



ÉCOLOOP

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

etra I+D

genia
bioenergy



UNIVERSITAT
POLITÈCNICA
DE VALÈNCIA

IRI UL

albena

FERTINAGRO
BIOTECH

AVA

ASSOCIACIÓ VALENCIANA
D'AGRICULTORS
A S A J A



TRAKIA UNIVERSITY
STARA ZAGORA

FOREKO

INDEREN

KOLEKTOR



Eesti Maaülikool
Estonian University of Life Sciences

Fibenol

BIOMASA

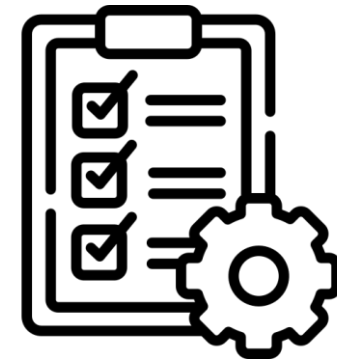


Kmetijski inštitut Slovenije
Agricultural Institute of Slovenia

ECOLOOP at a glance

ECOLOOP develops and demonstrates a set of solutions to optimise the **combination of distributed energy renewable sources in rural areas**, generating positive effects on **air quality, biodiversity and soil health** while contributing to gender equality and climate resilience and adaptation.

- HORIZON-CL5-2022-D3-02-07 (IA): Renewable energy incorporation in agriculture and forestry
- 14 partners from 4 EU countries - 4 pilot sites
- Total budget: 9,1 M€ - Total funding: 7,3 M€
- Start date: 01/10/2023 - End date: 30/09/2027



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



ENERGY: ECOLOOP creates an **energy ecosystem to meet local demands** while promoting energy independence and environmental sustainability.



BIODIVERSITY: ECOLOOP develops **innovative agricultural protocols and advancing bioproducts**, generating positive effects on biodiversity and soil health.



SOCIAL: ECOLOOP **fosters regional development in rural areas by creating new opportunities** to enhance economic growth and stability in rural communities.

Pilot sites

ESTONIA

Using the biomass as renewable source from novel short rotation forest plantations.



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SLOVENIA

Locally generated heat, improving environmental and social parameters within local communities.

SPAIN

Hybridisation between biogas, Agri-PV and geothermal energy applied to horticultural crops.

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BULGARIA

Optimize operations of biogas power plant and explore feedstock potential.

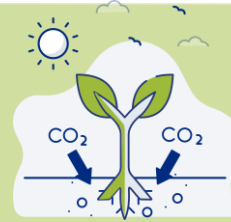
Key Exploitable Results



**KER 1: BIOGAS PRODUCTION
(GENIA)**



**KER 2: RES INTEGRATION
(INDEREN)**



**KER 5: CO2 SEQUESTRATION
TOOL (EULS)**



**KER 3: SOIL HEALTH
(FERTINAGRO)**



KER 4: ECOLOOP DSS



**KER 6: FARMERS SUPPORT
TOOL (IRI UL)**



KER 7: LIVING LAB (UPV)



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Thank You!

Connect with us:

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