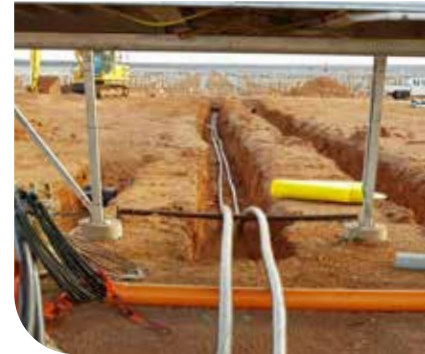


PROJECT  
**BUNGALA SOLAR FARM**



***Taking Power Beyond the Horizon***

# BUNGALA SOLAR FARM



**Location:** Port Augusta, SA

**Project Value:**

**Project Completion:**

**Client Name:** Catcon

**Industry:** Renewable Energy

Set to become Australia's largest solar farm, the Bungala Solar Project is currently under construction East of Port Augusta, South Australia, and will contribute to the transformation of the former coal city into a major renewable energy hub.

Upon completion, the 220MW solar facility will effectively avoid the emission of over 520,000 tonnes of CO<sub>2</sub> into the atmosphere per year, whilst generating the equivalent energy consumption needs of up to 82,000 households.

Cowell Electric have been engaged by primary Catcon to assist in the installation all HV cable, earth conductors and fibre optic for the second stage of this facility.

On completion, this will link all of the AC/DC powerstations which

are located throughout the field, to the main switchroom, which is located in the newly constructed 275kV Bungala Substation connecting the solar farm to the Electranet network.

The scope of works includes the installation of approximately 4.3km of 185mm<sup>2</sup> 33kV cable, which is used to link 12 banks of 3 AC/DC power stations in a daisy chain method, and approximately 12.1km of 300mm<sup>2</sup> 33kV cable which links each of these 12 banks back to the main 33kV switchroom.

Following the same daisy chain installation method, an 8 core fibre optic cable & 70mm<sup>2</sup> earth wire is installed in the same 33kV cable trench. A final 8 core fibre optic cable runs from the main 33kV switchroom to each of the furthest power stations on each feeder, creating a ring fed fibre network onsite.

Further to the cabling works, Cowell Electric completed all HV cable terminations in each of the power station switchboards, including inline joints required in the cable runs.

Installation method for the cable hauling was via capstan & tension winches for the larger cables.

This project sees Cowell Electric build on their capabilities into the Solar Energy Sector.



78 Schumann Road, Cowell SA 5602  
T 1800 805 020 F 08 8629 2115  
E [cowellelectric@cowellelectric.com.au](mailto:cowellelectric@cowellelectric.com.au)  
W [cowellelectric.com.au](http://cowellelectric.com.au)