

Construction Phase FAQs

Overview

The WA EV Network is a State Government Initiative delivered by Synergy and Horizon Power. It is part of the State Government's \$24.4 million Electric Vehicle Fund to increase the uptake of Electric Vehicles (EVs) in WA. This initiative aims to increase regional travel and tourism by improving the accessibility to the locations for EV drivers.

The works will include:

- Installation of two EV chargers (a minimum of 1 DC fast charger and 1 backup charger)
 - Installation of a payment station
 - Upgrade or installation of a Western Power transformer, switchboard, and LV kiosk or a Uni-pillar in some cases
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Project Specific

Q 1. How will I know it is an EV Charging Bay?

There will be an EV logo painted on the car bay to help people to identify that it is an EV charging bay.

Q 2. When will the network be fully operational?

Construction of the first charging station has commenced in November 2022. The EV network is expected to be fully operational by early 2024.

Q 3. Where will the charging stations be installed?

The network includes 98 charging stations across 49 locations connecting Perth and regional Western Australia - stretching north from Perth to Kununurra, along the south-west coast to Esperance and east to Eucla and Kalgoorlie. The locations can be found on this [map](#). The locations are approximately 200km or less apart to reduce range anxiety and support regional travel.

Q 4. Where can I find more information?

If you want to read more about the WA EV Network, please visit [Australia's longest electric vehicle network is coming to WA \(synergy.net.au\)](https://www.synergy.net.au/evnetwork)

Construction

Q 5. When will construction commence?

Construction of the first locations commenced in November 2022.

Q 6. What is the order of locations being constructed?

Several factors impact a location's readiness for construction including approvals, site design, network augmentation requirements and environment. Synergy will endeavour to construct nearby locations in parallel, however this complexity means this may not always be possible.

Q 7. How long will construction take to complete?

Each site in the WA EV Network is unique, however it is expected that construction will take between 8 to 12 weeks.

Q 8. Will there be traffic management in place?

Traffic management for some sites will be required. Synergy's contractor will work with the Local Government Authority when preparing and submitting Traffic Management Plans. Any obstruction to the natural flow of traffic will be kept at a minimum to reduce the impact on the community.

Q 9. Will we lose any car parking bays?

Synergy have worked in consultation with the LGA on the best location for the charging stations, consideration was given to minimise disruption of busy car parks where possible. Existing car bays will be replaced with specific EV Charging bays, the extent of this differs from location to location. For specifics on your car park, please reach out to your LGA.

Q 10. Will any trees be removed as part of the construction?

Synergy will work with each LGA and Western Power to protect the environment where EV chargers are being installed. No trees will be removed unnecessarily as part of construction.

Q 11. Will the construction phase require disconnection of electricity to local homes or businesses?

Disruption to electricity supply will be minimised wherever possible. Synergy and Western Power will work with Local Government Authorities and the community to inform of any scheduled power outages, and this will be communicated according to Western Power's existing protocols.

Product/Charger Specific

Q 12. How much will it cost to charge a car?

For Synergy chargers, the price for the DC fast chargers will be \$0.60p/Kwh and for the AC slow charger it will be \$0.35p/Kwh. Please note that this is only for chargers within the Southwest Interconnected System (SWIS). Horizon Power are still currently working through their pricing structure for the chargers in the North West Interconnected System (NWIS).

Q 13. How long will it take to charge a car?

Typically, a 34kWh charge will provide a range of ~200km, allowing drivers to easily reach the next charging station.

A DC fast charger will add hundreds of km of range per hour while an AC charger will add approximately 50km of range per hour.

The table below provides indicative charge timings. Various factors contribute to charging times including current state of charge, whether another vehicle is charging at the same time and the specifications of the vehicle. Where there are vehicles queuing to charge, Synergy encourages customers to only charge sufficiently to reach the next destination.

Chargers	Charge Time (34kWh/200km)
AC – 3Kw	~14 hours
AC – 7kW	~4 hours
AC – 22kW	~3 hours
DC – 50kW	41 minutes
DC – 75kW	27 minutes
DC – 150kW	14 minutes