



BUNGAMA SOLAR

PROJECT INFORMATION

Bungama Solar is proposed to be an integrated but separately operated Photovoltaic Energy Generation System (PVS) of approximately 280MW (AC) generation capacity and a 140MW/ 560MWh Battery Energy Storage System (BESS) that will feed into the National Electricity Market (NEM) via ElectraNet's Bungama Substation.

LOCATION

Bungama Solar is to be developed on approximately 530 hectares of agricultural land in the suburbs of Bungama, Napperby and Warnertown, South Australia. The site is situated approximately 6 kilometres east of Port Pirie and 220 kilometres north of Adelaide. The Project is within the Local Government Area of Port Pirie Regional Council.

PROJECT

HOW BUNGAMA SOLAR WORKS

Bungama Solar is a large-scale utility power plant that creates energy from the sunlight via photovoltaic (PV) cells most likely to be mounted on sun tracking systems.

Tracking solar panel systems follow the sun's movement throughout the day for maximum collection. At the end of the day the panels track back to the east ready for the next operation.

The DC electricity that is created by sun through the cells is fed through cables to a series of invertors where the electricity is converted to AC and increased in voltage. The invertors are connected through underground cables to a switching yard and by overhead transmission lines to the Bungama Substation for connection to the South Australian electrical grid.

Battery storage is proposed as part of Bungama Solar and will provide additional power system security for South Australia's grid.

During the operational phase, regular inspections, panel cleaning, componentry servicing and site maintenance are required. Additional infrastructure includes internal access tracks, offices, workshop sheds, fence lines and drainage.

Solar farms typically have a minor physical disturbance footprint. As such, investigations into co-agriculture opportunities are underway to ascertain opportunities within Bungama Solar for other forms of traditional agriculture such as sheep grazing and apiculture to co-exist with the solar operations.

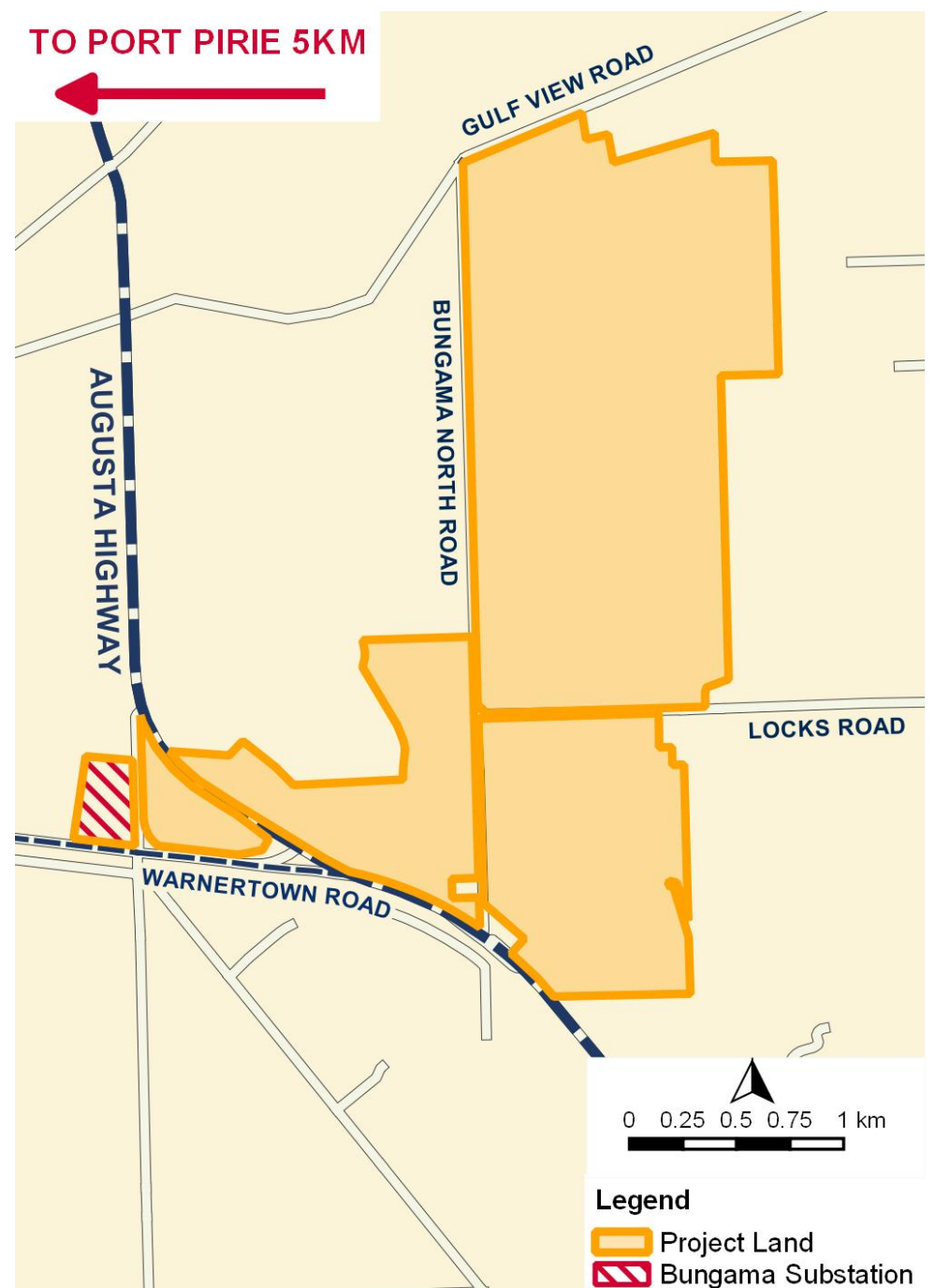
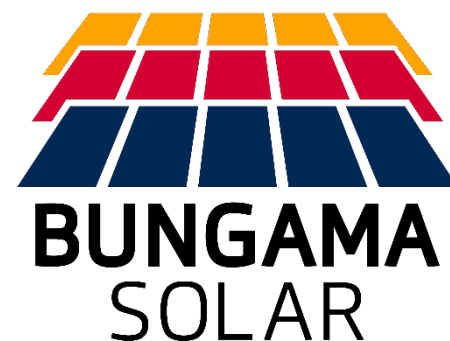


Figure 1 – Bungama Solar Project Area (Source: Google Earth Pro, 2018).

KEY PROJECT STATISTICS

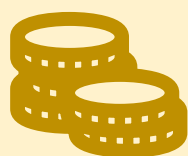


PROJECT STATUS



SOCIAL AND ENVIRONMENTAL BENEFITS

Bungama Solar's local community social contribution includes:



Local Community Fund



~275 equivalent full-time construction jobs including a component from the regional workforce

Bungama Solar 280 MW generating capacity is equivalent to:



Powering 86,000 homes each year for 30 years



195,000 cars off the road



Reducing 497,000 tonnes of GHG emissions each year for 30 years



Planting 70,000 trees

CONTACT INFORMATION

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