This notice in TED website: https://ted.europa.eu/udl?uri=TED:NOTICE:68696-2019:TEXT:EN:HTML

United Kingdom-Newcastle upon Tyne: Radio, television, communication, telecommunication and related equipment
2019/S 031-068696

Prior information notice

This notice is a call for competition

Works

Legal Basis:
Directive 2014/24/EU

Section I: Contracting authority

I.1) **Name and addresses**
Northern Powergrid (Yorkshire) Plc, Northern Powergrid (Northeast) Ltd
Newcastle upon Tyne
NE11 6AF
United Kingdom
Contact person: Sally Hartley
Telephone: +44 1977605669
E-mail: sally.hartley@northernpowergrid.com
NUTS code: UKC
Internet address(es):
Main address: http://www.northernpowergrid.com/

I.2) **Information about joint procurement**

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

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

II.1.1) **Title:**
Secondary SCADA Communications Replacement
Reference number: NPg19031

II.1.2) **Main CPV code**
32000000

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.2.1) **Title:**

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

45314000

II.2.3) **Place of performance**

NUTS code: UKC

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.

Section III: Legal, economic, financial and technical information

III.1) **Conditions for participation**

III.1.1) **Suitability to pursue the professional activity, including requirements relating to enrolment on professional or trade registers**

III.1.2) **Economic and financial standing**

III.1.3) **Technical and professional ability**

III.1.5) **Information about reserved contracts**

III.2) **Conditions related to the contract**

III.2.2) **Contract performance conditions:**

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

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:**

Section VI: Complementary information

VI.2) **Information about electronic workflows**

VI.3) **Additional information:**

VI.4) **Procedures for review**

VI.4.1) **Review body**

Northern Powergrid Internal Audit
Newcastle
United Kingdom

VI.4.2) **Body responsible for mediation procedures**

VI.4.3) **Review procedure**

VI.4.4) **Service from which information about the review procedure may be obtained**

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

08/02/2019