



TOWARDS A WALLONIA, LAND OF ENERGY COMMUNITIES

A no-brainer for the Strategic Innovation Initiative (SII) focused on renewable energy communities: it needs you!

Joining it means accessing the added value of a consortium connected to research, facilitating innovation and open the door to financial aid.

CETWA? It's you!



Why an initiative on energy and technology communities?

In a world requiring an **urgent energy transition**, academic research has already made significant advances in energy communities, sometimes reaching **high technology readiness** levels and real opportunities for the economic deployment of innovations. However, the adoption of this research by companies remains difficult, often for financial reasons.

By moving away from the **mono-technology** format, energy communities can also meet the needs of global energy and decarbonization advice. Indeed, they are capable of meeting the challenge and leading to innovative solutions integrating the **coupling** of technologies. Upstream, it is therefore important to **boost** Walloon industry to bring conversion and storage technologies to the market and thus cover the entire value chain.

This is the objective pursued by the IIS CETWA (Walloon Energy and Technology Communities): to develop renewable energy communities in Wallonia to accelerate the energy transition and serve as a lever for economic development in the service of the well-being of the population.



The main areas of work

- **Creation of a partnership framework** (community of actors covering the value chain and collaborating on innovative projects) with the sharing of testing infrastructures and living labs.
- **Establishment of an integrated and strategic management** of the exploitation of the results of the to strengthen their impact on the Walloon economy.
- **Promoting** renewable energy communities in IIS partners and their expertise and highlighting exemplary achievements.
- **Improvement** of the presence of actors in European projects.



CETWA in concrete terms

CETWA covers **energy conversion, storage and distribution** technologies, integrated energy systems and their management, CO2 capture and utilization techniques, as well as regulatory and economic aspects and tools to support the development of energy communities. The IIS also encompasses spatial planning and aspects related to societal acceptance of the energy transition.

Due to the complexity of the field, both in terms of the number and type of actors present, bringing all the stakeholders around the table is a real challenge that takes time.

Supporting existing players to increase their power and helping the smaller ones to emerge are therefore essential prerequisites for bringing together an ecosystem where everyone can work together and **create synergies** between projects .

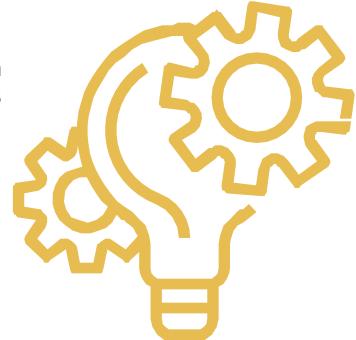


**HABITAT
ET ÉNERGIE**



SOME FLAGSHIP PROJECTS

- **ILES (Integrated Local Energy Systems):** portfolio of research projects focused on technological solutions for **energy communities**. It develops innovative technologies for energy conversion, storage and distribution, and explores technological couplings in an emulated environment. This work is supported by the **development of digital tools** for the design and management of energy systems.
- **TRL7 "Plug and Test":** is part of the context of the **decarbonization** of the Coeur de Hainaut territory and offers companies a state-of-the-art infrastructure to test and refine their technologies in the demonstration phase, minimizing risks before industrialization. This **innovation** scheme promotes cooperation with local and international customers, public and private, to fight against fuel poverty.
- **EFES (Enhanced Flexibility in Energy Systems):** portfolio organized into 13 doctoral theses, aims to work on the different R&D axes that will cover the challenges of the electrification of mobility and heat needs. The **13 sub-themes** are grouped into 2 clusters of projects: energy storage and conversion systems for increased system flexibility energy communities and energy planning, on the other hand.



THE MAIN ACTORS OF THE IIS CETWA:

- **Leader:** University of Mons
- Companies, research centres, universities and colleges, public authorities and associations, active in the field of energy communities. See **next pages** for complete list of the actors !



Learn more

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Contacts

Marc FRÈRE

✉ marc.frere@umons.ac.be

Emilie COURBON

✉ emilie.courbon@umons.ac.be



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SCANNEZ-MOI
S3.wallonie.be



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S3 Wallonne
Stratégie de Spécialisation
Intelligente



CONTACTEZ-NOUS
S3.economie
@spw.wallonie.be