



MAGELLAN POWER

Dampier to Bunbury

The Dampier to Bunbury Gas Pipeline is Western Australia's most important piece of energy infrastructure, transporting gas from the Pilbara Coast to the South West of the state. Magellan Power has been supplying back-up power systems for the pipeline compressor stations for over 20 years, and most recently has been upgrading the pipeline's regional compressor stations with Australian designed and manufactured AC and DC systems.

Spanning from Dampier to Bunbury the 10 compressor stations are backed up by Magellan DC Systems in case of power outage. Below are some examples of the work Magellan Power has most recently completed for the station in the past 2 years.



Client

Australian Gas Infrastructure Group (Formerly DBP).

Date

2016 - 2018.

Location

Western Australia

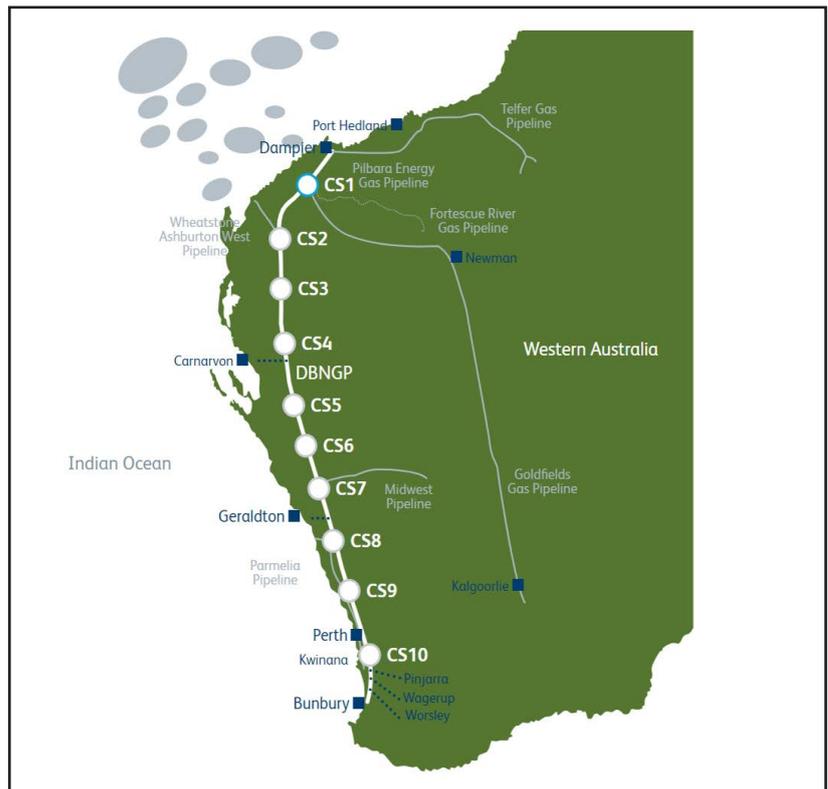
Scope of Project

MCR II DC Systems, VRLA Batteries, Battery Monitoring System, Equipment Service, Commissioning & Replacement.



Client Requirement

The customer needed uniformity of product to ensure easier service and maintenance, plus an Australian based manufacturer for providing quick access to spares and maintenance. Also required was a product which could withstand many years of use, and was able to be designed and manufactured exactly to the AGIG specification.



Magellan Solution

The scope of work completed by Magellan Power for this project was extensive, and covered a larger number of stations and products than shown in this particular case study. The samples chosen for the case study are indicative of work which has been completed for this project, spanning from 2016 - 2018. For more detailed information on other compressor stations or equipment made for AGIG, please enquire at Magellan Power

Major Components

Compressor Station 1: CS1 is the station located closest to Dampier, in the north of the state. Magellan Power was engaged by AGIG to design and manufacture DC back up power systems, and replace existing NiCad batteries and battery management systems already installed in the station. Manufactured for CS1 was an industrial-grade Dual Redundant MCRII Series phase controlled battery charger, Input: 415V_{ac}, 50Hz, Three Phase Output: 110V_{dc}, 100A.

For Compressor Station 5, located near Carnarvon, Magellan manufactured a similar customised system: MCR-II series phase-controlled Battery Charger, Input: 415V_{AC}, 50Hz, Single Phase Output: 110V_{dc}, 100A.

For Compressor Station 8, located south of Geraldton, Magellan Power was contracted to service the existing Magellan DC Systems, plus replace battery monitoring system boards for new battery banks, and test and commission the system.

