

Stellantis unveils STLA Large platform for D- and E-segment EVs

23-Jan-2024 14:40 GMT

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Stellantis plans to launch eight vehicles developed on the STLA Large platform between 2024–2026

Stellantis NV has unveiled its STLA Large platform, designed and engineered for developing D- and E-segment electric vehicles for the global markets, the company announced Jan. 19.



Source: Getty Images/ gorodenkoff

The carmaker said that full-size EVs developed on the STLA Large platform will be launched first in the North American markets under the Dodge and Jeep brands, followed by other brands including Alfa Romeo, Chrysler and Maserati.

There will be eight vehicles launched from 2024–2026, Stellantis said in its press note.

Upcoming products will cover a full spectrum of vehicle types, ranging from cars to crossovers to sport utility vehicles (SUVs), the carmaker said, adding that product specific announcements will be made later in 2024.

According to Stellantis, the STLA Large platform is engineered to offer greater levels of vehicle diversity, and top-rank quality and customer satisfaction from a base set of componentry, along with robust and cost-efficient manufacturing processes that can be duplicated in multiple assembly plants.

Notably, STLA Large, which is one of four global battery-electric vehicle (BEV) platforms outlined by the carmaker on its EV Day 2021, is the second platform to be revealed following the release of STLA Medium in July 2023. Stellantis said that it plans to install the STLA Large in several plants in Europe and North America.

Further, the STLA Large platform will be able to accommodate multiple propulsion systems including hybrid and internal combustion.

According to Stellantis, the flexibility of the unibody platform STLA Large is designed with the option of 400-V and 800-V electric architectures. The platform will also accommodate three-in-one electric drive modules (EDMs) that incorporate the motor, power inverter and gear reduction, which can be configured in front-wheel-drive, rear-wheel-drive and all-wheel-drive layouts.

The carmaker's STLA Large platform will initially include battery-pack options with energy ratings between 85 and 118 kWh, with a target of achieving a driving range of 800 km for sedans. In addition, fast-charging capability will be able to add up to 4.5 kWh per minute to the 800V battery pack, the company said.

“Our goals for our STLA platforms are ambitious but this is what our customers need from us today,” Stellantis CEO Carlos Tavares said. “Creating a family of vehicles from a well-engineered set of components that is flexible enough to cover multiple vehicle types and propulsions, overperforming any of our current products, will address each of our iconic brands’ customers. The flexibility and agility of this platform is its hallmark and will be a driving force for our success in the shift to electrification in North America.”

It is known that Stellantis is investing more than €50 billion over the next decade in electrification to deliver on the targets of reaching a 100% passenger car BEV sales mix in Europe, and 50% passenger car and light-duty truck BEV sales mix in the US by 2030. To achieve these sales targets,

the carmaker is working to secure approximately 400 GWh of battery capacity, including support from six battery manufacturing plants in North America and Europe.

The company plans to have 48 BEVs on the market by 2024 and is on track to become a carbon net-zero corporation by 2038, all scopes included.

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