

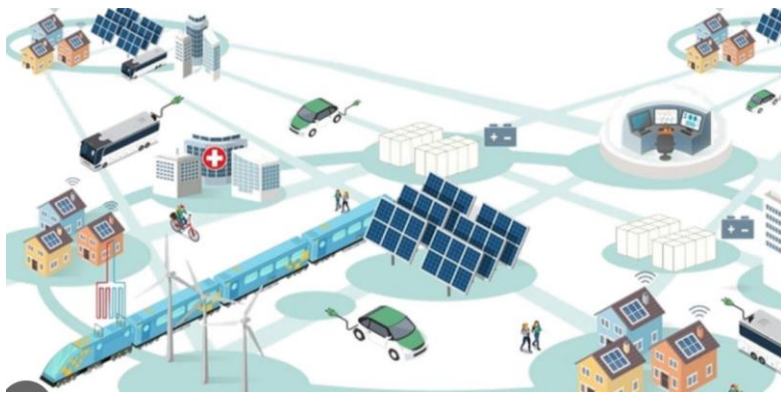
# Research topic: Analyzing the role of industrial energy communities for the energy transition (LIVEN4)

- Research line: Sustainability modelling for the ecological transition
- Research group: Sostenipra

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Decentralization of the energy system is a pathway to reach a sustainable energy transition. Industrial energy communities (IEC) are an example of decentralized systems. However, **more information is needed on the viability of different technological and management options** to encourage this type of industrial symbiosis.

In this Master Thesis, the student will **analyze the viability of scenarios of management of an industrial Energy community**. The case study is the Industrial Area in Can Salvatella, Barberá del Vallés.

The student will work within the **LIVEN project**, where we co-develop with decision-makers and stakeholders open access software to **assess the socio-environmental impacts of the energy transition** in Spain at national, regional and local levels. LIVEN has the form of a living lab with participants from different sectors and an international advisory board.

**Main goal: Study the viability of technological and management scenarios for an industrial energy community**

## MAIN TASKS:

- 1) Literature review about industrial symbiosis and energy communities
- 2) Creating a database on potential Energy production and use with data provided by the city government.
- 3) Assessing the Energy viability and Environmental impacts of different scenarios of implementation for the IEC
- 4) Write a peer-review paper for submission in a peer-review journal.