



# 5 Mile Community SPS

Remote Off-Grid; Solar, Storage (Upgrade)

Roebourne is the oldest settlement between Geraldton and Darwin. An isolated community along the vast and lonely coastline which is now the Kimberley and Pilbara. It was once the administrative centre of the North-West and, as such, has a fascinating Heritage Walk around town which focuses on the large number of buildings which were constructed between 1870-1900

## THE GOALS

Balance has been contracted to do an upgrade of the existing off-grid solar and storage system at Mingullatharndo Community, Roebourne WA for 5 Mile Community.

Additional works included the add on of new PV modules, battery inverters, batteries, a multi-cluster box, DC combiner boxes for battery banks and new mounting system for the PV modules

The Renewable Energy System will support 5 Mile Community to reduce their need to burn diesel for electricity by offsetting it with solar energy during daylight hours. The energy storage will be used for peak shaving, discharging when solar is insufficient and will allow for transition to the diesel generator at a low State of Charge (SoC).



Location: Roebourne WA

Project: 5 Mile Community Off-grid Upgrade

Solution: 47.5 kw Solar, 55kWh storage and 80 KVA backup Genset

Constructed: June 2021

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