

Base year Scope 3, Category 5: Waste generated in operations emissions covered by target (metric tons CO2e)

Base year Scope 3, Category 6: Business travel emissions covered by target (metric tons CO2e)

Base year Scope 3, Category 7: Employee commuting emissions covered by target (metric tons CO2e)

Base year Scope 3, Category 8: Upstream leased assets emissions covered by target (metric tons CO2e)

Base year Scope 3, Category 9: Downstream transportation and distribution emissions covered by target (metric tons CO2e)

Base year Scope 3, Category 10: Processing of sold products emissions covered by target (metric tons CO2e)

Base year Scope 3, Category 11: Use of sold products emissions covered by target (metric tons CO2e)

444.300

Base year Scope 3, Category 12: End-of-life treatment of sold products emissions covered by target (metric tons CO2e)

Base year Scope 3, Category 13: Downstream leased assets emissions covered by target (metric tons CO2e)

Base year Scope 3, Category 14: Franchises emissions covered by target (metric tons CO2e)

Base year Scope 3, Category 15: Investments emissions covered by target (metric tons CO2e)

Base year Scope 3, Other (upstream) emissions covered by target (metric tons CO2e)

Base year Scope 3, Other (downstream) emissions covered by target (metric tons CO2e)

Base year total Scope 3 emissions covered by target (metric tons CO2e)

444.300

Total base year emissions covered by target in all selected Scopes (metric tons CO2e)

444.300

Base year Scope 1 emissions covered by target as % of total base year emissions in Scope 1

Base year Scope 2 emissions covered by target as % of total base year emissions in Scope 2

Base year Scope 3, Category 1: Purchased goods and services emissions covered by target as % of total base year emissions in Scope 3, Category 1: Purchased goods and services (metric tons CO2e)

Base year Scope 3, Category 2: Capital goods emissions covered by target as % of total base year emissions in Scope 3, Category 2: Capital goods (metric tons CO2e)

Base year Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions covered by target as % of total base year emissions in Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) (metric tons CO2e)

Base year Scope 3, Category 4: Upstream transportation and distribution covered by target as % of total base year emissions in Scope 3, Category 4: Upstream transportation and distribution (metric tons CO2e)

Base year Scope 3, Category 5: Waste generated in operations emissions covered by target as % of total base year emissions in Scope 3, Category 5: Waste generated in operations (metric tons CO2e)

Base year Scope 3, Category 6: Business travel emissions covered by target as % of total base year emissions in Scope 3, Category 6: Business travel (metric tons CO2e)

Base year Scope 3, Category 7: Employee commuting covered by target as % of total base year emissions in Scope 3, Category 7: Employee commuting (metric tons CO2e)

Base year Scope 3, Category 8: Upstream leased assets emissions covered by target as % of total base year emissions in Scope 3, Category 8: Upstream leased assets (metric tons CO2e)

Base year Scope 3, Category 9: Downstream transportation and distribution emissions covered by target as % of total base year emissions in Scope 3, Category 9: Downstream transportation and distribution (metric tons CO2e)

Base year Scope 3, Category 10: Processing of sold products emissions covered by target as % of total base year emissions in Scope 3, Category 10: Processing of sold products (metric tons CO2e)

Base year Scope 3, Category 11: Use of sold products emissions covered by target as % of total base year emissions in Scope 3, Category 11: Use of sold products (metric tons CO2e)

10,7

Base year Scope 3, Category 12: End-of-life treatment of sold products emissions covered by target as % of total base year emissions in Scope 3, Category 12: End-of-life treatment of sold products (metric tons CO2e)

Base year Scope 3, Category 13: Downstream leased assets emissions covered by target as % of total base year emissions in Scope 3, Category 13: Downstream leased assets (metric tons CO2e)

Base year Scope 3, Category 14: Franchises emissions covered by target as % of total base year emissions in Scope 3, Category 14: Franchises (metric tons CO2e)

Base year Scope 3, Category 15: Investments emissions covered by target as % of total base year emissions in Scope 3, Category 15: Investments (metric tons CO2e)

Base year Scope 3, Other (upstream) emissions covered by target as % of total base year emissions in Scope 3, Other (upstream) (metric tons CO2e)

Base year Scope 3, Other (downstream) emissions covered by target as % of total base year emissions in Scope 3, Other (downstream) (metric tons CO2e)

Base year total Scope 3 emissions covered by target as % of total base year emissions in Scope 3 (in all Scope 3 categories)

1,9

Base year emissions covered by target in all selected Scopes as % of total base year emissions in all selected Scopes

1,9

Target year

2030

Targeted reduction from base year (%)

22,5

Total emissions in target year covered by target in all selected Scopes (metric tons CO2e) [auto-calculated]

344.332,5

Scope 1 emissions in reporting year covered by target (metric tons CO2e)

Scope 2 emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 1: Purchased goods and services emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 2: Capital goods emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 4: Upstream transportation and distribution emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 5: Waste generated in operations emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 6: Business travel emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 7: Employee commuting emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 8: Upstream leased assets emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 9: Downstream transportation and distribution emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 10: Processing of sold products emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 11: Use of sold products emissions in reporting year covered by target (metric tons CO2e)

258.600

Scope 3, Category 12: End-of-life treatment of sold products emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 13: Downstream leased assets emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 14: Franchises emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Category 15: Investments emissions in reporting year covered by target (metric tons CO2e)

Scope 3, Other (upstream) emissions in reporting year covered by target (metric tons CO2e)

**Scope 3, Other (downstream) emissions in reporting year covered by target
(metric tons CO2e)**

**Total Scope 3 emissions in reporting year covered by target (metric tons
CO2e)**

258.600

**Total emissions in reporting year covered by target in all selected scopes
(metric tons CO2e)**

258.600

Does this target cover any land-related emissions?

Yes, it covers land-related CO2 emissions/removals associated with bioenergy and non-
land related emissions (e.g. non-FLAG SBT with bioenergy)

% of target achieved relative to base year [auto-calculated]

185,7603721209

Target status in reporting year

New

Please explain target coverage and identify any exclusions

Target covers direct emissions during use from fossil fuel sold and distributed (Share of
scope 3 category 11)

Plan for achieving target, and progress made to the end of the reporting year

Strategy under development / planned for end of 2024

**List the emissions reduction initiatives which contributed most to achieving
this target**

C4.1b

**(C4.1b) Provide details of your emissions intensity target(s) and progress made
against those target(s).**

Target reference number

Int 1

Is this a science-based target?

Yes, and this target has been approved by the Science Based Targets initiative

Target ambition

Well-below 2°C aligned

Year target was set

2022

Target coverage

Company-wide

Scope(s)

Scope 1

Scope 2 accounting method

Scope 3 category(ies)

Intensity metric

Metric tons CO₂e per megawatt hour (MWh)

Base year

2021

Intensity figure in base year for Scope 1 (metric tons CO₂e per unit of activity)

0,5

Intensity figure in base year for Scope 2 (metric tons CO₂e per unit of activity)

Intensity figure in base year for Scope 3, Category 1: Purchased goods and services (metric tons CO₂e per unit of activity)

Intensity figure in base year for Scope 3, Category 2: Capital goods (metric tons CO₂e per unit of activity)

Intensity figure in base year for Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) (metric tons CO₂e per unit of activity)

Intensity figure in base year for Scope 3, Category 4: Upstream transportation and distribution (metric tons CO₂e per unit of activity)

Intensity figure in base year for Scope 3, Category 5: Waste generated in operations (metric tons CO₂e per unit of activity)

Intensity figure in base year for Scope 3, Category 6: Business travel (metric tons CO₂e per unit of activity)

**Intensity figure in base year for Scope 3, Category 7: Employee commuting
(metric tons CO₂e per unit of activity)**

**Intensity figure in base year for Scope 3, Category 8: Upstream leased assets
(metric tons CO₂e per unit of activity)**

**Intensity figure in base year for Scope 3, Category 9: Downstream
transportation and distribution (metric tons CO₂e per unit of activity)**

**Intensity figure in base year for Scope 3, Category 10: Processing of sold
products (metric tons CO₂e per unit of activity)**

**Intensity figure in base year for Scope 3, Category 11: Use of sold products
(metric tons CO₂e per unit of activity)**

**Intensity figure in base year for Scope 3, Category 12: End-of-life treatment of
sold products (metric tons CO₂e per unit of activity)**

**Intensity figure in base year for Scope 3, Category 13: Downstream leased
assets (metric tons CO₂e per unit of activity)**

**Intensity figure in base year for Scope 3, Category 14: Franchises (metric tons
CO₂e per unit of activity)**

**Intensity figure in base year for Scope 3, Category 15: Investments (metric
tons CO₂e per unit of activity)**

**Intensity figure in base year for Scope 3, Other (upstream) (metric tons CO₂e
per unit of activity)**

**Intensity figure in base year for Scope 3, Other (downstream) (metric tons
CO₂e per unit of activity)**

**Intensity figure in base year for total Scope 3 (metric tons CO₂e per unit of
activity)**

Intensity figure in base year for all selected Scopes (metric tons CO₂e per unit of activity)

0,5

% of total base year emissions in Scope 1 covered by this Scope 1 intensity figure

19

% of total base year emissions in Scope 2 covered by this Scope 2 intensity figure

% of total base year emissions in Scope 3, Category 1: Purchased goods and services covered by this Scope 3, Category 1: Purchased goods and services intensity figure

% of total base year emissions in Scope 3, Category 2: Capital goods covered by this Scope 3, Category 2: Capital goods intensity figure

% of total base year emissions in Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) covered by this Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) intensity figure

% of total base year emissions in Scope 3, Category 4: Upstream transportation and distribution covered by this Scope 3, Category 4: Upstream transportation and distribution intensity figure

% of total base year emissions in Scope 3, Category 5: Waste generated in operations covered by this Scope 3, Category 5: Waste generated in operations intensity figure

% of total base year emissions in Scope 3, Category 6: Business travel covered by this Scope 3, Category 6: Business travel intensity figure

% of total base year emissions in Scope 3, Category 7: Employee commuting covered by this Scope 3, Category 7: Employee commuting intensity figure

% of total base year emissions in Scope 3, Category 8: Upstream leased assets covered by this Scope 3, Category 8: Upstream leased assets intensity figure

% of total base year emissions in Scope 3, Category 9: Downstream transportation and distribution covered by this Scope 3, Category 9: Downstream transportation and distribution intensity figure

% of total base year emissions in Scope 3, Category 10: Processing of sold products covered by this Scope 3, Category 10: Processing of sold products intensity figure

% of total base year emissions in Scope 3, Category 11: Use of sold products covered by this Scope 3, Category 11: Use of sold products intensity figure

% of total base year emissions in Scope 3, Category 12: End-of-life treatment of sold products covered by this Scope 3, Category 12: End-of-life treatment of sold products intensity figure

% of total base year emissions in Scope 3, Category 13: Downstream leased assets covered by this Scope 3, Category 13: Downstream leased assets intensity figure

% of total base year emissions in Scope 3, Category 14: Franchises covered by this Scope 3, Category 14: Franchises intensity figure

% of total base year emissions in Scope 3, Category 15: Investments covered by this Scope 3, Category 15: Investments intensity figure

% of total base year emissions in Scope 3, Other (upstream) covered by this Scope 3, Other (upstream) intensity figure

% of total base year emissions in Scope 3, Other (downstream) covered by this Scope 3, Other (downstream) intensity figure

% of total base year emissions in Scope 3 (in all Scope 3 categories) covered by this total Scope 3 intensity figure

% of total base year emissions in all selected Scopes covered by this intensity figure

19

Target year

2030

Targeted reduction from base year (%)

44

Intensity figure in target year for all selected Scopes (metric tons CO₂e per unit of activity) [auto-calculated]

0,28

% change anticipated in absolute Scope 1+2 emissions

-4,63

% change anticipated in absolute Scope 3 emissions

0

Intensity figure in reporting year for Scope 1 (metric tons CO₂e per unit of activity)

0,48

Intensity figure in reporting year for Scope 2 (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 1: Purchased goods and services (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 2: Capital goods (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 4: Upstream transportation and distribution (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 5: Waste generated in operations (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 6: Business travel (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 7: Employee commuting (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 8: Upstream leased assets (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 9: Downstream transportation and distribution (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 10: Processing of sold products (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 11: Use of sold products (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 12: End-of-life treatment of sold products (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 13: Downstream leased assets (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 14: Franchises (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 15: Investments (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Other (upstream) (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Other (downstream) (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for total Scope 3 (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for all selected Scopes (metric tons CO₂e per unit of activity)

0,48

Does this target cover any land-related emissions?

Yes, it covers land-related CO₂ emissions/removals associated with bioenergy and non-land related emissions (e.g. non-FLAG SBT with bioenergy)

% of target achieved relative to base year [auto-calculated]

9,0909090909

Target status in reporting year

New

Please explain target coverage and identify any exclusions

Target covers scope 1 emissions resulting from own electricity generation.

Plan for achieving target, and progress made to the end of the reporting year

New power plants at Evonik's Marl site: Irrespective of the continued operation of the coal-fired power plant in Marl (Germany) on a temporary, crisis-induced basis in the reporting year, the commissioning of the two new gas and steam turbine power plants will bring a fundamental change in Evonik's emissions profile and a substantial reduction in further emissions in the future.

List the emissions reduction initiatives which contributed most to achieving this target

Target reference number

Int 2

Is this a science-based target?

Yes, and this target has been approved by the Science Based Targets initiative

Target ambition

Well-below 2°C aligned

Year target was set

2022

Target coverage

Company-wide

Scope(s)

Scope 1

Scope 3

Scope 2 accounting method

Scope 3 category(ies)

Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2)

Intensity metric

Metric tons CO₂e per megawatt hour (MWh)

Base year

2021

Intensity figure in base year for Scope 1 (metric tons CO₂e per unit of activity)

0,5

Intensity figure in base year for Scope 2 (metric tons CO₂e per unit of activity)

Intensity figure in base year for Scope 3, Category 1: Purchased goods and services (metric tons CO₂e per unit of activity)

Intensity figure in base year for Scope 3, Category 2: Capital goods (metric tons CO₂e per unit of activity)

Intensity figure in base year for Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) (metric tons CO₂e per unit of activity)

0,6

Intensity figure in base year for Scope 3, Category 4: Upstream transportation and distribution (metric tons CO₂e per unit of activity)

Intensity figure in base year for Scope 3, Category 5: Waste generated in operations (metric tons CO₂e per unit of activity)

Intensity figure in base year for Scope 3, Category 6: Business travel (metric tons CO₂e per unit of activity)

Intensity figure in base year for Scope 3, Category 7: Employee commuting (metric tons CO₂e per unit of activity)

Intensity figure in base year for Scope 3, Category 8: Upstream leased assets (metric tons CO₂e per unit of activity)

Intensity figure in base year for Scope 3, Category 9: Downstream transportation and distribution (metric tons CO₂e per unit of activity)

Intensity figure in base year for Scope 3, Category 10: Processing of sold products (metric tons CO₂e per unit of activity)

Intensity figure in base year for Scope 3, Category 11: Use of sold products (metric tons CO₂e per unit of activity)

Intensity figure in base year for Scope 3, Category 12: End-of-life treatment of sold products (metric tons CO₂e per unit of activity)

Intensity figure in base year for Scope 3, Category 13: Downstream leased assets (metric tons CO₂e per unit of activity)

Intensity figure in base year for Scope 3, Category 14: Franchises (metric tons CO₂e per unit of activity)

Intensity figure in base year for Scope 3, Category 15: Investments (metric tons CO₂e per unit of activity)

Intensity figure in base year for Scope 3, Other (upstream) (metric tons CO₂e per unit of activity)

Intensity figure in base year for Scope 3, Other (downstream) (metric tons CO₂e per unit of activity)

Intensity figure in base year for total Scope 3 (metric tons CO₂e per unit of activity)

0,6

Intensity figure in base year for all selected Scopes (metric tons CO₂e per unit of activity)

0,54

% of total base year emissions in Scope 1 covered by this Scope 1 intensity figure

19

% of total base year emissions in Scope 2 covered by this Scope 2 intensity figure

% of total base year emissions in Scope 3, Category 1: Purchased goods and services covered by this Scope 3, Category 1: Purchased goods and services intensity figure

% of total base year emissions in Scope 3, Category 2: Capital goods covered by this Scope 3, Category 2: Capital goods intensity figure

% of total base year emissions in Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) covered by this Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) intensity figure

38,5

% of total base year emissions in Scope 3, Category 4: Upstream transportation and distribution covered by this Scope 3, Category 4: Upstream transportation and distribution intensity figure

% of total base year emissions in Scope 3, Category 5: Waste generated in operations covered by this Scope 3, Category 5: Waste generated in operations intensity figure

% of total base year emissions in Scope 3, Category 6: Business travel covered by this Scope 3, Category 6: Business travel intensity figure

% of total base year emissions in Scope 3, Category 7: Employee commuting covered by this Scope 3, Category 7: Employee commuting intensity figure

% of total base year emissions in Scope 3, Category 8: Upstream leased assets covered by this Scope 3, Category 8: Upstream leased assets intensity figure

% of total base year emissions in Scope 3, Category 9: Downstream transportation and distribution covered by this Scope 3, Category 9: Downstream transportation and distribution intensity figure

% of total base year emissions in Scope 3, Category 10: Processing of sold products covered by this Scope 3, Category 10: Processing of sold products intensity figure

% of total base year emissions in Scope 3, Category 11: Use of sold products covered by this Scope 3, Category 11: Use of sold products intensity figure

% of total base year emissions in Scope 3, Category 12: End-of-life treatment of sold products covered by this Scope 3, Category 12: End-of-life treatment of sold products intensity figure

% of total base year emissions in Scope 3, Category 13: Downstream leased assets covered by this Scope 3, Category 13: Downstream leased assets intensity figure

% of total base year emissions in Scope 3, Category 14: Franchises covered by this Scope 3, Category 14: Franchises intensity figure

% of total base year emissions in Scope 3, Category 15: Investments covered by this Scope 3, Category 15: Investments intensity figure

% of total base year emissions in Scope 3, Other (upstream) covered by this Scope 3, Other (upstream) intensity figure

% of total base year emissions in Scope 3, Other (downstream) covered by this Scope 3, Other (downstream) intensity figure

% of total base year emissions in Scope 3 (in all Scope 3 categories) covered by this total Scope 3 intensity figure

2,9

% of total base year emissions in all selected Scopes covered by this intensity figure

5,4

Target year

2030

Targeted reduction from base year (%)

44

Intensity figure in target year for all selected Scopes (metric tons CO₂e per unit of activity) [auto-calculated]

0,3024

% change anticipated in absolute Scope 1+2 emissions

-4,6

% change anticipated in absolute Scope 3 emissions

-1

Intensity figure in reporting year for Scope 1 (metric tons CO₂e per unit of activity)

0,48

Intensity figure in reporting year for Scope 2 (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 1: Purchased goods and services (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 2: Capital goods (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) (metric tons CO₂e per unit of activity)

0,57

Intensity figure in reporting year for Scope 3, Category 4: Upstream transportation and distribution (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 5: Waste generated in operations (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 6: Business travel (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 7: Employee commuting (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 8: Upstream leased assets (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 9: Downstream transportation and distribution (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 10: Processing of sold products (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 11: Use of sold products (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 12: End-of-life treatment of sold products (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 13: Downstream leased assets (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 14: Franchises (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Category 15: Investments (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Other (upstream) (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for Scope 3, Other (downstream) (metric tons CO₂e per unit of activity)

Intensity figure in reporting year for total Scope 3 (metric tons CO₂e per unit of activity)

0,57

Intensity figure in reporting year for all selected Scopes (metric tons CO₂e per unit of activity)

0,52

Does this target cover any land-related emissions?

Yes, it covers land-related CO₂ emissions/removals associated with bioenergy and non-land related emissions (e.g. non-FLAG SBT with bioenergy)

% of target achieved relative to base year [auto-calculated]

8,4175084175

Target status in reporting year

New

Please explain target coverage and identify any exclusions

This target covers emissions from own electricity generation (self consumed as well as sold; part of scope 1) and from purchased and sold electricity (part of scope 3 category 3)

Plan for achieving target, and progress made to the end of the reporting year

- New power plants at Evonik's Marl site: Irrespective of the continued operation of the coal-fired power plant in Marl (Germany) on a temporary, crisis-induced basis in the reporting year, the commissioning of the two new gas and steam turbine power plants will bring a fundamental change in Evonik's emissions profile and a substantial reduction in further emissions in the future.
- Engagement of electricity customers to switch to green electricity.

List the emissions reduction initiatives which contributed most to achieving this target

C4.2

(C4.2) Did you have any other climate-related targets that were active in the reporting year?

Target(s) to increase low-carbon energy consumption or production
Other climate-related target(s)

C4.2a

(C4.2a) Provide details of your target(s) to increase low-carbon energy consumption or production.

Target reference number

Low 1

Year target was set

2023

Target coverage

Other, please specify
Company wide, externally sourced electricity

Target type: energy carrier

Electricity

Target type: activity

Consumption

Target type: energy source

Renewable energy source(s) only

Base year

2022

Consumption or production of selected energy carrier in base year (MWh)

2.755.556

% share of low-carbon or renewable energy in base year

23

Target year

2030

% share of low-carbon or renewable energy in target year

100

% share of low-carbon or renewable energy in reporting year

23

% of target achieved relative to base year [auto-calculated]

0

Target status in reporting year

New

Is this target part of an emissions target?

In context with the Evonik target of becoming climate neutral until 2050.

Is this target part of an overarching initiative?

Science Based Targets initiative

Please explain target coverage and identify any exclusions

Company wide, externally sourced electricity only

Plan for achieving target, and progress made to the end of the reporting year

At our European sites, we will become significantly less dependent on fossil fuels from 2026. In November 2022, we were able to conclude a long-term power purchase agreement with EnBW for the 900 megawatt (MW) He Dreiht offshore wind farm. On the basis of this Power Purchase Agreement (PPA), Evonik will purchase the output of a 100 MW share from the new wind farm in the German North Sea over a contract period of 15 years. In December 2022, a second PPA expanded this share by a further 50 MW. Already today, 23 percent of Evonik's externally sourced electricity worldwide comes from renewable sources. The PPAs with EnBW significantly increase this share to around 50 percent.

List the actions which contributed most to achieving this target

C4.2b

(C4.2b) Provide details of any other climate-related targets, including methane reduction targets.

Target reference number

Oth 1

Year target was set

2020

Target coverage

Company-wide

Target type: absolute or intensity

Absolute

Target type: category & Metric (target numerator if reporting an intensity target)

Energy consumption or efficiency

Other, please specify

TJ

Target denominator (intensity targets only)

Base year

2020

Figure or percentage in base year

64.900

Target year

2025

Figure or percentage in target year

61.655

Figure or percentage in reporting year

64.260

% of target achieved relative to base year [auto-calculated]

19,7226502311

Target status in reporting year

Underway

Is this target part of an emissions target?

yes

Is this target part of an overarching initiative?

No, it's not part of an overarching initiative

Please explain target coverage and identify any exclusions

Evonik aims to reduce both absolute and specific energy consumption by 5 percent by 2025 (baseline year: 2020). That is helped by new technologies and efficient processes such as digitally controlled energy systems. In this way, our digital energy management system (EnMS) supports the achievement of operational energy targets at our sites.

The ISO 50001-validated energy management system was used at 48 sites in the reporting period. As a result, more than 80 percent of our global energy consumption is subject to continuous improvement via a certified EnMS. In 2022, we successfully certified further sites in Europe and Asia-Pacific. ISO 50001 certification is planned for a further 20 sites in the coming years. The EnMS is being switched stepwise to a uniform digital basis for all sites, supporting all steps from energy data capture through data analysis to monitoring the action taken. The benefits of the digital EnMS are increased global data transparency and, in particular, faster, automated availability of real-time data at plant level.

More than 70 sites are to be integrated into the digital EnMS by the end of 2026. Over 90 percent of the Evonik Group's energy consumption will then be continuously tracked by a central database.

Plan for achieving target, and progress made to the end of the reporting year

The following measures resulted in particularly high savings:

Sustained reduction in steam through optimization of normal operating conditions at the site in Mobile (Alabama, USA) (energy savings: 14.3 GWh p.a.)

- Use of optimized control technology for desalination valves in Witten (Germany) (energy savings: 11.6 GWh p.a.)

Replacement and start-up of a drier in Wesseling (Germany) (energy savings: 5.5 GWh p.a.)

- Modification of the advanced process control system for a raw material in Antwerp (Belgium) (energy savings: 1.4 GWh p.a.)

- Optimal realization of various energy efficiency measures resulted in a successful reduction in the amount of steam at the site in Rosario (Argentina) (energy savings: 4.1 GWh p.a.)

List the actions which contributed most to achieving this target

Target reference number

Oth 2

Year target was set

2020

Target coverage

Company-wide

Target type: absolute or intensity

Intensity

Target type: category & Metric (target numerator if reporting an intensity target)

Energy consumption or efficiency

Other, please specify

TJ

Target denominator (intensity targets only)

unit of production

Base year

2020

Figure or percentage in base year

100

Target year

2025

Figure or percentage in target year

95

Figure or percentage in reporting year

100,36

% of target achieved relative to base year [auto-calculated]

-7,2

Target status in reporting year

Underway

Is this target part of an emissions target?

yes

Is this target part of an overarching initiative?

No, it's not part of an overarching initiative

Please explain target coverage and identify any exclusions

Evonik aims to reduce both absolute and specific energy consumption by 5 percent by 2025 (baseline year: 2020). That is helped by new technologies and efficient processes such as digitally controlled energy systems. In this way, our digital energy management system (EnMS) supports the achievement of operational energy targets at our sites.

The ISO 50001-validated energy management system was used at 48 sites in the reporting period. As a result, more than 80 percent of our global energy consumption is subject to continuous improvement via a certified EnMS. In 2022, we successfully certified further sites in Europe and Asia-Pacific. ISO 50001 certification is planned for a further 20 sites in the coming years. The EnMS is being switched stepwise to a uniform digital basis for all sites, supporting all steps from energy data capture through data analysis to monitoring the action taken. The benefits of the digital EnMS are increased global data transparency and, in particular, faster, automated availability of real-time data at plant level.

More than 70 sites are to be integrated into the digital EnMS by the end of 2026. Over 90 percent of the Evonik Group's energy consumption will then be continuously tracked by a central database.

Plan for achieving target, and progress made to the end of the reporting year

Through the targeted rollout of energy efficiency measures, we reduced specific energy consumption at all sites that use the energy management system by an average of 3.8 percent a year between 2019 and 2021. The following measures resulted in particularly high savings:

Sustained reduction in steam through optimization of normal operating conditions at the site in Mobile (Alabama, USA) (energy savings: 14.3 GWh p.a.)

- Use of optimized control technology for desalination valves in Witten (Germany) (energy savings: 11.6 GWh p.a.)

Replacement and start-up of a drier in Wesseling (Germany) (energy savings: 5.5 GWh p.a.)

- Modification of the advanced process control system for a raw material in Antwerp (Belgium) (energy savings: 1.4 GWh p.a.)

- Optimal realization of various energy efficiency measures resulted in a successful reduction in the amount of steam at the site in Rosario (Argentina) (energy savings: 4.1 GWh p.a.)

List the actions which contributed most to achieving this target

C4.3

(C4.3) Did you have emissions reduction initiatives that were active within the reporting year? Note that this can include those in the planning and/or implementation phases.

Yes

C4.3a

(C4.3a) Identify the total number of initiatives at each stage of development, and for those in the implementation stages, the estimated CO₂e savings.

	Number of initiatives	Total estimated annual CO ₂ e savings in metric tonnes CO ₂ e (only for rows marked *)
Under investigation	132	13.813
To be implemented*	53	22.933
Implementation commenced*	84	35.085
Implemented*	139	109.501
Not to be implemented	25	5.567

C4.3b

(C4.3b) Provide details on the initiatives implemented in the reporting year in the table below.

Initiative category & Initiative type

Energy efficiency in buildings

Other, please specify

Lightning, HVAC, Insulation, Motors and Drives

Estimated annual CO₂e savings (metric tonnes CO₂e)

1.163

Scope(s) or Scope 3 category(ies) where emissions savings occur

Scope 1

Scope 2 (location-based)

Voluntary/Mandatory

Voluntary

Annual monetary savings (unit currency – as specified in C0.4)

347.051

Investment required (unit currency – as specified in C0.4)

1.193.105

Payback period

4-10 years

Estimated lifetime of the initiative

6-10 years

Comment

Initiative category & Initiative type

Energy efficiency in production processes

Other, please specify

Waste Heat Recovery, Cooling Technology, Process Optimization, Compressed Air, Waste Water Treatment, Reuse of Steam and Water, Machine/Equipment Replacement, Automation, Smart Control Systems, Motors and Drives

Estimated annual CO₂e savings (metric tonnes CO₂e)

64.870

Scope(s) or Scope 3 category(ies) where emissions savings occur

Scope 1

Scope 2 (location-based)

Voluntary/Mandatory

Voluntary

Annual monetary savings (unit currency – as specified in C0.4)

8.884.912

Investment required (unit currency – as specified in C0.4)

5.501.830

Payback period

<1 year

Estimated lifetime of the initiative

6-10 years

Comment

Initiative category & Initiative type

Waste reduction and material circularity

Other, please specify

Waste Reduction, Reuse of Water, Waste Heat, Steam, Waste

Estimated annual CO2e savings (metric tonnes CO2e)

7.843

Scope(s) or Scope 3 category(ies) where emissions savings occur

Scope 1

Scope 2 (location-based)

Voluntary/Mandatory

Voluntary

Annual monetary savings (unit currency – as specified in C0.4)

1.049.147

Investment required (unit currency – as specified in C0.4)

1.463.330

Payback period

1-3 years

Estimated lifetime of the initiative

6-10 years

Comment

Initiative category & Initiative type

Low-carbon energy generation

Other, please specify

Fuel switch from coal to natural gas

Estimated annual CO2e savings (metric tonnes CO2e)

35.446

Scope(s) or Scope 3 category(ies) where emissions savings occur

Scope 1

Scope 2 (location-based)

Voluntary/Mandatory

Voluntary

Annual monetary savings (unit currency – as specified in C0.4)

3.652.280

Investment required (unit currency – as specified in C0.4)

290.120.000

Payback period

>25 years

Estimated lifetime of the initiative

6-10 years

Comment

Including efficiency effect of new power plants (switch from coal to natrual gas)

Initiative category & Initiative type

Transportation

Other, please specify

Reduced ship transports

Estimated annual CO2e savings (metric tonnes CO2e)

159

Scope(s) or Scope 3 category(ies) where emissions savings occur

Scope 1

Scope 2 (location-based)

Voluntary/Mandatory

Voluntary

Annual monetary savings (unit currency – as specified in C0.4)

76.132

Investment required (unit currency – as specified in C0.4)

0

Payback period

<1 year

Estimated lifetime of the initiative

6-10 years

Comment

C4.3c

(C4.3c) What methods do you use to drive investment in emissions reduction activities?

Method	Comment
Financial optimization calculations	The payback period is generally set at 1-5 years. Measures with longer payback periods are kept back and re-assessed at a later date.
Internal price on carbon	New Investments and aquisitions are calculated against a Price of carbon which depends on the global Region. Speaking generally Evonik expects a world-wide Price on carbon by about 50€ within the next 10 years. Prior to

	this, price development may vary Region-/Country-wise and is taken into consideration.
Internal incentives/recognition programs	Each year, Evonik Industries presents the Innovation Award, which recognizes the most successful researchers in the Company, either by recognizing the development of new products/systems or new and improved processes resulting in lowering emissions or reduced energy consumption. Recognition is an important driver of creativity. This is why working on new ideas at Evonik Industries is richly rewarded in such a variety of ways. To motivate our most creative minds in research and development, for example, we have an internal Innovation Award, which is presented annually to acknowledge outstanding research achievements worth €30.000. Evonik's Innovation award is part of the overall incentive system impacting climate change issues, either by recognizing the development of new products/systems or new and improved processes.

C4.5

(C4.5) Do you classify any of your existing goods and/or services as low-carbon products?

Yes

C4.5a

(C4.5a) Provide details of your products and/or services that you classify as low-carbon products.

Level of aggregation

Group of products or services

Taxonomy used to classify product(s) or service(s) as low-carbon

Other, please specify

World Business Council for Sustainable Development (WBCSD)'s framework for Portfolio Sustainability Assessments (PSA)

Type of product(s) or service(s)

Chemicals and plastics

Other, please specify

Specialty chemicals and services that are rated as A+ or A++, based on the taxonomy described above (Portfolio Sustainability Assessment)

Description of product(s) or service(s)

The objective of the Portfolio Sustainability Assessment (PSA) is to proactively steer Evonik's product portfolio towards improved sustainability performance and to identify strengths and weaknesses of Evonik businesses. The PSA of all Evonik's chemicals products and solutions throughout their entire life cycle is performed at the level of

PARCs (product-application-region-combinations; a PARC comprises a product or group of products used for a defined application in a specific region). Based on market signals (including chemical exposure along the life cycle, anticipated regulatory trends, sustainability ambitions of stakeholders, and comparative environmental and social performance), the portfolio is categorized into the performance categories Leader (A++), Driver (A+), Performer (B), Transitioner (C-), or Challenged (C--). The products and services with an A+ or A++ rating are called "Next Generation Solutions". In 2022, they represented 37% of Evonik sales. In 2030, Evonik strives for >50%. As part of the "Next Generation Solutions", low carbon products contribute to avoided emissions which were published and audited externally for four examples: 1) Additives for high-tech thermal insulation, 2) Silica and silanes for "green tires" with low rolling resistance, 3) Amino acids for efficient animal feed formulations, 4) Lubricant additives for energy-efficient manufacturing processes (e.g. hydraulic equipment).

Have you estimated the avoided emissions of this low-carbon product(s) or service(s)

Yes

Methodology used to calculate avoided emissions

Addressing the Avoided Emissions Challenge- Chemicals sector

Life cycle stage(s) covered for the low-carbon product(s) or services(s)

Cradle-to-grave

Functional unit used

Avoided emissions were published and audited externally for four selected products and applications so far:

- 1) Thermal insulation: 1 metric ton of foam stabilizers in PU foam with a life expectancy of 12 years
- 2) Tires: Driving with a compact car tire over 150000 km
- 3) Animal feed formulations: 1 ton live weight or, in the case of feeding laying hens, 1 ton eggs
- 4) Hydraulic equipment: Operation of a hydraulic construction machine moving 1 million metric tons of mass

Reference product/service or baseline scenario used

- 1) Thermal insulation: Conventional, non-optimized foam stabilizers
- 2) Tires: Carbon black as filler material and E-SBR as tread component
- 3) Animal feed formulations: Feed mix with an amino acid supplementation customary in the regional market
- 4) Hydraulic equipment: Conventional hydraulic oils without DYNAVIS® technology (monograde)

Life cycle stage(s) covered for the reference product/service or baseline scenario

Cradle-to-grave

Estimated avoided emissions (metric tons CO₂e per functional unit) compared to reference product/service or baseline scenario

38.500.000

Explain your calculation of avoided emissions, including any assumptions

- 1) Thermal insulation: For the use of foam stabilizers the insulation of refrigerators, foam stabilizers optimized by Evonik were compared with the effect of insulation materials manufactured with conventional foam stabilizers. Energy savings were determined on the basis of suitable assumptions and converted into the thus enabled greenhouse gas emission savings. For reasons of simplicity, identical emissions (for example, those associated with the manufacture and disposal of foam stabilizers) were not taken into account. This approach had no impact on the amount of savings.
- 2) Tires: The "green tire" and the conventional carbon black tire were compared over their entire life cycle. To take the use phase into consideration, the required volume of tread components was included in the accounting for the distance of 150000 km, and the differences in fuel consumption and the associated greenhouse gas emissions were calculated for both systems. For reasons of simplicity, identical emissions (for example, those associated with the manufacture and disposal of the rest of the vehicle) were not taken into account. This approach had no impact on the amount of savings.
- 3) Animal feed formulations: Feeding of pigs, broilers and laying hens was covered. The composition of the feed mixes, the animals' nutritional demand and the regional origin of feed materials was adapted to the different regions. The difference in greenhouse gas emissions over the whole life cycle represents the avoided emissions.
- 4) Hydraulic equipment: Three different hydraulic oils based on Evonik DYNAVIS® technology were compared across their entire life cycle with a conventional monograde hydraulic oil. To take the use phase into account, all hydraulic oils were used in field tests in a mid-sized excavator. While the oil drain interval of the monograde fluid is 2000 hours, the other three fluids need to be changed after 4500 hours. For reasons of simplicity, identical emissions (for example, those associated with the manufacture and disposal of the rest of the vehicle other than the hydraulic oil) were not taken into account. This approach had no impact on the amount of the savings determined. Reductions in greenhouse gas emissions were calculated on the basis of emissions in the life cycles of the hydraulic oils and the fuel savings determined for the hydraulic oils based on DYNAVIS® technology.

Revenue generated from low-carbon product(s) or service(s) as % of total revenue in the reporting year

37

C5. Emissions methodology

C5.1

(C5.1) Is this your first year of reporting emissions data to CDP?

No

C5.1a

(C5.1a) Has your organization undergone any structural changes in the reporting year, or are any previous structural changes being accounted for in this disclosure of emissions data?

Row 1

Has there been a structural change?

No

C5.1b

(C5.1b) Has your emissions accounting methodology, boundary, and/or reporting year definition changed in the reporting year?

	Change(s) in methodology, boundary, and/or reporting year definition?
Row 1	No

C5.2

(C5.2) Provide your base year and base year emissions.

Scope 1

Base year start

Januar 1, 2021

Base year end

Dezember 31, 2021

Base year emissions (metric tons CO₂e)

4.381.100

Comment

Scope 2 (location-based)

Base year start

Januar 1, 2021

Base year end

Dezember 31, 2021

Base year emissions (metric tons CO₂e)

2.067.966

Comment

Scope 2 (market-based)

Base year start

Januar 1, 2008

Base year end

Dezember 31, 2008

Base year emissions (metric tons CO₂e)

1.915.900

Comment

Scope 3 category 1: Purchased goods and services

Base year start

Januar 1, 2021

Base year end

Dezember 31, 2021

Base year emissions (metric tons CO₂e)

13.072.000

Comment

Scope 3 category 2: Capital goods

Base year start

Januar 1, 2021

Base year end

Dezember 31, 2021

Base year emissions (metric tons CO₂e)

300.000

Comment

Scope 3 category 3: Fuel-and-energy-related activities (not included in Scope 1 or 2)

Base year start

Januar 1, 2021

Base year end

Dezember 31, 2021

Base year emissions (metric tons CO₂e)

1.498.000

Comment

Scope 3 category 4: Upstream transportation and distribution

Base year start

Januar 1, 2021

Base year end

Dezember 31, 2021

Base year emissions (metric tons CO₂e)

518.000

Comment

Scope 3 category 5: Waste generated in operations

Base year start

Januar 1, 2021

Base year end

Dezember 31, 2021

Base year emissions (metric tons CO₂e)

304.000

Comment

Scope 3 category 6: Business travel

Base year start

Januar 1, 2021

Base year end

Dezember 31, 2021

Base year emissions (metric tons CO₂e)

7.200

Comment

Scope 3 category 7: Employee commuting

Base year start

Januar 1, 2021

Base year end

Dezember 31, 2021

Base year emissions (metric tons CO2e)

55.000

Comment

Scope 3 category 8: Upstream leased assets

Base year start

Januar 1, 2021

Base year end

Dezember 31, 2021

Base year emissions (metric tons CO2e)

6.400

Comment

Scope 3 category 9: Downstream transportation and distribution

Base year start

Januar 1, 2021

Base year end

Dezember 31, 2021

Base year emissions (metric tons CO2e)

544.000

Comment

Scope 3 category 10: Processing of sold products

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 11: Use of sold products

Base year start

Januar 1, 2021

Base year end

Dezember 31, 2021

Base year emissions (metric tons CO₂e)

4.092.000

Comment

Scope 3 category 12: End of life treatment of sold products

Base year start

Januar 1, 2021

Base year end

Dezember 31, 2021

Base year emissions (metric tons CO₂e)

2.760.000

Comment

Scope 3 category 13: Downstream leased assets

Base year start

Base year end

Base year emissions (metric tons CO₂e)

Comment

Scope 3 category 14: Franchises

Base year start

Base year end

Base year emissions (metric tons CO₂e)

Comment

Scope 3 category 15: Investments

Base year start

Base year end

Base year emissions (metric tons CO₂e)

Comment

Scope 3: Other (upstream)

Base year start

Base year end

Base year emissions (metric tons CO₂e)

Comment

Scope 3: Other (downstream)

Base year start

Base year end

Base year emissions (metric tons CO₂e)

Comment

C5.3

(C5.3) Select the name of the standard, protocol, or methodology you have used to collect activity data and calculate emissions.

The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)

The Greenhouse Gas Protocol: Scope 2 Guidance

Other, please specify

WBCSD Chemicals (2013) Guidance for Accounting & Reporting Corporate GHG Emissions in
the Chemical Sector Value Chain

C6. Emissions data

C6.1

(C6.1) What were your organization's gross global Scope 1 emissions in metric tons
CO₂e?

Reporting year

Gross global Scope 1 emissions (metric tons CO₂e)

4.141.141

Start date

Januar 1, 2022

End date

Dezember 31, 2022

Comment

Past year 1

Gross global Scope 1 emissions (metric tons CO₂e)

4.381.000

Start date

Januar 1, 2021

End date

Dezember 31, 2021

Comment

Past year 2

Gross global Scope 1 emissions (metric tons CO₂e)

4.834.350

Start date

Januar 1, 2020

End date

Dezember 31, 2020

Comment

Past year 3

Gross global Scope 1 emissions (metric tons CO2e)

4.923.000

Start date

Januar 1, 2019

End date

Dezember 31, 2019

Comment

C6.2

(C6.2) Describe your organization's approach to reporting Scope 2 emissions.

Row 1

Scope 2, location-based

We are reporting a Scope 2, location-based figure

Scope 2, market-based

We are reporting a Scope 2, market-based figure

Comment

We calculated our market-based scope 2-emissions in 2015 for the first time based on information of our suppliers. The supplier based information covers > 95 % of our electricity related scope 2-emissions .

C6.3

(C6.3) What were your organization's gross global Scope 2 emissions in metric tons CO2e?

Reporting year

Scope 2, location-based

1.980.304

Scope 2, market-based (if applicable)

1.800.068

Start date

Januar 1, 2022

End date

Dezember 31, 2022

Comment

We calculated our market-based scope 2-emissions in 2015 for the first time based on information of our suppliers. The supplier based information covers > 95 % of our electricity related scope 2-emissions .

Past year 1

Scope 2, location-based

2.067.966

Scope 2, market-based (if applicable)

1.916.000

Start date

Januar 1, 2021

End date

Dezember 31, 2021

Comment

We calculated our market-based scope 2-emissions in 2015 for the first time based on information of our suppliers. The supplier based information covers > 95 % of our electricity related scope 2-emissions .

Past year 2

Scope 2, location-based

2.600.275

Scope 2, market-based (if applicable)

3.381.541

Start date

Januar 1, 2020

End date

Dezember 31, 2020

Comment

We calculated our market-based scope 2-emissions in 2015 for the first time based on information of our suppliers. The supplier based information covers > 95 % of our electricity related scope 2-emissions .

Past year 3

Scope 2, location-based

2.789.000

Scope 2, market-based (if applicable)

3.383.000

Start date

Januar 1, 2019

End date

Dezember 31, 2019

Comment

We calculated our market-based scope 2-emissions in 2015 for the first time based on information of our suppliers. The supplier based information covers > 95 % of our electricity related scope 2-emissions .

C6.4

(C6.4) Are there any sources (e.g. facilities, specific GHGs, activities, geographies, etc.) of Scope 1, Scope 2 or Scope 3 emissions that are within your selected reporting boundary which are not included in your disclosure?

No

C6.5

(C6.5) Account for your organization's gross global Scope 3 emissions, disclosing and explaining any exclusions.

Purchased goods and services

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO2e)

11.216.500

Emissions calculation methodology

Supplier-specific method

Average data method

Average spend-based method

Percentage of emissions calculated using data obtained from suppliers or value chain partners

15

Please explain

The methodology of GHG emission calculations closely follows the relevant GHG Protocol Corporate Standard (by the WBCSD and WRI) and the "Guidance for Accounting & Reporting Corporate GHG Emissions in the Chemical Sector Value Chain" by WBCSD Chemicals (2013). Reported results are based on 2022 full year activity data. These numbers differ from those externally verified and published in our 2022 Evonik sustainability report which are based on Q1-Q3 2022 data and extrapolations for

the fourth quarter: Differences emerge from the coverage of data included in calculations and required value corrections.

The CO₂e “backpack” calculation of Category 1 is based on a list of all purchased chemical raw materials. All those raw materials and associated amounts for which carbon footprint values were available at the time of calculation were taken into account. By this approach, a considerably higher coverage than 90 percent of the total purchasing volume was reached. An extrapolation of greenhouse gas emissions was carried out for the remaining quantities. Supplier-specific emission factors were preferably and increasingly utilized. The predominant share of emission factors was drawn from the GaBi 10 database (as of: 2022) provided by the Sphera Solutions GmbH. Where available, geographically representative datasets were used to determine emission factors, otherwise averages from several countries (e.g. global, EU) were used, and only in the last possible case country-specific individual datasets were applied.

Accounting emissions for production and provision of purchased services and goods started from a compilation of all positions with purchase values. All positions were assigned to the categories 1 and 2 (capital goods) with the help of industry codes. The emission amounts for the purchased materials and services in 2022 were then calculated by using spend-based emission factors for the respective codes. Those emission factors were extracted from a guidance document provided by the UK Department for Environment, Food & Rural Affairs (DEFRA).

Capital goods

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO₂e)

322.400

Emissions calculation methodology

Average spend-based method

Percentage of emissions calculated using data obtained from suppliers or value chain partners

0

Please explain

The methodology of GHG emission calculations closely follows the relevant GHG Protocol Corporate Standard (by the WBCSD and WRI) and the "Guidance for Accounting & Reporting Corporate GHG Emissions in the Chemical Sector Value Chain" by WBCSD Chemicals (2013). Results reported here are based on 2022 full year activity data. Be aware that these numbers differ from those externally verified and published in our 2022 Evonik sustainability report which are based on Q1-Q3 2022 data and extrapolations for the fourth quarter: Differences emerge from the coverage of data included in calculations and required value corrections.

Accounting emissions for production and provision of capital goods started from a compilation of all positions with purchase values. All positions were assigned to the

categories 1 and 2 with the help of industry codes (cf. description under category 1). Calculating emissions was based on multiplying purchase values with respective spend-based emission factors according to the industrial classification as listed in the guidance document by the UK Department for Environment, Food & Rural Affairs (DEFRA) - taking into account effects of inflation over the years - and subsequently adding up all positions.

Fuel-and-energy-related activities (not included in Scope 1 or 2)

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO₂e)

1.447.500

Emissions calculation methodology

Supplier-specific method
Average data method
Fuel-based method

Percentage of emissions calculated using data obtained from suppliers or value chain partners

43

Please explain

The methodology of GHG emission calculations closely follows the relevant GHG Protocol Corporate Standard (by the WBCSD and WRI) and the "Guidance for Accounting & Reporting Corporate GHG Emissions in the Chemical Sector Value Chain" by WBCSD Chemicals (2013). Results reported here are based on 2022 full year activity data. Be aware that these numbers differ from those externally verified and published in our 2022 Evonik sustainability report which are based on Q1-Q3 2022 data and extrapolations for the fourth quarter: Differences emerge from the coverage of data included in calculations and required value corrections.

Greenhouse gas emissions from the production of the quantities recorded for solid, liquid and gaseous energy sources that are utilized in Evonik's power plants and processes were determined by the use of representative region-specific emission factors from the GaBi 10 database (as of: 2022) provided by the Sphera Solutions GmbH. Depicting upstream emissions for externally purchased energy amounts of steam and electricity occurred via adequate assumptions concerning the mix of energy carriers and associated emission factors. In addition, emissions resulting from power sales were covered in category 3. Calculations were performed via quantities and CO₂ factors based on supplier information, and adding corresponding upstream CO₂e emissions for the respective energy source mix. Again, region-specific upstream emission factors for energy carriers were used and obtained from the GaBi 10 database.

Upstream transportation and distribution

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO₂e)

970.300

Emissions calculation methodology

Average data method

Distance-based method

Percentage of emissions calculated using data obtained from suppliers or value chain partners

0

Please explain

The methodology of GHG emission calculations closely follows the relevant GHG Protocol Corporate Standard (by the WBCSD and WRI) and the "Guidance for Accounting & Reporting Corporate GHG Emissions in the Chemical Sector Value Chain" by WBCSD Chemicals (2013). Results reported here are based on 2022 full year activity data. Be aware that these numbers differ from those externally verified and published in our 2022 Evonik sustainability report which are based on Q1-Q3 2022 data and extrapolations for the fourth quarter: Differences emerge from the coverage of data included in calculations and required value corrections.

Upstream transportation and distribution comprises of inbound transports from direct suppliers to Evonik as well as product transportation services purchased by Evonik between Evonik sites and those from the company to customers. The CO₂eq emissions in the reporting year performed transportation activities of (intermediate) products were calculated by using transport mode-specific emission factors. Those emission factors were extracted from a guideline jointly published by Cefic and the Smart Freight Centre in 2021. Calculations were based on the logistics procurement department's data on goods quantities, determined or partly estimated transportation distances to direct customers or other sites and were performed per specific mode of transport. Since Evonik does not have full knowledge of the transport distances and means of transport for incoming raw materials, an average emission factor per ton of shipped product was calculated by using the data for outbound transports. The use of this average emission factor is based on the assumption that the average means of transport and distance can be transferred to inbound transportation. Associated emissions were then calculated for the overall quantity of purchased raw materials in 2022 (see category 1).

Waste generated in operations

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO₂e)

348.200

Emissions calculation methodology

Average data method

Percentage of emissions calculated using data obtained from suppliers or value chain partners

0

Please explain

The methodology of GHG emission calculations closely follows the relevant GHG Protocol Corporate Standard (by the WBCSD and WRI) and the "Guidance for Accounting & Reporting Corporate GHG Emissions in the Chemical Sector Value Chain" by WBCSD Chemicals (2013). Results reported here are based on 2022 full year activity data. Be aware that these numbers differ from those externally verified and published in our 2022 Evonik sustainability report which are based on Q1-Q3 2022 data and extrapolations for the fourth quarter: Differences emerge from the coverage of data included in calculations and required value corrections.

The emissions resulting from the disposal of waste generated in operations were calculated based on the waste quantities for each type of disposal as recorded in the internal Sustainability Reporting system. Externally treated amounts of wastewater as well as solid production, construction and demolition waste were included in the computation. The average data method was applied. Representative and partially region-specific emission factors per type of disposal were determined with the help of the GaBi 10 database (as of: 2022) and adequate assumptions (concerning the c-content).

Business travel

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO₂e)

26.300

Emissions calculation methodology

Distance-based method

Percentage of emissions calculated using data obtained from suppliers or value chain partners

0

Please explain

The methodology of GHG emission calculations closely follows the relevant GHG Protocol Corporate Standard (by the WBCSD and WRI) and the "Guidance for Accounting & Reporting Corporate GHG Emissions in the Chemical Sector Value Chain" by WBCSD Chemicals (2013). Results reported here are based on 2022 full year activity data. Be aware that these numbers differ from those externally verified and published in our 2022 Evonik sustainability report which are based on Q1-Q3 2022 data and extrapolations for the fourth quarter: Differences emerge from the coverage of data included in calculations and required value corrections.

The CO₂e emissions generated by business trips were calculated based on the travel distances provided by Evonik Travel Management and using corresponding emission

factors of the means of transport used. Emission factors take fuel supply into account and were adopted from publications of the UK Department for Business, Energy & Industrial Strategy (BEIS). Where travel data was not completely available for individual regions, greenhouse gas emission amounts were extrapolated by means of comparison with the global headcount.

Employee commuting

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO₂e)

54.100

Emissions calculation methodology

Average data method

Percentage of emissions calculated using data obtained from suppliers or value chain partners

0

Please explain

The methodology of GHG emission calculations closely follows the relevant GHG Protocol Corporate Standard (by the WBCSD and WRI) and the "Guidance for Accounting & Reporting Corporate GHG Emissions in the Chemical Sector Value Chain" by WBCSD Chemicals (2013). Results reported here are based on 2022 full year activity data. Be aware that these numbers differ from those externally verified and published in our 2022 Evonik sustainability report which are based on Q1-Q3 2022 data and extrapolations for the fourth quarter: Differences emerge from the coverage of data included in calculations and required value corrections.

Emissions caused by employee commuting were estimated with the aid of representative statistics for means of transport, commuting distances and working days in combination with average emission factors. Regional differences were considered and adopted for the corresponding number of employees. Emission factors per passenger kilometer for car and public transportation were taken from BEIS data and take fuel supply into account.

Upstream leased assets

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO₂e)

3.700

Emissions calculation methodology

Average data method

Percentage of emissions calculated using data obtained from suppliers or value chain partners

0

Please explain

The methodology of GHG emission calculations closely follows the relevant GHG Protocol Corporate Standard (by the WBCSD and WRI) and the "Guidance for Accounting & Reporting Corporate GHG Emissions in the Chemical Sector Value Chain" by WBCSD Chemicals (2013). Results reported here are based on 2022 full year activity data. Be aware that these numbers differ from those externally verified and published in our 2022 Evonik sustainability report which are based on Q1-Q3 2022 data and extrapolations for the fourth quarter: Differences emerge from the coverage of data included in calculations and required value corrections.

CO₂e emissions caused by power and heating requirements of administrative buildings are included in the internal Sustainability Reporting system and thus already covered in scope 1 and scope 2 emissions, provided that a production plant subject to official CO₂e reporting is located at the site. For those buildings and offices that are not recorded, the respective headcounts were determined. The calculation of greenhouse gas emissions was then performed by means of average statistical data for electricity and heating requirements per employee and region-specific emission factors obtained from the GaBi 10 database (as of: 2022).

Downstream transportation and distribution

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO₂e)

44.500

Emissions calculation methodology

Average data method

Distance-based method

Percentage of emissions calculated using data obtained from suppliers or value chain partners

0

Please explain

The methodology of GHG emission calculations closely follows the relevant GHG Protocol Corporate Standard (by the WBCSD and WRI) and the "Guidance for Accounting & Reporting Corporate GHG Emissions in the Chemical Sector Value Chain" by WBCSD Chemicals (2013). Results reported here are based on 2022 full year activity data. Be aware that these numbers differ from those externally verified and published in our 2022 Evonik sustainability report which are based on Q1-Q3 2022 data and extrapolations for the fourth quarter: Differences emerge from the coverage of data included in calculations and required value corrections.

CO₂eq emissions of downstream goods transports from Evonik to direct customers

(except for those activities already covered in category 4) were - analogous to category 4 - calculated by using transport mode-specific emission factors. Those emission factors were extracted from a guideline jointly published by Cefic and the Smart Freight Centre in 2021. Calculations were based on the logistics procurement department's data on goods issue quantities, the determined or partly estimated transportation distances to the direct customers as well as the specific modes of transport.

Processing of sold products

Evaluation status

Not relevant, explanation provided

Please explain

Evonik sells only intermediate products in a B2B environment. The portfolio covers some 4,000 products and serves manifold end applications in different end-customer markets. The high number of end markets and immense number of resulting applications as well as Evonik's position rather upstream most value chains it is involved in lead to an non-manageable complexity of assessing any plausible result for scope 3 category 10 as scope 1 & 2 emissions of the manifold further processing steps for diverse end applications for all Evonik products would have to be quantified. Evonik is not able to track (the shares of) all end uses of each sold product and depict associated efforts in the processing steps. Following the requirements of the GHG Protocol Scope 3 Standard, we reviewed the principles and concluded that decision-making needs of users are still met.

Use of sold products

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO₂e)

3.092.300

Emissions calculation methodology

Average product method

Methodology for direct use phase emissions, please specify

Product quantity sold multiplied with products' (average) c-content and its stoichiometric conversion to CO₂ (*44/12)

Percentage of emissions calculated using data obtained from suppliers or value chain partners

0

Please explain

The methodology of GHG emission calculations closely follows the relevant GHG Protocol Corporate Standard (by the WBCSD and WRI) and the "Guidance for Accounting & Reporting Corporate GHG Emissions in the Chemical Sector Value Chain" by WBCSD Chemicals (2013). Results reported here are based on 2022 full year activity data. Be aware that these numbers differ from those externally verified and published in

our 2022 Evonik sustainability report which are based on Q1-Q3 2022 data and extrapolations for the fourth quarter: Differences emerge from the coverage of data included in calculations and required value corrections.

Accounting for category 11 focuses on direct greenhouse gas emissions that are formed and released due to metabolization or decomposition of sold products during the use phase in the downstream chain. The product amounts considered here do not require any explicit waste treatment. Calculations considered the quantities sold in 2022, products' carbon content and the stoichiometric conversion to CO₂. For some product lines, only the main products (by amount sold) were regarded specifically and derived assumptions were transferred to the remaining amounts or averaging occurred. Partly, products' carbon contents were estimated via the respective raw materials applied.

End of life treatment of sold products

Evaluation status

Relevant, calculated

Emissions in reporting year (metric tons CO₂e)

2.951.200

Emissions calculation methodology

Average data method

Average product method

Percentage of emissions calculated using data obtained from suppliers or value chain partners

0

Please explain

The methodology of GHG emission calculations closely follows the relevant GHG Protocol Corporate Standard (by the WBCSD and WRI) and the "Guidance for Accounting & Reporting Corporate GHG Emissions in the Chemical Sector Value Chain" by WBCSD Chemicals (2013). Results reported here are based on 2022 full year activity data. These numbers differ from those externally verified and published in our 2022 Evonik sustainability report which are based on Q1-Q3 2022 data and extrapolations for the fourth quarter: Differences emerge from the coverage of data included in calculations and required value corrections.

Since Evonik is often unaware of the end uses of its products – especially intermediates – the emissions resulting from their disposal were not calculated for the applications themselves, but only for the Evonik products contained therein. GHG emissions associated with the disposal of the product amounts sold in the reporting year – except for those covered by category 11 – were calculated by considering products' carbon contents and representative emission factors for the respective disposal type (landfilling, incineration with/without energy recovery, recycling, wastewater treatment). In case of incineration, wastewater treatment and landfilling of degradable products, emissions were calculated based on stoichiometry. For landfilling and wastewater treatment of inert products that do not decompose within a period of 100 years (cf. WBCSD Chemicals), only the processing effort was depicted. Recycling was assigned an

emission factor of 0. In cases where a relevant magnitude of energy recovery during treatment can be expected, adequate emission factors were applied. Statistics providing shares of the different disposal types for specific (end) product groups were used. For some lines, only the main products (by amount sold) were regarded specifically and derived assumptions were transferred to the remaining amounts or averaging occurred. If applications and the disposal route(s) were unknown, a treatment split between incineration and landfilling was assumed. Average shares per disposal type were determined beforehand via regional statistical data (e.g. OECDstat) and Evonik's sold volumes per continent.

Downstream leased assets

Evaluation status

Not relevant, explanation provided

Please explain

Scope 3 emissions resulting from downstream leased assets are not reported because this category is not relevant for Evonik Industries which is supported by the WBCSD Guidance for Accounting & Reporting Corporate GHG emissions in the Chemical Sector Value Chain. Estimations reveal a < 0.05 % share of total scope 3 emissions.

Franchises

Evaluation status

Not relevant, explanation provided

Please explain

Scope 3 emissions resulting from franchises are not reported because this category is not applicable to Evonik Industries. Evonik does not own or operate franchises. Also the WBCSD Chemicals (2013) Guidance for Accounting & Reporting Corporate GHG emissions in the Chemical Sector Value Chain states that this category is not relevant for the chemical sector.

Investments

Evaluation status

Not relevant, explanation provided

Please explain

A screening for Scope 3 category 15 was performed, taking into account subsidiaries / joint ventures / joint operations Evonik has no operational control over. Estimations result in < 1 % of total scope 3 emissions and are considered as not material.

Other (upstream)

Evaluation status

Please explain

Other (downstream)

Evaluation status

Please explain

C6.5a

(C6.5a) Disclose or restate your Scope 3 emissions data for previous years.

Past year 1

Start date

Januar 1, 2021

End date

Dezember 31, 2021

Scope 3: Purchased goods and services (metric tons CO2e)

12.980.800

Scope 3: Capital goods (metric tons CO2e)

310.000

Scope 3: Fuel and energy-related activities (not included in Scopes 1 or 2) (metric tons CO2e)

1.737.700

Scope 3: Upstream transportation and distribution (metric tons CO2e)

1.061.700

Scope 3: Waste generated in operations (metric tons CO2e)

302.900

Scope 3: Business travel (metric tons CO2e)

7.200

Scope 3: Employee commuting (metric tons CO2e)

55.400

Scope 3: Upstream leased assets (metric tons CO2e)

3.800

Scope 3: Downstream transportation and distribution (metric tons CO2e)

51.300

Scope 3: Processing of sold products (metric tons CO2e)

Scope 3: Use of sold products (metric tons CO2e)

4.163.600

Scope 3: End of life treatment of sold products (metric tons CO2e)

2.769.000

Scope 3: Downstream leased assets (metric tons CO2e)

Scope 3: Franchises (metric tons CO2e)

Scope 3: Investments (metric tons CO2e)

Scope 3: Other (upstream) (metric tons CO2e)

Scope 3: Other (downstream) (metric tons CO2e)

Comment

Compared to Evonik's last year's CDP reporting, the 2021 data were adjusted to reflect methodological changes and corrections made during the calculation of the 2022 GHG Inventory e.g.,

- CO2e emissions resulting from Evonik's company cars are now included in scope 1 and scope 3, category 3 (before: part of category 8 "Leased Assets").
- the upstream transportation and distribution included in the category 4 emissions calculation now comprises not only of inbound transports from direct suppliers to Evonik, but as well of product transportation services purchased by Evonik between Evonik sites and those from the company to customers. These emissions have been reported as part of category 9 before and were now shifted between the categories.

Past year 2

Start date

Januar 1, 2020

End date

Dezember 31, 2020

Scope 3: Purchased goods and services (metric tons CO2e)

10.100.000

Scope 3: Capital goods (metric tons CO2e)

450.000

**Scope 3: Fuel and energy-related activities (not included in Scopes 1 or 2)
(metric tons CO2e)**

1.840.000

Scope 3: Upstream transportation and distribution (metric tons CO2e)

290.000

Scope 3: Waste generated in operations (metric tons CO2e)

360.000

Scope 3: Business travel (metric tons CO2e)

6.800

Scope 3: Employee commuting (metric tons CO2e)

56.000

Scope 3: Upstream leased assets (metric tons CO2e)

9.200

Scope 3: Downstream transportation and distribution (metric tons CO2e)

330.000

Scope 3: Processing of sold products (metric tons CO2e)

Scope 3: Use of sold products (metric tons CO2e)

3.560.000

Scope 3: End of life treatment of sold products (metric tons CO2e)

3.020.000

Scope 3: Downstream leased assets (metric tons CO2e)

Scope 3: Franchises (metric tons CO2e)

Scope 3: Investments (metric tons CO2e)

Scope 3: Other (upstream) (metric tons CO2e)

Scope 3: Other (downstream) (metric tons CO2e)

Comment

Contrary to the GHG emissions tracked in this CDP report for 2021 and 2022, GHG inventory values of 2020 consider CO2 removals from biological carbon sequestration at the beginning of the life cycle and biogenic CO2 emissions. Relevant amounts can be recorded for the scope 3 categories 1, 11 and 12 as well as for direct process emissions in scope 1.

Please note: Adjustments to reflect methodological changes and corrections, which were made during the calculation of the 2022 GHG Inventory and applied for the 2021

GHG Inventory (current target base year), were not transferred retroactively to the calculation of emissions of 2020 and preceding years.

Past year 3

Start date

Januar 1, 2019

End date

Dezember 31, 2019

Scope 3: Purchased goods and services (metric tons CO2e)

9.600.000

Scope 3: Capital goods (metric tons CO2e)

400.000

**Scope 3: Fuel and energy-related activities (not included in Scopes 1 or 2)
(metric tons CO2e)**

600.000

Scope 3: Upstream transportation and distribution (metric tons CO2e)

300.000

Scope 3: Waste generated in operations (metric tons CO2e)

500.000

Scope 3: Business travel (metric tons CO2e)

30.000

Scope 3: Employee commuting (metric tons CO2e)

100.000

Scope 3: Upstream leased assets (metric tons CO2e)

20.000

Scope 3: Downstream transportation and distribution (metric tons CO2e)

300.000

Scope 3: Processing of sold products (metric tons CO2e)

Scope 3: Use of sold products (metric tons CO2e)

Scope 3: End of life treatment of sold products (metric tons CO2e)

5.900.000

Scope 3: Downstream leased assets (metric tons CO2e)

Scope 3: Franchises (metric tons CO2e)

Scope 3: Investments (metric tons CO₂e)

Scope 3: Other (upstream) (metric tons CO₂e)

Scope 3: Other (downstream) (metric tons CO₂e)

Comment

Contrary to the GHG emissions tracked in this CDP report for 2021 and 2022, GHG inventory values of 2019 consider CO₂ removals from biological carbon sequestration at the beginning of the life cycle and biogenic CO₂ emissions. Relevant amounts can be recorded for the scope 3 categories 1, 11 and 12 as well as for direct process emissions in scope 1.

Please note: Adjustments to reflect methodological changes and corrections, which were made during the calculation for the 2022 and 2021 GHG Inventory, were not transferred retroactively to the calculation of emissions 2019 and preceding years, since these are not part of Evonik's current GHG emissions target timeframe.

C6.7

(C6.7) Are carbon dioxide emissions from biogenic carbon relevant to your organization?

Yes

C6.7a

(C6.7a) Provide the emissions from biogenic carbon relevant to your organization in metric tons CO₂.

	CO ₂ emissions from biogenic carbon (metric tons CO ₂)	Comment
Row 1	126.900	Amount entered reflects the direct biogenic CO ₂ emissions from fermentation processes. Further explanations: Biomass – and related CO ₂ removals and biogenic CO ₂ emissions – for material and energy use are treated equally by Evonik as both are assumed to be re-released into the atmosphere again during use or at the end of their lifetime. CO ₂ removals and biogenic CO ₂ emissions alongside Scope 3 category 3 and (related to) Scope 2 for bioenergy use are currently not calculated due to complexity and limited data availability (on each energy supplier's market-based CO ₂ factor and energy source mix). The share of

	bioenergy use and associated biogenic CO₂ emissions is up to now limited. Taking into account CO₂ removals (and biogenic CO₂ emissions) relevant to some purchased raw materials, a net total of (-)1,336,000 t of CO₂ removals through biological carbon sequestration and biogenic CO₂ emissions during upstream processing is quantified for Scope 3 category 1. Some amount of direct biogenic CO₂ emissions from production (fermentation) processes using bio-based input materials (associated removals are accounted for alongside Scope 3 category 1) are reported above. In addition, a small amount (14,000 t biogenic CO₂) emerges alongside Scope 3 category 5. Biogenic CO₂ emissions in the downstream chain amount to 884,000 t, i.e. for Scope 3 categories 11 & 12. For category 12, partly not the full (biogenic) carbon content is considered to be converted to CO₂ and emitted during 100 years (cf. WBCSD Chemicals (2013), p.33) and not all biogenic C streams are completely traceable in complex operation processes (e.g. in waste streams), so that the biogenic C inventory is not fully balanced for now and some biogenic carbon counted as fossil carbon. Further data granularity and other improvements in this context are pursued.
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C6.10

(C6.10) Describe your gross global combined Scope 1 and 2 emissions for the reporting year in metric tons CO₂e per unit currency total revenue and provide any additional intensity metrics that are appropriate to your business operations.

Intensity figure

0,0003213548

Metric numerator (Gross global combined Scope 1 and 2 emissions, metric tons CO₂e)

5.941.209

Metric denominator

unit total revenue

Metric denominator: Unit total

18.488.000.000

Scope 2 figure used

Market-based

% change from previous year

23,7

Direction of change

Decreased

Reason(s) for change

Change in revenue

Please explain

Revenue increased by 24% due to higher prices and currency exchange rates in 2022
whereas Scope 1+2 CO₂e - emissions decreased by 5.7%.

Intensity figure

0,6743710556

**Metric numerator (Gross global combined Scope 1 and 2 emissions, metric
tons CO₂e)**

5.941.209

Metric denominator

metric ton of product

Metric denominator: Unit total

8.810.000

Scope 2 figure used

Market-based

% change from previous year

2,2

Direction of change

Increased

Reason(s) for change

Change in output

Please explain

Decrease in production volume by 7.7% and S1 and S2 Emissions by 5.7%.

Intensity figure

174,6

**Metric numerator (Gross global combined Scope 1 and 2 emissions, metric
tons CO₂e)**

5.941.209

Metric denominator

Other, please specify

No. of employees as of December 31

Metric denominator: Unit total

34.029

Scope 2 figure used

Market-based

% change from previous year

8,5

Direction of change

Decreased

Reason(s) for change

Other, please specify

Increased number of employees

Please explain

Increased number of employees + 3.2% and decrease of S1 and S2 Emissions by 5.7%.

C7. Emissions breakdowns

C7.1

(C7.1) Does your organization break down its Scope 1 emissions by greenhouse gas type?

Yes

C7.1a

(C7.1a) Break down your total gross global Scope 1 emissions by greenhouse gas type and provide the source of each used greenhouse warming potential (GWP).

Greenhouse gas	Scope 1 emissions (metric tons of CO ₂ e)	GWP Reference
CO ₂	4.080.158	IPCC Sixth Assessment Report (AR6 - 100 year)
CH ₄	20.145	IPCC Sixth Assessment Report (AR6 - 100 year)
N ₂ O	22.047	IPCC Sixth Assessment Report (AR6 - 100 year)
HFCs	18.791	IPCC Sixth Assessment Report (AR6 - 100 year)

PFCs	0	IPCC Sixth Assessment Report (AR6 - 100 year)
SF6	0	IPCC Sixth Assessment Report (AR6 - 100 year)
NF3	0	IPCC Sixth Assessment Report (AR6 - 100 year)

C7.2

(C7.2) Break down your total gross global Scope 1 emissions by country/area/region.

Country/area/region	Scope 1 emissions (metric tons CO ₂ e)
Austria	47.535
Belgium	201.700
Brazil	48.831
Canada	24.948
China	148.019
France	9.076
Germany	2.585.653
India	20.755
Indonesia	19.019
Japan	10.523
Netherlands	28.272
New Zealand	15.923
Singapore	76.245
Slovakia	9.996
South Africa	10.559
Republic of Korea	229
Spain	59.599
Taiwan, China	26.544
Thailand	17.766
Turkey	33.850
United Kingdom of Great Britain and Northern Ireland	2.401
United States of America	729.145
Finland	11.817
Luxembourg	2.736

C7.3

(C7.3) Indicate which gross global Scope 1 emissions breakdowns you are able to provide.

By business division

C7.3a

(C7.3a) Break down your total gross global Scope 1 emissions by business division.

Business division	Scope 1 emissions (metric ton CO ₂ e)
Technology & Infrastructure	1.826.010
Smart Materials	919.023
Nutrition & Care	636.431
Performance Materials	572.913
Speciality Additives	186.764

C-CE7.4/C-CH7.4/C-CO7.4/C-EU7.4/C-MM7.4/C-OG7.4/C-ST7.4/C-TO7.4/C-TS7.4

(C-CE7.4/C-CH7.4/C-CO7.4/C-EU7.4/C-MM7.4/C-OG7.4/C-ST7.4/C-TO7.4/C-TS7.4) Break down your organization's total gross global Scope 1 emissions by sector production activity in metric tons CO₂e.

	Gross Scope 1 emissions, metric tons CO ₂ e	Comment
Chemicals production activities	4.141.141	Evonik's Scope 1 emissions do reflect emissions from combustion processes that were carried out to generate steam an electricity for third parties that do not belong to the group as well as emissions from chemical processes

C7.5

(C7.5) Break down your total gross global Scope 2 emissions by country/area/region.

Country/area/region	Scope 2, location-based (metric tons CO ₂ e)	Scope 2, market-based (metric tons CO ₂ e)
Argentina	29.439	30.330
Austria	5.971	286
Brazil	16.172	22.234
Canada	18.043	9.236
China	242.347	187.220

France	8.041	8.028
Germany	369.184	257.025
India	13.724	15.115
Indonesia	14.661	2.447
Italy	632	632
Japan	30.097	27.667
Netherlands	17.844	8.096
New Zealand	1.528	0
Singapore	119.433	121.750
Slovakia	2.866	0
South Africa	14.479	15.815
Republic of Korea	60.302	55.989
Spain	23.282	15.938
Taiwan, China	17.221	16.468
Thailand	4.087	5.101
Turkey	71.584	71.584
United Kingdom of Great Britain and Northern Ireland	815	751
United States of America	582.607	590.373
Finland	1.269	2.727
Belgium	314.173	334.790
Norway	2	2
Luxembourg	499	464

C7.6

(C7.6) Indicate which gross global Scope 2 emissions breakdowns you are able to provide.

By business division

C7.6a

(C7.6a) Break down your total gross global Scope 2 emissions by business division.

Business division	Scope 2, location-based (metric tons CO ₂ e)	Scope 2, market-based (metric tons CO ₂ e)
Technology & Infrastructure	339.567	333.253
Smart Materials	720.514	535.938

Nutrition & Care	476.965	588.156
Performance Materials	304.926	211.598
Specialty Additives	138.332	131.123

C7.7

(C7.7) Is your organization able to break down your emissions data for any of the subsidiaries included in your CDP response?

No

C-CE7.7/C-CH7.7/C-CO7.7/C-MM7.7/C-OG7.7/C-ST7.7/C-TO7.7/C-TS7.7

(C-CE7.7/C-CH7.7/C-CO7.7/C-MM7.7/C-OG7.7/C-ST7.7/C-TO7.7/C-TS7.7) Break down your organization's total gross global Scope 2 emissions by sector production activity in metric tons CO₂e.

	Scope 2, location-based, metric tons CO ₂ e	Scope 2, market-based (if applicable), metric tons CO ₂ e	Comment
Chemicals production activities	1.980.304	1.800.068	Evonik is a Company focussed on speciality chemicals

C-CH7.8

(C-CH7.8) Disclose the percentage of your organization's Scope 3, Category 1 emissions by purchased chemical feedstock.

Purchased feedstock	Percentage of Scope 3, Category 1 tCO ₂ e from purchased feedstock	Explain calculation methodology
Other (please specify) Specialty Chemicals	29	Percentages reveal the shares of the Scope 3 category 1 emission amount by using the raw material categories "Base Chemicals", "Specialty Chemicals", and "Inorganics" and the top 100 chemical raw materials purchased as basis. Background for Scope 3 category 1: The methodology of GHG emission calculations for Scope 3 category 1 closely follows the relevant Greenhouse Gas Protocol Corporate Standard documents (by the WBCSD and WRI) as well as the "Guidance for Accounting & Reporting Corporate GHG Emissions in the Chemical Sector Value Chain" published by WBCSD Chemicals in 2013. The CO ₂ e "backpack" calculation

		is based on a list of all purchased chemical raw materials. All those raw materials and associated amounts for which carbon footprint values were available at the time of calculation were taken into account. By this approach, a considerably higher coverage than 90 percent of the total purchasing volume was reached. An extrapolation of greenhouse gas emissions was carried out for the remaining quantities. Supplier-specific emission factors were preferably and increasingly utilized. The predominant share of emission factors was drawn from the GaBi 10 database (as of: 2022) provided by the Sphera Solutions GmbH. Where available, geographically representative datasets were used to determine emission factors, otherwise averages from several countries (e.g. global, EU) were used, and only in the last possible case country-specific individual datasets were applied.
Other (please specify) Inorganics	24	Percentages reveal the shares of the Scope 3 category 1 emission amount by using the raw material categories "Base Chemicals", "Specialty Chemicals", and "Inorganics" and the top 100 chemical raw materials purchased as basis. Background for Scope 3 category 1: The methodology of GHG emission calculations for Scope 3 category 1 closely follows the relevant Greenhouse Gas Protocol Corporate Standard documents (by the WBCSD and WRI) as well as the "Guidance for Accounting & Reporting Corporate GHG Emissions in the Chemical Sector Value Chain" published by WBCSD Chemicals in 2013. The CO₂e "backpack" calculation is based on a list of all purchased chemical raw materials. All those raw materials and associated amounts for which carbon footprint values were available at the time of calculation were taken into account. By this approach, a considerably higher coverage than 90 percent of the total purchasing volume was reached. An extrapolation of greenhouse gas emissions was carried out for the remaining quantities. Supplier-specific emission factors were preferably and increasingly utilized. The predominant share of emission factors was drawn from the GaBi 10 database (as of: 2022) provided by the Sphera Solutions GmbH. Where available, geographically representative datasets were used to determine emission factors, otherwise averages from several countries (e.g. global, EU) were used, and only in the last possible case country-specific individual datasets were applied.
Other (please specify) Base Chemicals	47	Percentages reveal the shares of the Scope 3 category 1 emission amount by using the raw material categories "Base Chemicals", "Specialty Chemicals", and "Inorganics" and the top 100 chemical raw materials purchased as basis.

		Background for Scope 3 category 1: The methodology of GHG emission calculations for Scope 3 category 1 closely follows the relevant Greenhouse Gas Protocol Corporate Standard documents (by the WBCSD and WRI) as well as the "Guidance for Accounting & Reporting Corporate GHG Emissions in the Chemical Sector Value Chain" published by WBCSD Chemicals in 2013. The CO₂e "backpack" calculation is based on a list of all purchased chemical raw materials. All those raw materials and associated amounts for which carbon footprint values were available at the time of calculation were taken into account. By this approach, a considerably higher coverage than 90 percent of the total purchasing volume was reached. An extrapolation of greenhouse gas emissions was carried out for the remaining quantities. Supplier-specific emission factors were preferably and increasingly utilized. The predominant share of emission factors was drawn from the GaBi 10 database (as of: 2022) provided by the Sphera Solutions GmbH. Where available, geographically representative datasets were used to determine emission factors, otherwise averages from several countries (e.g. global, EU) were used, and only in the last possible case country-specific individual datasets were applied.
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C-CH7.8a

(C-CH7.8a) Disclose sales of products that are greenhouse gases.

	Sales, metric tons	Comment
Carbon dioxide (CO ₂)	0	Evonik does not sell carbon dioxide
Methane (CH ₄)	173.000	to third parties on Evonik sites
Nitrous oxide (N ₂ O)	0	Evonik does not sell nitrous oxide
Hydrofluorocarbons (HFC)	0	Evonik does not sell hydrofluorocarbons
Perfluorocarbons (PFC)	0	Evonik does not sell perfluorocarbons
Sulphur hexafluoride (SF ₆)	0	Evonik does not sell sulphur hexafluoride
Nitrogen trifluoride (NF ₃)	0	Evonik does not sell nitrogen trifluoride

C7.9

(C7.9) How do your gross global emissions (Scope 1 and 2 combined) for the reporting year compare to those of the previous reporting year?

Decreased

C7.9a

(C7.9a) Identify the reasons for any change in your gross global emissions (Scope 1 and 2 combined), and for each of them specify how your emissions compare to the previous year.

	Change in emissions (metric tons CO ₂ e)	Direction of change in emissions	Emissions value (percentage)	Please explain calculation
Change in renewable energy consumption	0	No change	0	
Other emissions reduction activities	76.510	Decreased	1,2	Our total Scope 1 and Scope 2 emissions in the previous year were 6297000 t CO ₂ : -> $76510 \cdot 100 / 6297000 = 1.2$
Divestment	0	No change	0	
Acquisitions	0	No change	0	
Mergers	0	No change	0	
Change in output	246.290	Decreased	3,9	Our total Scope 1 and Scope 2 emissions in the previous year were 6297000 t CO ₂ : -> $246290 \cdot 100 / 6297000 = 3.9$
Change in methodology	0	No change	0	
Change in boundary	0	No change	0	
Change in physical operating conditions	32.991	Decreased	0,5	Our total Scope 1 and Scope 2 emissions in the previous year were 6297000 t CO ₂ : -> $32991 \cdot 100 / 6297000 = 0.5$
Unidentified	0	No change	0	
Other	0	No change	0	

C7.9b

(C7.9b) Are your emissions performance calculations in C7.9 and C7.9a based on a location-based Scope 2 emissions figure or a market-based Scope 2 emissions figure?

Market-based

C8. Energy

C8.1

(C8.1) What percentage of your total operational spend in the reporting year was on energy?

More than 5% but less than or equal to 10%

C8.2

(C8.2) Select which energy-related activities your organization has undertaken.

	Indicate whether your organization undertook this energy-related activity in the reporting year
Consumption of fuel (excluding feedstocks)	Yes
Consumption of purchased or acquired electricity	Yes
Consumption of purchased or acquired heat	Yes
Consumption of purchased or acquired steam	Yes
Consumption of purchased or acquired cooling	No
Generation of electricity, heat, steam, or cooling	Yes

C8.2a

(C8.2a) Report your organization's energy consumption totals (excluding feedstocks) in MWh.

	Heating value	MWh from renewable sources	MWh from non-renewable sources	Total (renewable and non-renewable) MWh
Consumption of fuel (excluding feedstock)	LHV (lower heating value)	9.550	14.310.199	14.319.749
Consumption of purchased or acquired electricity		656.795	2.339.766	2.996.562

Consumption of purchased or acquired heat		0	9.271	9.271
Consumption of purchased or acquired steam		0	3.801.217	3.801.217
Consumption of self-generated non-fuel renewable energy		79.442		79.442
Total energy consumption		745.787	20.460.454	21.206.241

C-CH8.2a

(C-CH8.2a) Report your organization's energy consumption totals (excluding feedstocks) for chemical production activities in MWh.

Consumption of fuel (excluding feedstocks)

Heating value

LHV (lower heating value)

MWh consumed from renewable sources inside chemical sector boundary

9.550

MWh consumed from non-renewable sources inside chemical sector boundary (excluding recovered waste heat/gases)

1.679.345

MWh consumed from waste heat/gases recovered from processes using fuel feedstocks inside chemical sector boundary

12.630.855

Total MWh (renewable + non-renewable + MWh from recovered waste heat/gases) consumed inside chemical sector boundary

14.319.749

Consumption of purchased or acquired electricity

MWh consumed from renewable sources inside chemical sector boundary

656.795

MWh consumed from non-renewable sources inside chemical sector boundary (excluding recovered waste heat/gases)

2.339.766

MWh consumed from waste heat/gases recovered from processes using fuel feedstocks inside chemical sector boundary

0

Total MWh (renewable + non-renewable + MWh from recovered waste heat/gases) consumed inside chemical sector boundary

2.996.562

Consumption of purchased or acquired heat

MWh consumed from renewable sources inside chemical sector boundary

0

MWh consumed from non-renewable sources inside chemical sector boundary (excluding recovered waste heat/gases)

9.271

MWh consumed from waste heat/gases recovered from processes using fuel feedstocks inside chemical sector boundary

0

Total MWh (renewable + non-renewable + MWh from recovered waste heat/gases) consumed inside chemical sector boundary

9.271

Consumption of purchased or acquired steam

MWh consumed from renewable sources inside chemical sector boundary

0

MWh consumed from non-renewable sources inside chemical sector boundary (excluding recovered waste heat/gases)

3.801.217

MWh consumed from waste heat/gases recovered from processes using fuel feedstocks inside chemical sector boundary

0

Total MWh (renewable + non-renewable + MWh from recovered waste heat/gases) consumed inside chemical sector boundary

3.801.217

Consumption of self-generated non-fuel renewable energy

MWh consumed from renewable sources inside chemical sector boundary

79.442

MWh consumed from non-renewable sources inside chemical sector boundary (excluding recovered waste heat/gases)

0

MWh consumed from waste heat/gases recovered from processes using fuel feedstocks inside chemical sector boundary

0

Total MWh (renewable + non-renewable + MWh from recovered waste heat/gases) consumed inside chemical sector boundary

79.442

Total energy consumption

MWh consumed from renewable sources inside chemical sector boundary

745.787

MWh consumed from non-renewable sources inside chemical sector boundary (excluding recovered waste heat/gases)

18.781.109

MWh consumed from waste heat/gases recovered from processes using fuel feedstocks inside chemical sector boundary

1.679.345

Total MWh (renewable + non-renewable + MWh from recovered waste heat/gases) consumed inside chemical sector boundary

21.206.241

C8.2b

(C8.2b) Select the applications of your organization's consumption of fuel.

	Indicate whether your organization undertakes this fuel application
Consumption of fuel for the generation of electricity	Yes
Consumption of fuel for the generation of heat	No
Consumption of fuel for the generation of steam	Yes
Consumption of fuel for the generation of cooling	No
Consumption of fuel for co-generation or tri-generation	Yes

C8.2c

(C8.2c) State how much fuel in MWh your organization has consumed (excluding feedstocks) by fuel type.

Sustainable biomass

Heating value

LHV

Total fuel MWh consumed by the organization

9.550

MWh fuel consumed for self-generation of electricity

0

MWh fuel consumed for self-generation of heat

0

MWh fuel consumed for self-generation of steam

9.550

MWh fuel consumed for self- cogeneration or self-trigeneration

0

Comment

Other biomass

Heating value

Unable to confirm heating value

Total fuel MWh consumed by the organization

0

MWh fuel consumed for self-generation of electricity

0

MWh fuel consumed for self-generation of heat

0

MWh fuel consumed for self-generation of steam

0

MWh fuel consumed for self- cogeneration or self-trigeneration

0

Comment

Other renewable fuels (e.g. renewable hydrogen)

Heating value

Unable to confirm heating value

Total fuel MWh consumed by the organization

0

MWh fuel consumed for self-generation of electricity

0

MWh fuel consumed for self-generation of heat

0

MWh fuel consumed for self-generation of steam

0

MWh fuel consumed for self- cogeneration or self-trigeneration

0

Comment

Coal

Heating value

LHV

Total fuel MWh consumed by the organization

3.115.549

MWh fuel consumed for self-generation of electricity

0

MWh fuel consumed for self-generation of heat

0

MWh fuel consumed for self-generation of steam

334.591

MWh fuel consumed for self- cogeneration or self-trigeneration

2.780.959

Comment

Oil

Heating value

LHV

Total fuel MWh consumed by the organization

28.060

MWh fuel consumed for self-generation of electricity

5.991

MWh fuel consumed for self-generation of heat

0

MWh fuel consumed for self-generation of steam

0

MWh fuel consumed for self- cogeneration or self-trigeneration

22.069

Comment

Gas

Heating value

LHV

Total fuel MWh consumed by the organization

9.487.245

MWh fuel consumed for self-generation of electricity

0

MWh fuel consumed for self-generation of heat

0

MWh fuel consumed for self-generation of steam

6.987.470

MWh fuel consumed for self- cogeneration or self-trigeneration

2.499.775

Comment

Other non-renewable fuels (e.g. non-renewable hydrogen)

Heating value

LHV

Total fuel MWh consumed by the organization

1.679.345

MWh fuel consumed for self-generation of electricity

0

MWh fuel consumed for self-generation of heat

0

MWh fuel consumed for self-generation of steam

988.112

MWh fuel consumed for self- cogeneration or self-trigeneration

691.233

Comment

Total fuel

Heating value

LHV

Total fuel MWh consumed by the organization

14.319.749

MWh fuel consumed for self-generation of electricity

5.991

MWh fuel consumed for self-generation of heat

0

MWh fuel consumed for self-generation of steam

8.319.723

MWh fuel consumed for self- cogeneration or self-trigeneration

5.994.035

Comment

C8.2d

(C8.2d) Provide details on the electricity, heat, steam, and cooling your organization has generated and consumed in the reporting year.

	Total Gross generation (MWh)	Generation that is consumed by the organization (MWh)	Gross generation from renewable sources (MWh)	Generation from renewable sources that is consumed by the organization (MWh)
Electricity	1.313.605	1.084.292	79.442	79.442
Heat	0	0	0	0
Steam	10.925.726	8.051.522	9.550	9.550
Cooling	479.758	344.704	0	0

C-CH8.2d

(C-CH8.2d) Provide details on electricity, heat, steam, and cooling your organization has generated and consumed for chemical production activities.

Electricity

Total gross generation inside chemicals sector boundary (MWh)

1.313.605

Generation that is consumed inside chemicals sector boundary (MWh)

1.084.292

Generation from renewable sources inside chemical sector boundary (MWh)

79.442

Generation from waste heat/gases recovered from processes using fuel feedstocks inside chemical sector boundary (MWh)

76.146

Heat

Total gross generation inside chemicals sector boundary (MWh)

0

Generation that is consumed inside chemicals sector boundary (MWh)

0

Generation from renewable sources inside chemical sector boundary (MWh)

0

Generation from waste heat/gases recovered from processes using fuel feedstocks inside chemical sector boundary (MWh)

0

Steam

Total gross generation inside chemicals sector boundary (MWh)

10.925.726

Generation that is consumed inside chemicals sector boundary (MWh)

8.051.522

Generation from renewable sources inside chemical sector boundary (MWh)

9.550

Generation from waste heat/gases recovered from processes using fuel feedstocks inside chemical sector boundary (MWh)

647.980

Cooling

Total gross generation inside chemicals sector boundary (MWh)

479.758

Generation that is consumed inside chemicals sector boundary (MWh)

344.704

Generation from renewable sources inside chemical sector boundary (MWh)

0

Generation from waste heat/gases recovered from processes using fuel feedstocks inside chemical sector boundary (MWh)

0

C8.2e

(C8.2e) Provide details on the electricity, heat, steam, and/or cooling amounts that were accounted for at a zero or near-zero emission factor in the market-based Scope 2 figure reported in C6.3.

Country/area of low-carbon energy consumption

United States of America

Sourcing method

Unbundled procurement of energy attribute certificates (EACs)

Energy carrier

Electricity

Low-carbon technology type

Renewable energy mix, please specify
no details available

Low-carbon energy consumed via selected sourcing method in the reporting year (MWh)

173.600

Tracking instrument used

US-REC

Country/area of origin (generation) of the low-carbon energy or energy attribute

United States of America

Are you able to report the commissioning or re-powering year of the energy generation facility?

No

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Comment

Country/area of low-carbon energy consumption

Germany

Sourcing method

Unbundled procurement of energy attribute certificates (EACs)

Energy carrier

Electricity

Low-carbon technology type

Renewable energy mix, please specify
no details available

Low-carbon energy consumed via selected sourcing method in the reporting year (MWh)

270.000

Tracking instrument used

GO

Country/area of origin (generation) of the low-carbon energy or energy attribute

Germany

Are you able to report the commissioning or re-powering year of the energy generation facility?

No

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Comment

Country/area of low-carbon energy consumption

Slovakia

Sourcing method

Unbundled procurement of energy attribute certificates (EACs)

Energy carrier

Electricity

Low-carbon technology type

Renewable energy mix, please specify
no details available

Low-carbon energy consumed via selected sourcing method in the reporting year (MWh)

28.000

Tracking instrument used

GO

Country/area of origin (generation) of the low-carbon energy or energy attribute

Slovakia

Are you able to report the commissioning or re-powering year of the energy generation facility?

No

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Comment

Country/area of low-carbon energy consumption

China

Sourcing method

Unbundled procurement of energy attribute certificates (EACs)

Energy carrier

Electricity

Low-carbon technology type

Renewable energy mix, please specify
no details available

Low-carbon energy consumed via selected sourcing method in the reporting year (MWh)

81.300

Tracking instrument used

I-REC

Country/area of origin (generation) of the low-carbon energy or energy attribute

China

Are you able to report the commissioning or re-powering year of the energy generation facility?

No

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Comment

Country/area of low-carbon energy consumption

Indonesia

Sourcing method

Unbundled procurement of energy attribute certificates (EACs)

Energy carrier

Electricity

Low-carbon technology type

Renewable energy mix, please specify
no details available

Low-carbon energy consumed via selected sourcing method in the reporting year (MWh)

16.000

Tracking instrument used

I-REC

Country/area of origin (generation) of the low-carbon energy or energy attribute

Indonesia

Are you able to report the commissioning or re-powering year of the energy generation facility?

No

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Comment

Country/area of low-carbon energy consumption

Singapore

Sourcing method

Unbundled procurement of energy attribute certificates (EACs)

Energy carrier

Electricity

Low-carbon technology type

Renewable energy mix, please specify
no details available

Low-carbon energy consumed via selected sourcing method in the reporting year (MWh)

4.600

Tracking instrument used

Other, please specify
I-REC

Country/area of origin (generation) of the low-carbon energy or energy attribute

Singapore

Are you able to report the commissioning or re-powering year of the energy generation facility?

No

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Comment

Country/area of low-carbon energy consumption

Canada

Sourcing method

Unbundled procurement of energy attribute certificates (EACs)

Energy carrier

Electricity

Low-carbon technology type

Renewable energy mix, please specify
no details available

Low-carbon energy consumed via selected sourcing method in the reporting year (MWh)

87.100

Tracking instrument used

US-REC

Country/area of origin (generation) of the low-carbon energy or energy attribute

Canada

Are you able to report the commissioning or re-powering year of the energy generation facility?

No

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

Comment

C8.2g

(C8.2g) Provide a breakdown by country/area of your non-fuel energy consumption in the reporting year.

Country/area

Argentina

Consumption of purchased electricity (MWh)

12.378

Consumption of self-generated electricity (MWh)

0

Consumption of purchased heat, steam, and cooling (MWh)

128.654

Consumption of self-generated heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

141.032

Country/area

Austria

Consumption of purchased electricity (MWh)

38.518

Consumption of self-generated electricity (MWh)

9.704

Consumption of purchased heat, steam, and cooling (MWh)

1.270

Consumption of self-generated heat, steam, and cooling (MWh)

57.575

Total non-fuel energy consumption (MWh) [Auto-calculated]

107.067

Country/area

Belgium

Consumption of purchased electricity (MWh)

313.257

Consumption of self-generated electricity (MWh)

0

Consumption of purchased heat, steam, and cooling (MWh)

1.295.172

Consumption of self-generated heat, steam, and cooling (MWh)

514.271

Total non-fuel energy consumption (MWh) [Auto-calculated]

2.122.700

Country/area

Brazil

Consumption of purchased electricity (MWh)

156.565

Consumption of self-generated electricity (MWh)

0

Consumption of purchased heat, steam, and cooling (MWh)

41.747

Consumption of self-generated heat, steam, and cooling (MWh)

44.463

Total non-fuel energy consumption (MWh) [Auto-calculated]

242.775

Country/area

Canada

Consumption of purchased electricity (MWh)

80.124

Consumption of self-generated electricity (MWh)

0

Consumption of purchased heat, steam, and cooling (MWh)

33.770

Consumption of self-generated heat, steam, and cooling (MWh)

115.686

Total non-fuel energy consumption (MWh) [Auto-calculated]

229.580

Country/area

China

Consumption of purchased electricity (MWh)

219.977

Consumption of self-generated electricity (MWh)

0

Consumption of purchased heat, steam, and cooling (MWh)

302.429

Consumption of self-generated heat, steam, and cooling (MWh)

46.442

Total non-fuel energy consumption (MWh) [Auto-calculated]

568.848

Country/area

Finland

Consumption of purchased electricity (MWh)

11.014

Consumption of self-generated electricity (MWh)

0

Consumption of purchased heat, steam, and cooling (MWh)

0

Consumption of self-generated heat, steam, and cooling (MWh)

21.080

Total non-fuel energy consumption (MWh) [Auto-calculated]

32.094

Country/area

France

Consumption of purchased electricity (MWh)

19.810

Consumption of self-generated electricity (MWh)

0

Consumption of purchased heat, steam, and cooling (MWh)

36.220

Consumption of self-generated heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

56.030

Country/area

Germany

Consumption of purchased electricity (MWh)

501.366

Consumption of self-generated electricity (MWh)

1.042.073

Consumption of purchased heat, steam, and cooling (MWh)

815.702

Consumption of self-generated heat, steam, and cooling (MWh)

4.867.715

Total non-fuel energy consumption (MWh) [Auto-calculated]

7.226.856

Country/area

India

Consumption of purchased electricity (MWh)

18.329

Consumption of self-generated electricity (MWh)

0

Consumption of purchased heat, steam, and cooling (MWh)

0

Consumption of self-generated heat, steam, and cooling (MWh)

7.582

Total non-fuel energy consumption (MWh) [Auto-calculated]

25.911

Country/area

Indonesia

Consumption of purchased electricity (MWh)

17.154

Consumption of self-generated electricity (MWh)

0

Consumption of purchased heat, steam, and cooling (MWh)

7.188

Consumption of self-generated heat, steam, and cooling (MWh)

31.174

Total non-fuel energy consumption (MWh) [Auto-calculated]

55.516

Country/area

Italy

Consumption of purchased electricity (MWh)

2.065

Consumption of self-generated electricity (MWh)

0

Consumption of purchased heat, steam, and cooling (MWh)

0

Consumption of self-generated heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

2.065

Country/area

Japan

Consumption of purchased electricity (MWh)

27.755

Consumption of self-generated electricity (MWh)

0

Consumption of purchased heat, steam, and cooling (MWh)

50.192

Consumption of self-generated heat, steam, and cooling (MWh)

42.316

Total non-fuel energy consumption (MWh) [Auto-calculated]

120.263

Country/area

Luxembourg

Consumption of purchased electricity (MWh)

3.225

Consumption of self-generated electricity (MWh)

0

Consumption of purchased heat, steam, and cooling (MWh)

0

Consumption of self-generated heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

3.225

Country/area

Netherlands

Consumption of purchased electricity (MWh)

23.343

Consumption of self-generated electricity (MWh)

0

Consumption of purchased heat, steam, and cooling (MWh)

44.098

Consumption of self-generated heat, steam, and cooling (MWh)

9.658

Total non-fuel energy consumption (MWh) [Auto-calculated]

77.099

Country/area

New Zealand

Consumption of purchased electricity (MWh)

14.146

Consumption of self-generated electricity (MWh)

0

Consumption of purchased heat, steam, and cooling (MWh)

0

Consumption of self-generated heat, steam, and cooling (MWh)

9.341

Total non-fuel energy consumption (MWh) [Auto-calculated]

23.487

Country/area

Norway

Consumption of purchased electricity (MWh)

285

Consumption of self-generated electricity (MWh)

0

Consumption of purchased heat, steam, and cooling (MWh)

0

Consumption of self-generated heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

285

Country/area

Singapore

Consumption of purchased electricity (MWh)

287.411

Consumption of self-generated electricity (MWh)

0

Consumption of purchased heat, steam, and cooling (MWh)

26.417

Consumption of self-generated heat, steam, and cooling (MWh)

683.489

Total non-fuel energy consumption (MWh) [Auto-calculated]

997.317

Country/area

Slovakia

Consumption of purchased electricity (MWh)

18.095

Consumption of self-generated electricity (MWh)

0

Consumption of purchased heat, steam, and cooling (MWh)

0

Consumption of self-generated heat, steam, and cooling (MWh)

45.718

Total non-fuel energy consumption (MWh) [Auto-calculated]

63.813

Country/area

South Africa

Consumption of purchased electricity (MWh)

11.594

Consumption of self-generated electricity (MWh)

0

Consumption of purchased heat, steam, and cooling (MWh)

20.116

Consumption of self-generated heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

31.710

Country/area

Democratic People's Republic of Korea

Consumption of purchased electricity (MWh)

63.065

Consumption of self-generated electricity (MWh)

0

Consumption of purchased heat, steam, and cooling (MWh)

139.943

Consumption of self-generated heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

203.008

Country/area

Spain

Consumption of purchased electricity (MWh)

33.773

Consumption of self-generated electricity (MWh)

10.815

Consumption of purchased heat, steam, and cooling (MWh)

67.261

Consumption of self-generated heat, steam, and cooling (MWh)

69.717

Total non-fuel energy consumption (MWh) [Auto-calculated]

181.566

Country/area

Taiwan, China

Consumption of purchased electricity (MWh)

13.956

Consumption of self-generated electricity (MWh)

0

Consumption of purchased heat, steam, and cooling (MWh)

27.015

Consumption of self-generated heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

40.971

Country/area

Thailand

Consumption of purchased electricity (MWh)

8.536

Consumption of self-generated electricity (MWh)

0

Consumption of purchased heat, steam, and cooling (MWh)

0

Consumption of self-generated heat, steam, and cooling (MWh)

16.009

Total non-fuel energy consumption (MWh) [Auto-calculated]

24.545

Country/area

Turkey

Consumption of purchased electricity (MWh)

18.433

Consumption of self-generated electricity (MWh)

0

Consumption of purchased heat, steam, and cooling (MWh)

90.708

Consumption of self-generated heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

109.141

Country/area

Consumption of purchased electricity (MWh)

Consumption of self-generated electricity (MWh)

Consumption of purchased heat, steam, and cooling (MWh)

Consumption of self-generated heat, steam, and cooling (MWh)

Total non-fuel energy consumption (MWh) [Auto-calculated]

Country/area

United Kingdom of Great Britain and Northern Ireland

Consumption of purchased electricity (MWh)

3.595

Consumption of self-generated electricity (MWh)

0

Consumption of purchased heat, steam, and cooling (MWh)

0

Consumption of self-generated heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

3.595

Country/area

United States of America

Consumption of purchased electricity (MWh)

1.078.793

Consumption of self-generated electricity (MWh)

21.699

Consumption of purchased heat, steam, and cooling (MWh)

682.588

Consumption of self-generated heat, steam, and cooling (MWh)

1.813.990

Total non-fuel energy consumption (MWh) [Auto-calculated]

3.597.070

C-CH8.3

(C-CH8.3) Does your organization consume fuels as feedstocks for chemical production activities?

Yes

C-CH8.3a

(C-CH8.3a) Disclose details on your organization's consumption of fuels as feedstocks for chemical production activities.

Fuels used as feedstocks

Natural gas

Total consumption

285.369

Total consumption unit

metric tons

Inherent carbon dioxide emission factor of feedstock, metric tons CO₂ per consumption unit

2,58

Heating value of feedstock, MWh per consumption unit

12,7

Heating value

LHV

Comment

Mainly for HCN, H₂O₂, H₂ production

C-CH8.3b

(C-CH8.3b) State the percentage, by mass, of primary resource from which your chemical feedstocks derive.

	Percentage of total chemical feedstock (%)
Oil	30
Natural Gas	20
Coal	0
Biomass	1
Waste (non-biomass)	0
Fossil fuel (where coal, gas, oil cannot be distinguished)	0
Unknown source or unable to disaggregate	49

C9. Additional metrics

C9.1

(C9.1) Provide any additional climate-related metrics relevant to your business.

Description

Waste

Metric value

323.000

Metric numerator

metric tons

Metric denominator (intensity metric only)

% change from previous year

6

Direction of change

Decreased

Please explain

Production waste decreased to 323,000 metric tons (– 6 percent) as a result of lower utilization of production capacity in 2022. The proportion of hazardous production waste that could be reprocessed rose slightly in the reporting period to 59 percent (2021: 56 percent).

C-CH9.3a

(C-CH9.3a) Provide details on your organization's chemical products.

Output product

Specialty chemicals

Production (metric tons)

8.810.000

Capacity (metric tons)

8.810.000

Direct emissions intensity (metric tons CO₂e per metric ton of product)

0,47

Electricity intensity (MWh per metric ton of product)

0,44

Steam intensity (MWh per metric ton of product)

1,02

Steam/ heat recovered (MWh per metric ton of product)

0,38

Comment

C-CE9.6/C-CG9.6/C-CH9.6/C-CN9.6/C-CO9.6/C-EU9.6/C-MM9.6/C-OG9.6/C-RE9.6/C-ST9.6/C-TO9.6/C-TS9.6

(C-CE9.6/C-CG9.6/C-CH9.6/C-CN9.6/C-CO9.6/C-EU9.6/C-MM9.6/C-OG9.6/C-RE9.6/C-ST9.6/C-TO9.6/C-TS9.6) Does your organization invest in research and development (R&D) of low-carbon products or services related to your sector activities?

	Investment in low-carbon R&D	Comment
Row 1	Yes	

C-CH9.6a

(C-CH9.6a) Provide details of your organization's investments in low-carbon R&D for chemical production activities over the last three years.

Technology area

Unable to disaggregate by technology area

Stage of development in the reporting year

Average % of total R&D investment over the last 3 years

30

**R&D investment figure in the reporting year (unit currency as selected in C0.4)
(optional)**

150.000.000

Average % of total R&D investment planned over the next 5 years

40

**Explain how your R&D investment in this technology area is aligned with your
climate commitments and/or climate transition plan**

Innovation is a key pillar for the future success of Evonik as a pure-play specialty chemicals company. The mission of the central Research, Development and Innovation (RD&I) organization is: "Delivering innovative solutions by combining technology and business to promote sustainable growth". RD&I has more than 30 locations worldwide and around 2600 employees, with expenses totalling € 461 million in 2022. Sustainability is fully integrated into innovation portfolio steering. That means, only if the overall evaluation including sustainability criteria is positive, an innovation project is started. The sustainability criteria address two aspects: 1) Contribution to Evonik's Next Generation Solutions (based on WBCSD's Portfolio Sustainability Analysis), including Evonik's sustainability focus area "Fight Climate Change", and 2) Contribution to Evonik's "Next Generation Technologies", including greenhouse gas emission reduction of production processes. This stringent approach ensures 2030 target achievement of >50% sales share of "Next Generation Solutions", and 25% reduction of greenhouse gas scope 1&2 emissions (vs. 2021 baseline). The following RD&I projects serve as examples showing the effectiveness of the innovation steering: - Development of a two-in-one reactor with efficient catalytic reactor technology and sustainable downstream processing, demonstrating CO₂ saving potential of up to 35% (part of MACBETH, the largest EU-funded research project coordinated by Evonik). Evonik has developed a novel anion exchange membrane, which should contribute to the breakthrough of electrolytic production of green hydrogen. Besides RD&I projects, Evonik uses its Corporate Venture Capital unit to achieve the ambitious sustainability targets: A new Sustainability Tech Fund has a volume of € 150 million for Venture Capital investments in technologies towards carbon neutrality. To implement the strategy, 700 M€ CapEx will be spent in the period 2022 to 2030 for climate change mitigation measures (project EAGER). Rules for CAPEX allocation in Evonik were adapted and now incorporate CO₂ mitigation as a parameter for investment decisions, influencing strategic and risk mitigation dimensions of such decisions.

To reduce Scope 2 emissions, purchased electricity will be switched to 100% renewable sources by 2030.

C10. Verification

C10.1

(C10.1) Indicate the verification/assurance status that applies to your reported emissions.

	Verification/assurance status
Scope 1	Third-party verification or assurance process in place
Scope 2 (location-based or market-based)	Third-party verification or assurance process in place
Scope 3	Third-party verification or assurance process in place

C10.1a

(C10.1a) Provide further details of the verification/assurance undertaken for your Scope 1 emissions, and attach the relevant statements.

Verification or assurance cycle in place

Annual process

Status in the current reporting year

Complete

Type of verification or assurance

Limited assurance

Attach the statement

 Sustainability Report 2022 en.pdf

Page/ section reference

"EVONIK_Sustainability Report 2022", Independent Practitioner's Limited Assurance Report - Pages 148-149. All Scope 1 emissions data is listed on page 85 in Table 08.

Relevant standard

ISAE3000

Proportion of reported emissions verified (%)

100

C10.1b

(C10.1b) Provide further details of the verification/assurance undertaken for your Scope 2 emissions and attach the relevant statements.

Scope 2 approach

Scope 2 market-based

Verification or assurance cycle in place

Annual process

Status in the current reporting year

Complete

Type of verification or assurance

Limited assurance

Attach the statement

 Sustainability Report 2022 en.pdf

Page/ section reference

"EVONIK_Sustainability Report 2022", Independent Practitioner's Limited Assurance Report - Pages 148-149. All Scope 2 emissions data is listed on page 85 in Table 08.

Relevant standard

ISAE3000

Proportion of reported emissions verified (%)

100

Scope 2 approach

Scope 2 location-based

Verification or assurance cycle in place

Annual process

Status in the current reporting year

Complete

Type of verification or assurance

Limited assurance

Attach the statement

 Sustainability Report 2022 en.pdf

Page/ section reference

"EVONIK_Sustainability Report 2022", Independent Practitioner's Limited Assurance Report - Pages 148-149. All Scope 2 emissions data is listed on page 85 in Table 08.

Relevant standard

ISAE3000

Proportion of reported emissions verified (%)

100

C10.1c

(C10.1c) Provide further details of the verification/assurance undertaken for your Scope 3 emissions and attach the relevant statements.

Scope 3 category

Scope 3: Purchased goods and services
Scope 3: Capital goods
Scope 3: Fuel and energy-related activities (not included in Scopes 1 or 2)
Scope 3: Upstream transportation and distribution
Scope 3: Waste generated in operations
Scope 3: Business travel
Scope 3: Employee commuting
Scope 3: Upstream leased assets
Scope 3: Downstream transportation and distribution
Scope 3: Use of sold products
Scope 3: End-of-life treatment of sold products

Verification or assurance cycle in place

Annual process

Status in the current reporting year

Complete

Type of verification or assurance

Limited assurance

Attach the statement

 EVONIK_2023_ECF_2022_EN.pdf

Page/section reference

Cf. "Evonik Carbon Footprint 2022", Limited Assurance Report of the Independent Auditor Regarding Greenhouse Gas Emission Data on pages 16-17. All relevant scope 3 emissions data are to be found on page 5, Table 1.

Note: Results reported for Scope 3 are based on 2022 full year activity data. Be aware that those numbers differ from those externally verified and published in our 2022

sustainability reporting which are based on Q1-Q3 2022 data and extrapolations for the fourth quarter.

Relevant standard

ISAE 3410

Proportion of reported emissions verified (%)

100

C10.2

(C10.2) Do you verify any climate-related information reported in your CDP disclosure other than the emissions figures reported in C6.1, C6.3, and C6.5?

Yes

C10.2a

(C10.2a) Which data points within your CDP disclosure have been verified, and which verification standards were used?

Disclosure module verification relates to	Data verified	Verification standard	Please explain
C3. Business strategy	Alignment with a sustainable finance taxonomy	Evonik reports on its alignment with the EU taxonomy as part of Evonik's non-financial statement. All parts of the non-financial statement were covered by a limited assurance engagement in accordance with the International Standard on Assurance Engagements 3000 (ISAE 3000) by an independent auditor.	The figures for last year's taxonomy-aligned and taxonomy-non-aligned turnover, CAPEX and OPEX in questions 3.5a and 3.5b are evaluated, verified and published annually by Evonik as part of Evonik's non-financial statement. As such, the scope for both the evaluation and the verification is the whole company (thus, similar scope to our financial report). "EVONIK_Financial Report 2022", Independent Auditor's Report - Pages 205-215. EU-Taxonomy data is listed on pages 216-220.  ¹

 ¹Evonik Financial Report 2022.pdf