

## **PRIOR INFORMATION NOTICE**

### **Services**

Directive 2014/24/EU

This notice is for prior information only

#### **SECTION I: CONTRACTING AUTHORITY**

##### **I.1) NAME AND ADDRESSES**

Official name:

TenneT TSO B.V.

National ID:

09155985

Postal address:

Utrechtseweg 310

Town:

Arnhem

NUTS code:

NL

Postal code:

6812 AR

Country:

NL

Contact person:

Stan Westerbaan

Telephone:

+316 42190077

E-mail:

[Stan.Westerbaan@tennet.eu](mailto:Stan.Westerbaan@tennet.eu)

Fax:

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##### **Internet address(es)**

Main address:

<http://www.tennet.eu>

Address of the buyer profile:

<https://platform.negometrix.com/PublishedTenders.aspx?tenderid=171248>

##### **I.1) NAME AND ADDRESSES**

Official name:

TenneT TSO GmbH

National ID:

-

Postal address:

Bernecker Straße 70

Town:

Bayreuth

NUTS code:

DE

Postal code:

95448 Bayreuth

Country:

DE

Contact person:

Stan Westerbaan

Telephone:

+316 42190077

E-mail:

[Stan.Westerbaan@tennet.eu](mailto:Stan.Westerbaan@tennet.eu)

Fax:

-

### **Internet address(es)**

Main address:

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## **I.2) JOINT PROCUREMENT**

- The contract involves joint procurement  
In the case of joint procurement involving different countries, state applicable national procurement law:  
Dutch tender law
- The contract is awarded by a central purchasing body

## **I.3) COMMUNICATION**

**Additional information can be obtained from**

the abovementioned address

## **I.4) TYPE OF THE CONTRACTING AUTHORITY**

Other type: TenneT TSO

## **I.5) MAIN ACTIVITY**

Other activity: Maintenance of the electricity grid

## SECTION II: OBJECT

### II.1) SCOPE OF THE PROCUREMENT

#### II.1.1) Title

Scientific Software Engineer - Support MMT on SPC

Reference number: -

#### II.1.2) CPV code(s)

Main code:

72000000 - IT-diensten: adviezen, softwareontwikkeling, internet en ondersteuning

Supplementary code:

-

#### II.1.3) Type of contract

Services

#### II.1.4) Short description

Scientific Software Engineer - IT consultancy

As this is just a pre-announcement, no tender documentation will be enclosed.

#### II.1.5) Estimated total value

Value excluding VAT: - Currency: -

#### II.1.6) Information about lots

This contract is divided into lots: no

### II.2) DESCRIPTION

#### II.2.1) Title

-

Lot No: -

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

Main code:

72000000 - IT-diensten: adviezen, softwareontwikkeling, internet en ondersteuning

Supplementary code:

-

## **II.2.3) Place of performance**

NUTS code:

NL NEDERLAND

Main site or place of performance:

Bayreuth (GER) and Arnhem (NL)

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

(nature and quantity of works, supplies or services or indication of needs and requirements)

TenneT TSO B.V. (The Netherlands) and TenneT TSO GmbH (Germany) wish to conclude an agreement with a specialist party that can provide support within the MMT project with the flexibility of a commercial party where specific experience is necessary in the field of Scientific Software Engineering. MMT project is to replace the current market modelling tools PowrSym and JMM. Within the MMT project, support is needed. This support will be delivered in the end by a new department which is currently being setup within TenneT. In the meanwhile TenneT is looking for support from a specialist party.

In TenneT's view a Scientific Software Engineer has the following capabilities:

- Approach calculation algorithms and their complexity class in different ways to achieve a correct implementation.
- Design algorithms and calculation techniques.
- Perform analyses to identify specific requirements.
- Work with software in which complex calculations are executed (in high volume).
- Design, build and maintain software.
- Advising and identifying whether existing approaches can be improved or are state of the art.
- Work with coding languages, Python, MATLAB, MS HPC.
- Work with cluster computing, e.g. Slurm, HPC, GPU calculations e.g. CUDA.
- Work with high performance computing e.g. MPI, Open MP.

The specialist party must be able to carry out work for both the German and Dutch TenneT companies, and the specialist party is required to work on both sites when TenneT requests. Within the project support is needed to realise the new tool MMT on the Smart Performance Cluster (SPC), including all forms of parallelisation. Also, TenneT requires a specialist party who has implemented and maintained calculation models and calculation methods concerning the grid load. In addition, support is required for the (further) optimisation of the pre- and post-processes of the MMT calculations. Of course, TenneT expects experience in an international company which is involved in the distribution of gas or electricity and

has knowledge in the European Union energy market. The experience is gained in a multinational project. Knowledge of the PEMMDB model and of ENTSO-E related studies is considered an advantage.

TenneT requires a specialist party which understands the abstraction level of data models. And is able to delegate and supervise the implementation to developers. TenneT wishes that the specialist party has knowledge of custom tools at other customers as the MMT tool will interface with these custom tools. To be able to design, build and maintain or improve these tools, a thorough knowledge of algorithms and computer science is required, as well as a basic knowledge of physics and power system engineering. The latter is necessary in order to be able to communicate in detail with the network strategists about important points in the calculation process and to be able to determine the right starting points for automating the processes.

TenneT requires that the specialist party presents a reference as a proof of the fulfilment of the requirements stated above. This reference has a minimal length of six months, and is not older than three years. Furthermore, TenneT requires to know what innovative developments you have contributed to. On demand, the specialist party can hand in three excellent CV's which confirm the expertise of Scientific Software Engineers.

To make sure we have selected the best parties possible, this announcement is taking place. TenneT intends to invite a few parties selected by TenneT for this future assignment (€50.000 - €190.000 estimated in two years combined).

#### **II.2.14) Additional information:**

If parties feel that they can meet all requirements stated above then they are invited to contact Mr. Stan Westerbaan of TenneT via [Stan.Westerbaan@tennet.eu](mailto:Stan.Westerbaan@tennet.eu) before or on 8th of April 2021 at the latest. TenneT requires a motivation from the specialist party why you are interested in this future assignment and are of the opinion that your company is suitable for this assignment.

#### **II.3) ESTIMATED DATE OF PUBLICATION OF CONTRACT NOTICE**

01/06/2021

## SECTION IV: PROCEDURE

### **IV.1) DESCRIPTION**

#### **IV.1.8) Information about the Government Procurement Agreement (GPA)**

The procurement is covered by the Government Procurement Agreement: yes

## SECTION VI: COMPLEMENTARY INFORMATION

### **VI.3) ADDITIONAL INFORMATION**

As this is just a pre-announcement, no tender documentation will be enclosed.

### **VI.5) DATE OF DISPATCH OF THIS NOTICE**

25/03/2021