the CO₂ equivalent emissions avoided by using these technologies. Each of these technologies is measured against a common alternative baseline technology annually. Emission reductions are based on energy savings. In the case of Vertimill®, SMD, HIGmill®, Autogenous and pebble mills, there are also reductions in embedded energy related to consumables, such media, and /or wear items such as liners. The country specific and other emission factors used were retrieved from the Ecoinvent 3.8 database. Emissions factors were used for embedded energy from steel, rubber and ceramics in consumables and wear items.

The emissions are indicated in CO₂ equivalents. The country specific and other emission factors used were retrieved from Ecoinvent 3.8 database.

Smelting includes copper flash smelting, ferrochrome process and nickel advisor. Light metals includes alumina calcination and hot tube digestion. Crushing includes pebble crushing, ore sorters, conveyor solutions and Lokotrack®. Grinding includes HRCe, Vertimill®, SMD, HIGmill®, AG, and pebble mills. Separation includes FloatForce™ mechanism, SkimAir, dry LIMS. Filtration includes ceramic filters. Loading and hauling includes Metso Outotec Truck Body.

GRI Content Index

Abbreviations

BO Business overview
FR Financial review
CG Corporate governance
GRI GRI supplement
RR Remuneration report

Abbreviations

UNGC United Nations Global Compact
SDG Sustainable Development Goals
KPI Key performance indicators section

General disclosures

GRI standard/ other source	Disclosure	Location	Additional information / Omission	Cross-reference UNGC SDG	Information assured
GRI 2: General Disclosures 2021	2-1 Organizational details	Location of operations: Metso Outotec in brief, BO, p. 5 FR, p. 76 Key performance indicators, GRI, p. 10	Metso Outotec Corporation, Location: Helsinki, Finland Metso Outotec Corporation is a public company and its shares are listed on the Nasdaq Helsinki		
	2-2 Entities included in the organization's sustainability reporting	FR, p. 76	All Group companies are included in the reporting.		
	2-3 Reporting period, frequency and contact point		January 1, 2022–December 31, 2022 (same for sustainability and financial data) Reporting cycle: Annual Reporting contact: safu.man@mogroup.com Date of most recent report: Metso Outotec's GRI Supplement 2021 was published in March 2022.		
	2-4 Restatements of information		Possible restatements have been indicated in the report.		
	2-5 External assurance	About this GRI Supplement, GRI, p. 4 Assurance Statement, GRI, p. 31	This report has been externally assured by PwC.		
	2-6 Activities, value chain and other business relationships	Metso Outotec in brief, BO, p. 5 Strategy, BO, p. 9 Responsible Procurement, BO, p. 38		SDG 12	
	2-7 Employees	Key performance indicators, GRI, p. 10	The share of the organization's activities performed by workers who are not Metso Outotec employees is not significant. Metso Outotec did not have any significant variations in employment numbers during the reporting period. Employee data has been compiled from Metso Outotec's global HR information system.	UNGC Principle 6 SDG 8	✓
	2-8 Workers who are not employees	Key performance indicators, GRI, p. 10			✓
	2-9 Governance structure and composition	CG, p. 5 Sustainability governance, GRI, p. 5			
	2-10 Nomination and selection of the highest governance body	Shareholder's Nomination Board CG p. 6	Factors considered included in the Corporate governance statement.		
	2-11 Chair of the highest governance body	Metso Outotec Board of Directors CG p. 6			
	2-12 Role of the highest governance body in overseeing the management of impacts	Board and Board committees, CG, p. 7 TCFD, BO p. 39			
	2-13 Delegation of responsibility for managing impacts	Metso Outotec's governance structure, CG, p. 5 TCFD, BO p. 39			
	2-14 Role of the highest governance body in sustainability reporting	Sustainability governance, GRI, p. 5 TCFD, BO p. 39			
	2-15 Conflicts of interest	Insider transactions, CG p. 15			

GRI standard/ other source	Disclosure	Location	Additional information / Omission	Cross-reference UNGC SDG	Information assured
2-16	Communication of critical concerns	Internal controls, CG p. 13			
2-17	Collective knowledge of the highest governance body	Sustainability governance, GRI, p. 5 Diversity of the Board, CG, p. 9			
2-18	Evaluation of the performance of the highest governance body	Board Charter section 9: https://www.mogroup.com/globalassets/investors/board/metso-outotec-board-charter.pdf Board and Board committees, CG, p. 7			
2-19	Remuneration policies	Metso Outotec's Board composition and remuneration, CG p. 18 Board remuneration, FR p. 40 Remuneration of the Board of Directors, RR p. 8			
2-20	Process to determine remuneration	Remuneration and Company performance, RR p. 6			
2-21	Annual total compensation ratio	Remuneration and Company performance, RR p. 6			
2-22	Statement on sustainable development strategy	From the CEO, BO, p. 6			
2-23	Policy commitments	Responsible and trusted partner, BO, p. 31 Compliance management and Code of Conduct, CG p. 11 Statement of non-financial information, FR p. 12-21 Key performance indicators, GRI, p. 10 Management approach disclosure, GRI, p. 27 Code of conduct and human rights, BO, p. 38	https://www.mogroup.com/globalassets/sustainability/metso-outotec-code-of-conduct.pdf https://www.mogroup.com/globalassets/sustainability/ethics-and-compliance/brochure-human_rights_policyy-4841-01-23-en-grp-210x280-4th_draft.pdf	UNGC Principle 10 SDG 8	
2-24	Embedding policy commitments	Key performance indicators, GRI, p. 10 Statement of non-financial information, FR p. 12-21 Responsible procurement ensures sustainable cooperation, BO p. 38 Management approach disclosure, GRI, p. 27 Code of Conduct and human rights, BO, p. 38			
2-25	Processes to remediate negative impacts	We aim for net zero and decarbonization of our industries, BO p. 37 Responsible and trusted partner, BO p. 31 Statement of non-financial information, FR p. 12-21 Management approach disclosure, GRI, p. 27 Code of conduct and human rights, BO, p. 38	Only partial information reported. Omission: Information unavailable (c,d and e). Information collection is starting during 2023.		
2-26	Mechanisms for seeking advice and raising concerns	CG, p. 14 Statement of non-financial information, FR p. 20		UNGC Principle 10 SDG 8	
2-27	Compliance with laws and regulations		No significant instances of non-compliance with laws and regulations during the reporting period.		
2-28	Membership associations	Membership in associations, GRI, p. 10			
2-29	Approach to stakeholder engagement	Metso Outotec's stakeholders, GRI, p. 6 Sustainability, BO, p. 20			
2-30	Collective bargaining agreements	Key performance indicators, GRI, p. 10		UNGC Principle 3	✓

Material topics

GRI standard/other source	Disclosure	Location	Additional information / Omission	Cross-reference UNGC SDG	Information assured
GRI 3: Material Topics 2021	3-1 Process to determine material topics 3-2 List of material topics	About this GRI Supplement, GRI, p. 4 Sustainability, BO, p. 20 Management Approach Disclosures, GRI, p. 27			
Economic performance					
GRI 201: Economic Performance 2016	201-1 Direct economic value generated and distributed 201-2 Financial implications and other risks and opportunities due to climate change	Key performance indicators, GRI, p. 11 Task force on climate-related financial disclosure, BO, p. 39–42		SDG 8, 9 SDG 13	✓ ✓
Procurement practices					
GRI 204: Procurement Practices 2016	204-1 Proportion of spending on local suppliers	Key performance indicators, GRI, p. 11		SDG 12	✓
Anti-corruption					
GRI 205: Anti-corruption 2016	205-1 Operations assessed for risks related to corruption	Key performance indicators, GRI, p. 11		UNGC Principle 10 SDG 8	✓
Energy					
GRI 302: Energy 2016	302-1 Energy consumption within the organization 302-4 Reduction of energy consumption	Key performance indicators, GRI, p. 12 Aiming for a smaller environmental footprint, BO, p. 36 Key performance indicators, GRI, p. 12		UNGC Principle 7 SDG 8, 12, 13 UNGC Principles 7, 8, 9 SDG 8, 12, 13	✓ ✓
Water and effluents					
GRI 303: Water and Effluents 2018	303-1 Interactions with water as a shared resource 303-2 Management of water discharge-related impacts 303-3 Water withdrawal	Aiming for a smaller environmental footprint, BO, p. 36 Reporting principles, GRI p. 9 Aiming for a smaller environmental footprint, BO, p. 36 Reporting principles, GRI p. 9 Aiming for a smaller environmental footprint, BO, p. 36 Key performance indicators, GRI, p. 12	Omission: water withdrawal from areas with water stress not reported.	UNGC Principles 7, 9 SDG 6 UNGC Principles 7, 9 SDG 6 UNGC Principles 7, 9 SDG 6	✓ ✓ ✓
Biodiversity					
GRI 304: Biodiversity 2016	304-2 Significant impacts of activities, products and services on biodiversity	Key performance indicators, GRI, p. 12	Omission: Only qualitative information reported.		✓
Emissions					
GRI 305: Emissions 2016	305-1 Direct (Scope 1) GHG emissions 305-2 Energy indirect (Scope 2) GHG emissions 305-3 Other indirect (Scope 3) GHG emissions	Our annual sustainability performance, targets and long-term goals, BO, p. 22 Key performance indicators, GRI, p. 13 Our annual sustainability performance, targets and long-term goals, BO, p. 22 Key performance indicators, GRI, p. 13 Our annual sustainability performance, targets and long-term goals, BO, p. 22 Key performance indicators, GRI, p. 13		UNGC Principle 7 SDG 12, 13 UNGC Principle 7 SDG 12, 13 UNGC Principle 7 SDG 12, 13	✓ ✓ ✓

GRI standard/other source	Disclosure	Location	Additional information / Omission	Cross-reference UNGC SDG	Information assured
	305-5 Reduction of GHG emissions	Aiming for a smaller environmental footprint, BO, p. 36 Key performance indicators, GRI, p. 14		UNGC Principles 7, 9 SDG 13	✓
	305-7 Nitrogen oxides (NOx), sulfur oxides (SOx), and other significant air emissions	Key performance indicators, GRI, p. 14			✓
Waste					
GRI 306: Waste 2020	306-1 Waste generation and significant waste-related impacts	Reporting principles, GRI p. 9		UNGC Principle 7 SDG 6, 12	✓
	306-2 Management of significant waste-related impacts	Reporting principles, GRI, p. 9		UNGC Principle 7 SDG 6, 12	✓
	306-3 Waste generated	Key performance indicators, GRI, p. 14		UNGC Principle 7 SDG 6, 12	✓
	306-4 Waste diverted from disposal	Key performance indicators, GRI, p. 14		UNGC Principle 7 SDG 6, 12	✓
	306-5 Waste directed to disposal	Key performance indicators, GRI, p. 14		UNGC Principle 7 SDG 6, 12	✓
Employment					
GRI 401: Employment 2016	401-1 New employee hires and employee turnover	Key performance indicators, GRI, p. 15		UNGC Principles 3, 6 SDG 8	✓
	401-3 Parental leave	Key performance indicators, GRI, p. 15	Omission: Only qualitative information reported and GRI 401-3 requirements not met.		✓
Labor/management relations					
GRI 402: Labor/Management Relations 2016	402-1 Minimum notice periods regarding operational changes	Key performance indicators, GRI, p. 15		UNGC Principles 3, 6 SDG 8	✓
Occupational health and safety					
GRI 403: Occupational Health and Safety 2018	403-1 Occupational health and safety management system	Reporting principles, GRI, p. 9		UNGC Principle 6 SDG 8	✓
	403-2 Hazard identification, risk assessment, and incident investigation	We aim for zero harm, BO, p. 31 Reporting principles, GRI, p. 9		UNGC Principle 6 SDG 8	✓
	403-3 Occupational health services	Reporting principles, GRI, p. 9		UNGC Principle 6 SDG 8	✓
	403-4 Worker participation, consultation, and communication on occupational health and safety	Reporting principles, GRI, p. 9	Omission: Qualitative information only partially reported.	UNGC Principle 6 SDG 8	✓
	403-5 Worker training on occupational health and safety	Statement of non-financial information, FR p. 18-19	H&S training hours in 2022 were 421,000 hours.	UNGC Principle 6 SDG 8	✓
	403-6 Promotion of worker health	Our people and culture, BO, p. 34		UNGC Principle 6 SDG 8	✓
	403-7 Prevention and mitigation of occupational health and safety impacts directly linked by business relationships	Reporting principles, GRI, p. 9 We aim for zero harm, BO, p. 31		UNGC Principle 6 SDG 8	✓
	403-8 Workers covered by an occupational health and safety management system	Key performance indicators, GRI, p. 19		UNGC Principle 6 SDG 8	✓
	403-9 Work-related injuries	We aim for zero harm, BO, p. 31 Key performance indicators, GRI, p. 15-18		UNGC Principle 6 SDG 8	✓

GRI standard/other source	Disclosure	Location	Additional information / Omission	Cross-reference UNGC SDG	Information assured
Training and education					
GRI 404: Training and Education 2016	404-1 Average hours of training per year per employee	Key performance indicators, GRI, p. 19		UNGC Principle 6 SDG 8	✓
	404-3 Percentage of employees receiving regular performance and career development reviews	Key performance indicators, GRI, p. 19	Not reported by gender or employee category.	UNGC Principle 6 SDG 8	✓
Diversity and equal opportunity					
GRI 405: Diversity and Equal Opportunity 2016	405-1 Diversity of governance bodies and employees	Key performance indicators, GRI, p. 19		UNGC Principle 6 SDG 8	✓
	405-2 Ratio of basic salary and remuneration of women to men	Key performance indicators, GRI, p. 20		UNGC Principle 6 SDG 8	✓
Non-discrimination					
GRI 406: Non-discrimination 2016	406-1 Incidents of discrimination and corrective actions taken	Key performance indicators, GRI, p. 20		UNGC Principles 1, 2, 6	✓
Customer health and safety					
GRI 416: Customer Health and Safety 2016	416-1 Assessment of the health and safety impacts of product and service categories	Planet Positive offering and innovations, BO, p. 25		SDG 12	✓
	416-2 Incidents of non-compliance concerning the health and safety impacts of products and services	No fines were imposed in relation to non-compliance with laws and regulations or voluntary codes regarding the use of Metso Outotec products.			✓

Metso Outotec topics

Material topic	Disclosure	Location	Cross-reference UNGC SDG	Information assured
Metso Outotec topic: Sustainability targets set in R&D projects	Percentage of R&D projects that include a sustainability target	Key performance indicators, GRI, p. 20	SDG 6, 12, 13	✓
Metso Outotec topic: Supplier sustainability	Number of supplier sustainability audits Suppliers' SBT CO ₂ emission targets	Key performance indicators, GRI, p. 20 Responsible procurement ensures sustainable cooperation, BO p. 38	UNGC Principle 4, 5 SDG 12	✓
Metso Outotec topic: Community engagement	Support for non-profit organizations (EUR)	Key performance indicators, GRI, p. 20		✓
Metso Outotec topic: Handprint	CO ₂ emissions avoided using Metso Outotec's technologies	Planet Positive offering and innovations, BO, p. 26 Key performance indicators, GRI, p. 21	SDG 13	✓
Metso Outotec topic: Planet Positive	Planet Positive sales	Planet Positive offering and innovations, BO, p. 25 Key performance indicators, GRI, p. 20	SDG 9	✓
Metso Outotec topic: Employee engagement and satisfaction	Employee engagement index	Our people and culture, BO, p. 35	SDG 8	✓
Metso Outotec topic: Code of Conduct training	Code of Conduct training participation rate	Code of conduct and human rights, BO, p. 38	UNGC Principle 1	✓

Management Approach Disclosures

Economic	
	Description/Reference
GRI Material Topic	GRI 201: Economic performance 2016, GRI 204 Procurement practices
Key topics for our management approach	Value creation, Sustainable productivity, R&D, innovation, Customer engagement, Responsible business practices, Responsible procurement
Targets	Our annual sustainability targets and long-term goals, BO, p. 22; Responsible procurement ensures sustainable cooperation, BO, p. 38
Policies, processes, management model	Metso Outotec Code of Conduct, Sustainability criteria for suppliers, Anti-corruption Policy, Misconduct Policy, Intellectual Property Policy, Brand Policy
Monitoring the effectiveness of our approach – Specific actions and results	Our annual sustainability performance, targets and long-term goals, BO, p. 22 Responsible procurement ensures sustainable cooperation, BO, p. 38 Stakeholder engagement, GRI, p. 6 Planet Positive offering and innovations, BO, p. 23
Disclosures	201-1, 201-2, 204-1, Metso Outotec indicator: Supplier sustainability audits; Metso Outotec indicator: Sustainability targets set in R&D projects
Topic boundary	External impacts within our value chain, Metso Outotec indicator. Internal and external impacts within our value chain Relevant entities: customers, communities, authorities, suppliers and NGOs.
Environmental	
	Description/Reference
GRI Material Topic	GRI 201: Economic performance, GRI 302: Energy 2016, GRI 303: Water and Effluents 2018, GRI 305: Emissions 2016, GRI 306: Waste 2020
Key topics for our management approach	Environmental efficiency of Metso Outotec's operations
Targets	Sustainability, BO, p. 21
Policies, processes, management model	Sustainability, BO, p. 21; Statement of non-financial information, FR, p. 12-21
Monitoring the effectiveness of our approach – Specific actions and results	Sustainability, BO, p. 21 Planet Positive offering and innovations, BO, p. 23
Disclosures	201-2, 302-1, 302-4, 303-1, 303-2, 303-3, 304-2, 305-1, 305-2, 305-3, 305-5, 305-7, 306-1, 306-2, 306-3, 306-4, 306-5, Metso Outotec indicators: Handprint and Planet Positive
Topic boundary	Internal impacts in our own operations. 304-2, 305-3, external impacts within our value chain. Relevant entities: customers, communities, authorities, suppliers and NGOs

Labor practices and decent work

	Description/Reference
GRI Material Topic	GRI 401: Employment 2016, GRI 402: Labor/Management Relations 2016, GRI 403: Occupational Health and Safety 2018, GRI 404: Training and Education 2016, GRI 405: Diversity and Equal Opportunity 2016, GRI 406: Non-discrimination
Key topics for our management approach	Metso Outotec Code of Conduct, Human Rights in the value chain, Safe working environment, Responsible procurement
Targets	Sustainability, BO, p. 21
Policies, processes, management model	Our people and culture, BO, p. 32; Statement of non-financial information, FR, p. 12-21; Metso Outotec Code of Conduct, QEHS Policy, QEHS Management, Metso Outotec Supplier Code of Conduct, Reporting Principles, BO, p. 9
Monitoring the effectiveness of our approach – Specific actions and results	Our people and culture, BO, p. 32; Key performance indicators, GRI, p. 10; Reporting Principles, GRI, p. 9
Disclosures	401-1, 401-3, 402-1, 403-1, 403-2, 403-3, 403-4, 403-5, 403-6, 403-7, 403-8, 403-9, 404-1, 404-3, 405-1, 405-2, 406-1, Metso Outotec indicator: Employee engagement and satisfaction
Topic boundary	Internal impacts Relevant external entities: suppliers, contractors, communities, government, NGOs and customers.

Human rights

	Description/Reference
GRI Material Topic	GRI 406: Non-discrimination 2016
Key topics for our management approach	Metso Outotec Code of Conduct, Human rights in the value chain, Responsible procurement ensures sustainable cooperation
Targets	Sustainability, BO, p. 21
Policies, processes, management model	Our people and culture, BO, p. 32; Statement of non-financial information, FR, p. 12-21, Metso Outotec Supplier Code of Conduct
Monitoring the effectiveness of our approach – Specific actions and results	Statement of non-financial information, FR, p. 12-21, Code of conduct and human rights, BO, p. 38
Disclosures	406-1
Topic boundary	Internal impacts within our operations Relevant external entities: suppliers, contractors, communities, government and NGOs.

Society

	Description/Reference
GRI Material Topic	GRI 205: Anti-corruption 2016
Key topics for our management approach	Metso Outotec Code of Conduct, Anti-corruption
Targets	Sustainability, BO, p. 21, Our people and culture, BO, p. 32
Policies, processes, management model	Anti-corruption Policy, Metso Outotec Code of Conduct
Monitoring the effectiveness of our approach – Specific actions and results	Key performance indicators, GRI, p. 10
Disclosures	205-1, Metso Outotec indicator: Community engagement
Topic boundary	Internal impacts within our operations Relevant external entities: communities, employees and government.

Sustainable productivity

	Description/Reference
GRI Material Topic	GRI 416: Customer Health and Safety 2016
Key topics for our management approach	Planet Positive offering and innovations, BO, p. 23
Targets	Sustainability, BO, p. 21 Planet Positive offering and innovations, BO, p. 23
Policies, processes, management model	Metso Outotec Code of Conduct, QEHS Policy, QEHS Management
Monitoring the effectiveness of our approach – Specific actions and results	All new R&D projects have to set sustainability targets
Disclosures	416-1, 416-2, Metso Outotec indicator: Sustainability targets set in R&D projects
Topic boundary	External impacts within our value chain. Relevant external entities: customers, suppliers.

Responsible procurement

	Description/Reference
GRI Material Topic	GRI 204: Procurement Practices 2016, GRI 305: Emissions 2016 (related disclosure)
Key topics for our management approach	Responsible procurement ensures sustainable cooperation, BO, p. 38
Targets	Responsible procurement ensures sustainable cooperation, BO, p. 38, Our annual sustainability performance, targets and long-term goals, BO, p. 22
Policies, processes, management model	Metso Outotec Supplier Code of Conduct, Sustainability criteria for suppliers
Monitoring the effectiveness of our approach – Specific actions and results	Responsible procurement ensures sustainable cooperation, BO, p. 38, Our annual sustainability performance, targets and long-term goals, BO, p. 22
Disclosures	204-1, Metso Outotec indicator: Supplier sustainability audits
Topic boundary	External impacts within our value chain. Relevant external entities: suppliers.

SASB Industrial Machinery and Goods Disclosure

Topic	Accounting Metric	Unit of measure	Code	Page number / Information / Omission	Information assured
Energy Management	1. Total energy consumed	Gigajoules (GJ)	RT-IG-130a.1	GRI 302-1 in GRI supplement, p. 12	✓
	2. Percentage grid electricity	%	RT-IG-130a.1	98%	✓
	3. Percentage renewable energy	%	RT-IG-130a.1	47%	✓
Employee Health and Safety	1. Total recordable incident rate (TRIR)	Rate	RT-IG-320a.1	GRI 403-9; LTIF and recordable injury rates reported in GRI supplement p. 16 (per million hours worked)	✓
	2. Fatality rate	Rate	RT-IG-320a.1	GRI 403-9 in GRI supplement, p. 16 (number of fatalities)	✓
	3. Near-miss frequency rate (NMFR)	Rate	RT-IG-320a.1	GRI 403-9 in GRI supplement, p. 16 (per million hours worked)	✓
Fuel Economy & Emissions in Use-phase	Sales-weighted fleet fuel efficiency for medium- and heavy-duty vehicles	Gallons per 1,000 ton-miles	RT-IG-410a.1	Information not available.	
	Sales-weighted fuel efficiency for non-road equipment	Gallons per hour	RT-IG-410a.2	Information not available.	
	Sales-weighted fuel efficiency for stationary generators	Watts per gallon	RT-IG-410a.3	Information not available.	
	Sales-weighted emissions of: (1) nitrogen oxides (NOx) and (2) particulate matter (PM) for: (a) marine diesel engines, (b) locomotive diesel engines, (c) on-road medium- and heavy-duty engines, and (d) other non-road diesel engines	Grams per kilowatt-hour	RT-IG-410a.4	Information not available and not applicable for marine diesel engines.	
Materials Sourcing	Description of the management of risks associated with the use of critical materials		RT-IG-440a.1	Metso Outotec acknowledges the increasing concern related to the human rights issues of sourcing ores and metals from conflict areas and that conflict minerals must only be sourced in accordance with applicable laws, including but not limited to the Dodd-Frank Wall Street Reform and Consumer Protection Act and the EU Conflicts Minerals Regulations. Metso Outotec's procurement management tool has a follow-up if suppliers have systems and processes for managing the risks related to conflict minerals as required by the EU Conflict Minerals Regulation. Related to restricted substances, suppliers are asked to inform if the components provided by the supplier contain substances that are listed on the REACH list or if suppliers provide products that contain RoHS substances in concentrations over the limit.	✓
Remanufacturing Design and Services	Revenue from remanufactured products and remanufacturing services	Reporting currency	RT-IG-440b.1	Service and Consumables business' revenue from upgrades, modernizations and repairs in 2022 was 333 MEUR.	✓

Independent practitioner's limited assurance report

To the Management of Metso Outotec Corporation

We have been engaged by the Management of Metso Outotec Corporation (hereinafter also the "Company") to perform a limited assurance engagement on selected sustainability information for the reporting period 1 January 2022 to 31 December 2022, disclosed in Metso Outotec Corporation's Board of Directors' Report, Business Overview and GRI Supplement of Metso Outotec Annual Report 2022 (hereinafter the Selected sustainability information).

Selected sustainability information

The selected sustainability information within the scope of assurance covers:

- The economic, social and environmental sustainability indicators as identified in the GRI Content Index and SASB Industrial Machinery and Goods Disclosure, which are included in the Company's GRI Supplement in the Company's Annual Report 2022.
- EU taxonomy KPIs for climate change mitigation and climate change adaptation as disclosed in Metso Outotec Corporation's Board of Directors' report of Metso Outotec's Annual Report 2022.

Management's responsibility

The Management of Metso Outotec Corporation is responsible for preparing the Selected sustainability information in accordance with the reporting criteria as set out in Metso Outotec Corporation's internal reporting instructions described in Metso Outotec Corporation's GRI Supplement 2022, the GRI Standards of the Global Reporting Initiative, Sustainability Accounting Standards Board's (SASB) Industrial Machinery & Goods Standard and Regulation (EU) 2020/852 and Commission Delegated Regulation 2021/2178 (collectively Reporting criteria). The Management of Metso Outotec Corporation is also responsible for such internal control as the management determines is necessary to enable the preparation of the Selected sustainability information that is free from material misstatement, whether due to fraud or error.

Practitioner's independence, other ethical requirements and quality control

We have complied with the independence and other ethical requirements of the International Code of Ethics for Professional Accountants (including International Independence Standards) issued by the International Ethics Standards Board for Accountants (IESBA Code), which is founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behavior.

PricewaterhouseCoopers Oy applies International Standard on Quality Control (ISQC) 1 and accordingly maintains a comprehensive system of quality control including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

Practitioner's responsibility

Our responsibility is to express a limited assurance conclusion on the Selected sustainability information based on the procedures we have performed and the evidence we have obtained. We conducted our limited assurance engagement in accordance with the International Standard on Assurance Engagements (ISAE) 3000 (revised) "Assurance Engagements Other than Audits or Reviews of Historical Financial Information" and, in respect of greenhouse gas emissions, International Standard on Assurance Engagements (ISAE) 3410 "Assurance Engagements on Greenhouse Gas Statements". These standards require that we plan and perform the engagement to obtain limited assurance about whether the Selected sustainability information is free from material misstatement.

In a limited assurance engagement, the evidence-gathering procedures are more limited than for a reasonable assurance engagement, and therefore less assurance is obtained than in a reasonable assurance engagement. An assurance engagement involves performing procedures to obtain evidence about the amounts and other information in the Selected sustainability information. The procedures selected depend on the practitioner's judgment, including an assessment of the risks of material misstatement of the Selected sustainability information.

Our work consisted of, amongst others, the following procedures:

- Interviewing senior management of the Company.
- Conducting three video interviews with sites in Finland, Canada and Brazil.
- Interviewing employees responsible for collecting and reporting the information presented in the Selected sustainability information at the group level as well as at the site level.
- Assessing how Group employees apply the reporting instructions and procedures of the Company.
- Testing the accuracy and completeness of the information from original documents and systems on a sample basis.
- Testing the consolidation of information and performing recalculations on a sample basis.
- Considering the disclosure and presentation of the Selected sustainability information.

Limited assurance conclusion

Based on the procedures we have performed and the evidence we have obtained, nothing has come to our attention that causes us to believe that Metso Outotec Corporation's Selected sustainability information for the reporting period 1 January 2022 to 31 December 2022 is not properly prepared, in all material respects, in accordance with the Reporting criteria.

When reading our limited assurance report, the inherent limitations to the accuracy and completeness of sustainability information should be taken into consideration.

Our assurance report has been prepared in accordance with the terms of our engagement. We do not accept, or assume responsibility to anyone else, except to Metso Outotec Corporation for our work, for this report, or for the conclusions that we have reached.

Helsinki 16 February 2023

PricewaterhouseCoopers Oy

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