

Large scale operational validation and upscaling of state-of-the-art (Generative) AI tools and models powering a next generation digital energy system

Horizon Europe

CODE	SCOPE
HORIZON-CL5-2027-02-D3-24	International
LOCATION	STATUS
Europe	Pending
PROGRAM	CURATED BY
Horizon Europe	Marlene Faria
GENERATED AT	
September 25, 2026	

Financial Details

SUPPORT TYPE	MAXIMUM FUNDING RATE
Non-Refundable	100%
BUDGET	ELIGIBLE PROJECT VALUE
20M€	Up to 10M€

Dates & Deadlines

PUBLICATION DATE

September 25, 2026

OPENING DATE

December 3, 2026

Application Phases

- Fase única: March 31, 2027 at 03:00 PM

Objectives

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This topic aims to accelerate the digitalisation of the European energy system through the large-scale validation and deployment of advanced Artificial Intelligence (AI) and Generative AI solutions for energy networks. Projects should improve real-time grid management, forecasting, balancing, consumer engagement and operational efficiency while ensuring secure, sustainable and resource-efficient AI applications. The call supports the development of a next-generation digital energy system powered by AI and aligned with EU digital and energy strategies.

Funding

The topic has an indicative budget of approximately €20 million , with the European Commission expecting to fund around 2 projects . The indicative EU contribution is approximately €10 million per project . Funding is provided through a Horizon Europe Innovation Action (IA) .

Eligible Expenses

- Personnel Costs
- Travel costs
- Equipment costs
- Other goods, works and services costs
- Subcontracting
- Indirect Costs

Eligibility

Eligible Sectors

- Industry
- Energy & Environment
- ICT & Software

Company Typologies

- Micro
- Sme
- Small Mid-Cap
- Mid-Cap

- Large
- Private non-profit entities
- Public entities

Application Mode

- Consortium / Copromotion

Action Types

- Innovation Action

EU Programme Details

CALL ID

HORIZON-CL5-2027-02-D3-24

CLUSTER

Cluster 5: Climate, Energy and Mobility

DESTINATION

Destination 3 : Sustainable, secure and competitive energy supply

SUBMISSION MODE

Single-stage

EU CONTRIBUTION

around 10,000,000 EUR per project

EXPECTED PROJECTS

2

FUNDING RATE RULE

Up to 70% for Innovation Actions (up to 100% for non-profit entities only)

Official Links

Official Regulation:

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/HORIZON-CL5-2027-02-D3-24?order=DESC&pageNumber=1&pageSize=50&sortBy=relevance&keywords=HORIZON-CL5-2027-02-D3-24&isExactMatch=true&status=31094501,31094502,31094503>

Grantavia page: <https://grantavia.com/en/incentives/large-scale-operational-validation-and-upscaling-of-state-of-the-art-generative-ai-tools-and-models-powering-a-next-generation-digital-energy-system>

Schedule a meeting: <https://calendly.com/sandra-cardoso-epsa/reuniao>