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Contract

Network Control Management System (NCMS)

NATIONAL GRID UK LIMITED

F03: Contract award notice

Notice identifier: 2022/S 000-016425

Procurement identifier (OCID): ocds-h6vhtk-0346ce

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Section I: Contracting authority

I.1) Name and addresses

NATIONAL GRID UK LIMITED

Warwick Technology Park, Gallows Hill

Warwick

CV34 6DA

Contact

Dean Moss

Email

dean.moss@nationalgrid.com

Telephone

+44 1926654611

Country

United Kingdom

NUTS code

UKG13 - Warwickshire

Internet address(es)

Main address

www.nationalgrid.com

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

Network Control Management System (NCMS)

II.1.2) Main CPV code

- 72268000 - Software supply services

II.1.3) Type of contract

Services

II.1.4) Short description

The provision of a new EMS (Energy Management System) Core for National Grid Electricity System Operator to

manage the GB Electricity network.

II.1.6) Information about lots

This contract is divided into lots: No

II.1.7) Total value of the procurement (excluding VAT)

Value excluding VAT: £17,762,373

II.2) Description

II.2.3) Place of performance

NUTS codes

- UKG13 - Warwickshire

Main site or place of performance

Wokingham

II.2.4) Description of the procurement

NGESO is seeking a situational awareness tool which can leverage several complex data

sources and allows users to operate a heavily constrained electricity system securely, efficiently, and safely, bringing key issues into vision quickly and display them clearly to enable users to make informed decisions.

Existing NGESO Database and Display conversion

- Ability to convert existing SCADA database.
- Ability to convert existing Network Model.
- Ability to convert existing Display stack.
- Validation of converted SCADA database and Network Model.

Interfaces

- The NCMS should be able to consume and produce data for NGESO's Data and Analytics Platform, allowing users and the wider industry to gain insight into the GB energy system.
- Data exchange between external parties must be possible.
- Existing interfaces within the iEMS should be migrated to the NCMS via the Data and Analytics Platform or directly to the systems they link with.

Intelligent alarming capabilities

- Users should have access to basic alarm management capabilities including ingest of alarm data, visual display of alarms, alarm notification and management.
- The NCMS should provide advanced alarm handling with an additional layer intelligence. This includes grouping of alarms, time tagging, rule based alarming and dynamic alarming capabilities.
- Network Analysis alarming functionality, including Contingency Analysis and Short Circuit Analysis Alarming.

SCADA and Network Modelling

- SCADA and Power System modelling functionality to enable simulation of the electricity transmission network to provide users a view of the current and potential future state of the network for operational and planning scenarios.

Advanced Network Analysis

- Advanced Situational Awareness capabilities including, State Estimation, Contingency Analysis, Fault Level (Short Circuit) Analysis, Constraint Analysis, Voltage Stability Analysis, Transient Stability Analysis and Lookahead Analysis.

Training Simulator

- Training and simulation functionality to facilitate an end-to-end training experience that accurately reflects the GB electricity network to prepare trainees for real life scenarios.

Wide Area Monitoring

- The ability to leverage PMU measurements to monitor real-time system dynamic quantities and enhance real-time network analysis capabilities.

Core Scope - 2023

The following list includes all activity that should be considered as "core" scope:

Provision of software for a Situational Awareness tool for NGESO;

Consultancy, design, configuration, and implementation services associated with the implementation of the Situational Awareness tool;

Ongoing support and maintenance of the Situational Awareness tool; and

Integration of other applications into the Situational Awareness tool for NGESO.

Contracts will be awarded to a single provider for an initial period of 5 years for the implementation and early operations, with an option to extend thereafter. The intent is to contract for the entire scope outlined in Part 1 section 1 but with a break clause after MVP build.

Future Scope

The following list details potential areas of "future" scope:

Customisable API's - Constraint Analysis

Real Time Messaging (Third Parties) - Re-Wind - Data & Modelling

Workflor (TL Process) - Model Validation

Error Message / Handling - Data Testing / Simulation

Standard Reports - Release Management

Report Builder - Data Validation

Automated Reports - Configurable Views (role based)

Near Miss Catching - Visual / Graphical Displays

Restoration Tooling - Dashboarding

Voltage Stability Analysis (VSAT) - Video Wall

Transient Stability Analysis (TSAT) - Multiple Data Sets (overlays)

Lookahead

II.2.5) Award criteria

Quality criterion - Name: Solution Design / Weighting: 15

Quality criterion - Name: Technical Architecture / Weighting: 20

Quality criterion - Name: Sandbox Demonstration / Weighting: 15

Quality criterion - Name: Security / Weighting: 5

Quality criterion - Name: Transition / Weighting: 20

Quality criterion - Name: Governance / Weighting: 5

Quality criterion - Name: Commercial / Weighting: 5

Quality criterion - Name: Transformation / Weighting: 15

Price - Weighting: 25

II.2.11) Information about options

Options: No

II.2.14) Additional information

Qualitative Score = 100%, which then needed to be divisible by 75% as the weighted score

Section IV. Procedure

IV.1) Description

IV.1.1) Type of procedure

Competitive dialogue

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.2.1) Previous publication concerning this procedure

Notice number: [2020/S 250-626947](#)

IV.2.9) Information about termination of call for competition in the form of a prior information notice

The contracting authority will not award any further contracts based on the above prior information notice

Section V. Award of contract

A contract/lot is awarded: Yes

V.2) Award of contract

V.2.1) Date of conclusion of the contract

15 June 2022

V.2.2) Information about tenders

Number of tenders received: 2

Number of tenders received from SMEs: 0

Number of tenders received by electronic means: 2

The contract has been awarded to a group of economic operators: No

V.2.3) Name and address of the contractor

GE Digital UK Ltd

Tanfield

Edinburgh

EH3 5DA

Email

dean.moss@nationalgrid.com

Telephone

+44 1926654611

Country

United Kingdom

NUTS code

- UKG13 - Warwickshire

Internet address

<https://www.nationalgrid.com/>

The contractor is an SME

No

V.2.4) Information on value of contract/lot (excluding VAT)

Initial estimated total value of the contract/lot: £10,000,000

Total value of the contract/lot: £17,726,373

Section VI. Complementary information

VI.4) Procedures for review

VI.4.1) Review body

National Grid UK Ltd

Warwick Technology Park, Gallows Hill

Warwick

CV34 6DA

Email

dean.moss@nationalgrid.com

Country

United Kingdom