



CHEVRON AUSTRALIA

TITLE: U-13057 – Power Generation Services (WA Oil, Barrow Island)

GENERAL SCOPE DESCRIPTION: Chevron Australia is seeking expressions of interest from service providers able to supply *all or part of* the Electric Utility Production, Operation, Maintenance, and Distribution required to support the existing Barrow Island Joint Venture oil extraction and processing facility.

Expression of interest is sought for the following scope:

- Operation, maintenance, parts procurement and remediation of a 7MW Central Power Station, which includes several generators, gas compressors, switchgear, and various distribution transformers.
- Operation, maintenance, parts procurement and remediation of 120km of overhead distribution power lines.
- Potential turnkey projects to remove old equipment and design, procure, install, and commission of new equipment, incl. generators, gas compressors, and control systems, etc.

CURRENT SYSTEM: WA Oil Central Power system and Power Distribution System currently produces up to 7MW of power and includes the following equipment:

- Two Kongsberg KG5 Dual Fuel Turbine Generators. (Circa 1983);
- Two Belliss & Morcom Reciprocating Compressors (Circa 1983, Rebuilds in 2009 & 2016) and associated gas conditioning equipment;
- One Solar T60 Gas Turbine Generator. (Circa 2006);
- One Alstom Australia Screw Type Gas Compressor (Circa 1998) and associated gas conditioning equipment;
- Five Caterpillar G3516 Gas Engine Generators. (Circa 1999);
- Various Diesel Generators – MTU Detroit Diesel, Cat D343, Cummins KTA38 (DE-6);
- 11kV, 22kV, and 3.3kV switchgears;
- Eight HV Transformers and two Earthing Transformers;
- Two air compressors;
- 70km of 3 phase 22kV overhead distribution lines and 50km of 12kV single wire earth return overhead distribution lines;
- Five recloser systems; and
- Various safety systems and accessories included in the above systems.

PROJECTS DESCRIPTION: Operation, maintenance, parts procurement and remediation of existing power production equipment at the existing 7MW Central Power Station. Potential removal and replacement of equipment including the following (exact scope and schedule to be determined at a later stage):

- Replace 2 Kongsberg KG5 Gas Turbines with a Solar T60 dual fuel (Diesel or gas) turbine generator and update control system;
- Replace 2 Belliss & Morcom compressors with one gas compressor capable of supplying Solar T60;

Replace five CAT G3516 with five 1.5MW units.

CONTACT: Industry Capability Network of Western Australia – www.icnwa.org.au/ContactUs.asp

Please Note: This is a request for specific expressions of interest. Vendors and contractors will be considered for prequalification and / or tender if suitably qualified against this package.

PROJECT URL: <http://www.chevronaustralia.com>

ATTACHMENT:

CLOSING DATE: 1 September 2017