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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

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### **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](mailto: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

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**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](#)

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## **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

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## **Section VI. Complementary information**

### **VI.4) Procedures for review**

#### **VI.4.1) Review body**

National Grid ESO

Warwick

Country

United Kingdom