

**United Kingdom-Newcastle upon Tyne: Radio, television, communication, telecommunication and related equipment**

OJ S 31/2019 13/02/2019

Prior information notice

Works

**Legal Basis:**

Directive 2014/24/EU

**Section I: Contracting authority**

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**I.1. Name and addresses**

Official name: Northern Powergrid (Yorkshire) Plc, Northern Powergrid (Northeast) Ltd

Town: Newcastle upon Tyne

NUTS code: UKC North East (England)

Postal code: NE11 6AF

Country: United Kingdom

Contact person: Sally Hartley

E-mail: [sally.hartley@northernpowergrid.com](mailto:sally.hartley@northernpowergrid.com)

Telephone: +44 1977605669

**Internet address(es):**Main address: <http://www.northernpowergrid.com/>**I.3. Communication**

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**

Body governed by public law

**I.5. Main activity**

General public services

**Section II: Object**

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

Secondary SCADA Communications Replacement

Reference number: NPg19031

**II.1.2. Main CPV code**

32000000 Radio, television, communication, telecommunication and related equipment

**II.1.3. Type of contract**

Works

**II.1.4. Short description**

Northern Powergrid (NPG) are looking at replacing the legacy communications to Remote Terminal Units (RTU) on the secondary electrical distribution network. Currently Northern Powergrid have 2 Telemetry networks operating independently of each other; 1 in the North

East and 1 in Yorkshire. The data transferred utilises the DNP3 protocol and eventually ends up in 1 of 2 GE ENMAC (Power On Fusion) Network Management System (NMS) geographically separated for redundancy purposes in one of our control centres. The intention is to build a common solution using hill top base station sites, approximately 80 in total. NPG will identify these sites and deal with all site based requirements separate to the tender. The solution will use 80 x 12,5 kHz channels in the VHF band, all RF planning will have been completed prior to issuing the tender and subsequent rollout programme; this will also be separate to this tender.

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

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

This contract is divided into lots: no

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

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

45314000 Installation of telecommunications equipment

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

NUTS code: UKC North East (England)

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

Northern Powergrid (NPG) are looking at replacing the legacy communications to Remote Terminal Units (RTU) on the secondary electrical distribution network. Currently Northern Powergrid have 2 Telemetry networks operating independently of each other; 1 in the North East and 1 in Yorkshire. The data transferred utilises the DNP3 protocol and eventually ends up in 1 of 2 GE ENMAC (Power On Fusion) Network Management System (NMS) geographically separated for redundancy purposes in one of our control centres. The intention is to build a common solution using hill top base station sites, approximately 80 in total. NPG will identify these sites and deal with all site based requirements separate to the tender. The solution will use 80 x 12,5 kHz channels in the VHF band, all RF planning will have been completed prior to issuing the tender and subsequent rollout programme; this will also be separate to this tender.

NPG believe it will be possible to achieve data rates of up to 40 kps, any proposed solution should look to meet this.

There will be over 6 500 outstation sites that will require a site visit to install new hardware. A new transceiver, antenna and new cabling will be required as a minimum. There will also be a requirement on the installer to re-programme the RTU connected to the transceiver and then re-commission the site. The connection between the RTU and transceiver is serial. Due to the location of some of the equipment NPG provided personnel will install equipment at approximately 2 000 of these sites with the winning bidder supplying the equipment. A new network management system will be required to monitor all of the new telecommunication equipment. All new hardware should be ip addressable, with the ip design being a component of the tender.

Security is a very important component of the design. End to end encryption will be necessary with end points at the outstation and control centres. All radio links should also include over air encryption: AES 256 as a minimum. It may also be necessary to install a door or cabinet alarm which should utilise i/o alarms on the transmitter. SNMP v3 is a minimum requirement.

The tender will be released in Q2 of 2019 with contract award announced at the beginning of Q4; subject to a satisfactory tender process. There will be 2 contracts awarded; the first to carry out a proof of concept to confirm the solution meets all of our needs. On completion of a successful proof of concept the contract for the full rollout will be awarded.

We foresee the project taking 3 ¼ years to complete with an end date of Q1 2023. The envisaged costs for delivering this are expected to be between 14 000 000 GBP and 20 000 000 GBP.

**II.2.5. Award criteria**

**II.2.6. Estimated value**

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

**II.2.10. Information about variants**

**II.2.11. Information about options**

**II.2.13. Information about European Union funds**

The procurement is related to a project and/or programme financed by European Union funds:  
no

**II.2.14. Additional information**

Northern Powergrid intend to advertise this opportunity via the Utilities Vendor Database (UVDB) hosted by Achilles. Suppliers wishing to take part in this exercise must be registered on the UVDB. For consortia or joint venture bids, the group must be registered in order to take part as the intended consortia or joint venture.

The intended turnover filter to be used in the UVDB is > 4 000 000 GBP.

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**Section IV: Procedure**

**IV.1. Description**

**IV.1.1. Type of procedure**

Competitive procedure with negotiation

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

**IV.1.6. Information about electronic auction**

An electronic auction will be used

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

The procurement is covered by the Government Procurement Agreement: yes

**IV.2. Administrative information**

**IV.2.2. Time limit for receipt of expressions of interest**

Date: 28/02/2019 Local time: 12:00

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

English

**IV.2.5. Scheduled date for start of award procedures**

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**Section VI: Complementary information**

**VI.3. Additional information**

**VI.4. Procedures for review**

**VI.4.1. Review body**

Official name: Northern Powergrid Internal Audit

Town: Newcastle

Country: United Kingdom

**VI.5. Date of dispatch of this notice**

08/02/2019