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**France-Villeurbanne: IT services: consulting, software development, Internet and support
2023/S 072-219240**

Contract notice – utilities

Services

Legal Basis:

Directive 2014/25/EU

Section I: Contracting entity

I.1) Name and addresses

Official name: SuperGrid Institute

Town: Villeurbanne

NUTS code: FR France

Postal code: 69100

Country: France

Contact person: Laurent Chédot

E-mail: laurent.chedot@supergrid-institute.com

Internet address(es):

Main address: <https://www.supergrid-institute.com/>

I.3) Communication

The procurement documents are available for unrestricted and full direct access, free of charge, at: <https://drive.google.com/drive/folders/1-7tovuC6m7PsH2csjhiFRDaRtDHc26Rn?usp=sharing>

Additional information can be obtained from the abovementioned address

Tenders or requests to participate must be submitted to the abovementioned address

I.6) Main activity

Electricity

Section II: Object

II.1) Scope of the procurement

II.1.1) Title:

Design and Development of a HVDC Grid Controller

II.1.2) Main CPV code

72000000 IT services: consulting, software development, Internet and support

II.1.3) Type of contract

Services

II.1.4) Short description:

Europe wants to build around 450 GW of offshore wind by 2050. The EU alone wants to have 300 GW by then. In the future offshore wind farms will not only transmit electricity directly to shore. They will also serve as interconnectors between countries and transmit electricity between different wind farms. Europe is laying the groundwork for interconnected hybrid offshore wind farms. Offshore electricity transmission is a key challenge in 2 / 3

getting there. The most efficient way of transporting electricity from offshore wind farms is via multi-terminal High Voltage Direct Current (HVDC) grids.

The aim of the HVDC Grid Controller is to monitor and coordinate an offshore HVDC Grid. It is connected on one side to all HVDC devices provided by several vendors and on the other side with multi-TSO SCADA, using standard communication protocols.

Continuous and sequential functions are implemented to monitor and control the stability of the HDVC Grid. Controls actions are also performed

II.1.5) **Estimated total value**

II.1.6) **Information about lots**

This contract is divided into lots: no

II.2) **Description**

II.2.3) **Place of performance**

NUTS code: FR France

II.2.4) **Description of the procurement:**

SuperGrid want to pre-select tenderers to submit them a Call for Tender to develop the High Voltage Direct Current Grid Controller. The expected deliveries are:

- Specification and development of a software solution to perform real time functions, communicate with multivendors controllers through a standard protocol (to be defined), allow the operator monitoring and controlling the HVDC System using an HMI.
- Design and manufacturing of several cubicles,
- Delivery of all cubicles with software to several clients and perform commissioning tests and operator trainings.

II.2.5) **Award criteria**

Price is not the only award criterion and all criteria are stated only in the procurement documents

II.2.6) **Estimated value**

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

Start: 02/10/2023

End: 30/04/2027

This contract is subject to renewal: no

II.2.10) **Information about variants**

Variants will be accepted: no

II.2.11) **Information about options**

Options: no

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

The procurement is related to a project and/or programme financed by European Union funds: yes

Identification of the project:

InterOPERA (HORIZON-CL5-2022-D3-01-09 – Real Time Demonstrator of Multi-Vendor MultiTerminal VSC HVDC with Grid Forming Capability (in support of the offshore strategy)

II.2.14) **Additional information**

SuperGrid request the candidates to complete and send to the contact point an Excel form and a presentation of their activity before May 12th 2023.

The call for tenders will be published by the end of May 2023.

Section III: Legal, economic, financial and technical information

III.1) Conditions for participation

III.1.3) Technical and professional ability

List and brief description of selection criteria:

SuperGrid require from the supplier to:

- Have a good knowledge/expertise in
 - o software development of control and monitoring systems and SCADAs,
 - o development and configuration of communication protocols (and possibly those used in power industry).
 - o Integration of software on dedicated hardwares.
 - o setting up of a complete software build and deployment process.
- The ability to adapt the size and the competences of a team accordingly to the project needs during the whole lifetime of the project.

Knowledges in Electrical Network will be highly appreciated

Minimum level(s) of standards possibly required:

Mandatory requirements for SuperGrid are:

1. Software development in C/C++ language,
2. Intermediate level in english as all documents will be written in English and some commissioning tests & trainings will be done in English in the Netherlands,

An intermediate level in French will also be appreciated as SuperGrid is based in France.

Section IV: Procedure

IV.1) Description

IV.1.1) Type of procedure

Negotiated procedure with prior call for competition

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

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.2.2) Time limit for receipt of tenders or requests to participate

Date: 12/05/2023

IV.2.3) Estimated date of dispatch of invitations to tender or to participate to selected candidates

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

English

Section VI: Complementary information

VI.1) Information about recurrence

This is a recurrent procurement: no

VI.3) Additional information:

VI.4) Procedures for review

VI.4.1) Review body

Official name: Tribunal judiciaire de Lyon

Town: Lyon

Country: France

VI.5) **Date of dispatch of this notice:**
07/04/2023