

Press Release

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Volvo EX30 LCA shows lowest carbon footprint of any fully electric Volvo car to date

The Volvo EX30 possesses the smallest carbon footprint of any fully electric Volvo car to date¹. That's according to the life cycle assessment (LCA) of the Volvo EX30, available [here](#), which concludes that it has a total carbon footprint of 23 tonnes per 200,000 km – approximately 60 per cent less than the XC40 ICE (petrol)².

The carbon footprint report identifies the key contributing materials and processes to the car's emissions. Exclusively focused on greenhouse gas (GHG) emissions, the report covers the car's life cycle, starting with the extraction and refining of raw materials and ending with the car's end of life.

Using wind-based electricity to charge the EX30 substantially reduces the carbon footprint compared with global or European electricity mixes by approximately 42 per cent and 22 per cent respectively³. This underlines the need to accelerate investments in renewable energy infrastructure globally for electric cars to reach their full climate potential.

“Transitioning to electric cars is key to limiting climate change, but increased transparency about its challenges is needed to reduce their emissions even further,” says Jonas Otterheim, Head of Climate Action at Volvo Cars. “By studying the EX30's carbon footprint and identifying its primary materials and processes, we aim to provide valuable insights that can help guide decisions in our company towards becoming more sustainable, as well as among the wider industry.”

We have now completed comprehensive LCAs of the carbon footprint for three of our fully electric cars launched since 2019: the Volvo EX40, EC40 and now the EX30. By making these reports available to the public, we hope to help customers make informed decisions when choosing their next electric car.

An important step in our journey towards net zero greenhouse gas emissions

A car is not just driven. It is also designed, developed, built and transported – providing us with numerous opportunities to reduce greenhouse gas emissions and make progress towards achieving each of our sustainability ambitions. With the Volvo EX30 we are taking an important stride towards our goal of becoming a fully electric car company by 2030 and our aim to reach net zero greenhouse gas emissions by 2040.

The proportion of recycled materials in the EX30 is the highest of any Volvo car so far. Around one quarter of the aluminum and almost one fifth of the steel is recycled material. In addition, around 17 per cent of all plastics within the car, from interior components to exterior bumpers, are made from recycled material.

Thanks to initiatives across our supply chain and manufacturing, the LFP-equipped Volvo EX30 has a 'cradle-to-gate' impact of an estimated 14.8 tonnes – just over 60 per cent of the model's total carbon footprint⁴. This includes emissions generated during the production of materials and the car, but excludes emissions from the use and end-of-life phases of the EX30.

We plan to reduce the EX30's CO₂ impact even further by collaborating with suppliers across our entire value chain. By 2025 for example, our battery suppliers are working towards reducing

emissions from manufacturing the LFP battery by 20 per cent, and by 46 per cent in the case of the NMC battery. To do this, our suppliers aim to replace electricity usage during cell manufacturing with renewable energy sources, increase the share of recycled content in their materials and reduce their supply chain emissions.

Production of the EX30 began in November 2023, and the first cars were delivered to their new owners in European markets late last year. To date, the EX30 has received several prestigious awards, including Small SUV/Crossover of the Year in the News UK Motor Awards, Carwow Car of the Year 2024, Eco Warrior of the Year in the TopGear.com Awards 2023, and Car of the Year by The Sun.

¹ *The lowest carbon footprint of any fully electric Volvo car to date statement relates to globally available products over 200,000 kilometres of driving using the same energy mix during the use phase*

² *Based on Single Motor equipped with an LFP battery (51kWh) with 15 years and 200,000 kilometres of driving, using an EU28 average energy mix*

³ *Based on Single Motor equipped with an LFP battery (51kWh) with 15 years and 200,000 kilometres of driving, using an EU28 average energy mix*

⁴ *Based on Single Motor equipped with an LFP battery (51kWh) with 15 years and 200,000 kilometres of driving, using an EU28 average energy mix*

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Volvo Cars in 2023

For the full year 2023, Volvo Car Group recorded a record-breaking core operating profit of SEK 25.6 billion. Revenue in 2023 amounted to an all-time high of SEK 399.3 billion, while global sales reached a record 708,716 cars.

About Volvo Car Group

Volvo Cars was founded in 1927. Today, it is one of the most well-known and respected car brands in the world with sales to customers in more than 100 countries. Volvo Cars is listed on the Nasdaq Stockholm exchange, where it is traded under the ticker "VOLCAR B".

"For life. To give people the freedom to move in a personal, sustainable and safe way." This purpose is reflected in Volvo Cars' ambition to become a fully electric car maker by 2030 and in its commitment to an ongoing reduction of its carbon footprint, with the ambition to achieve net-zero greenhouse gas emissions by 2040.

As of December 2023, Volvo Cars employed approximately 43,400 full-time employees. Volvo Cars' head office, product development, marketing and administration functions are mainly located in Gothenburg, Sweden. Volvo Cars' production plants are located in Gothenburg, Ghent (Belgium), South Carolina (US), Chengdu, Daqing and Taizhou (China). The company also has R&D and design centres in Gothenburg and Shanghai (China).

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