Cayenne Turbo Electric (WLTP)*: Electrical consumption combined: 22.4 – 20.4 kWh/100 km; CO_2 emissions combined: 0 g/km; CO_2 class: A

From battery module to complete car: a look at production of the Cayenne

18/02/2026 From the battery module to the complete vehicle: a look at the production of the Cayenne

The new Cayenne Electric sets new standards in many ways. For example, the top-of-the-range Cayenne Turbo, which produces a power output of up to 850 kW (1,156 PS)[1], is the most powerful Porsche production model of all time. The new generation also has the largest screen area of a Porsche to date, and never before has the Cayenne been so extensively customisable.

But Porsche is also breaking new ground in production, enabling customers to realise their dreams with high-performance and inspiring sports cars made to the highest levels of manufacturing quality. Porsche is also significantly further expanding its own battery expertise by using battery modules in the Cayenne Electric that have been developed and manufactured entirely in-house.

As part of the 'Innovation in sync: the road to the electric Cayenne' event, Porsche is giving media guests a behind-the-scenes look at both production of the high-voltage battery modules in Horná Streda and production of the entire vehicle in Bratislava, both in Slovakia.

"Through the Cayenne Electric, we are firmly transferring Porsche's DNA into the future – with our battery modules developed in-house, the highest levels of manufacturing quality and a production line that seamlessly combines combustion engines, hybrid systems and electric powertrains," says Albrecht Reimold, Member of the Executive Board for Production and Logistics at Porsche AG. "This gives us the flexibility we need to reliably provide the highest quality, state-of-the-art technology and to meet individual customer requirements for every market worldwide."

Battery expertise as a strategic tool

Together with Porsche Werkzeugbau GmbH, Porsche has set up the Porsche Smart Battery Shop in Horná Streda, a state-of-the-art production site for the next generation of battery modules. The close integration with Porsche Werkzeugbau was a key factor in the success of the project, with expertise from prototype production being seamlessly transferred to series production.

The battery modules are created under strict quality control measures in a precisely coordinated process consisting of cell preparation, stacking, laser welding, foam application, cooling plate integration and end-of-line testing.

"With the Smart Battery Shop, we are bundling decades of industrialisation experience with state-of-the-art battery technology – from cell processing to fully automated end-of-line testing," says Markus Kreutel, Chairman of the Executive Board of Porsche Werkzeugbau GmbH. "This end-to-end vertical integration gives Porsche control over the quality, precision and scalability of a key technology that will significantly shape our future.

One plant, three Porsche powertrains, one standard of quality

The Cayenne Electric will be produced in Bratislava from 2026 – on the same line as the models equipped with combustion engines and hybrid drive systems. This flexible approach to production enables Porsche to react quickly to changes in demand. The Volkswagen Group's multi-brand site in the Devínska Nová Ves district has been extensively expanded for production of the electric SUV.

At the heart of the renovation measures is a new 'platform hall' – the place where each new Cayenne Electric comes into being. This is where the skateboard-like chassis is constructed and then fitted with the side panels, roof, doors, bonnet and tailgate in the subsequent manufacturing steps. These body panels come from the press shop. With an almost fully automated pressing line, it is one of the most modern press shops in Europe.

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[1]When using overboost. About the measurement method: https://www.porsche.com/gtr21

MEDIA ENQUIRIES

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Consumption data

Cayenne Electric (WLTP)*: Electrical consumption combined: 21.8 – 19.7 kWh/100 km; CO_2 emissions combined: 0 g/km; CO_2 class: A

Cayenne Turbo Electric (WLTP)*: Electrical consumption combined: 22.4 – 20.4 kWh/100 km; CO_2 emissions combined: 0 g/km; CO_2 class: A

*Further information on the official fuel consumption and the official specific CO_2 emissions of new passenger cars can be found in the "Leitfaden über den Kraftstoffverbrauch, die CO_2-Emissionen und den Stromverbrauch neuer Personenkraftwagen" (Fuel Consumption, CO_2Emissions and Electricity Consumption Guide for New Passenger Cars), which is available free of charge at all sales outlets and from DAT (Deutsche Automobil Treuhand GmbH, Helmuth-Hirth-Str. 1, 73760 Ostfildern-Scharnhausen, www.dat.de).

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