

GHG Carbon Footprint 2022 - 2024

In 2024, Eltwin Group took an important step forward in our climate reporting by including scope 3 emissions in our carbon footprint for the first time. This expansion reflects our commitment to transparency and a more holistic understanding of our climate impact.

We follow the methodology outlined in the Greenhouse Gas Protocol, which defines 15 distinct categories under scope 3. Of these, 8 relate to upstream activities and 7 to downstream activities. Throughout the year, we have worked to identify which of these categories are relevant to our operations. As a result of this effort, we identified emissions in 11 out of the 15 scope 3 categories.

For this reporting cycle, we have been able to include data from our upstream activities only. Mapping downstream emissions requires further investigation and collaboration with our stakeholders. We aim to include these downstream activities in our Sustainability Report 2025.

Moving forward, our carbon footprint will reflect a three-year period, as our scope 3 accounting and related data collection now date back to 2022. This approach will allow for a more consistent and meaningful view of our emissions over time.

Please note: As we transitioned to a new ERP system in 2024, data collection had to be done across two different systems. This resulted in a largely manual data-gathering and analysis process, which can naturally introduce a higher risk of inaccuracy. We are working on implementing a more automated and precise data solution. Additionally, 2024 was an unusual year with significantly lower production volumes, which may affect the comparability of emission data across years.

Scope 1

Includes direct emissions from sources owned or controlled by Eltwin Group.

Our scope 1 emissions primarily stem from the fuel consumption of our company vehicles in Denmark and Poland. Since our production is largely powered by electricity, the majority of emissions typically associated with on-site energy use are instead reported under scope 2.

Scope 2

Includes indirect emissions from purchased energy; electricity and district heating where we have operational control.

Our scope 2 emissions arise from the consumption of electricity and district heating across our operations.

Scope 2 location-based emissions are calculated by summing up the emissions from district heating and location-based electricity. District heating emissions are based on the kWh consumption and are calculated using emission factors from local production mixes or average IEA (International Energy Agency) statistics. Location-based electricity emissions are calculated by applying the appropriate electricity production mixes from IEA statistics.

Scope 2 market-based emissions are calculated differently. District heating emissions are the same as for the location-based method. With electricity, the whole Eltwin Group has renewable energy certificates. With these certificates we can guarantee the origin of our electricity and reduce our market-based CO₂ emissions. With the certificates it is certified that the electricity is produced exclusively by renewable sources with an emission factor of 0 gram CO₂e per kWh. If there is any electricity not covered by the certificates, the emission factor is based on the remaining residual mix from IEA.

Scope 3

Includes indirect emissions resulting from value chain activities.

In 2024, Eltwin Group included scope 3 emissions in our carbon footprint for the first time. This is an important milestone in broadening our climate impact reporting. The scope 3 emissions are a result of our upstream and downstream activities which are not controlled by us.

For this initial reporting year, we have focused on upstream activities, where we identified emissions in seven relevant categories. Below is an overview of the data:

- **Purchased goods and services:** Includes all materials related to the production of our products, as well as water consumption and various indirect purchases such as office supplies, cleaning services, and employee events.
- **Capital goods:** Covers emissions from the production of long-term equipment and investments.
- **Fuel- and energy-related activities:** Emissions associated with the production and delivery of the fuels and electricity we consume (not already included in scope 1 and 2).

- **Upstream transportation and distribution:** Based on actual CO₂ data reported by our freight partners across air, maritime, and road transport.
- **Waste generated in operations:** Calculated using concrete volume and waste handling data provided by our waste management providers.
- **Business travel:** Includes emissions from business trips, based on travel activity data provided by our travel agency.
- **Employee commuting:** Estimated using responses from an internal employee commuting survey.

Downstream emissions are not yet included, as they require further investigation and coordination with partners. We plan to expand our scope 3 reporting to cover the following downstream categories: Downstream transportation and distribution, Processing of sold products, Use of sold products and End-of-life treatment of sold products. Including these categories over time will allow us to build a complete and more reliable overview of our value chain emissions.

Carbon Footprint	Unit	2022	2023	2024
<i>Total scope 1</i>	<i>tCO₂e</i>	40.1	59.8	55.9
- Petrol	tCO ₂ e	3.3	12.9	19.7
- Diesel	tCO ₂ e	36.8	46.8	36
<i>Total scope 2 (location based)</i>	<i>tCO₂e</i>	481.7	604.8	441.1
- District heating	tCO ₂ e	92.7	146.8	108.6
- Electricity	tCO ₂ e	389	458	332.5
<i>Total scope 2 (market based)</i>	<i>tCO₂e</i>	92.7	146.8	124.7
Total scope 1 & 2 (location based)	tCO₂e	521.8	664.6	497
Total scope 1 & 2 (market based)	tCO₂e	132.8	206.6	180.6
Total scope 1	liters	16065	24794	23661,4
Total scope 2	MWh	1304.1	1488.1	1237.2
Total renewable energy (location based)	MWh	428.8	699.8	636.4
Total renewable energy share (location based)	%	29.1%	40.5%	43.5%
Total renewable energy (market based)	MWh	977.3	1310.6	1044.4
Total renewable energy share (market based)	%	66.4%	75.9%	71.4%
<i>Total scope 3</i>	<i>tCO₂e</i>	7298.4	8444	5048.6
- Purchased goods and services	tCO ₂ e	6671.1	7669.2	4210.2
- Capital goods	tCO ₂ e	131.3	171.6	22
- Fuel- and energy-related activities	tCO ₂ e	139.2	161.9	122
- Upstream transportation and distribution	tCO ₂ e	112.3	78.8	436
- Waste generated in operations	tCO ₂ e	61.1	99.2	35.8
- Business travel	tCO ₂ e	9.4	40.1	41.8
- Employee commuting	tCO ₂ e	174	223.3	180.9
Total scope 1, 2 & 3 (location based)	tCO₂e	7820.2	9108.6	5545.6