

URGENT - Belgian SME seeks industrial companies and energy providers to join EU project on smart energy management (CETPartnership Joint Call 2025)

Summary

Profile type

Research & Development Request

Company's country

Belgium

POD reference

RDRBE20250915008

Profile status

PUBLISHED

Type of partnership

**Research and development
cooperation agreement**

Targeted countries

- **United Kingdom**
- **Switzerland**
- **Ireland**
- **Hungary**
- **Malta**
- **Italy**
- **Portugal**
- **Lithuania**
- **Poland**
- **Iceland**
- **Germany**
- **Norway**
- **Austria**
- **Romania**
- **Finland**
- **Netherlands**
- **Slovakia**
- **Denmark**
- **Sweden**
- **France**
- **Latvia**

- Czechia
- Spain
- Estonia
- Canada
- Israel
- India
- South Korea
- Tunisia
- Türkiye

Contact Person

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Term of validity

16 Sep 2025**16 Sep 2026**

Last update

16 Sep 2025

General Information

Short summary

A Belgian SME is preparing a proposal for the CETPartnership Joint Call 2025 (challenge CM2025-01). The project will develop an advanced multi-vector energy management system for industrial clusters by combining Reinforcement Learning (RL) and Digital Twin (DT) technologies.

The aim is to optimise energy exchanges between factories, local storage, and the grid, increasing efficiency, reducing renewable energy curtailment, and enhancing flexibility for future grid scenarios.

Full description

The project goes beyond the state of the art by enabling multi-vector energy management (electricity, heat, hydrogen, etc.) across industrial clusters.

By combining RL with DT, the system will:

- ** Continuously learn from operational data and simulations
- ** Optimise energy flows between factories, local storage, and the grid
- ** Increase self-consumption of renewable energy
- ** Reduce energy costs and curtailment
- ** Provide flexibility services to the grid

This project will provide a step forward in industrial decarbonisation, operational resilience, and energy transition readiness.

The Belgian SME will act as coordinator and will coordinate proposal writing and submission.

They are currently seeking additional industrial and energy partners:

- ** Industrial companies or industrial park operators to act as pilot sites
- ** Energy companies/utilities (DSOs or TSOs) to provide expertise and validate flexibility services

Consortium must consist of at least 3 partners from 3 different countries participating in CETPartnership Joint Call 2025.

Timeline:

- ** Internal deadline to identify partners: 30 September 2025
- ** Official pre-proposal deadline: 9 October 2025
- ** Full proposal deadline (stage 2): 12 March 2026 (invited consortia only)

Advantages and innovations

Technical specification or expertise sought

Stage of development

Sustainable Development goals

- **Goal 11: Sustainable Cities and Communities**
- **Goal 13: Climate Action**
- **Goal 7: Affordable and Clean Energy**
- **Goal 9: Industry, Innovation and Infrastructure**
- **Goal 17: Partnerships to achieve the Goal**

IPR Status

IPR Notes

Partner Sought

Expected role of the partner

Type of partners sought

1 -- Industrial companies or industrial park operators (e.g. chemicals, steel, automotive, manufacturing)
Role: act as end-user pilot sites for deployment and validation of the solution

2 -- Energy companies / utilities (DSOs or TSOs)
Role: contribute expertise in integration with the energy system and validation of flexibility services

Partner requirements:

- ** Willingness to actively participate in piloting or validating the solution
- ** Provide relevant facilities and/or operational data for testing
- ** Commitment to collaboration within an EU-funded R&I project
- ** Located in EU or CETPartnership participating countries

Type of partnership

Research and development cooperation agreement

Type and size of the partner

- **SME <=10**
- **Big company**
- **SME 11-49**
- **SME 50 - 249**

Call Details

Framework program

Horizon Europe

Call title and identifier

CETPartnership Joint Call 2025 (CM2025-01)

Submission and evaluation scheme

Anticipated project budget

Coordinator required

No

Deadline for EoI

Deadline of the call

30 Sep 2025

9 Oct 2025

Project duration in weeks

Web link to the call

<https://cetpartnership.eu/calls/joint-call-2025>

Project title and acronym

AI4FlexHub

Dissemination

Technology keywords

Market keywords

- **08002001 - Energy management**
- **02007016 - Artificial intelligence related software**

Targeted countries

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- **Israel**
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- **South Korea**
- **Tunisia**
- **Türkiye**

Sector groups involved

- **Renewable Energy**
- **Energy-Intensive Industries**