

Emergency Solar Management Installer Checklist

The requirements of each remote management solution (API cloud solution and metering solution) are outlined below.

Please note:

The metering solution should only be selected where the API cloud solution is not suitable or available.

It is the solar installer's responsibility to discuss the requirements of each solution with the customer and advise on the most suitable option.

The remote management solution must be nominated when submitting the Distributed Energy Buyback Scheme (DEBS) application to Synergy. It cannot be changed later in the process. If the remote management solution changes, a new application will be required. **Therefore, the most appropriate solution, given customer preferences and site conditions, must be determined before a DEBS application is made.**

To determine the most suitable solution, please ask the following questions:

Is the inverter compatible with the API cloud solution?

The brand and model of inverter will determine if it can be connected via the API cloud solution. To check if an inverter is compatible, you can refer to the [Supported Devices List](#). If it is not compatible, the only available solution will be the metering solution.

Will the household have a consistent internet service?

The API cloud solution requires a consistent internet service. Please note and discuss with the customer the following:

It is the customer's responsibility to maintain a consistent internet service. Note that if the customer's internet connection changes, for example they update their Wi-Fi password, the inverter may need to be reconnected to the internet.

It is the solar installer's responsibility to advise the customer that this solution requires the inverter to be connected to their internet connection to meet the requirements for emergency solar management.

The inverter must be commissioned on to the inverter manufacturer's portal. Instructions on how to do this are generally available via the website of the inverter OEM (Original Equipment Manufacturer).



**Download
the Supported
Devices List**



If the API cloud solution requirements cannot be met, the metering solution will need to be considered, please keep in mind the following:

Wiring and components will need to be provided in addition to installation requirements for the solar system.

These detailed requirements are set out in the [Western Power Basic Embedded Generator \(EG\) Connection Technical Requirements](#), with installation arrangements for various meter control method scenarios outlined in the Western Power Distribution Customer Connection Requirements.

It is recommended that a site inspection is performed by qualified and licensed electricians. This is to understand any additional costs to implement the metering solution to facilitate remote management.

Electrical installation work is required to be carried out by qualified and licensed electricians. Any electrical work required to implement the metering solution must be undertaken by a qualified and licensed person.

What is the connection type?

If it is a three-phase connection, the metering solution will generally require additional relay to disconnect the solar system.

Is there space on the switchboard; can the switchboard be modified?

The main switch will need to be replaced with a main switch circuit breaker that has an additional pole for isolating the supply from the auxiliary terminal to the meter.

There are instances where the metering solution will not be feasible or will require significant additional work to be undertaken by a qualified and licensed electrician:

Older style switchboards.

Older style switchboards present installation issues for standard solar system installation as they require additional space to fit new wiring and components. Quite often this will require the switchboard to be upgraded.

Apartment blocks and unit developments. The switchboards in apartment and unit blocks may present implementation issues including if additional space is required to fit new wiring and components in a switchboard shared with other consumers. A new switchboard may be required to replace the existing switchboard and that may affect other site consumers at the same location.

Remote switchboards.

A remote switchboard is where there is a solar system connected to a sub-board away from the main switchboard housing the meter.

Remote switchboards can usually be found on rural properties, strata developments, long metro driveways or metro residential areas where a meter box is found on the boundary fence.

To implement the metering solution where there is a remote switchboard, an additional cable for the auxiliary function control will need to be wired to the sub-board to be able to remotely manage the inverter. In some situations it could result in a significant additional cost in respect of the solar installation.

Detailed requirements for the metering solution are set out in the [Western Power Basic Embedded Generator \(EG\) Connection Technical Requirements](#), with installation arrangements for various scenarios outlined in the Western Power [Distribution Customer Connection Requirements](#).



If neither remote management solution is suitable

Export limiting will be an option available for residential customers who cannot meet the API cloud solution or metering solution requirements but still wish to install a rooftop solar system. Please note that residential customers who choose this option **will not be eligible for DEBS** and will not be affected by an emergency solar management event. The export limit will initially be 1.5kW as per [Western Power Basic Embedded Generator \(EG\) Connection Technical Requirements](#).