

Basis of Reporting 2023

#smartersteels



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Our Reporting

Our Basis of Reporting 2023 is a central element in our commitment to engage stakeholders and communicate our financial and non-financial performance.

It forms part of our wider approach to reporting at a global and local level, supported by reports that provide details on specific areas of our work or are designed for the use of specific stakeholder groups. Please find details of our other reporting below.

To read our other reports please use the links below:

- ⇒ Integrated Annual Review
- ⇒ Fact Book
- ⇒ Reporting Index

- Climate Action Report 2
 Form 20 F
- Form 20-F
- left Annual Report

Our local sustainability reports are available on country websites



annualreview2023.arcelormittal.com

Contents

Section 1 Basis of Reporting

2 Guidelines for ArcelorMittal sustainable development indicators

Section 2

Reporting methodology by indicator

- 3 Outcome 1
- Outcome 4
- Outcome 5
- Outcome 6
- 6 Outcome 7
- l6 Outcome 8
- 16 Outcome 9
- 16 Outcome 10
- 7 Transparent good governance

Section 3

Appendix

18 Appendix

2

3

Basis of Reporting

Guidelines for ArcelorMittal sustainable development indicators

This document sets out the main principles and methodologies used by ArcelorMittal in reporting data relating to our corporate responsibility and sustainability performance in the Fact Book ().

We provide guidelines for our operations to help them understand how to report this data both for internal reporting and consolidation at group level, and for their own local sustainability reporting. We seek to follow best practice in reporting. We draw on the standards of the Global Reporting Initiative and the Sustainability Accounting Standards Board with some deviations, as well as industry guidelines from the World Steel Association (worldsteel).

Scope of reporting criteria

We report on our performance against those indicators that best communicate the most material aspects of our sustainability performance at the level where it is most meaningful to report – global or local – as outlined in our Reporting Index \bigcirc .

Boundary of data reported

All data are reported for the period 1 January 2023 – 31 December 2023. All financial figures refer to United States Dollars (\$) unless stated otherwise. All other currencies have been converted to \$ using an average exchange rate for the year, as used in preparing our Form 20-F \bigcirc .

The Basis of Reporting covers ArcelorMittal and its consolidated entities, unless indicated differently in the outcome and Key Performance Indicator (KPI) boundary description. While the outcome boundary is applicable to the whole section of the outcome, the boundary of indicators may be more specific based on relevance (Figure 1), which will be highlighted in the boundary column. Any acquisitions or divestments are included within the scope of reporting from/until the date of the transaction.



A list of our significant operating subsidiaries, joint ventures and associates can be found in ArcelorMittal's Form $20-F \bigoplus$.

Definitions

When there is a difference between the boundary of the outcome and the boundary of the indicators, it will be highlighted in the 'additional boundary' column (**Green** = included; **Red** = excluded). Below are the definitions of boundary abbreviations used in this document.

Major steel plants: major steel plants, including those with a coke battery, blast furnace/convertor and electric arc furnace, direct reduced iron (DRI) and power plant.

Mining operations: mining operations, including beneficiation plants, pellets and boilers and power plants.

Transportation: materials and product transportation to and from sites, including internal exchange (as per Greenhouse Gas (GHG) Protocol Scope 3).

Major sites: sites where more than one million hours are worked during the year and therefore excludes small sites and non-industrial sites such as London and St Denis, Paris. Other data, unless otherwise stated in this Basis of Reporting document, covers both our steel and mining operations. The boundary of operations that such data covers is broader for health and safety data than environmental data. The latter covers only major industrial operations, since we believe this is where our material impacts lie.

More details on the boundary for each outcome and specific KPIs are provided in this document and our Reporting Index.

Restating data

Each year the environmental data we publish is provisional with the best available data at the time of publication. We restate previous year's data each following year after a full review of our data is complete.

Figure 1: Outcome and indicator boundary.

Reporting methodology by indicator

Outcome 1: Safe, healthy, quality working lives for our people

Outcome boundary

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Safety indicators boundary includes all companies within the ArcelorMittal Group and permanent or temporary employees, as well as contractors (direct or indirect) who perform work on ArcelorMittal sites. Almost all operational sites within our consolidated financial statements are included within the perimeter for health and safety data.

The following sites were not included in health and safety data: London office and Paris-St Denis office.

The total number of employees and total number of contractors represent employees and contractors from all of ArcelorMittal's consolidated entities.

All Human Resource (HR) KPIs including the total number of employees and total number of contractors represent employees and contractors from all of ArcelorMittal's consolidated entities. **Temporary employment:** Employees hired on a temporary basis by the company are included in all health and safety statistics. Temporary employment may include: contracts limited in time, temporary jobs, holiday jobs, student jobs or traineeships.

Contractor: ArcelorMittal considers contractors to be all companies contracted (directly or indirectly) by ArcelorMittal to perform work on a site where ArcelorMittal has operating control. This definition includes the personnel of a service provider, subcontractors, etc, whether with a permanent or temporary employment. This also includes transport of incoming and outgoing products as far as ArcelorMittal has a direct or indirect contract with the transporting company (i.e. loading, unloading and transport on ArcelorMittal sites).

| Indicator | Definition | Additional boundary | Unit |
|---------------|---|-----------------------------|---|
| Fatalities | A death caused by work that occurs on company property or while travelling on company business. This also includes contractors on our site or when transporting our products when these products are being transported in accordance with a service contract, that results in a fatality. If as a result of an official enquiry or medical investigation the cause of death is declared as not work-related the figure will not be included in our reporting. An incident that occurs while travelling to or from the normal place of work is not to be included in the statistics. An incident that occurs while travelling on company business is to be included in the statistics, wherever this is happening and thus covers all the time from leaving home or normal working place, wherever the business trip is starting, until returning home or to the normal place of work, unless due to specific activities that are not linked to the business trip. | Same boundary as outcome | Number of people Independently assured by DNV |
| Fatality rate | Number of fatalities as defined above per 100 million hours worked including employees and contractors. | Same boundary as outcome | Per 100 million hours worked |
| | Number of fatalities x10 ⁶ | | |

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Section 2 – Reporting methodology by indicator continued Outcome 1: Safe, healthy, quality working lives for our people continued

| Indicator | Definition | Additional boundary | Unit | Indicator | De | | |
|--------------------------|--|-----------------------------|---|------------------------------------|--|--|----------------------------------|
| Lost time injury rate | Figures reported express the frequency of injuries per million hours worked. A work-related injury is one that results in the loss of at least one full working day (beyond the date of the injury) and is measured from the first day after the event. Any absence, beyond the day of the injury occurring or the consequence of the incident, is automatically a lost-time injury. This is independent of medical advice to stay at home or do adapted work – the reality is to be used for reporting. | Same boundary as outcome | Per million hours worked Independently assured by DNV | Total recordable injury rate | Th se ar th Ca us us | | |
| | The injury must be caused by a sudden, single instantaneous event, caused by the work and not the result of any pre-existing underlying medical conditions with a history of like symptoms – this is to be determined only by medical professional. An incident with lost time which spans over several months is only counted once, in the month of start of the absence. | | | | | Proactive potential serious injuries and fatalities (proactive PSIFs) | Pc th Tr th th fa |
| | In case of a lost time injury which spans over a longer period, there is no limit to the number of absence days to be counted, unless limited by local legislation. An incident that occurs while travelling to or from the normal place of work is not to be included in the statistics. An incident that occurs while travelling on company business is to be included | | | | | Accident severity rate | Fig |
| | in the statistics, wherever this is happening and thus covers all the time from leaving home or normal working place, wherever the business trip is starting, until returning home or to the normal place of work, unless due to specific activities that are not linked to the business trip. Worked hours are calculated based on the number of actual hours worked or scheduled hours to be worked. The hours actually worked and those regarded as such include the time spent for training or other work required activities, but does not take into account holidays or other days off. | | | | Industrial operations (including mining) certified to ISO 45001 | C by c f w n s it e S | |
| | Methodologies for calculating hours worked may differ for employees and contractors. | | | | | | |

| Indicator | Definition | Additional boundary | Unit |
|--|---|-----------------------------|--|
| Total recordable injury rate | The total recordable injury rate (TRIR) includes a broader set of incidents than lost time injury frequency rate (LTIFR), and does not require someone to be absent from work for their injury to be included. | Same boundary as outcome | Rate is number of cases per million of worked hours |
| | Calculation: the number of fatalities, lost time injuries, restricted work injuries (the person is still at work but cannot perform his usual work) and injuries for which people keep on performing his usual work but had to go through some medical care. | | |
| Proactive potential serious injuries and fatalities (proactive PSIFs) | Potential serious occurrences that were reported proactively that could have resulted in a permanent disability or a fatality. This is a leading indicator, and should be differentiated from those serious occurrences that were reported reactively i.e. after the accident took place. The higher the number, the more likely fatalities will be avoided. | Same boundary as outcome | Number |
| Accident severity rate | Number of days lost for injury x10 ³ | Same boundary as outcome | Days per thousand hours worked |
| | Figures reported express the rate of accident severity per thousand hours worked. Injuries are defined as for lost time injuries above. Worked hours are calculated as for lost time injury. | | |
| Industrial operations (including mining) certified to ISO 45001 | Calculation: % of major steel and mining sites which, through audit by an external certified body, have been granted the ISO 45001 certificate from an authorised certification body. 'Major sites' refers to sites where more than one million hours are worked during the year and therefore excludes small sites and non-industrial sites such as London and St Denis, Paris. All major sites report figures on a monthly basis. This data is recorded and extracted from the databases H&S Cube (MD4BI)/REX server. ISO 45001 certification is renewed every 3 years. Total number of working hours in certified sites having 1m working hours or above | Major sites | % Independently assured by DNV |
| | Total number of working hours in all sites having 1m working hours or above | | |

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Section 2 – Reporting methodology by indicator continued Outcome 1: Safe, healthy, quality working lives for our people continued

| Indicator | Definition | Additional boundary | Unit |
|--|--|---|---|
| Employees covered by collective bargaining agreements | Percentage of employees, being exempts or non-exempts, covered by a Collective Labour Agreement (CLA). | Sites where ArcelorMittal manages HR processes | % |
| Number of strikes exceeding 1 week in duration | A strike is defined as a work stoppage caused by mass refusal of employees to perform work, in response to a labour dispute. | Sites where ArcelorMittal manages HR processes | Number |
| Training hours per employee | The number of employee training hours divided by the full-time equivalent number of employees. This figure is derived from the total number of hours spent on training initiatives occurring across the whole group divided by the total full-time equivalent number of employees at those sites from which data has been consolidated. It includes ArcelorMittal University, online, on the job, onsite and external training programmes. This number excludes subcontractors and apprentices. It includes health and safety, leadership and management, induction, language, compliance, vocational, technical and functional training. Other training types are additionally specified. | Sites where ArcelorMittal manages HR processes | Hours |
| Women in management positions (manager and above positions) | Percentage of Managers and above positions (Managers, General Managers, Vice Presidents and Executive Vice Presidents) with women incumbent. <u>Number of female incumbents in manager positions</u> Total number of incumbents in manager positions x100 | Sites where ArcelorMittal manages HR processes | % Independently assured by DNV |
| Women on the Group management committee | Percentage of women on the Group management committee. Number of women on the Group management committee Total number of members of the Group management committee | Group management committee | % |

| Indicator | Definition | | Additional boundary | Unit |
|---|--|--|---|--------------------|
| Manager turnover rate | Percentage of Managers and above people who have left the company on a voluntary basis during the year. | | Sites where ArcelorMittal | % |
| | Managers who left on a voluntary basis | 10.0 | processes | |
| | Average management population during the year | X100 | | |
| Women recruited (exempt population) | Percentage of women recruited in exempt and above pop during the year. Exempts and above include: Exempts, Ma General Managers, Vice Presidents and Executive Vice Presidents. | women recruited in exempt and above population III. Exempts and above include: Exempts, Managers, Igers, Vice Presidents Vice Presidents. Sites where ArcelorMitt manages H processes | Sites where Hou ArcelorMittal manages HR processes | Hours |
| | | x100 | | |
| | Exempt employees are monthly salaried employees, paid agreed amount for the whole job, not eligible for overtime regardless the amount of time or efforts required to compl the work. Employees having their working time measured t clock machine or equivalent system are not exempts. | an lete hrough | | |
| Women on key | Percentage of Managers and above positions with women incumbent. | Sites where ArcelorMittal manages HR processes - x100 | | % Independently |
| positions succession | Number of female candidates on General Managers and above succession plans | | | assured by DNV |
| plans (general managers and above positions) | Total number of candidates on General Managers and above succession plans | | | |
| Women | Percentage of women out of total workforce. | Sites where | Sites where | % |
| in the | Women in the workforce | v100 | manages HR | |
| HUIRIDICE | Total workforce | XIUU | x100 processes | |

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Outcome 4, 5, 6: Environmental indicators Outcome boundary

The scope of our environmental data includes all companies within the ArcelorMittal Group conducting operations that generate impacts that are considered material to our environmental footprint This means all operational industrial sites listed in the ArcelorMittal Form 20-F, with the exclusion of: US Tubular; Mexico Tubular; Canada Tubular; France Tubular; Kazakhstan Tubular (Aktau); Venezuela; Iasi (Romania); Downstream Industeel plants: Saint-Chamond, Seraing, and Dunkirk (Europe North); and Hochfeld. All joint ventures are excluded from the scope of reporting.

Where local site data is not available, estimates are made based on the production to emissions ratio of the prior year, and applying this to the current year production data, unless otherwise stated. Data is collected from ArcelorMittal production sites by means of a standard template, which requests information on the annual generation.

Data is submitted by local site management to the Group Environment department. ArcelorMittal considers ISO 14001 certification a factor that supports the quality of the data recorded at site level.

Each year the environmental data we publish is provisional with the best available data at the time of publication. We restate previous year's data each following year after a full review of our data is complete.

All intensity metrics, calculated on a 'per tonne of steel' basis refer to crude steel rather than finished steel.

Outcome 4: Efficient use of resources and high recycling rates

| Indicator | Definition | Additional boundary | Unit |
|---|---|------------------------|------------------------|
| Steel scrap recycled | External scrap (pre- and post-consumer scrap) and internal scrap generated are used internally during the process of steelmaking. The perimeter includes all steel sites within our perimeter for environmental data, except mining sites, which are excluded. Data is collected from ArcelorMittal production sites by means of a standard template, which requests information on production/ use as yearly flow. | Major steel plants | Tonnes |
| Blast furnace slag re-used | The amount of slag re-used denotes in absolute terms that portion of our residues that was slag and was reused in the blast furnace (BF) stage of our steelmaking operations in place of raw materials. This has the effect of avoiding the emissions of an estimated 550 kg CO_2 per tonne of steel. This is based on an integrated steel plant and includes all direct and indirect CO_2 associated with the decarbonation of limestone at sinter plant, and the blast furnace (Read more here). | Major steel plants | Tonnes (of BF slag) |
| | The 550 kg CO_2 per tonne emitted in the formation of slag is already included in the carbon emissions associated with steel production. However, when it is used in place of Portland cement, CO_2 is avoided since that amount of Portland cement is no longer produced (see below). | | |
| Blast furnace slag to cement industry | Blast furnace slag is used by the cement industry in place of clinker. This averts the emission of 766 kg CO ₂ per tonne of cement (<u>see here</u>) from the production process of clinker. The data is collected from the by-product sales team and their sales data system. | N/A | Tonnes (of BF slag) |

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| Indicator | Definition | Additional boundary | Unit |
|---|---|---|--|
| Production residues and by-products reused (steel) | ArcelorMittal's production residues and by-products reused is the quantity in tonnes of residues used or re-used during the year compared to the total annual production of residues. | Major steel plants Transportation | % |
| Production residues and by-products reused (mining) | ArcelorMittal's production residues and by-products reused is the quantity in tonnes of residues re-used at site level and externally compared to the annual production of residues. | Mining operations Major steel plants | % |
| Waste (non-used residues) landfilled (steel) | Residues put in landfill internal or external to the site or sent to destruction. It is the final and definitive destination of the residues. | Major steel plants | Tonnes Independently assured by DNV |
| Waste (non-used residues) in storage (steel) | Residues put in temporary internal and external storage. These residues should be re-used for internal or external use or sent to landfill or destruction after a certain time. In any case, permanent storage corresponds to final destination (landfill/destruction). | Major steel plants | Tonnes Independently assured by DNV |

Outcome 5: Trusted user of air, land and water

Data coverage is not always 100% of steel producing sites because some sites may not provide data. In this case we divide total emission by the production of the sites that have provided data; therefore, it is in 'xx' per tonne of crude steel of 'responding' sites.

| Indicator | Definition | | Additional boundary | Unit | |
|---|---|---------------------------------------|-----------------------------|---------------|--|
| Industrial operations certified to ISO 14001 | The % of our steel or mining plants certified to ISO 14001. This figure is validated periodically, most recently in 2019, and before that in 2014, through individual correspondence with each site. | ; | Same boundary as outcome | % | |
| (steel and mining) | Number of working hours in certified sites above 1 million worked hours | v100 | | | |
| | Total number of working hours in sites above 1 million worked hours | XIUU | | | |
| Approvals for environmental capital | Any investment in projects that deliver environmental beneficiary such as water treatment facilities, de-dusting equipment a technology upgrades approved during the reporting year. | fits, Ind | Same boundary as outcome | USD (million) | |
| investment projects | Following capex budget approval, the Investment Allocatic Committee (IAC) is responsible for final approval of investme files and allocates capex to be spent. The investment figure to allocations made in the year towards multi-year investme projects. The figure cannot be related to the annual capex of one given year. | on ent e refers ent spend | | | |
| | This excludes environmental operating expenditures that a incurred as a result of maintenance. | re | | | |
| | Capex allocations to projects delivering carbon and/or ene benefits are reported separately under outcome 6. | ərgy | | | |

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Section 2 – Reporting methodology by indicator continued Outcome 5: Trusted user of air, land and water continued

| Indicator | Definition | Additional boundary | Unit |
|--|---|--|---|
| Absolute dust emissions (steel) | ArcelorMittal's dust emission (steel) include all emissions of ducted dust (i.e. from stacks and chimneys). Data is collected from ArcelorMittal production sites by means of a standard template, which requests information on emission as yearly flow process by process and covers the whole site. Where local site data is not available, estimates are made based on the production to emissions ratio of the prior year, and applying this to the current year production data. Data is submitted by local site management to the Group Environment department. | Major steel plants Mining operations External transportation Diffuse emissions | Tonnes |
| Dust intensity (steel) | Dust intensity is calculated by dividing absolute dust emissions (steel) by total steel production. | Major steel plants Mining operations External transportation Diffuse emissions | kg per tonne of crude stee produced Independent assured by DNV |
| Absolute dust emissions (mining) | ArcelorMittal's dust emission (mining) include all emissions of ducted dust (i.e. from stacks and chimneys). Data is collected from ArcelorMittal mine sites by means of a standard template, which requests information on emission as yearly flow process by process and covers the whole site. Where local site data is not available, estimates are made based on the production to emissions ratio of the prior year, and applying this to the current year production data. Data is submitted by local site management to the Group Environment department. | Mining operations Major steel plants | Tonnes |

| Indicator | Definition | Additional boundary | Unit | |
|---------------------------|---|---|------------------------------------|--|
| Absolute SO _x | ArcelorMittal's SO _x emissions (steel) include all emissions of ducted SO _x (i.e. from stacks and chimneys). SO _x or sulfur oxide refers to | Major steel plants | Tonnes | |
| (steel) | many types of sulfur and oxygen containing compounds such as, SO_2 , SO_3 , etc. | Mining operations | | |
| | Data is collected from ArcelorMittal production sites by means of a standard template, which requests information on emission as yearly flow process by process and cover the whole site. | External transportation | | |
| | Where local site data is not available, estimates are made based on the production to emissions ratio of the prior year, and applying this to the current year production data. | | | |
| | Data is submitted by local site management to the Group Environment department. | | | |
| SO _x intensity | SO_x intensity is calculated by dividing absolute SO_x emissions (steel) by total steel production. | Major steel plants | kg per tonne of crude steel | |
| | | Mining operations | produced | |
| | | External transportation Diffuse emissions | Independently assured by DNV | |
| Absolute SO _x | SO_x or sulphur oxide refers to many types of sulfur and oxygen containing compounds such as, SO_2 , SO_2 , etc. ArcelorMittal's SO_2 | Mining operations | Tonnes | |
| (mining) | emissions (mining) include all ducted emissions (i.e. from stacks and chimneys). | Major steel plants | | |
| | Data is collected from ArcelorMittal mine sites by means of a standard template, which requests information on emission as yearly flow process by process and cover the whole site. | | | |
| | Where local site data is not available, estimates are made based on the production to emissions ratio of the prior year, and applying this to the current year production data. | | | |
| | Data is submitted by local site management to the Group Environment department. | | | |

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Section 2 – Reporting methodology by indicator continued Outcome 5: Trusted user of air, land and water continued

| ndicator | Definition | Additional boundary | Unit |
|--|---|---|--|
| Absolute NO _x emissions (steel) | ArcelorMittal's NO _x emissions (steel) include all ducted emissions (i.e. from stacks and chimneys). NO _x is a generic term for mononitrogen oxides NO (nitric oxide) and NO ₂ (nitrogen dioxide). | Major steel plants Mining operations | kg per tonne of crude steel produced |
| | Data is collected from ArcelorMittal production sites by means of a standard template, which requests information on emission as yearly flow process by process and cover the whole site. | External transportation | Independently assured by DNV |
| | Where local site data is not available, estimates are made based on the production to emissions ratio of the prior year, and applying this to the current year production data. | | |
| | Data is submitted by local site management to the Group Environment department. | | |
| NO _x intensity (steel) | NO_x intensity is calculated by dividing absolute NO_x emissions (steel) by total steel production. | Major steel plants | kg per tonne of crude steel |
| | | Mining operations | produced |
| | | External transportation Diffuse emissions | Independently assured by DNV |
| Absolute NO _x | NO_x is a generic term for mono-nitrogen oxides NO and NO_2 | Mining operations | Tonnes |
| emissions (mining) | (mining) include all ducted emissions (i.e. from stacks and chimneys). | Major steel plants | |
| | Data is collected from ArcelorMittal mine sites by means of a standard template, which requests information on emission as yearly flow process by process and cover the whole site. | | |
| | Where local site data is not available, estimates are made based on the production to emissions ratio of the prior year, and applying this to the current year production data | | |

| Indicator | Definition | boundary | Unit |
|------------------------------|---|--------------------|----------------------------------|
| Freshwater intake (steel) | Fresh water refers to all the sources of water intake: | Major steel plants | Metric cubic |
| | Fresh groundwater Brackish surface water Brackish ground water Rain water Piped water (industrial – non-potable) Piped water potable | Mining operations | tonne of crude steel produced |
| | Water data is collected per water network. Data is collected from ArcelorMittal production sites by means of a standard template, which requests information on emission as yearly flow process by process and covers the whole site. Some sites are permitted to extract groundwater without measurement, so these data are not reported. | | |
| | When local site data for intake is not available and when site data for discharge water is known, water intake flow is considered equal to discharge flow plus a standard amount depending on the site category (integrated/EAF). | | |
| | Data is submitted by local site management to the Environment team, Chief Technology Officer's department (CTO). | | |
| Net water use | Net water use is the difference between the water intake per tonne of crude steel and the water discharge per tonne of | Major steel plants | m3/tonne of steel |
| | crude steel, not including sea water, recycled water and domestic water use. | Mining operations | Independently |
| | Water use data is related to production only. | | DNV |
| | Data is collected from ArcelorMittal production sites by means of a standard template, which requests information on emission as yearly flow process by process and covers the whole site. | | |
| | Data is submitted by local site management to the Environment team, Chief Technology Officer's department (CTO). | | |

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Outcome 6: Responsible energy user that helps create a lower carbon future

| Indicator | Definition | Additional boundary | Unit |
|--|---|---|----------------------------------|
| Approvals for energy efficiency capital investment projects | All capital investments aimed at energy or CO ₂ e improvements. This excludes energy operating expenditures. This is reported separately to environmental investments to improve air, land and water outcomes, reported in outcome 5. | Same boundary as outcome | USD (million) |
| Primary energy consumption | ArcelorMittal's primary energy consumption (or 'energy footprint') = energy from fuels + equivalent energy for pre-processed flows (electricity, industrial gas pellets and burnt fluxes). | Major steel plants Mining operations | Petajoules (PJ) Independently |
| (steel) | Data is collected from ArcelorMittal production sites by means of a standard template, which requests information on material use, energy and utility flows at the site level. Site level data is obtained from procurement, delivery and inventory information. This data is used to calculate net use, and converted to energy with standard factors from energy contents or equivalent energy value for preprocessed flows (electricity, steam, hot water, compressed air, industrial gases, pellets and burnt fluxes). These standard factors are preferably measured or otherwise derived from standard values from ArcelorMittal's experience. | External transportation | assured by DNV |
| | The data is collated at group level and reviewed by the Group Environment department. | | |
| | Where local site data is not available, estimates are made based on the production to emissions ratio of the prior year, and applying this to the current year production data. | | |
| | Reporting method: The net use of materials and energies at site level (procurements – deliveries – inventory change) associated with net calorific values or equivalent energy value for pre-processed flows (electricity, steam, hot water, compressed air, industrial gases, pellets and burnt fluxes) gives an estimate of the energy impact of the Group. | | |

| Indicator | Definition | Additional boundary | Unit |
|--|---|---|----------------------|
| Primary energy consumption (steel) continued | In particular: Energy from fuels (condensed and gases) is accounted with their net calorific value, also named lower heating value (LHV) or lower calorific value (LCV). Electricity is accounted with a standard equivalent energy, taking into account power plant efficiency and not only unit conversion from MWh to GJ. Steam and hot water are accounted with a standard equivalent energy based on ArcelorMittal experience. Energy from pellet is accounted with a standard value based on IISI study on 'Energy use in the steel industry'. Energy for industrial gas and burnt fluxes is accounted with standard values based on ArcelorMittal experience. For internal use of wood, ArcelorMittal used an internal consumption value (LCV of 18.72 GJ/t). Renewable electricity generated and used on-site (from solar photovoltaic, wind turbines and hydropower installations) is also accounted in this indicator. | | |
| Energy intensity (steel) | Energy intensity is calculated by dividing primary energy consumption (steel) by total steel production. | Major steel plants Mining operations External transportation | GJ/tonne of steel |
| Energy recovered and reused on site as % of total primary energy consumed (steel) | We measure the amount of energy we recover from various stages in the steelmaking process in the form of waste gases for reuse, electricity from Turbine Top Gas Recovery at some blast furnaces, energy recovered from low temperature source like sinter cooler and express this as a % of the total primary energy consumed. This metric is an indication of energy efficiency: it demonstrates the extent to which the energy from fuels used in the steelmaking process for a chemical purpose are reused for their energy content rather than wasted. The recovery of waste gases for further use is a prime example not only of energy efficiency, but of CO ₂ avoidance, since where such agses are not recovered they must be flared. | Major steel sites Mining operations | % |

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| Indicator | Definition | Additional boundary | Unit |
|---|--|-----------------------------|------|
| Energy from renewable sources as % of total primary energy consumed (steel) | Electricity generated from wind, solar, hydropower and other renewable sources expressed as a % of the total primary energy consumed. | Same boundary as outcome | % |
| Electricity from renewable and recovered energy sources as % of total electricity consumed (steel) | Most of the energy consumed in steelmaking is not electricity but primary energy in the iron ore reduction process, where it is currently not feasible to reduce iron ore using renewable electricity. Therefore, this indicator provides a narrower focus on the type of electricity used rather than primary energy. As well electricity from renewable sources, this indicator also includes that generated from other responsible sources: waste gases transferred to power plants, which would otherwise be flared emitting CO ₂ ; pressure from blast furnace top gas (TRT); steam from the dry quenching of coke. We believe this is a good indicator of the use of renewable and responsible electricity. | Same boundary as outcome | % |
| | Calculation: Electricity from wind, solar, hydropower and other renewable sources (as per indicator above) plus electricity generated from energy recovered from waste gases, steam, top gas recovery or coke dry quenching processes, expressed as a % of total electricity consumed. | | |

| icator | Definition | Additional boundary | Unit |
|--|--|-----------------------------|-------------------------------------|
| ergy sold type eat, steam | Heat and steam are produced on site at the boilers. A % of this is not required for use on site and therefore it is sold or given to local communities. | Same boundary as outcome | % |
| electricity) % of total mary ergy nsumed eel) | At certain sites the power plant is owned by the steel mill, again only % of the electricity produced is required by the steel mill and the balance is sold for local requirements. | | |
| solute D ₂ e | Description of significant CO₂e emissions during steelmaking process: An integrated steel mill has all the functions for primary steel production; ison making (conversion of are to liquid iron) | Major steel plants | Million tonnes CO ₂ e |
| otprint eel) | steel production: from making (conversion of ore to liquid from), steelmaking (conversion of pig iron to liquid steel), casting | Mining operations | Independently |
| | (solidification of the liquid steel) and product rolling (finished shapes). Waste gases are produced mainly by the coke plant, blast furnace and basic oxygen furnace and contribute to the heat balance of the site. | Transportation | assured by DNV |
| | The only material GHG thus emitted is CO_2 . Therefore, all references to CO_2e (steel) refer in practice to CO_2 . | | |
| | These waste gases burnt internally (reused within the site); burnt in a power plant (internal or external) to produce electricity or, where this is not possible, they must be flared. Since these gases must be emitted within a short time (some minutes) after production, the decision on how they are emitted is driven entirely by the level of activity of the steel plant. We therefore consider the emissions from our waste gases to always be within our operational control. We differentiate as follows: | | |
| | 'Direct emissions' are the actual emissions coming out of the chimneys of the sites. This data is based on a carbon balance at site level. | | |

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| Indicator | Definition | Additional | Unit | Indicator | Definition | Additional boundary | Unit |
|---|---|------------|------|---|--|---------------------|------|
| Absolute CO2e footprint (steel) continued | 'Process emissions' are the aggregate of direct emissions + emissions resulting from the combustion of exported waste gas used in the power plant to generate electricity. Operational boundary: we report on Scope 1, Scope 2 and Scope 3 of the GHG Protocol as follows: ArcelorMittal's total CO₂e emissions (or 'CO₂e footprint') is made up of the following categories: Scope 1 (all ArcelorMittal process emissions, as defined above) Scope 2 market-based (indirect emissions from 'net' purchased electricity as defined below) Scope 3 (other indirect emissions as defined below) Scope 1: (Process emissions): Our reporting under Scope 1 is conservative in order to allow a fair comparison of carbon data between the reporting sites and includes all our process emissions under our control. If we only considered direct and not full process emissions (i.e. excluded the external power plant emissions) we would effectively transfer our process emissions to the power plant and replace them with Scope 2 emissions for all the electricity we import from the power plant, based on the average carbon content of grid electricity. But since our waste gases are five times more carbon intensive than the natural gas that power plants would normally utilise, we would be underreporting the emissions for which we are responsible. The CO₂e per tonne of steel of a steel plant that report its full process emissions only can be half those of the one that reports its full process emissions including the ones used for power generation by an external power plant but which can be entirely consumed in the steel production operation. | | | Absolute CO2e footprint (steel) continued | Scope 2 market-based: (Indirect emissions from 'net' purchased electricity): Electricity – related emissions are linked to the external procurement of electricity in excess of those quantities produced from waste gas exported to external power plants. For this calculation, we use market-based factors, where available and residual mix information if published (mostly Europe). Scope 3: for the moment takes into account only processing emissions for intermediate products (e.g. coke, DRI and industrial gases). Raw material extraction is not currently accounted for. This pertains to scope 3 category 1 and 3. Collection of data: Data is submitted by local site management to the Environment department. ArcelorMittal requires production sites to fill in a standard template, which requests information on material use, energy and utility flows at the site level. This data is obtained from procurement, delivery and inventory information at site level and is used to calculate net use. Data conversion: Data collected is then converted to CO₂e with standard emission factors (EF) from carbon contents or upstream values for processed materials, utilities and intermediate products. These values are preferably measured directly; otherwise they are derived from standard values based on ArcelorMittal's experience (see Appendix 1). For scope 3 emissions, a unique upstream value is allocated to each pre-processed material, utility and intermediate product, based on the average performance of the producing sector. Where local site data is not available, estimates are made based on the production to emissions ratio of the prior year, and applying this to the current year production data. | | |

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| ndicator | Definition | Additional boundary | Unit | Indicator | Definitio |
|--|--|---|--|---|--|
| Absolute CO ₂ e ootprint steel and | ArcelorMittal's total CO₂e emissions (or 'CO₂e footprint'): Scope 1 (process CO₂e emissions from steel + CO₂ from mining + CH₄ from mining) + Scope 2 (indirect emissions from 'net' purchased electricity + electricity purchased at mining sites) | Major steel plants Mining operations Transportation | Million tonnes CO ₂ e Independently assured by | Location- based scope 2 (steel and mining) | As per t calcula as those |
| nining) | • Scope 3 (other indirect emissions as defined above) CH_4 emissions reported in tonnes of CH_4 are multiplied by the warming potential (for 2020 the Global Warming Potential of CH_4 was updated to the latest factor disclosed by IPCC of 28; the change was applied retroactively to avoid any discrepancy from one year to another) to get the equivalent CO_2 emissions in tonnes. Mining operations include activities that result in unmeasured and fugitive CH4 emissions. Coverage of emissions monitoring equipment continues to increase in accuracy. | | DNV | CO2e intensity (steel) – scopes 1, 2 and 3 – historical portfolio | This ind product emissio – scope process of steel were wi years, t are not |
| Collection of data: Data is submitted by local site manages to the Environment department. ArcelorMittal requires prosites to fill in a standard template, which requests information material use, energy, utility flows and CH ₄ emissions (for mines) at the site level. This data is obtained from procure delivery, inventory information and air analysis (for CH ₄) at site level and is used to calculate net use and then convert to CO ₂ with standard emission factors from carbon conter or upstream values for processed materials, utilities and intermediate products. These values are preferably meases directly; otherwise they are derived from standard values on ArcelorMittal's experience (see Appendix 1). A unique up value is allocated to each pre-processed on the averce performance of the product (steel only), based on the averce performance of the product gestion. Where local site da not available, estimates are made based on the production of the product is offer the product in the product is product is the product is product is the product is the product is product is product is the product is product is the product is the product is the product is p | Collection of data: Data is submitted by local site management to the Environment department. ArcelorMittal requires production sites to fill in a standard template, which requests information on material use, energy, utility flows and CH_4 emissions (for coal mines) at the site level. This data is obtained from procurement, delivery, inventory information and air analysis (for CH_4) at site level and is used to calculate net use and then converted to CO_2 with standard emission factors from carbon contents or upstream values for processed materials, utilities and intermediate products. These values are preferably measured directly; otherwise they are derived from standard values based on ArcelorMittal's experience (see Appendix 1). A unique upstream value is allocated to each pre-processed material, utility and intermediate product (steel only), based on the average performance of the producing sector. Where local site data is not available, estimates are made based on the production to emissions ratio of the prior year, and applying this to the current | | | CO2e intensity (steel) – scopes 1, 2 and 3 – adjusted to reporting year portfolio | This ind product emissio CO ₂ e fo from all tonne o to the A enable Arcelorl is applie of CO ₂ e and are from pre sites wil perform be avai |

| Indicator | Definition | Additional boundary | Unit |
|------------------------------------|--|------------------------|------------------------------------|
| Location- | As per the GHG protocol location-based reporting guidance, we calculate scope 2 emissions based on average arid factors, such | Major steel plants | Million tonnes CO2e |
| (steel and | as those published by IEA or local authorities, where available. | Mining operations | 2 - |
| mining) | | Transportation | |
| CO ₂ e intensity | This indicator demonstrates the average GHG emitted in the | Major steel plants | Tonnes of CO ₂ e |
| (steel) – scopes 1, 2 | emissions included in Total CO_2 e emissions defined above | Mining operations | of steel |
| and 3 – historical portfolio | - scopes 1, 2 and 3 - so as to include emissions from all the processes involved in the production of an 'average' tonne of steel. The data for each reporting year includes all sites that were within the portfolio during the year. For previous reporting years, this means that the performance includes some sites that are not now within the portfolio. | | Independently assured by DNV |
| CO ₂ e intensity | This indicator demonstrates the average GHG emitted in the production of one tonne of crude steel. It includes all those | Major steel plants | Tonnes of CO₂e per tonne |
| scopes 1, 2 | emissions included in Total CO_2 e emissions defined in Absolute | Mining operations | of steel |
| and 3 – | from all the processes involved in the production of an 'average' | | Independently |
| adjusted to reporting | to the ArcelorMittal portfolio in the previous 12 months to | | assured by DNV |
| year portfolio | enable a like-for-like annual comparison, and includes ArcelorMittal Temirtau for the year 2023. This portfolio perimeter | | |
| | is applied retrospectively to allow like-for-like annual comparison of CO ₂ e intensity. This means that where sites have been sold | | |
| | and are no longer in the portfolio, their emissions are removed | | |
| | sites will be added to previous years if available. In some cases, | | |
| | performance data for years prior to acquisition may not be available. | | |

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| Indicator | Definition | Additional | Unit | Indicator | Definition | Additional boundary | Unit |
|---|---|---|--------------------------|---|--|------------------------|------|
| Ratio between | The three main production routes require different raw materials | Major steel plants | Ratio | % sites | The processes considered are those in the supply chain from | Major steel plants | % |
| different production routes (steel) | and this significantly impacts on their level of carbon emissions: Primary steel making through the BF–BOF route uses coke and coal to reduce iron ore, the most carbon intensive route; Scrap EAF is a secondary steelmaking route where electricity is used to melt scrap, and the emissions are based on the carbon intensity of the electricity; this route relies on sufficient supplies of scrap; in between these two routes is the DRI EAF route, DRI is iron ore reduced using natural gas and because it is then turned into steel in the EAF it can be mixed with varying proportions of scrap enabling it to be more carbon efficient than the BF-BOF route. | Mining operations | | performing better than ArcelorMittal carbon efficiency benchmark | raw materials to hot rolled products; cold process and finishing are excluded. The carbon efficiency KPI goes beyond the determination of an emissions inventory. An inventory gives a snapshot of the situation but, owing to the large influence of the production structure on the level of the emissions, falls short of providing reliable and fully comparable information in terms of CO ₂ efficiency. KPIs need to establish a fair comparison between different sites and give reliable information on the actual variation of | Mining operations | |
| CO2 avoided from steel scrap recycled | Calculation: quantity of steel scrap recycled 'X' upstream emission factor of 1.3 tCO ₂ /t scrap. The upstream emission factor corresponds to the energy consumption avoided in the basic oxygen furnace (BOF) as a result of the use of scrap. This energy is expressed in terms of the equivalent CO ₂ from coke in the blast furnace (BF), since scrap used in the BOF corresponds to a reduction in metal production in the BF, and so a reduction in coke consumption. | Major steel plants Mining operations | Million metric tonnes | | performance. A measure of carbon efficiency allows such a comparison of emission performance between sites and can give an estimate of the potential for improvement compared to a benchmark – which at ArcelorMittal we call the Achievable Reference Performance (ARP). For external disclosure purposes, we report the percentage of sites for which the carbon efficiency is better than (lower than) the ARP. Calculation: This KPI is calculated following standard EN 19694 for all worldwide ArcelorMittal sites participating. Data is collected from ArcelorMittal production sites by means of a standard template, which requests information on material use, energy and utility flows at the site and shop (process) levels: it is the | | |

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Section 2 – Reporting methodology by indicator continued

Outcome 6: Responsible energy user that helps create a lower carbon future continued

| Indicator | Definition | Additional boundary | Unit |
|--|--|------------------------|--|
| Europe carbon | ArcelorMittal's current Europe target was established in 2019: to reduce emissions intensity by 35% by 2030 (scope 1 and 2) | Major steel plants | Tonnes of CO ₂ e per tonne |
| target: 35% | against a 2018 baseline. This target relates to those sites we operate today that we owned in 2018, as well as sites that were | Mining operations | of steel |
| reduction in carbon emissions intensity | acquired since then. This indicator demonstrates the average scope 1 and 2 (market based) emissions in the production of one tonne of crude steel, and is based on steel production data for the year. | Transportation | Independently assured by DNV |
| by 2030 (scope 1 and 2) | Consideration for annual baseline recalculation: When sites are sold, their scope 1 and 2 emissions and production volumes are removed from the data used. Where these are sites with above average scope 1 and 2 emissions intensity, the CO₂e intensity baseline falls and the target challenge intensifies. When sites are acquired/added, their scope 1 and 2 emissions and production volumes are added to the data used. If the site added to perimeter posses and shares base year data that is aligned with the GHG protocol, then said data is used for the baseline. If that is not the case, we will use reporting year data for the site as an alternative for base year data. In addition, where new material streams or emission factors for specific materials are included in the calculations, the baseline | | |

Additional Definition boundary itor ArcelorMittal's current group target was established in 2021: Major steel plants Tonnes of CO₂e oup carbon to reduce emissions intensity by 25% by 2030 (scope 1 and 2) per tonne uction **Mining operations** against a 2018 baseline. This target relates to those sites we of steel get: 25% operate today that we owned in 2018, as well as sites that were uction acquired since then. This indicator demonstrates the average Transportation Independently scope 1 and 2 (market based) emissions in the production of assured by arbon one tonne of crude steel, and is based on steel production DNV issions data for the year. ensity 2030 Consideration for annual baseline recalculation: ope 1 and 2 • When sites are sold, their scope 1 and 2 emissions and production volumes are removed from the data used. Where el and these are sites with above average scope 1 and 2 emissions ning) intensity, the CO₂e intensity baseline falls and the target challenge intensifies. • When sites are acquired/added, their scope 1 and 2 emissions and production volumes are added to the data used. If the site added to perimeter posses and shares base year data that is aligned with the GHG protocol, then said data is used for the baseline. If that is not the case, we will use reporting year data for the site as an alternative for base year data. · In addition, where new material streams or emission factors for specific materials are included in the calculations, the baseline and subsequent years' data will be recalculated.

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Outcome 7: Supply chains that our customers trust

| Indicator | Definition | Additional boundary | Unit |
|---|---|------------------------|--------|
| Global procurement suppliers evaluated against code for responsible sourcing | Number of ArcelorMittal suppliers completing an annual responsible sourcing self-assessment questionnaire. Following a realignment of the company's purchasing structure in 2013, data on the companies we actively engage with on responsible sourcing now only cover our suppliers managed centrally via the European Purchasing Organisation. | N/A | Number |

Outcome 8: Active and welcomed member of the community Outcome 9: Pipeline of talented scientists and engineers for tomorrow Outcome boundary

All sites and global R&D.

| Indicator | Definition | Additional boundary | Unit |
|---|---|-----------------------------|---------------|
| Community investment spend (including Science, Technology, Engineering and Maths spend) | The amount invested by ArcelorMittal to carry out social projects to benefit our communities. This is broken down in when collected into voluntary spend, mandatory spend, in kind donations and Science, Technology, Engineering and Maths (STEM) spend. Mandatory spend is that which is required as part of contractual agreements with our host government, such as contributions to community development funds, resettlement-related programmes, and local infrastructure. STEM spend is the amount of money invested by ArcelorMittal to support educational projects to build skills needed for the 21st century economy e.g., science, maths, engineering, technology. | Same boundary as outcome | USD (million) |

Outcome 10: Our contribution to society measured, shared and valued

Outcome boundary

In addition to sites in the consolidated financial statement, the scope of this is section includes Peña Colorada.

| Indicator | Definition | Additional boundary | Unit |
|---|--|-----------------------------|---------------|
| Estimated direct economic contribution | Direct economic contribution is the sum of the wages and salaries paid, supplier and contractor payments, taxes paid, capital reinvested in the business, dividends, interest payments and R&D. It does not include indirect contributions to the economy, such as through indirect job creation through the supply chain. Data is derived from financial records for the year in review, with additional data collection on specific elements as described below: | Same boundary as outcome | USD (million) |
| | Employee salaries, wages and pensions – comprises all employer costs as reported in our 20-F, plus payments to pension plans. excluding the amounts borne and collected by the employer in the form of payroll tax that are presented within the total tax contribution. | | |
| | Supplier and contractor payments – exclude any taxes, R&D or capital expenditure included in other categories. | | |
| | R&D spend and capex – although these are subcategories of certain other categories given, such as payments to suppliers, they are notable contributions to society in terms of intellectual, financial and manufactured capital, and are therefore extracted here in order to provide more detail. | | |
| | Dividends – includes dividends paid to ArcelorMittal shareholders and those dividends paid to non-controlling interests. | | |

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| Indicator | Definition | Additional boundary | Unit |
|---------------------------|--|-----------------------------|---------------|
| Total tax contribution | Total tax contribution includes all tax payments borne by the company, or collected on behalf of third parties, which represent our contribution to the local economies where we operate. Details of the elements making up the figures, are set out below: | Same boundary as outcome | USD (million) |
| | 'Corporate income tax' comprises all taxes that are based on the taxable profits of a company. | | |
| | 'Payroll taxes' comprise two parts: | | |
| | (i) employee payroll taxes: payroll and employee taxes withheld from employee remuneration, and paid to governments, i.e. tax collected by ArcelorMittal and remitted to governments on behalf of employees. | | |
| | (ii) employer payroll taxes: payroll and employer taxes payable as a result of a company's capacity as an employer. | | |
| | 'Local taxes' comprises: | | |
| | (i) property tax: taxes on the ownership and use of immovable property and other property (e.g. net asset). | | |
| | environment tax: any taxes with (potential) environmental effects that encourage behavioural changes and/or discourage environmental damage and/or a reduction in the use of natural resources; including Air emissions, Water emissions, Residues (elimination of waste, storage residues) etc. | | |
| | (iii) energy tax: taxes, contributions collected by energy suppliers, transport system operators net of any refund from government. | | |
| | (iv) tax on activities: taxes on turnover (other than VAT) and similar business taxes other than those levied on profits. | | |
| | 'Other taxes' comprise: customs & excise duties, motor vehicle tax, government royalties, mining taxes (EBITDA part), taxes on salary (other than payroll taxes), business tax on surface/energy, irrecoverable indirect taxes, financial transaction tax and other minor taxes. | | |
| | | | |

'Government royalties' are calculated according to the scope of extractive industry reporting under the EU Accounting Directive 2013/34/EU.

Transparent good governance

| Indicator | Definition | Additional boundary | Unit |
|---|---|--|--------|
| Number of Board self- assessments | The board self-assessment takes place at the level of the board of directors of the ArcelorMittal group's parent company. | N/A | Number |
| % of employees completed code of business conduct training | All employees are required to undertake this training every three years. The percentage reported for the year relates to the number of all employees who have a valid training certificate at the end of the period. | Sites in consolidated financial statement | % |
| % of employees completed anti-corruption training | Employees in relevant roles are required to undertake this training every three years. The percentage reported for the year relates to the number of relevant employees who have a valid training certificate at the end of the period. | Sites in consolidated financial statement | % |
| % of employees completed human rights training | Employees in relevant roles are required to undertake this training every three years. The percentage reported for the year relates to the number of relevant employees who have a valid training certificate at the end of the period. Relevant roles include CR, legal, HR, and all managers and above. | Sites in consolidated financial statement | % |
| Number of operations with a local confidential whistleblowing system | Our whistleblowing system globally is provided by a third party in the language of the participating country. The number of operations relates to a number of countries which have a whistle blowing line operated by this third party. One whistleblowing line may serve many sites in the country. | Sites in consolidated financial statement | Number |
| Whistleblowing complaints received via internal audit | Complaints received relate to those received via whistleblowing lines relating to fraud and corruption and referred to the Group Forensic team, which records and tracks each one until resolution. | Sites in consolidated financial statement | Number |

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Appendix

EF based on 2021 (or 2022 estimation when available) country IEA data except for:

- Brazil (2023 official country figure);
- Mexico (Comisión Reguladora de Energía 2021);
- Ontario and Quebec (2021 province figures);
- USA (Alabama, Ohio, Texas EPA 2021);
- South Africa (figure from Eskom report 2021 April to April);
- Europe EF is now based on Residual Mix from AIB in order to be able to account for Guarantee of Origin electricity (EF=0); while Luxembourg long uses weighted average based on consumption in France, Belgium and Germany AIB Residual mix; and ArcelorMittal Bissen in Luxembourg will be using German EF because it is provided with electricity from Germany.

Some sites have supplier EF: Lázaro Cárdenas flat and long (391 kg CO2/MWh), Contrecoeurs Est & Ouest (0.6 kg CO2/MWh).

EF for industrial gases are calculated using location based EF.

Table 1 – Electricity: CO₂ equivalent Latest available yearly figure: Electricity needed to produce the corresponding industrial gas 2021/2022/2023 (kWh/1,000Nm³) 710 500 200 200 110 Upstream CO₂ based on power consumption for production (kg CO₂/MWh) (kg CO₂/1,000Nm³) (kg CO₂/MWh) Ut-05 Ut-06 Ut-01 Ut-01 Ut-09 Electricity High Electricity Low Market pressure pressure Ut-07 Ut-08 Compressed Location Reference based oxygen oxygen Nitrogen Argon air based Source year Country/region IEA 2021 World 464.1 329.5 232.1 92.82 92.82 51.05 464.1 IEA 305.4 152.7 33.59 2022 Argentina 216.8 61.08 61.08 305.4 AIB-RM 2022 144.0 61.0 24.40 24.40 13.42 122.0 Belgium 86.6 IEA 2022 760.8 540.2 380.4 152.16 152.16 83.69 760.8 Bosnia-Herzegovina BR 38.5 27.3 19.3 4.24 38.5 2020 Brazil 7.70 7.70 IEA 2022 111.4 79.1 55.7 22.28 22.28 12.25 111.4 Canada CAN 2022 28.0 19.9 14.0 5.60 5.60 3.08 28.0 Canada – Ontario CAN 2022 Canada – 1.3 0.9 0.7 0.26 0.26 0.14 1.3 Quebec 0.4 0.3 0.08 0.04 IEA 2022 Costa Rica 0.2 0.08 0.4 AIB-RM 2022 697.0 455.8 321.0 128.40 128.40 70.62 642.0 Czech Republic 125.0 38.3 5.94 54.0 AIB-RM 2022 France 27.0 10.80 10.80 AIB-RM 2022 684.0 275.5 194.0 77.60 77.60 42.68 388.0 Germany AIB-RM 2022 457.0 222.9 157.0 62.80 62.80 34.54 314.0 Italy IEA 2022 India 706.8 501.8 353.4 141.36 141.36 77.75 706.8

| Table 1 – Electricity: CO ₂ equivalent | | | | | | | | | |
|---|---|----------------------------------|---|-------------------------------------|--|---------------------------------|-------------------------------|----------------------------|---|
| | Latest available yearly figure: 2021/2022/2023 | | | Electricity ne | eded to proc (k | duce the corr Wh/1,000Nm | esponding 1 ³) | g industrial gas | |
| | | | | 710 | 500 | 200 | 200 | 110 | |
| | (kg CO ₂ /MWh) | | Upstream | CO ₂ based or (kg | n power cons CO ₂ /1,000Nr | sumption fo m ³) | or production | (kg CO ₂ /MWh | |
| Source | Reference year | Country/region | Ut-01 Electricity Market based | Ut-05 High pressure oxygen | Ut-06 Low pressure oxygen | Ut-07 Nitrogen | Ut-08 Argon | Ut-09 Compressed air | Ut-01 Electricity Location based |
| IEA | 2021 | Kazakhstan | 487.2 | 345.9 | 243.6 | 97.44 | 97.44 | 53.59 | 487.2 |
| IEA | 2021 | Liberia | 406.4 | 288.5 | 203.2 | 81.28 | 81.28 | 44.70 | 406.4 |
| AIB-RM | 2022 | Luxembourg | 142.4 | 52.5 | 37.0 | 14.80 | 14.80 | 8.14 | 74.0 |
| IEA | 2022 | Macedonia | 671.9 | 477.1 | 336.0 | 134.38 | 134.38 | 73.91 | 671.9 |
| MEX | 2022 | Mexico | 391.0 | 308.9 | 217.5 | 87.00 | 87.00 | 47.85 | 435.0 |
| IEA | 2022 | Morocco | 759.5 | 539.3 | 379.8 | 151.90 | 151.90 | 83.55 | 759.5 |
| AIB-RM | 2022 | Poland | 858.0 | 537.5 | 378.5 | 151.40 | 151.40 | 83.27 | 757.0 |
| AIB-RM | 2022 | Romania | 276.0 | 192.4 | 135.5 | 54.20 | 54.20 | 29.81 | 271.0 |
| IEA | 2022 | South Africa | 1040.0 | 738.4 | 520.0 | 208.00 | 208.00 | 114.40 | 1040.0 |
| AIB-RM | 2022 | Spain | 275.0 | 116.4 | 82.0 | 32.80 | 32.80 | 18.04 | 164.0 |
| IEA | 2021 | Ukraine | 288.6 | 204.9 | 144.3 | 57.72 | 57.72 | 31.75 | 288.6 |
| IEA | 2022 | United States | 350.7 | 249.0 | 175.4 | 70.14 | 70.14 | 38.58 | 350.7 |
| USA | 2022 | United States – Alabama | 340.6 | 241.8 | 170.3 | 68.12 | 68.12 | 37.47 | 340.6 |
| USA | 2022 | United States – Ohio – Ohio | 388.5 | 275.8 | 194.3 | 77.70 | 77.70 | 42.74 | 388.5 |
| USA | 2022 | United States – Texas – Texas | 548.0 | 389.1 | 274.0 | 109.60 | 109.60 | 60.28 | 548.0 |
| IEA | 2021 | Venezuela | 147.3 | 104.6 | 73.7 | 29.46 | 29.46 | 16.20 | 147.3 |

| able 2 – Electricity: CO_2 equivalent (supplier specific EF) | | | | | | | |
|--|--------------------------------|-------|-------|-------|-------|-------|-------|
| | Canada – Contrecoeur | 0.6 | 0.4 | 0.3 | 0.12 | 0.12 | 0.07 |
| | Mexico – Lázaro Cárdenas | 391.0 | 277.6 | 195.5 | 78.20 | 78.20 | 43.01 |

Section 3 – Appendix continued

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| | oporean emission ereams |
|------|-------------------------|
| | |
| Codo | Stroom name |

Table 3 – Upstream emission str

| Code | Stredit fluttle |
|--------|---------------------------|
| | Products |
| Pr-01 | Merchant sinter |
| Pr-40 | Pellets |
| Pr-02 | BF pig iron |
| Pr-02a | Bio charcoal pig iron |
| Pr-02b | Non-Bio charcoal pig iron |
| Pr-03 | DRI |
| Pr-04 | SR pig iron |
| | Condensed Fuels |
| CF-01a | Home coke |
| CF-01b | Purchased coke |
| CF-01c | Purchased small coke |
| CF-02 | Coke breeze |
| CF-03 | Coking coal |
| CF-04 | Anthracite |
| CF-05 | BF injection coal |
| CF-06 | SR/Steam coal |
| CF-07 | EAF coal |
| CF-08 | Petroleum coke |
| CF-09 | Heavy oil |
| CF-10 | Light oil |
| CF-11 | Diesel oil |
| CF-11a | Gasoline |
| CF-12 | LPG |
| CF-13 | Charcoal |
| CF-13a | Internal organic charcoal |
| CF-13b | External organic charcoal |
| CF-13c | Charcoal fines |
| | |

| Code | Stream name | (|
|-------|-----------------------|----------|
| | Gas Fuels | |
| GF-05 | Natural gas | Ν |
| GF-05 | Natural gas – Europe | Ν |
| GF-05 | Natural gas – Spain | Ν |
| GF-05 | Natural gas – Belgium | N |
| GF-05 | Natural gas – France | Ν |
| GF-05 | Natural gas – Germany | Ν |
| GF-05 | Natural gas – Poland | Ν |
| | Utilities | Ν |
| Ut-01 | Electricity | Ν |
| Ut-02 | HP steam | Ν |
| Ut-03 | LP steam | <u>۱</u> |
| Ut-04 | Hot water | N |
| Ut-05 | High purity oxygen | N |
| Ut-06 | Low purity oxygen | N |
| Ut-07 | Nitrogen | N |
| Ut-08 | Argon | N |
| Ut-09 | Compressed air | N |
| | | N |
| | | N |
| | | N |
| | | N |
| | | <u> </u> |
| | | Ν |

| Code | Stream name |
|-------|---------------------------------|
| | Materials |
| Ma-01 | EAF electrodes |
| Ma-02 | SR electrodes |
| Ma-08 | Limestone |
| Ma-09 | Burnt lime |
| Ma-10 | Raw dolomite |
| Ma-11 | Burnt dolomite |
| Ma-12 | Fine iron ore |
| Ma-13 | Lump ore |
| Ma-14 | Pellets |
| Ma-03 | Ferro-chromium |
| Ma-04 | Ferro-manganese |
| Ma-05 | Nickel |
| Ma-27 | FerroNobium |
| Ma-28 | Ferro Titanium |
| Ma-31 | FerroSilicium 100mm |
| Ma-33 | SilicoMaganese |
| Ma-36 | FerroMolybdenum |
| Ma-47 | FerroVanadium |
| Ma-50 | Zinc (for coating) |
| Ma-51 | Magnesium (for coating) |
| Ma-52 | Tin (for coating) |
| Ma-53 | Aluminium |
| Ma-54 | Silicium (for coating) |
| Ma-55 | Chromium (for tin-free plating) |
| Ma-56 | Paint |
| Ma-57 | Solvents (for organic coating) |
| Ma-58 | Acids (for cold rolling) |
| Ma-59 | Nitrogen Fertilizers 8% |
| Ma-60 | Nitrogen Fertilizers 10% |
| Ma-61 | Nitrogen Fertilizers 18% |
| | |

Note: for the current reporting year, ArcelorMittal has used its own scope 3 emission factors. In future years, ArcelorMittal will switch to using GaBi/Sphera emission factors.

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Table 4 – C content and ncv's (net calorific value) – (CO₂ = 3.66 * C content)

| Product code | Stream |
|-----------------------|---------------------------------|
| | Products |
| PR-01 | Merchant Sinter |
| PR-02 PR-04 | Pig Iron |
| PR-03 | DRI |
| PR-05 to Pr-34 | Flat Steel |
| PR-05 to Pr-34 | Long Steel |
| | Cond Fuels |
| CF-01a to CF-01c | Coke |
| CF-02 | Coke Breeze |
| CF-03 | Coking coal |
| CF-04 | Anthracite |
| CF-05 to CF-07 | BF injection Coal |
| CF-08 | Petroleum Coke |
| CF-09 CF-14 CF-15 | Heavy oil (d=0.85) |
| CF-10 CF-11 | Light oil (d=0.85) |
| CF-12 | LPG |
| CF-13 | Charcoal (d=0.25) |
| CF-16 | Used Plastics |
| CF-17 | Used Tyres |
| CF-18 | Bio fuel |
| CF-19 | Other combustible (LCV burn) |
| | Gas Fuels |
| GF-01 | Coke Oven Gas |
| GF-02 | Blast Furnace Gas |
| GF-03 | Smelting Reduction Gas |
| GF-04 | BOF Gas |
| GF-05 | Natural Gas |
| | |

| = 3.66 * C content | | | |
|--------------------|---------------|---------------------------|-------------|
| | Defau | ult values | |
| С | С | Calorific | Calorific |
| content | content | value | value |
| C (t/t) | | | |
| 0.0000 | | | |
| 0.0470 | | | |
| 0.0200 | | | |
| 0.0004 | | | |
| 0.0010 | | | |
| C (t/t) | C (t/m³) | ncv (MJ/t) | ncv (MJ/m³) |
| 0.8800 | | 30,135 | |
| 0.8500 | | 29,925 | |
| 0.8200 | | 32,230 | |
| 0.7900 | | 29,300 | |
| 0.8000 | | 31,140 | |
| 0.8500 | | 31,935 | |
| 0.8650 | | 39,845 | |
| 0.8450 | 0.7183 | 41,982 | 35,685 |
| 0.8218 | 0.0179 t C/GJ | 46,030 | 1,000 MJ/GJ |
| 0.7000 | 0.1800 | 18,810 | 4,703 |
| 0.7200 | | 46,000 | |
| 0.6000 | | 35,000 | |
| 0.7778 | | 37,800 | |
| 0.8042 | | 40,200 | |
| - (| | | |
| C (kg/m³N) | | ncv (MJ/m ³ N) | |
| 0.2390 | | 19.685 | |
| 0.2390 | | 3.185 | |
| 0.4287 | | 7.660 | |
| 0.4662 | | 9.190 | |
| 0.5495 | | 35.920 | |

Table 4 – C content, CO_2 and ncv's (net calorific value) Product code Stream Materials Ma-01 | Ma-02 EAF Electrodes Ferro Chromium Ma-03 Ma-04 Ferro Manganese Ma-31 Ferro Silicon Ma-33 Silico Manganese Ma-47 Ferro Vanadium Ma-36 Ferro Molybdenum Ma-28 Ferro Titanium Ma-27 Ferro Nobium Ma-06 | Ma-07 Scraps Ma-08 Limestone Ma-09 Burnt Lime Ma-10 Crude Dolomite Ma-11 Burnt Dolomite Ma-12 Fine Iron Ore Ma-13 Lump Ore Ma-14 Pellets Ma-15 Bedding Residues Res-01 Tar Res-02 Benzole Res-03 Naphtalenic oil Res-04 CDQ Dust Res-05 Coke quenching breeze BF gas cleaning dust Res-06 | Res-10 Res-07 BF gas sludge Res-09 DRI screening fines

Flat steel scraps

Long steel scraps

Res-13

Res-13

| | Default | t values | |
|---------|----------|----------------------|-------------|
| С | С | Calorific | Calorific |
| content | content | value | value |
| C (t/t) | | Eq. Energy (MJ/t) | |
| 0.9990 | | | |
| 0.0650 | | | |
| 0.0750 | | | |
| 0.0001 | | | |
| 0.0179 | | | |
| 0.0019 | | | |
| 0.0005 | | | |
| 0.0026 | | | |
| 0.0009 | | | |
| 0.0010 | | | |
| 0.1200 | | | |
| 0.0065 | | 3,600 | |
| 0.1300 | | | |
| 0.0065 | | 3,600 | |
| 0.0005 | | | |
| 0.0015 | | | |
| 0.0001 | | | |
| | | | |
| C (t/t) | C (t/m³) | ncv (MJ/t) | ncv (MJ/m³) |
| 0.9250 | | 37,670 | |
| 0.9185 | | 46,040 | |
| | 0.7183 | | 35,685 |
| 0.8800 | | 30,135 | |
| 0.8800 | | 29,925 | |
| 0.4000 | | 13,698 | |
| 0.4000 | | 13,698 | |
| 0.0200 | | | |
| 0.0004 | | | |
| 0.0010 | | | |

Section 3 – Appendix continued

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| Table 5 – Energy equivalent for the different streams | | (figures updated 04/03/21) |
|---|-------------------|-----------------------------------|
| Stream type | Equivalent energy | Unit |
| Burnt lime | 3,600 | MJ/t |
| Burnt dolomite | 3,600 | MJ/t |
| Pellets | 1,250 | MJ/t |
| Electricity | 9.208 | GJ/MWh |
| HP steam | 3,350 | MJ/t |
| LP steam | 3,050 | MJ/t |
| Hot water | 850 | MJ/t |
| Low purity oxygen | 4.6 | GJ/10 ³ m ³ |
| High purity oxygen | 6.54 | GJ/10 ³ m ³ |
| Nitrogen | 1.84 | GJ/10 ³ m ³ |
| Argon | 1.84 | GJ/10 ³ m ³ |
| Compressed air | 1.01 | GJ/10 ³ m ³ |

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ArcelorMittal 24-26, Boulevard d'Avranches L-1160 Luxembourg Grand Duchy of Luxembourg

corporate.arcelormittal.com

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