ECOLOOP

Optimization of renewable energy sources combination in rural areas to create positive effects in air quality, biodiversity, and soil health.

ECOLOOP develops and demonstrates a set of solutions to optimise the combination of distributed energy renewable sources in rural areas, meeting the local energy needs, while generating positive effects on air quality, biodiversity and soil health.

ECOLOOP's multidimensional approach addresses the interrelated challenges of **energy, biodiversity, and rural development:**

1. **ENERGY:** ECOLOOP seeks to create an energy ecosystem that meets local demands while promoting energy independence, resilience, and environmental sustainability in rural communities.
2. **BIODIVERSITY:** ECOLOOP develops innovative agricultural protocols and advancing bioproducts to enhance sustainability and circularity, generating positive effects on biodiversity and soil health.
3. **SOCIAL:** ECOLOOP fosters regional development in rural areas by creating new opportunities for local farmers and foresters to enhance economic growth and stability in rural communities.

ECOLOOP provides and demonstrates a set of 7 innovations:

- ECOLOOP - Biogas Production
- ECOLOOP - RES Integration
- ECOLOOP - Soil Health
- ECOLOOP - Decision Support System
- ECOLOOP - CO_2 Sequestration
- ECOLOOP - Farmers Support
- ECOLOOP - Soil Living Lab

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END DATE *September 2027*

PROJECT COORDINATOR: etra I+D

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