## **SUCCESS** STORIES



ELECTRICAL ENGINEERING
SPECIALISTS



## **ODG Haden - Curtis Island Substation Control**

## **Background**

To cater for the expanding LNG developments, The Gladstone Regional Council (GRC) installed an 11 kV Power Supply System for the Curtis Island Water and Sewerage Infrastructure Project. The system is semi-automated, consisting of two prime rated diesel engine based generators that provides power to an 11 kV distribution network, with underground 11kV cables and distribution substations to provide power to the sewage pump stations and water reservoir.

The GRC have three main sewage pump stations, and a communications facility at the portable water reservoir located on the island, powered by this 11kV Power Supply System, with substations located at each sewage pump station and adjacent to the potable water reservoir site.

The11kV Power Supply System is maintained and monitored by the GRC. Programming of the main PLC and HMI, as well as the substation RTUs and HMIs, was undertaken to provide remote access for the GRC SCADA system, to monitor and control all these substations and the diesel generators via a radio link.

Project Specifics	
Client	ODG Haden
Location	Curtis Island QLD
Year Completed	2014
Size / Quantities	2 x 800kVA Diesel Generators 1 x 800kVA Substation 3 x 250kVA Substations PLC/RTU Control and Radio Com- munication System
Services Provided	<ul> <li>Preparation of Control Functional Specification</li> <li>Programming of main system PLC &amp; HMI</li> <li>Programming of substation RTUs &amp; HMIs</li> <li>FAT of PLCs, RTUs &amp; HMIs</li> <li>Site commissioning of PLCs, RTUs &amp; HMIs</li> </ul>
Delivery Method	Electrical Engineering Consultant