

Ultra-fast charger to be added to EV charging network here by Q4

Lee Nian Tjoe
Senior Transport
Correspondent

The electric vehicle (EV) charging network here will get a boost in the fourth quarter of 2025 with the launch of an ultra-fast charger that is capable of adding over 200km of driving range in five minutes.

This is nearly 10 times faster than the existing fast chargers that can take over 40 minutes to deliver the same amount of electricity.

The ultra-fast charger by Chinese tech giant Huawei will be located at a public carpark at Temasek Polytechnic in Tampines. It will have at least four charging points, joining SP Mobility's net-

work of 20 charging points across the three carparks at the polytechnic. SP Mobility is a subsidiary of utilities provider SP Group.

Besides electric cars, it will also support electric commercial vehicles and private buses, which often cannot get to charging spaces that are located in public carparks because of weight or size restrictions.

A spokesman for SP Mobility and Huawei told The Straits Times that the site serves as a strategic transport hub for the eastern part of Singapore.

The ultra-fast charger has a 480 kilowatt (kW) rating, referring to its maximum power output – which can be directed to a single vehicle or distributed among several EVs simultaneously. Existing charging points in Singapore range

between 3.7kW and 250kW.

The actual charging speed is determined not only by the specification of the charger but also by the EV's capability.

Currently, the fastest-charging models include the Hyundai Ioniq 5, which supports up to 350kW, while popular mass-market EVs like the BYD Atto 3 can take up to only 100kW.

Pricing for the use of the new charging points has not been announced, but it will cost more than the 76.3 cents to 81.8 cents per kilowatt-hour at SP Mobility's existing fast chargers.

This is to reflect the charger's higher power capacity and infrastructure costs, said the spokesman.

The ultra-fast charger uses liquid

cooling technology for it to be able to dispense electricity at speed while achieving high energy efficiency and with minimal maintenance, he added.

It also has an integrated energy storage system, which works like a battery to store electricity that can be readily dispensed to an EV when needed.

The deployment at Temasek Polytechnic with SP Mobility is the first project under the partnership in 2024 between Huawei and a subsidiary of the Land Transport Authority to introduce the Chinese firm's ultra-fast chargers in Singapore's public EV charging network.

Mr Dean Cher, managing director of SP Mobility, told ST that the company has been looking for sites to put in fast chargers that can

serve heavy commercial vehicles and buses to cater to the growing population.

SP Mobility and Huawei said that they will be working together to look for other sites to deploy ultra-fast chargers. They will also be working on supporting the adoption of electric commercial vehicles, such as logistics fleets and private buses, which have long operational hours and high daily mileage.

In line with this effort, the charging operator will be the EV charging solution partner for the logistics and heavy vehicle operations of Goldbell Group, an established player in commercial vehicle leasing and distribution.

niantjoel@sph.com.sg