

CARBON FOOTPRINT STATEMENT

ETHYLENE

ORLEN Unipetrol RPA s.r.o., as one of the leading industrial companies operating in Czech Republic in the field of petrochemical production, creates products that contribute to an enhanced standard of living for people throughout the Czech Republic. The long term strategy of the ORLEN group accepted in accordance with newly established ecological trends also contains a long term commitment to achieve carbon neutrality by the year 2050.

ORLEN Unipetrol RPA s.r.o. calculates the carbon footprint of the product (CFP) in the „cradle to gate” extent in order to identify measures to be implemented to reduce the overall carbon footprint of the enterprise. The CFP calculation includes the carbon footprint from the supplier chain and carbon footprint from the inhouse manufacture in Litvínov until the moment when the product leaves the company gates in the Litvínov complex. ORLEN Unipetrol RPA s.r.o. recognizes the importance of collaborating with business partners in the sphere of carbon footprint reduction over a product’s life cycle. The enterprise is disclosing the following information to assist business partners in quantifying their Scope 3 emissions and the carbon footprint of their own value chain.

FY2023 Weighted Average Carbon Footprint related to production of 1 tonne of ethylene from the production of ORLEN Unipetrol RPA s.r.o.	2.189 tonne CO₂-eq/tonne of product
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Pavel Fobl
Head of Integrated Prevention and Product Quality dept.

Notes on the calculation of the Weighted Average Carbon Footprint of carbon footprint of the product:

- The CFP calculation is conducted based on the ISO 14067; ISO 14040; ISO 14044 standards and in accordance with Greenhouse Gas Protocol - Product Lifecycle Accounting and Reporting standard requirements in the „Cradle to Gate” extent.
- Data required for the CFP calculation was obtained from emission reporting of GHG systems EU ETS from the production plants of ORLEN Unipetrol RPA s.r.o., and for external materials and raw materials was used the Greenhouse Gas, Regulated Emissions, and Energy Use Transportation (GREET) Model (2023), DEFRA, EIB Project Carbon Footprint methodology and academic studies focusing on calculation of the carbon footprint of given materials.
- The CFP evaluates all Scope 1 and 2 impacts in accordance with the Greenhouse Gas Protocol including emissions related to own energy production, also includes emissions from the production of purchased electricity, does not include losses during the transmission and distribution of purchased electricity.
- The CFP evaluates the following Scope 3 impacts in accordance with the Greenhouse Gas Protocol:
 - Purchased raw materials - overall emissions from the supplier chain: extraction, transport, refining and distribution of raw materials; partial coverage of emissions of additives and catalysts
 - Production and distribution of clean water directly related to product production
 - Processing and transportation of waste and wastewater directly related to product production
 - Energy used for raw material and intermediate product storage directly related to product production