

Active Device Management for EVSE

Purpose

Requirements for the connection of loads such as dedicated electric vehicle chargers which are referred to as Electric Vehicle Supply Equipment (EVSE) can be found in the Queensland Electricity Connection Manual (QECM)¹. The QECM states (clause 5.8) that, where a customer's electrical installation is 100 A per phase or less, and a load, such as dedicated electric vehicle charger (referred to as Electric Vehicle Supply Equipment EVSE), is installed at a premise that is either:

- greater than 20 A single phase; or
- 40 A three-phase

that load must be under Active Device Management.

The term "Active Device Management" refers to the ability for the local Distribution Network Service Provider (DNSP): Ergon Energy Network or Energex to control the operation of electrical equipment. This will occur through various mechanisms and on a temporary basis, in order to manage demand on the electricity network for the benefit of all customers.

To ensure customers comply with QECM requirement and have the ability to:

- utilise their on-site solar generation to offset their home charging; and/or
- access time of use charging under a primary tariff (refer to customer's electricity retailer tariff options).

Customers can opt for dynamic management of their EVSE, by connecting the EVSE to our utility server for dynamic connections (usually involving the installation of an approved 'gateway device').

Registering for Active Device Management via dynamic

Customers can connect their EVSE for active dynamic management by confirming with their EVSE supplier / electrical contractor that their device is able to be managed directly or via a compliant gateway device (refer to links below for the listing of approved gateway devices) and able to be connected to our utility server. Once this is confirmed, registration of the device is undertaken by providing the following details via the online form* (address below):

- National Metering Identifier (NMI)
- Premise address
- Customer name
- Customer email
- Customer Phone
- Installer name
- Installer email
- Installer phone
- SEP2 Client Device
- Long Form Device Identifier (if applicable)
- If a site has an existing dynamic connection for embedded generation system (such as rooftop solar).

*This form is for EVSE dynamic only – for embedded generation system dynamic connections, refer to links in *Further Information* below.

¹ Queensland Electricity Connection Manual Service and Installation Rules Version 4 Effective date 21/02/2024 available at www.energex.com.au/contractors/electrical-contractors/queensland-electricity-connection-manual-qecm or www.ergon.com.au/network/contractors/electrical-contractors/queensland-electricity-connection-manual-qecm

Once this registration information is received, the site will be registered in our utility server (generally within 7 business days). Once registered, the EVSE will be able to receive Dynamic Operating Envelopes (as upper and lower charging limits) according to demand on the local network.

A premise that has an existing dynamic connection agreement for an embedded generation system can request dynamic management of their EVSE. As only a single set of import and export limits can be sent to a premise, in this situation a customised dynamic management solution will be developed to manage the operation of the EVSE and embedded generation system.

Application of limits on dynamically connected EVSE

For dynamically controlled EVSE loads, dynamic and fixed import limits apply. Dynamic import limits work by us providing a signal to the device on the state of the network. If there is significant demand from all customers on that part of the electricity network, the signal sent to the EVSE may result in temporarily varying the capacity at which the EVSE can operate. Peak demand times on the network are typically in the evening, particularly in the warmer months.

If the connection to our utility server is lost, your EVSE will default to the fixed limit applicable to your site (typically 1.5kW) until the connection is restored. A forecast schedule is also published to allow for short communication outages (up to 24h), although support for this may vary by dynamic technology solution used. Customers should consult with their installer if there is an extended period of fixed limits being applied due to connection being lost. In emergency conditions, we reserve the right to remove all supply to the EVSE.

Customers will be responsible for installing any relevant timers or control equipment if they wish to ensure that the appliance does not operate during any retail electricity tariff peak charging periods.

Metering and tariff

Any applicable customer can access this EVSE solution under a primary tariff, regardless of metering type or tariff at the premise.

Technical Wiring requirements

- The premise must be already wired in accordance with the QECM requirements.
- The EVSE must be hard-wired only.

Costs

Any costs associated with preparing the customer's premise for the installation, or later removal, of the gateway device or any other alteration required are the responsibility of the customer.

Further information

Further information on Dynamic Connections, or to register an EVSE for dynamic management via our utility server visit www.ergon.com.au/evse or www.energex.com.au/evse

Manufacturers interested in gaining certification for their equipment (inverters, gateway devices) are requested to review the [Smart Energy Profile \(SEP2\) Client Handbook](#) available on our website www.ergon.com.au/dynamic-connections or www.energex.com.au/dynamic-connections

Installers or gateway device manufacturers can contact Dynamic.Connections@energyq.com.au for further assistance with registering their device or trouble shooting after registration.

An alternative approach for Active Device Management via dynamic is available through the connection to a secondary load control tariff or installation of a network device in eligible locations – see visit www.ergon.com.au/evse or www.energex.com.au/evse

