# Tender 1790417-

# Supply of Photovoltaic Modules for Eugowra Solar Farm

# Technical Brief

**1.0 Background.**

Cabonne Shire Council (CSC) have commenced the journey of ‘Electrifying Cabonne’, making smarter use of existing electrical connections and replacing fossil fuelled plant and machinery with their modern, electric alternatives.

Central to this strategy is investment in solar powerplant in the order of 2.2 MWp with a DC coupled BESS at the Eugowra Sewerage Treatment Plant. The powerplant will generate electricity from a ~2ha solar field made up of fixed-mount photovoltaic modules.

The project has development approval to use the Jurchen Technologies to Peg™ E\W ground mounting system for solar PV modules. The respondents must put forward solar modules that have been approved to be used with this substructure.

This purpose of this RFT is to select a reputable Tier 1 supplier for the solar Photovoltaic (PV) modules.

Council wishes to procure the modules for the project in quarter one of calendar year 2025 for delivery in quarter two of 2025.

**2.0 Tender Requirements**

Cabonne Council seeks the supply of photovoltaic modules for the Eugowra Solar farm. The solar farm design and development has been on the assumption that solar modules are sized between 450W-630W.

Suppliers are requested to provide proposals for photovoltaic modules that meet the following:

Technical requirements:

* N-type monocrystalline silicon
* Weight <30kg
* Minimum 15-year product workmanship warranty
* Minimum 25-year power warranty
* Module efficiency > 22.5%
* Suitable cable lengths for “portrait E/W” orientation of the solar modules.
* Maximum system voltage 1500V
* Operating temperatures between -40°C and 70°C
* 2mm strengthened glass.
* Structurally sound robust frames (anodised aluminium alloy).
* Multiple mounting and draining holes.
* Junction box IP68 rating.

Preferable module dimensions between

* 2000mm-2400mm long
* 1130mm-1140mm wide
* 30mm-33mm thick

Providers must demonstrate the following certifications as a minimum: -

* Clean Energy Council approved modules list.
* IEC61215\IEC61730: Ensuring the Reliability of Photovoltaic Modules
* IEC 62941: Quality system for PV module manufacturing
* ISO 9001: Quality Management System
* ISO 14001: Environmental Management System

The supplier will be responsible for Cost, Insurance and Freight (CIF), Sydney Australia.

Councils preference is the photovoltaic modules are stored and ultimately delivered domestically at time of installation. Delivery of the modules will be made to 255 Casuarina Drive, Eugowra NSW 2866, Australia. (-33.449132, 148.362712).

**3.0 To be provided by the project principal:**

* Preliminary site layout

**4.0 Quote submission format:**

Please submit a concise proposal outlining the following:

* Detailed product description including warranties
* Price (should be provided CIF Sydney in AUD$ or USD$)
* Timeframe
* Any exclusions
* Recommended additional supply or services

**5.0 Guide to assessment.**

The following factors will be considered in selecting a preferred provider.

* Ability to meet project requirements
* Cost / value for money
* Warranty and support
* Compliance with relevant International and Australian Standard
* Supplier storage and domestic freight to align with construction