

# Research topic: Georeferencing impacts of the energy transition (LIVEN2)

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

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The **environmental impacts of the energy transition** are often not studied and when they do they lack a **geographical reference**, a key factor of environmental impacts.

In this Master Thesis, the student will analyze the environmental impacts of energy scenarios of the **Spanish National Plan for Energy and Climate (PNIEC)** with a regionalized lens. The student will **disaggreagate on-site impacts from supply chain impacts** and will analyze their impacts.

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: Assess regionalized environmental impacts of background and foreground systems involved in Spain's energy transition**

## MAIN TASKS:

- 1) Literature review on regionalized life cycle inventories of energy technologies
- 2) Create regionalized Life Cycle Inventories in Spain using the LIVEN data base.
- 3) Perform a regionalized Life Cycle Impact Assessment of different PNIEC energy scenarios.
- 4) To write a peer-review paper for submission in a peer-review journal.