

Dynamic Connections Factsheet



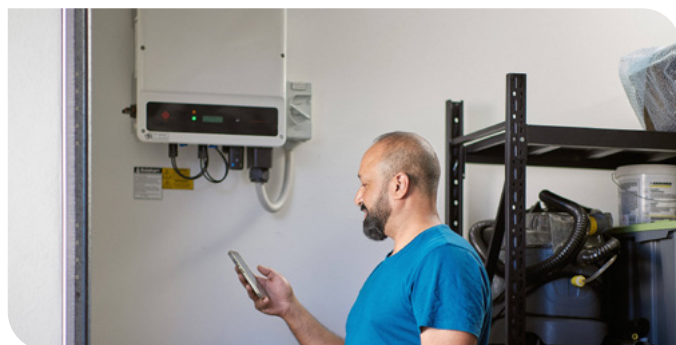
Part of Energy Queensland

Queensland has one of the highest rates of solar photovoltaic (PV) system installations in the world. This trend looks set to continue as people embrace renewable energy alternatives for their homes and businesses.

We want to support everyone who wants to install solar PV on our network. To achieve this, we need smarter interaction between solar PV systems and our electricity network.

Dynamic connections

To support more solar on our network we are offering dynamic connections. With a dynamic connection, signals are sent from our network to your solar PV system. Signals are sent in 5-minute intervals, using Wi-Fi or a hard-wired internet connection and are referred to as Dynamic Operating Envelopes (DOE). The signals will tell your solar PV system how much exported generation our network can accept at that point in time. Having a dynamic connection usually allows fixed export restrictions to be removed, so your solar PV system can export more.



How it works



Monitor

We monitor the capacity of your local electricity network



Calculate

We calculate how much of your excess energy can be exported to the grid



Signal

Your inverter receives a signal via a WiFi communication link with our network



Maximise export

The signal allows your system to maximise the export of your excess energy, based on available network capacity.



Benefits

Before we had dynamic connections, when your installer submitted an application to connect your solar PV and/or battery system to our network, we would assess the local network and determine if you could connect a solar PV system and how much solar you could export. In some cases, where the local network already had large amounts of rooftop solar installed, to ensure a safe and secure network, solar exports were reduced to zero and you were unable to export.

Now we can offer you a dynamic connection which has the following main advantages:

- 1. You can export more.** Most customers can export up to 10kW per phase (compared to a maximum of 5kW per phase on the basic non-dynamic connection). Most customers will experience minimal or no restrictions on exports, most of the time
- 2. Minimum export limit.** Even when there is a need to reduce solar export, customers are still allowed to export 1.5 kW, unless there is a significant emergency event requiring all solar PV generation to stop
- 3. You can install a larger system.** You can install a larger combined solar PV and battery system with up to 10kVA solar PV inverter and 10kVA battery inverter capacity, on single-phase, meaning you won't have to upgrade to a three-phase power connection (required under the basic non-dynamic connection), saving thousands of dollars.

Installation

Getting your solar PV system installed on our network via a dynamic connection is simple:

- Your installer submits your connection application to us, on your behalf
- Your installer can nominate a dynamic connection via our online Portal and accept the dynamic connection offer on your behalf
- Once your system has been installed, your installer will receive notification via email for registration.

Your installer will advise on any upfront or on-going costs for your installation. In most cases, the cost of choosing a dynamic connection will be offset by additional solar exports (check with your electricity retailer regarding their feed-in tariff rates).

Solar soaking

For most customers, even with increased export capacity, the best way to maximise the value of your solar PV system is to use as much of the electricity generated within your home or business as you can. This is called solar soaking. For more information on solar soaking and to download our fact sheet go to energex.com.au/solarsoak or ergon.com.au/solarsoak.

For more information
about dynamic connections visit

ergon.com.au/dynamic-connections | energex.com.au/dynamic-connections



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