

408830-2026 - Planning

Italy – Gas generators – Supply, Installation and maintenance of a PEM Electrolyser for Hydrogen Production at JRC Ispra

OJ S 113/2026 15/06/2026

Prior information notice or a periodic indicative notice used only for information
Supplies

1. Buyer

1.1. Buyer

Official name: European Commission, DG JRC - Joint Research Centre

Email: jrc-ispra-dir-r-procurement@ec.europa.eu

Legal type of the buyer: EU institution, body or agency

Activity of the contracting authority: General public services

2. Procedure

2.1. Procedure

Title: Supply, Installation and maintenance of a PEM Electrolyser for Hydrogen Production at JRC Ispra

Description: The procurement entails the design, manufacturing, delivery, installation, and commissioning of a Proton Exchange Membrane (PEM) electrolysis system for hydrogen production at the JRC Ispra site. The core of the system is a 50 Nm³/h electrolyser (which must be upgradable to 100 Nm³/h) that delivers hydrogen at an outlet pressure of 30 barg. The main equipment will be delivered in a containerized/skid version divided into three specific areas: a control panel area with the AC/DC converter, a water purification unit, and an ATEX-classified area containing the stacks and gas purification treatment. In addition to the containerized unit, the scope of supply includes several external components: - An MV/LV transformer - A thermal management system (dry cooler) - A low-pressure hydrogen storage system consisting of a cylinder rack at 30 bar with a total volume of 5 m³ - A gas blender installed on the outlet piping after the storage. Finally, the procurement includes a comprehensive service package covering the Factory Acceptance Test (FAT), Site Acceptance Test (SAT), ATEX verification, staff training, two years of spare parts, and a 3-year maintenance contract. Reason for Purchasing The primary objective of this procurement is to produce green hydrogen by harnessing the renewable energy generated from the JRC Ispra site's internal photovoltaic (PV) plant. Currently, the site has a 1.35 MWp PV installation, which is planned to be expanded to 2 MWp and eventually 3 MWp in the future. Instead of using battery systems, the JRC intends to use the excess energy from this PV plant to power the electrolyser for self-consumption. The hydrogen produced will then be blended into the natural gas pipeline (up to a 10% volume blend) to feed the site's co-generators. A dedicated technical sizing analysis concluded that a modular 2x250 kW electrolyser is the optimal choice, as it offers the best compromise between the available PV power, the number of operating hours, and the demand from the co-generators across current and future PV expansion scenarios.

Internal identifier: EC-JRC/IPR/2026/OP/3317-PIN

2.1.1. Purpose

Main nature of the contract: Supplies

Main classification (cpv): 42980000 Gas generators

2.1.2. Place of performance

Country: Italy

Anywhere in the given country

Additional information: Please consult the procurement documents.

2.1.3. Value

Estimated value excluding VAT: 1 100 000,00 EUR

2.1.4. General information

Additional information: This prior information notice announces the intention of the contracting authority to publish a future call for tenders. No other information or documents are available at this stage. Interested economic operators are invited to subscribe at the link <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/tender-details/a2c207c5-43fe-42dc-9a1b-05e03990752c-PIN> in order to get notified when the contract notice and all the procurement documents, including the tender specifications, are published.

Legal basis:

Regulation (EU, Euratom) 2024/2509

3. Part

3.1. Part: PAR-0001

Title: Supply, Installation and maintenance of a PEM Electrolyser for Hydrogen Production at JRC Ispra

Description: The procurement entails the design, manufacturing, delivery, installation, and commissioning of a Proton Exchange Membrane (PEM) electrolysis system for hydrogen production at the JRC Ispra site. The core of the system is a 50 Nm³/h electrolyser (which must be upgradable to 100 Nm³/h) that delivers hydrogen at an outlet pressure of 30 barg. The main equipment will be delivered in a containerized/skid version divided into three specific areas: a control panel area with the AC/DC converter, a water purification unit, and an ATEX-classified area containing the stacks and gas purification treatment. In addition to the containerized unit, the scope of supply includes several external components: - An MV/LV transformer - A thermal management system (dry cooler) - A low-pressure hydrogen storage system consisting of a cylinder rack at 30 bar with a total volume of 5 m³ - A gas blender installed on the outlet piping after the storage. Finally, the procurement includes a comprehensive service package covering the Factory Acceptance Test (FAT), Site Acceptance Test (SAT), ATEX verification, staff training, two years of spare parts, and a 3-year maintenance contract. Reason for Purchasing The primary objective of this procurement is to produce green hydrogen by harnessing the renewable energy generated from the JRC Ispra site's internal photovoltaic (PV) plant. Currently, the site has a 1.35 MWp PV installation, which is planned to be expanded to 2 MWp and eventually 3 MWp in the future. Instead of using battery systems, the JRC intends to use the excess energy from this PV plant to power the electrolyser for self-consumption. The hydrogen produced will then be blended into the natural gas pipeline (up to a 10% volume blend) to feed the site's co-generators. A dedicated technical sizing analysis concluded that a modular 2x250 kW electrolyser is the optimal choice, as it offers the best compromise between the available PV power, the number of operating hours, and the demand from the co-generators across current and future PV expansion scenarios.

3.1.1. Purpose

Main nature of the contract: Supplies
Main classification (cpv): 42980000 Gas generators
Additional classification (cpv): 45259000 Repair and maintenance of plant
Additional classification (cpv): 45310000 Electrical installation work
Additional classification (cpv): 71320000 Engineering design services
Additional classification (cpv): 24111600 Hydrogen
Additional classification (cpv): 45251100 Construction work for power plant
Additional classification (cpv): 45253100 Demineralisation plant construction work
Additional classification (cpv): 45255800 Gas-production plant construction work
Additional classification (cpv): 45317200 Electrical installation work of transformers
Additional classification (cpv): 51100000 Installation services of electrical and mechanical equipment

3.1.2. Place of performance

Country: Italy

Anywhere in the given country

Additional information: Please consult the procurement documents.

3.1.3. Duration

Duration: 48 Months

3.1.4. Value

Estimated value excluding VAT: 1 100 000,00 EUR

3.1.5. General information

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

3.1.6. Procurement documents

Ad hoc communication channel:

Name: Funding and Tenders Portal

URL: <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/tender-details/a2c207c5-43fe-42dc-9a1b-05e03990752c-PIN>

3.1.8. Techniques

Framework agreement:

No framework agreement

3.1.9. Further information, mediation and review

Review organisation: Court of Justice of the European Union

8. Organisations

8.1. ORG-0001

Official name: European Commission, DG JRC - Joint Research Centre

Registration number: COM

Department: JRC.R - Operations and Support Management

Postal address: Via Enrico Fermi 2749

Town: Ispra (VA)

Postcode: I-21027

Country subdivision (NUTS): Varese (ITC41)

Country: Italy

Email: jrc-ispra-dir-r-procurement@ec.europa.eu

Telephone: +32 2 299 11 11
Internet address: <https://ec.europa.eu/jrc/>

Roles of this organisation:

Buyer

8.1. ORG-0002

Official name: Court of Justice of the European Union

Registration number: CURIA

Postal address: Rue du Fort Niedergrünewald

Town: Luxembourg

Postcode: L-2925

Country subdivision (NUTS): Luxembourg (LU000)

Country: Luxembourg

Email: GC.Registry@curia.europa.eu

Telephone: +352 4303-1

Internet address: <http://curia.europa.eu>

Roles of this organisation:

Review organisation

8.1. ORG-0003

Official name: European Commission

Registration number: EUCOM

Postal address: Mondrian (CDMA), Rue du Champ de Mars 21

Town: Brussels

Postcode: B-1050

Country subdivision (NUTS): Arr. de Bruxelles-Capitale/Arr. Brussel-Hoofdstad (BE100)

Country: Belgium

Email: jrc-ispra-dir-r-procurement@ec.europa.eu

Telephone: +32 2 299 11 11

Internet address: <https://commission.europa.eu/>

Roles of this organisation:

TED eSender

Notice information

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