

Woodside Project

For Project Information, please refer to the Project [ICN Gateway](#).

Reference Number	EE011
Package Title	Power Management System
Package Description	<p>Background: Woodside has a range of projects that may require power management systems</p> <p>General Scope of Works:</p> <ul style="list-style-type: none"> • Provide an energy management and control system with the following capabilities: <ul style="list-style-type: none"> ○ Operator interface displays of single line representation of the whole electrical network in real time; ○ Operator interface control to open/close individual electrical switches; ○ Maintain the safety and stability of the overall power network during normal operating modes and transient events (e.g. Fast Load Shedding, Motor Start Inhibit, Spinning reserve monitoring); ○ Operator interface to control generators via 3rd party generator control panel; ○ Integration of Battery Energy Storage control system (3rd Party). ○ Data acquisition, trending and reporting of alarms and status of the electrical network; ○ Protection relay configuration, parameter setting and resetting; ○ Protection event capture and fault recording for protection relays; ○ Sequence of Event recording; and ○ Training simulation environment • The system shall be compliant with IEC 61850 <i>Communication networks and systems for power utility automation</i>. GOOSE protocol shall be used for time critical communications. • The system shall interface with the Basic Process Control System, Generator Control Panels, Battery Storage Control System, Switchgear IEDs, transformers, variable speed drives, and UPS systems. • The system architecture shall be designed with redundancy such that a single point of component failure cannot cause loss of electrical control. • The system functionality shall be available to operators at the offshore location, and via a fibre link to an onshore control room. • Documentation • Test & Inspection • Engineering & Design • Spares and special tools • Field support capability (Offshore Australia) <p>Pre-Qualification Requirements:</p> <ul style="list-style-type: none"> • Must have minimum 5 years' experience in supply to the oil and gas industry. • Must have a list of past project experience and preferably in delivering to offshore Projects in Australian waters. • Must have an ISO quality system and OSHAS or similar certifications. • Must have storage capability for the manufactured products.

Standards	<p>Woodside Specifications</p> <p>Standards IEC, AS, AS/NZS and LR</p> <p>To be suitable for Western Australian construction.</p>
Delivery Place	Asia
Supplier EOI Instructions	<p>Supplier(s) are invited to express interest by registering on ICN Gateway where competency and previous positive experiences of similar systems can be demonstrated.</p> <p>When submitting Full scope interest registrants will be asked to complete an expression of interest document. The registrant's response will form their Expression of Interest (EOI).</p> <p>Suppliers will only be considered for Prequalification to tender if deemed suitably qualified based on criteria, including but not limited to, HSSE, Quality management, Financial standing, Onshore / Offshore and Workload availability.</p> <p>Please note this is an Expression of Interest (EOI) only, the content of this work is subject to change pending project demand and timelines.</p>
Contact	<p>All initial enquiries should be made through the Industry Capability Network Western Australia (ICNWA).</p> <p>Linus O'Brien Linus O'Brien@icnwa.org.au +61 (0)8 9365 7556</p>
URL	<p>For more information about Woodside Energy please refer to the Woodside Energy Ltd. website www.woodside.com.au</p>
Full Scope EOI Closing Date	16 April 2020