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Planning

## **PRO004738-Works-Contract- MBC Biomethane and CO2 Plant**

United Utilities Water Limited

F04: Periodic indicative notice – utilities

Periodic indicative notice only

Notice identifier: 2023/S 000-024928

Procurement identifier (OCID): ocds-h6vhtk-03f69b

Published 24 August 2023, 11:51am

### **Section I: Contracting entity**

#### **I.1) Name and addresses**

United Utilities Water Limited

Lingley Mere Business Park

Warrington

WA5 3LP

#### **Contact**

Colette Conroy

#### **Email**

[Colette.Conroy@uuplc.co.uk](mailto:Colette.Conroy@uuplc.co.uk)

#### **Telephone**

+44 7825849053

**Country**

United Kingdom

**Region code**

UKD - North West (England)

**National registration number**

02366678

**Internet address(es)**

Main address

<https://www.unitedutilities.com>

Buyer's address

<https://uk.eu-supply.com/ctm/Company/CompanyInformation/Index/43984>

**I.3) Communication**

Additional information can be obtained from the above-mentioned address

**I.6) Main activity**

Water

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## **Section II: Object**

### **II.1) Scope of the procurement**

#### **II.1.1) Title**

PRO004738-Works-Contract- MBC Biomethane and CO2 Plant

#### **II.1.2) Main CPV code**

- 45251240 - Landfill-gas electricity generating plant construction work

#### **II.1.3) Type of contract**

Works

#### **II.1.4) Short description**

UU (United Utilities Water Limited) UU are proposing to install new Gas to Grid upgrading plant with a Biomethane / CO2 carbon capture (liquified) that takes all the on-site generated gas (~ 6000nm3/hr) from our existing Anaerobic digestion storage for export into the gas network.

Developing our future strategy we are undertaking pre-market research to understand market offerings for the following services

UU are interested in understanding how this model can be delivered, and the best technical solution

Responses detailing variations of the above services are welcome.

#### **II.1.5) Estimated total value**

Value excluding VAT: £30,000,000

#### **II.1.6) Information about lots**

This contract is divided into lots: No

### **II.2) Description**

#### **II.2.2) Additional CPV code(s)**

- 45222110 - Waste disposal site construction work
- 45251141 - Geothermal power station construction work
- 45251220 - Cogeneration plant construction work
- 45252122 - Sewage digesters
- 45255800 - Gas-production plant construction work

### **II.2.3) Place of performance**

NUTS codes

- UKD - North West (England)

### **II.2.4) Description of the procurement**

UU (United Utilities Water Limited) UU are proposing to install new Gas to Grid upgrading plant with a Biomethane / CO<sub>2</sub> carbon capture (liquified) that takes all the on-site generated gas (~ 6000nm<sup>3</sup>/hr) from our existing Anaerobic digestion storage for export into the gas network.

UU are interested in understanding how this model can be delivered, and the best technical solution

Developing our future strategy we are undertaking pre-market research to understand market offerings for the following services

Our initial design for the main plant items include the following Responses detailing variations of the above services are welcome.

- Dual stream 'Amine solution' Chemical wash plant
  - o 6000Nm<sup>3</sup>/hr of biogas treatment for export to local gas network
  - o Pre-treatment conditioning of biogas (VOC / Siloxane / H<sub>2</sub>S removal)
  - o Analytical monitoring / control of gas quality to ensure product is suitable for export
- Grid Export Unit (GEU) – kiosk based solution
  - o Arrangement of valves & pipework for the provision of

- o Isolation / diversion of the gas between export point & flare stack
- o Biogas flare stack for emergency burning of surplus gas
- o Analytical monitoring / control of gas quality to ensure product is suitable for export
  - Remote Operating Valve (ROV) assembly – kiosk based solution
- o Arrangement of valves & pipework for the provision of
- o Valve isolation system to prevent the export gas in the event of quality / gas network issues
- o Analytical monitoring / control of gas quality to ensure product is suitable for export
  - CO<sub>2</sub> capture / recovery Plant (off- gas product of the Chemical Wash Plant)
- o Liquification & storage
- o Vehicle export (tanker) loading / filling facility
  - Propane storage facility
- o 48Tonnes of liquid propane storage
- o injection to Biomethane export pipeline
- o injection / purge points biomethane pipework
- o injection purge points on H<sub>2</sub> boiler feed main
- o Fire suppression system
  - Dual fuel boiler (H<sub>2</sub> and natural gas)
- o 9000T steam/hr @ 190°C
- o Boiler feed water conditioning unit
- o Housing for boiler
  - H<sub>2</sub> import pipeline to dual fuel boilers
- o 1km x 400mm<sup>2</sup> @ 2bar pipeline direct buried (gas main)

- o H2/natural gas conversion of 2 x 9000T/hr steam boilers
- o H2 ring main in boiler house
- New electrical feed.
- o 2MVA 6.6kV/415V 3 phase transformer
- o HV Ring main unit (RMU)
- o HV joints / infrastructure interventions
- o New LV intake board (Form 4) 3 tier system / ACB's / distribution
- o HV / LV earthing

### **II.2.14) Additional information**

This notice is a request for information only at this stage.

If you have experience in this area please could you provide at a minimum the following information and submit to the United Utilities CTS Procurement Team mailbox:

[CTSProcurement@uuplc.co.uk](mailto:CTSProcurement@uuplc.co.uk)

- Company Name
- Contact details, including location telephone and e-mail address, main point of contact and position in Company

### **II.3) Estimated date of publication of contract notice**

6 November 2023

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## **Section IV. Procedure**

### **IV.1) Description**

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

The procurement is covered by the Government Procurement Agreement: No

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## **Section VI. Complementary information**

### **VI.3) Additional information**

the response deadline is 22 September 2023