

GSES Solar (PV) Inspection Service Scope

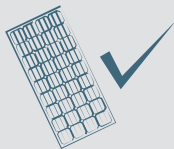
BASE

Authorized inspector on site to determine whether the system has been installed according to the **current Australian Standards**, relevant industry guidelines and network regulations

- Compliance with CEC guidelines
- Compliance with Australian Standards
- Roof inspection including a visual inspection of roof attachments, opening and inspecting all isolator enclosures and combiner boxes, inspecting wiring fixings, connection and protection
- Roof cavity inspection and all solar wiring between the array and inverter confirming correct conduit installation
- Inverter inspection by opening and inspecting all isolator enclosures and combiner boxes and inspecting wiring fixings, connections and protection
- Confirm modules are on the CEC approved list
- Confirm inverters are on the CEC approved list
- Check for cabling PV1-F (or similar) certification
- Check for connector EN50521 compliance
- Switchboard inspection
- Signage inspection
- Water ingress inspection
- Provide as part of the report recommended methods for corrective action if any



2



Determine whether the installed system meets the **prescribed outcomes** as per the quote (contract) provided

3



Review of design documentation

- Review **design calculations**
- Review as-built design matches final installation

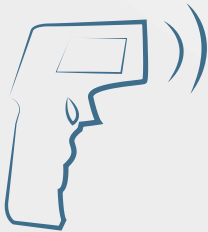
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Provide an assessment of the system efficiency and performance

- Provide a **power production estimate** based on shading/tilt/orientation and weather data.
- Review data recorded by **system monitoring** against weather data



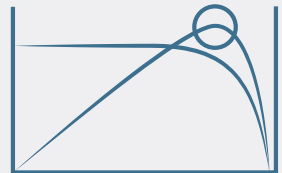
5



Infrared imaging of a statistically significant sample set of modules and module connectors and of all isolation points

6

I-V curve tracing for **all strings** in the system



7



Instantaneous Performance Ratio (PR) using **inverter output data and handheld pyranometer**

8

120 hour Energy Performance Ratio (PR) test using an array fixed data logging pyranometer and data logging power analyser.

