

344043-2025 - Competition

Netherlands – Software programming and consultancy services – Dynamic Security Assessment (DSA) software and services

OJ S 102/2025 28/05/2025

Contract or concession notice – standard regime

Services

1. Buyer

1.1. Buyer

Official name: TenneT TSO B.V.

Email: Dick.Slaats@tennet.eu

Activity of the contracting entity: Electricity-related activities

2. Procedure

2.1. Procedure

Title: Dynamic Security Assessment (DSA) software and services

Description: The business objective of this tender is to acquire high-quality Dynamic Security Assessment (DSA) software and services, such that TenneT is able implement and operationally deploy Online DSA functionalities to mitigate the risks of the evolving power system with regards to dynamic stability. The software tool for Dynamic Security Assessment (DSA) of an electric power grid, specifically Transient Stability Assessment evaluates a power system's ability to maintain synchronism when subjected to a large disturbance, such as a fault, line outage, or sudden loss of generation. It involves analyzing the dynamic response of generators and system components during and immediately after the disturbance to ensure the system can return to a stable operating state. The tender scope includes maintenance and support regarding the software tool as well as expertise/consultancy for during the implementation/integration phase and for during the operational phase. Optionally are functionalities regarding Voltage Stability Assessment, Small Signal Stability Assessment, RMS-EMT co-simulation as well as other current or future functionalities for evaluation of a power systems dynamic behaviour beyond those described above that are beneficial to a control room operator's situational awareness and decision making. The goals of this tender are as follows: Goal 1: Procure software tooling for Online DSA, including updates, bugfixes and new versions. Goal 2: Procure support expertise to facilitate TenneT's implementation and integration of the procured Online DSA tool. Goal 3: Procure third-line support during the Online DSA tool's operation at TenneT. Goal 4: Procure expertise as needed for optimizing TenneT's understanding and usage and operation of the Online DSA tool.

Procedure identifier: a7232469-fd72-4654-b716-cf6554ef1ffd

Internal identifier: EU-474

Type of procedure: Open

The procedure is accelerated: no

Main features of the procedure: Open procedure which uses Best Value

2.1.1. Purpose

Main nature of the contract: Services

Main classification (cpv): 72200000 Software programming and consultancy services

Additional classification (cpv): 48000000 Software package and information systems

2.1.2. Place of performance

Postal address: Utrechtseweg 310

Town: Arnhem

Postcode: 6812 AR

Country subdivision (NUTS): Arnhem/Nijmegen (NL226)

Country: Netherlands

Additional information: See documentation in Mercell

2.1.3. Value

Estimated value excluding VAT: 4 300 000,00 EUR

2.1.4. General information

Legal basis:

Directive 2014/25/EU

5. Lot

5.1. Lot: LOT-0000

Title: Dynamic Security Assessment (DSA) software and services

Description: The business objective of this tender is to acquire high-quality Dynamic Security Assessment (DSA) software and services, such that TenneT is able implement and operationally deploy Online DSA functionalities to mitigate the risks of the evolving power system with regards to dynamic stability. The software tool for Dynamic Security Assessment (DSA) of an electric power grid, specifically Transient Stability Assessment evaluates a power system's ability to maintain synchronism when subjected to a large disturbance, such as a fault, line outage, or sudden loss of generation. It involves analyzing the dynamic response of generators and system components during and immediately after the disturbance to ensure the system can return to a stable operating state. The tender scope includes maintenance and support regarding the software tool as well as expertise/consultancy for during the implementation/integration phase and for during the operational phase. Optionally are functionalities regarding Voltage Stability Assessment, Small Signal Stability Assessment, RMS-EMT co-simulation as well as other current or future functionalities for evaluation of a power systems dynamic behaviour beyond those described above that are beneficial to a control room operator's situational awareness and decision making. The goals of this tender are as follows: Goal 1: Procure software tooling for Online DSA, including updates, bugfixes and new versions. Goal 2: Procure support expertise to facilitate TenneT's implementation and integration of the procured Online DSA tool. Goal 3: Procure third-line support during the Online DSA tool's operation at TenneT. Goal 4: Procure expertise as needed for optimizing TenneT's understanding and usage and operation of the Online DSA tool.

Internal identifier: EU-474

5.1.1. Purpose

Main nature of the contract: Services

Main classification (cpv): 72200000 Software programming and consultancy services

Additional classification (cpv): 48000000 Software package and information systems

Quantity: 1

Options:

Description of the options: See tender documents

5.1.2. Place of performance

Postal address: Utrechtseweg 310
Town: Arnhem
Postcode: 6812 AR
Country subdivision (NUTS): Arnhem/Nijmegen (NL226)
Country: Netherlands
Additional information: See documentation in Mercell

5.1.3. Estimated duration

Duration: 4 Years

5.1.4. Renewal

Maximum renewals: 7

Other information about renewals: Option of 7 renewals * 3 years.

5.1.5. Value

Estimated value excluding VAT: 4 300 000,00 EUR

5.1.6. General information

Reserved participation:

Participation is not reserved.

Procurement Project not financed with EU Funds.

The procurement is covered by the Government Procurement Agreement (GPA): yes

This procurement is also suitable for small and medium-sized enterprises (SMEs): yes

5.1.9. Selection criteria

Criterion:

Type: Economic and financial standing

Name: Sound financial condition

Description of selection criterion: The Tenderer declares that it is in a sound financial condition and has sufficient financial means to continue its business activities and to perform the Contract. To demonstrate this, the Tenderer to whom the Contract is preliminarily awarded and is invited to participate in the clarification phase will be required to submit proof hereof, such as a statement (opinion) by an independent chartered accountant, (based on the latest financial report), that this accountant has no doubts about 'going concern' regarding the company of Tenderer whereby 'going concern' has the meaning as set by International Financial Reporting Standards (IFRS).

Use of this criterion: Used

Criterion:

Type: Suitability to pursue the professional activity

Name: Registration in the commercial/professional register

Description of selection criterion: The Tenderer and/or Consortium Members and/or Third Party /Third Parties relied upon must be registered in the professional or commercial register in accordance with the legislation of the country of establishment of the Tenderer and/or Consortium Members and or Third Party/Third Parties.

Use of this criterion: Used

Criterion:

Type: Technical and professional ability

Name: Reference for core competence 1 - 'Supply of a software tool for DSA'

Description of selection criterion: The Tenderer must have experience with the supply of a software tool for Dynamic Security Assessment in particular Transient Stability Assessment

(TSA), including providing maintenance and support as well as enhancements of functionalities. The Tenderer must provide one (1) reference as evidence, which proves that the Tenderer has experience with: The supply of software tooling for DSA at least for TSA, where the software tool has been implemented and is (or has been) in operational use in the control room overseeing the power system and the (end)customer is a Transmission System Operator, Transmission Operator or similar of a power grid; Providing Maintenance and support (at least 3rd line support) during the period of operational use). Enhancing of functionalities during the period of operation.

Use of this criterion: Used

Criterion:

Type: Technical and professional ability

Name: Reference for core competence 2 - 'Providing expertise'

Description of selection criterion: The Tenderer must have experience with providing expertise for implementation and integration such that the (end)customer is able to implement a DSA software tool and integrate it in its landscape. The Tenderer must provide one (1) reference as evidence, which proves that the Tenderer has experience with: Providing expertise for the implementation and integration to the (end)customer (or to its system integrator) where the software tool for DSA at least for TSA has been taken into operational use.

Use of this criterion: Used

5.1.10. Award criteria

Criterion:

Type: Quality

Name: Level of Expertise document

Description: Substantiation of performance: maximum fictitious monetary value of € 4.600.000.

Criterion:

Type: Quality

Name: Risk Management document

Description: Risk Management of TenneT's risks: maximum fictitious monetary value of € 2.300.000

Criterion:

Type: Quality

Name: Value Added document

Description: Propose value adds: maximum fictitious monetary value of € 2.300.000

Criterion:

Type: Price

Name: Price

Description: Tender Price as per Price model

Description of the method to be used if weighting cannot be expressed by criteria: For this tender, the award criterion Most Economically Advantageous Tender (MEAT) is used, which is calculated based on the Best Price Quality Ratio (BPQR). The award method is 'award by value', whereby the Tender with the lowest evaluation price (fictitious tender price) is the Most Economically Advantageous Tender. To determine the Tender with the lowest evaluation price, the following formula is used: Evaluation Price = "Price" - "Total scored fictitious monetary value of Quality" Quality is divided into sub-awarding criteria which are based on the Best Value approach and are described in tender documentation. Each sub-awarding criterion has been assigned a maximum fictitious monetary value. All sub-awarding criteria of Quality together have a maximum fictitious monetary value of € 9.200.000.

5.1.11. Procurement documents

Languages in which the procurement documents are officially available: English

Address of the procurement documents: <https://s2c.mercell.com/today/146415>

5.1.12. Terms of procurement

Terms of submission:

Electronic submission: Allowed

Address for submission: <https://s2c.mercell.com/today/146415>

Languages in which tenders or requests to participate may be submitted: English

Electronic catalogue: Allowed

Variants: Not allowed

Tenderers may submit more than one tender: Not allowed

Deadline for receipt of tenders: 17/07/2025 10:30:00 (UTC+00:00) Western European Time, GMT

Duration during which the tender must remain valid: 6 Months

Information about public opening:

Opening date: 17/07/2025 10:30:00 (UTC+00:00) Western European Time, GMT

Additional information: Will not be opened in public

Terms of contract:

The execution of the contract must be performed within the framework of sheltered employment programmes: No

Conditions relating to the performance of the contract: See tender documents on Merzell

Electronic invoicing: Required

Electronic ordering will be used: no

Financial arrangement: None

5.1.15. Techniques

Framework agreement:

No framework agreement

Information about the dynamic purchasing system:

No dynamic purchase system

Electronic auction: no

5.1.16. Further information, mediation and review

Review organisation: Rechtbank Gelderland, zittingsplaats Arnhem

Information about review deadlines: See Merzell environment

Organisation providing additional information about the procurement procedure: TenneT TSO B.V.

8. Organisations

8.1. ORG-0001

Official name: TenneT TSO B.V.

Registration number: 09155985

Postal address: Utrechtseweg 310

Town: Arnhem

Postcode: 6812AR

Country subdivision (NUTS): Arnhem/Nijmegen (NL226)

Country: Netherlands

Contact point: Dick Slaats

Email: Dick.Slaats@tennet.eu

Telephone: +31653809206

Internet address: <http://www.tennet.eu>

Buyer profile: <https://s2c.mercell.com/buyer/1286>

Roles of this organisation:

Buyer

Organisation providing additional information about the procurement procedure

8.1. ORG-0002

Official name: Rechtbank Gelderland, zittingsplaats Arnhem

Registration number: 82940827

Postal address: Walburgstraat 2-4

Town: Arnhem

Postcode: 6811 CD

Country subdivision (NUTS): Arnhem/Nijmegen (NL226)

Country: Netherlands

Email: infobalie.rb-gel.arnhem@rechtspraak.nl

Telephone: +31 883612000

Internet address: <https://www.rechtspraak.nl/Organisatie-en-contact/Organisatie/Rechtbanken/Rechtbank-Gelderland/Paginas/default.aspx>

Roles of this organisation:

Review organisation

Notice information

Notice identifier/version: cb2eb542-a965-41ca-bb69-bf6b01f76bf1 - 01

Form type: Competition

Notice type: Contract or concession notice – standard regime

Notice subtype: 17

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