OVERVIEW

CPS National was contracted to engineer, procure and construct a stand alone power system for utility provider Horizon Power in Exmouth, Western Australia.

With only one customer per 58km², Horizon Power serves the world’s largest and most sparsely populated utility service territory. Historically, the only feasible way to electrify at scale such large regional areas involved a traditional ‘poles and wires’ network.

CPS National designed the complete system including procurement and commissioning of:

- Jinko JKM290M-60 (x68) 290W module
- SMA SI 8.0H (3P) (x3) and SMA STP5000TL-20 inverters
- Murata 1.2kWh Lithium Ion Battery Modules (76.8kWh) (x64)
- 45KVA / 36.3kW 3P Prime Diesel Genset (Perkins Engine / Mecc Alte Alternator)

The safe and cost effective off grid solution provides utilities with a new asset class which can be effectively deployed in regional and remote areas.

PROJECT OVERVIEW

Client: Horizon Power
Location: Exmouth, Western Australia

PROJECT SCOPE
Design and construction of the Horizon Power stand alone power system for the Exmouth Golf Club

UNIQUE FEATURES
The design of this off grid system incorporates battery and solar photovoltaic technology, which supports regional electricity customer demands

OUTCOME
• Fully integrated, ‘end-to-end’, across all utility back-office systems
• Design for multi-decade life cycle efficiencies
• Fully scalable for fleet management

To meet the changing energy landscape, this solution supports the transition of customers from a traditional grid connection to a more cost-effective new energy alternative.

Stand Alone Power System at Exmouth Gold Club, Western Australia.