



Brownfield Expansion Project (BFX)

Olympic Dam Projects – Expression of Interest

Project Overview:	The proposed BFX Project is to deliver a brown field expansion of its underground and surface operations to deliver increased throughput of the existing plant and increasing overall copper production capacity.
Package Title:	BFX SPS 100 – Power Combined Engineering Services for: (1) ETAP Power System Model Development and Analysis. (2) Power Demand Profile and AMD Steps Determination. (3) Trade-off Study: OD West Fourth 275/132kV Transformer. (4) Trade-off Study: OD West 132kV Gas Insulated Switchgear.
Package Description:	BHP is seeking expressions of interest (EOI) from Engineering Contractors capable of completing detailed engineering study works for the following scopes, on an individual or combined basis: (1) ETAP Power System Model Development and Analysis Create a consolidated and comprehensive power system model of the Olympic Dam high-voltage power network, using Operation Technology Inc's electrical power system analysis software, ETAP. (2) Power Demand Profile and AMD Steps Determination Calculate the Olympic Dam load profile and expected growth based on empirical electricity use data and estimated BFX and SMA Project loads. This load profile will then be used by BHP for power network planning, reactive support requirements and to determine the Agreed Maximum Demand (AMD) steps and dates. (3) Trade-off Study: OD West Fourth 275/132kV Transformer Complete a Trade-off Study to identify the merits of installing a fourth 275/132kV Transformer at Olympic Dam West (ODW) as the Olympic Dam load increases, compared with installing additional 132kV Capacitor Banks, for reactive power support. (4) Trade-off Study: OD West 132kV Gas Insulated Switchgear Complete a Trade-off Study to identify the merits of installing traditional outdoor 132kV Air Insulated Switchgear (AIS) compared with indoor or outdoor 132kV Gas Insulated Switchgear (GIS) at Olympic Dam West (ODW) 132kV Switchyard. Details on your organisational capacity, capability, and experience in delivering one or more such professional engineering services promptly and safely will be used to form a shortlist for tender(s).
Scope Overview:	The successful Engineering Contractor, selected at the conclusion of this EOI and subsequent tender(s), shall be capable of: Allocation of appropriately skilled and qualified personnel, including but not limited to the following capabilities : <ul style="list-style-type: none">- Execution of the study scopes within the approved budget and delivery schedule.- Management of the Contractor team including subcontractors and sub-consultancies

	<ul style="list-style-type: none"> - Delivery of study deliverables, including detailed technical study reports, trade-off studies and fully documented spreadsheets and software models as required. - Technical writing of reports and other documents as required. - Project Controls (cost, estimating, scheduling) - Maintaining client confidentiality and information security. <p>The contractor will be required to deliver the following:</p> <ul style="list-style-type: none"> - Development of detailed engineering study reports, recommendations, engineering calculations, engineering drawings, cost estimate updates and schedule updates. - Fully documented software models as required - Facilitation of risk reviews, design reviews, cost and schedule reviews as required. - Routine reports on progress, cost and schedule. - Final updated study reports. <p>At all times during the delivery of the services the Engineering Contractor will be expected to adhere to BHP safety policies and standards including participation in BHPs field leadership program, if applicable.</p>
<p>Target Award Date:</p> <p>Expression of Interest (EOI):</p> <p>Contact:</p> <p>Project URL's:</p> <p>Disclaimer:</p>	<p>Q1 FY 2018/19</p> <p>Suppliers are invited to express an interest in one or more of these scopes of work by registering on the ICN Gateway online platform. Please ensure that your ICN Gateway company profile is up to date before registering your EOI.</p> <p>Industry Capability Network of South Australia. (+618) 8429 3376</p> <p>For more information about BHP please refer to the company website www.bhp.com</p> <p>For information on specific project opportunities please visit the ICN Gateway online platform at www.gateway.icn.org.au.</p> <p>These work package descriptions and the target award date is indicative only and subject to change. It is intended to provide only a brief outline of certain works that may be required for the proposed BFX Project and should be read in conjunction with the BFX project description on ICN Gateway.</p>