Package Number	SE-CCPGP-03
Package Name	OTSG/WHRU Inlet & Exhaust Ducting
Scope of Work (* To be confirmed)	Note: Siemens Energy is issuing and managing this Package Summary on behalf of Innovative Steam Technologies Inc. (IST), our sub-contractor for OTSG package. - Scope shall include fabrication level drawings/detailing, materials, fabrication, inspection, testing, preparation for shipment, and supply of five (5) OTSG/WHRU Inlet & Exhaust Ducting packages. - The following dimensions and weights are provided as an estimate for consideration during the Supplier's assessment of their capabilities to bid/execute the scope listed herein: o Expected total number of ducting sections: 46 o Expected dimensions of the largest duct section: 12.6 x 3.3 x 3.6 m o Expected weight of the largest duct section: 22,000 kg o Expected total tonnage: 1,000,000 kg - The method of construction for the OTSG/WHRU Inlet & Exhaust Ducting packages shall generally be as follows: The casing is fabricated from ¼" (6.0 mm) thick carbon steel. All casing will be suitably stiffened with structural members. The attachment of the structural members to the casing plate will be by continuous welding to provide a gas and watertight enclosure, thus preventing any rust-bleed. The insulation and liner system has been designed to withstand the effects of gas turbine exhaust turbulence. The casing is internally insulated and lined to provide a cold, gas-tight enclosure. Stainless steel liner plates are installed over layers of soluble fibre insulation. The liner plates are held in position by stainless steel pins and washers welded to scallop plates which in turn are welded to the external casing. The scallop plate design provides additional strength and prevents insulation from sagging, resulting in local hot spots. For additional stiffening, formed stainless steel channels are installed over the liner. The exhaust ductwork will be complete with mounting brackets and sliding plates for connection to a support structure (provided by others). - The OTSG/WHRU Inlet & Exhaust Ducting packages shall be coated in accordance with ISO 12944 CX coating system. - The Supplier shall demonstrate a sound understanding of the skills, resources, facilities and quality programs required to manufacture ducting packages of the type used for OTSG/WHRU applications. The supplier shall have experience supplying ducting packages that have been paired with an OTSG in a combined cycle application. The supplier shall provide project reference list to showcase their track records in this domain. - As the OTSGs/WHRUs for this project will be installed offshore, on an FPSO vessel, the supplier shall demonstrate a sound understanding of offshore/marine standards that typically apply to ducting packages (i.e. coating requirements etc.). - The OTSG/WHRU Inlet & Exhaust Ducting packages shall be of high quality in accordance with the project standards. This shall include the following:

	○ Material Test Certificates ○ Welder Performance Qualification Certificates ○ Non-Destructive Examination (NDE) Operator Qualification Certificates ○ Production Test Results ○ NDE Records ○ Heat Treatment Records ○ Material Traceability Records ○ Name Plate Photo ○ Pressure Test Certificate ○ Instrument Test/Calibration Certificates ○ Dimensional Reports ○ Painting/Insulation Report - The supplier shall work with DNV surveyors for review of fabrication quality procedures and certifications e.g. welding and NDE, and support their inspections during fabrication, as part of DNV certification requirement for the OTSG package. Fabrication work shall comply with the following DNV specifications, as a minimum • DNV-OS-E201: Oil and gas processing systems • DNV-OS-C401: Fabrication and testing of offshore structures Estimated contract award: February 2022 * Estimated delivery: December 2022 *

Project Registration

Santos is committed to ensuring Australian Industry the opportunity to participate in the Barossa Project. Expressions of Interest are invited from contractors and suppliers with the relevant capability and capacity to undertake the scope of work.

This is a request for specific expressions of interest. Contractors and suppliers will be considered for prequalification and tender if suitably qualified against this package.

Note that an important part of the project registration process is to register an Expression of Interest at the correct Scope level.

Scope level definition:

Full scope: Able to produce / supply all the package.
Partial scope: Able to produce / supply one or more of the sub-packages.

All registrations are to be completed via ICN Gateway *BarossaOffshore.icn.org.au*. Please contact the ICNNT if registration assistance is required. Contact details: (08) 8922 9422 or *resources@icnnt.org.au*.

Project Website: Santos Australia