

CALL FOR EXPRESSION OF INTEREST  
SPECIFICATION DEVELOPMENT FOR PROJECT NUJIO'QONIK IN STEPHENVILLE, NL

**World Energy GH2  
Project Nujio'qonik  
Green Hydrogen and Ammonia Plant**

**Development of Project Specifications to cover all disciplines  
and aspects of the Project.**

**CALL FOR EXPRESSION OF INTEREST**

World Energy GH2 (WEGH2) invites engineering companies, consultants, or other suitably qualified entities, to respond to this Expression of Interest (EOI) on a non-committal basis for the provision of the following services:

**Development of a complete set of specifications for this Project that will be utilized during Front-End Engineering Design (FEED) and through Engineering, Procurement, Construction and Commissioning (EPCC).**

The specifications that are to be developed will cover all aspects of the Project including detailed engineering, supply of material, equipment fabrication, all construction disciplines, pre-commissioning and commissioning.

The specifications that are to be developed may be based upon existing documentation or on new documents developed exclusively for the Project. The developer shall ensure that all finalized specifications do not breach copyright or intellectual property ownership of third parties.

The production of the specifications shall be phased in order to support the Project's schedule, which shall be discussed in detail with interested parties.

Attached hereto is a listing of the specifications currently envisioned by WEGH2. This list is for information only and may be expanded or reduced as agreed to be necessary.

The work scope shall include the production of documents for review, incorporation of review comments, issue for design/construction and revision of issued specifications as may be required.

Interested participants:

- (i) Should have the ability to certify the specifications as a Professional Engineer registered in Newfoundland and Labrador.
- (ii) Should have demonstrated/previous experience in successfully developing and delivering specifications for all aspects of a project of this size and complexity.
- (iii) Should be familiar with the local government guidelines related to design and construction in the province of Newfoundland & Labrador, Canadian design and building codes, and best practices.

The completed Expression of Interest Form (Attachment B), Business Profile and requested supporting documents should be sent **on or before Nov. 24, 2023, 5 p.m. NT**, to the email address below.

[suppliers@worldenergygh2.com](mailto:suppliers@worldenergygh2.com)

*Contractors must align with World Energy GH2's principles of ensuring local and First Nations communities receive full and fair opportunities and benefits from this project.*

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**Attachment A: Preliminary Listing of Required Specifications**

Discipline	Title of Specification
GENERAL	Engineering Document Numbering Procedure
GENERAL	General Requirements for Oxygen Service
GENERAL	Jobsite Storage & Protection of Equipment
GENERAL	Loss Prevention for Processing Facilities
GENERAL	Seller Drawing and Data Requirements
GENERAL	Shop Preparation of Equipment for Shipment & Storage
GENERAL	Supplier Quality Requirements
GENERAL	Tagging Standard
GENERAL	Painting and Protective Coatings
PROCESS	Pressure Relieving Systems
PROCESS	Process Design Criteria
CIVIL-STRUCT	Building Construction
CIVIL-STRUCT	Civil Design Criteria
CIVIL-STRUCT	Concrete Construction
CIVIL-STRUCT	Construction of Road and Paving
CIVIL-STRUCT	Piling
CIVIL-STRUCT	Grouting
CIVIL-STRUCT	Passive Fire Protection
CIVIL-STRUCT	Plant Survey and Control Systems
CIVIL-STRUCT	Site Preparation, Grading and Earthwork
CIVIL-STRUCT	Structural Design Criteria
CIVIL-STRUCT	Structural Steel Fabrication and Erection
CIVIL-STRUCT	Supply and Installation of Geomembrane
MECHANICAL	Active Fire Protection
MECHANICAL	Aerial Coolers
MECHANICAL	API Centrifugal Pumps
MECHANICAL	Building HVAC Systems and Equipment
MECHANICAL	Fiberglass and Non-Metallic Tanks
MECHANICAL	Field Erected Tanks
MECHANICAL	Instrument Air Package
MECHANICAL	Noise Design Criteria
MECHANICAL	Non-API Centrifugal pumps
MECHANICAL	Positive Material Identification
MECHANICAL	Pressure Testing
MECHANICAL	Requirements for Low Temperature Service
MECHANICAL	Shell and Tube Heat Exchangers
MECHANICAL	Shop Fabricated Steel Tanks
MECHANICAL	Unfired Pressure Vessels
PIPING	Equipment Spacing
PIPING	Flange Make Up Procedures
PIPING	Insulation and Winterization
PIPING	Manual Sampling System
PIPING	Modularization Design
PIPING	Nonmetallic and Internally Lined Piping

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PIPING	Piping Design Criteria
PIPING	Piping Loads for Nozzle Design
PIPING	Piping Material Specification and Line Classes
PIPING	Plant Piping Fabrication and Installation
PIPING	Requirements for Underground Piping
PIPING	Valve Specifications and Selection Criteria
ELECTRICAL	Bus Ducts and Cable Bus
ELECTRICAL	Distribution Power Transformers
ELECTRICAL	Electric Heat Tracing
ELECTRICAL	Electrical Engineering and Design Criteria
ELECTRICAL	Electrical Installation Requirements For Field Construction
ELECTRICAL	Electrical Work for Packaged Equipment
ELECTRICAL	Inspection and Testing Requirements For Electrical Installations
ELECTRICAL	Large Power Transformers
ELECTRICAL	Low Voltage Electric Motors
ELECTRICAL	Low Voltage Motor Control Centre
ELECTRICAL	Low Voltage Variable Frequency Drives
ELECTRICAL	Medium Voltage Electric Motors
ELECTRICAL	Medium Voltage Variable Frequency Drives
ELECTRICAL	Neutral Grounding and Power Resistors
ELECTRICAL	Standby Power Generating Set
ELECTRICAL	Uninterruptible Power Supplies
ELECTRICAL	Wire and Cable
I&C	Actuators for ON/OFF Valves and Electric Motor Operators
I&C	Alarm Management
I&C	Cabinet and Wiring Standard
I&C	Communication Systems
I&C	Computer System Security
I&C	Continuous Emission Monitoring System (CEMS)
I&C	Control Systems Testing
I&C	Control Valves
I&C	Fiber Optic Implementation Criteria
I&C	Fire And Gas Detection Systems
I&C	General Instrumentation Design Requirements
I&C	High Integrity Pressure Protection Systems (HIPPS)
I&C	Inspection and Testing of Instruments
I&C	Instrumentation For Packaged Equipment
I&C	Pressure Relief Devices
I&C	Process Control Systems
I&C	Process Stream Analyzers
I&C	Programmable Logic Controllers
I&C	Safety Shutdown Systems
I&C	Vibration Monitoring
I&C	Winterization Standard for Instrumentation
QA	Non-destructive examination and testing
QA	Welding

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**Attachment B: Expression of Interest (EOI) Form**

Please complete this Expression of Interest (EOI) Form and submit the completed form, including all required supporting documents as per the instructions on the Call for Expression of Interest.

No.	Confirmation Requirements	Comments / Answer (Please reference relevant supporting attachments)
1	Please confirm that your company is willing to participate in the anticipated Limited Request for Proposal Process.	
2	Please provide Company details (Name, Registered Address, Contact Details, Business Number) (For Joint Ventures, this should be the JV leader/managing partner)	
3	Please provide details of other JV Partners or Subcontractors (Name, Registered Address, Contact Details, Business Number)	
4	Please provide details of the scope of work for any JV partner or Subcontractor (i.e., division of responsibility).	
5	Please indicate that your Company is interested in the complete scope of specification development.	
6	Please provide a typical specification layout using existing specification (e.g., Table of Contents)	

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7	Please provide project references for your similar projects within the last 7 years.	
8	If your company proposes to utilize existing documents as the basis of the specifications, please provide details of which specifications this applies to.	
9	Please provide a schedule for development of the specifications. Showing the delivery date for the first review copy of each listed specification.	

Note: A formal Request for Proposal (RFP) procurement process, including technical and financial, is expected to be released subsequent to this EOI process to those companies qualified by the EOI process.

\_\_\_\_\_  
**Name / Signature of Firm representative**

**Date:** \_\_\_\_\_