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Contract

NOA Economic Assessment Tool

NATIONAL GRID ELECTRICITY SYSTEM OPERATOR LIMITED

F06: Contract award notice – utilities
Notice identifier: 2022/S 000-016347
Procurement identifier (OCID): ocds-h6vhtk-02874b
Published 14 June 2022, 5:46pm

Section I: Contracting entity

I.1) Name and addresses

NATIONAL GRID ELECTRICITY SYSTEM OPERATOR LIMITED

1-3 Strand

London

WC2N5EH

Contact

Clive Redington

Email

clive.redington@nationalgrid.com

Country

United Kingdom

NUTS code

UK - United Kingdom

Internet address(es)

Main address

https://www.nationalgrideso.com/

I.6) Main activity

Electricity

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

NOA Economic Assessment Tool

II.1.2) Main CPV code

- 72260000 - Software-related services

II.1.3) Type of contract

Services

II.1.4) Short description

The NOA Economic Assessment Tool within the ESO involves modelling the future conditions of the system and the economic impact of different transmission reinforcements, proposed by Transmission Owners, under different system scenarios.

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: £3,457,345

II.2) Description

II.2.3) Place of performance

NUTS codes

- UK - United Kingdom

II.2.4) Description of the procurement

The Economic Assessment tool must have:

1 The capability to process inputs for modelling, that include (but not limited to);

- annual generation capacities (scenario data) for at least 30 years for both GB and European markets

- annual interconnector capacities (scenario data) for at least 30 years for both GB and European markets

- annual fuel composition (base data) for at least 30 years for both GB and European markets

2 The capability to model / simulate, that include (but not limited to);

- the electricity market dispatch across GB and Europe to view zonal and GB wide forecasted hourly dispatch positions, calculate social-economic welfare benefits/costs for each interconnector

- water values (inflows, reservoir levels, spill, cost to generate, cost to store, cost of spill) to accurately model hydro plant behaviour.

- interconnector flows probabilistically at stress periods within GB (Security of Supply & LOLE modules)

- switch between zonal and nodal modelling or a combination of the two

- multipurpose, multi-endpoint and multi-directional interconnectors/hybrid sites to perform benefit analysis on potential connections and accurately model flows and prices across hybrid sites

3 The capability to process the outputs for modelling, that include (but not limited to);

- review detailed dispatch simulation outputs at an hourly level (Interconnectors & boundary flows, costs, demand, generation, wholesale prices, various fuel emissions)

- view hourly behaviour of the hydrogen market (i.e. generation and demand output)

- able to extract multiple years' worth of data at an hourly resolution.

4 The ability to interface with other types of models (PowerFactory, Simone), ability to launch the simulation engine using custom automation tools, ability to interface with in those developed tools for Probabilistic Modelling, Voltage Optimisation and Stability assessment

5 The ability to interface with the National Grid Data & Analytics Platform

6 Facilitate batch data manipulation (extraction, input, change, deletion) using our in-house tools (including, but not limited to: COMP & IO, Speed write tool, FES input tool, Dynamic boundary updater, Bidoffer adder tool, POUYA integration, NOA IC Data Scraper)

II.2.11) Information about options

Options: Yes

Description of options

Three years initial term following by 2 x 12 month, optional extensions

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Section IV. Procedure

IV.1) Description

IV.1.1) Type of procedure

Negotiated procedure with prior call for competition

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.2.1) Previous publication concerning this procedure

Notice number: 2021/S 000-000004

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

7 May 2022

V.2.2) Information about tenders

Number of tenders received: 2

Section VI. Complementary information

VI.4) Procedures for review

VI.4.1) Review body

National Grid ESO

Warwick

Country

United Kingdom