

United Kingdom-Belfast: Electricity, heating, solar and nuclear energy

OJ S 18/2018 26/01/2018

Contract notice

Works

Legal Basis:

Directive 2014/24/EU

Section I: Contracting authority

I.1. Name and addresses

Official name: Viridian Energy Supply Limited

Postal address: 64 Newforge Lane

Town: Belfast

NUTS code: UKN06 Belfast

Postal code: BT95NX

Country: United Kingdom

Contact person: Neil Morrow

E-mail: neil.morrow@viridiangroup.co.uk

Telephone: +44 2890380640

Internet address(es):Main address: <https://www.energia.ie/business/ni/products-and-services/energia-renewables/pilot-hydrogen-production-scheme>Address of the buyer profile: https://www.mytenders.co.uk/search/Search_AuthProfile.aspx?ID=AA41869**I.2. Information about joint procurement**

The contract is awarded by a central purchasing body

I.3. Communication

Access to the procurement documents is restricted. Further information can be obtained at:

<https://www.energia.ie/business/ni/products-and-services/energia-renewables/pilot-hydrogen-production-scheme>

Additional information can be obtained from the abovementioned address

Tenders or requests to participate must be submitted to the abovementioned address

I.4. Type of the contracting authority

Other type: Utility

I.5. Main activity

Other activity: Energy

Section II: Object

II.1. Scope of the procurement**II.1.1. Title**

Hydrogen gas supply system

Reference number: NIH2-001

II.1.2.

Main CPV code

09300000 Electricity, heating, solar and nuclear energy

II.1.3. Type of contract

Works

II.1.4. Short description

The supply, delivery, installation, commissioning and operational training of hydrogen supply system consisting of an electrolyser and hydrogen compression system, for Viridian Energy Supply Limited.

II.1.5. Estimated total value

Value excluding VAT: 1 250 000,00 GBP

II.1.6. Information about lots

This contract is divided into lots: yes
Tenders may be submitted for all lots

II.2. Description**II.2.1. Title**

Supply, delivery, spares and maintenance of PEM electrolyser
Lot No: 1

II.2.2. Additional CPV code(s)

09300000 Electricity, heating, solar and nuclear energy

II.2.3. Place of performance

NUTS code: UKN12 Causeway Coast and Glens

II.2.4. Description of the procurement

Supply, delivery, installation, commissioning, maintenance for 3 years and operational training of the hydrogen electrolyser.

Electrical supply available: 400V, 50 Hz at battery limits of the supplier's plot.

Potable water consumption – To be defined by the supplier.

Other utilities required, to be defined by the supplier, will be available at battery limits of the supplier's plot.

Hydrogen production of approx. 8.5 kg per hour given a normal operating capacity electrolyser load of c.0.5MW.

PEM electrolyser with flexible production between agreed set points but should include:

Stack operational design to allow efficient running at partial load i.e. independent individual stack control.

TSA hydrogen clean up system to minimise H2 rejection and capable of being time/cost optimised when running on partial load.

Final electrolyser and total system load to be supplier defined.

The system should be capable of being controlled from a remotely located wind farm control centre as well as locally to the equipment.

The ramp rate of electrolyser to be a minimum of 100 %/min.

Electrolyser system capable of at least 100% production above nameplate capacity for short periods (c.60 mins) without degradation of electrolyser life.

Supplier defined buffering for control of both electrolyser and compressor systems.

Operate within the specifications for ambient temperatures between -15 and +35oC.

Potable water input, any additional polishing to be included in the electrolyser supply.

Water circulation on both O2 and H2 circuits.
Any necessary cooling.
Accessible for maintenance.
Hydrogen purity of at least 99.999% and meets SAE J2719.
System ramp rate should be suitable for primary reserve demand.

II.2.5. Award criteria

Price is not the only award criterion and all criteria are stated only in the procurement documents

II.2.6. Estimated value

II.2.7. Duration of the contract, framework agreement or dynamic purchasing system

Start: 30/03/2018 End: 01/03/2020

This contract is subject to renewal: no

II.2.10. Information about variants

Variants will be accepted: no

II.2.11. Information about options

Options: no

II.2.13. Information about European Union funds

The procurement is related to a project and/or programme financed by European Union funds:
yes

Identification of the project:

II.2.14. Additional information

II.2. Description

II.2.1. Title

High pressure hydrogen compression system
Lot No: 2

II.2.2. Additional CPV code(s)

09300000 Electricity, heating, solar and nuclear energy

II.2.3. Place of performance

NUTS code: UKN0 Northern Ireland

II.2.4. Description of the procurement

Supply, delivery, installation, commissioning, Maintenance and operational training of the compressor system.

— Compressor, control and hydrogen storage module filling system for pressures up to 300 bar,

— Filling system should have automatic change over capability between 2 connected storage modules,

— Delivery of 300 bar, 99.999% pure hydrogen to the storage modules, without introducing any contamination, with an input pressure from the electrolyser,

— Containerised system,

— A 'soft' start capability,

— Powered from the power connection to the electrolyser,

— Back pressure protection for low pressure sections of the total system,

- As a minimum, the compressor will be sized to handle the maximum output of the electrolyser,
- Is designed to consider the implications of hydrogen embrittlement,
- Has a noise level of 5dB(A) @ 1m below the background noise level, in normal operation,
- Maintenance costs for a period of operation of 3 years.

The supplier will integrate the operation of the electrolyser and the compression/storage systems and detail the standards to be which the compressor will be designed and manufactured.

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yes

Identification of the project:

II.2.14. Additional information

Section III: Legal, economic, financial and technical information

III.1. Conditions for participation

III.1.2. Economic and financial standing

Selection criteria as stated in the procurement documents

III.1.3. Technical and professional ability

Selection criteria as stated in the procurement documents

III.2. Conditions related to the contract

III.2.3. Information about staff responsible for the performance of the contract

Obligation to indicate the names and professional qualifications of the staff assigned to performing the contract

Section IV: Procedure

IV.1. Description

IV.1.1. Type of procedure

Open procedure

IV.1.3. Information about a framework agreement or a dynamic purchasing system

The procurement involves the establishment of a framework agreement
Framework agreement with a single operator

IV.1.8. Information about the Government Procurement Agreement (GPA)

The procurement is covered by the Government Procurement Agreement: no

IV.2. Administrative information

IV.2.2. Time limit for receipt of tenders or requests to participate

Date: 05/03/2018 Local time: 12:00

IV.2.3. Estimated date of dispatch of invitations to tender or to participate to selected candidates

IV.2.4. Languages in which tenders or requests to participate may be submitted

English

IV.2.6. Minimum time frame during which the tenderer must maintain the tender

Duration in months: 6 (from the date stated for receipt of tender)

IV.2.7. Conditions for opening of tenders

Date: 05/03/2018 Local time: 12:00

Section VI: Complementary information

VI.1. Information about recurrence

This is a recurrent procurement: no

VI.2. Information about electronic workflows

Electronic invoicing will be accepted

Electronic payment will be used

VI.3. Additional information

NOTE: To register your interest in this notice and obtain any additional information please visit the myTenders Web Site at http://www.myTenders.org/Search/Search_Switch.aspx?ID=206511.

(MT Ref:206511).

VI.4. Procedures for review

VI.4.1. Review body

Official name: Viridian Energy Supply Limited

Postal address: Greenwood House, 64 Newforge Lane

Town: Belfast

Postal code: BT9 5NF

Country: United Kingdom

Telephone: +44 2893380641

VI.5. Date of dispatch of this notice

24/01/2018