

Optimization of Renewable Energy Sources combination in rural areas to create positive effects in air quality, biodiversity and soil health.

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ECOLOOP at a glance

- **Start date:** October 2023
- **End date:** September 2027
- **Duration:** 48 months
- **15 partners** from 4 EU countries
- **Goals:** 1. Optimizing biogas production; 2. Integrating various RES; 3. Developing innovative agricultural protocols and bioproducts; 4. Promoting regional development through innovative BMs.

Areas of attention

- **ENERGY:** To combine in an efficient and sustainable way different distributed renewable energy sources (biogas, biomass, agri-PV, geothermal), in rural areas.
- **BIODIVERSITY:** To develop innovative renewable-based agricultural protocols and advance bioproducts to increase sustainability and circularity while creating positive effects on biodiversity and soil health.
- **SOCIAL:** To foster regional development in rural areas while empowering farmers' and foresters' by means of innovative business models, financial instruments and policy recommendations.

Impact

To achieve **by 2030, 35bcm** of biogas and biomethane production, representing **10%** of the total EU gas demand.

To achieve **by 2050, 95bcm** which could cover **30-40%** of the total gas demand.

Such growth represents 420,000 jobs by 2030 and over 1 million jobs by 2050 in Europe.

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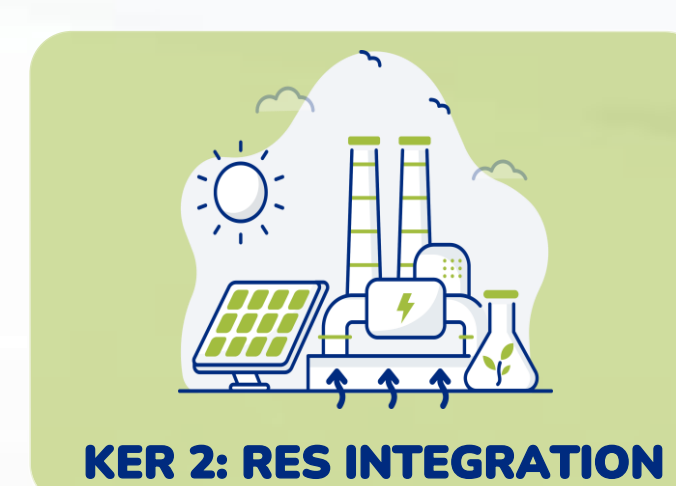
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 [@ecoloopEU](https://www.youtube.com/channel/UCv3v3v3v3v3v3v3v3v3v3v3)

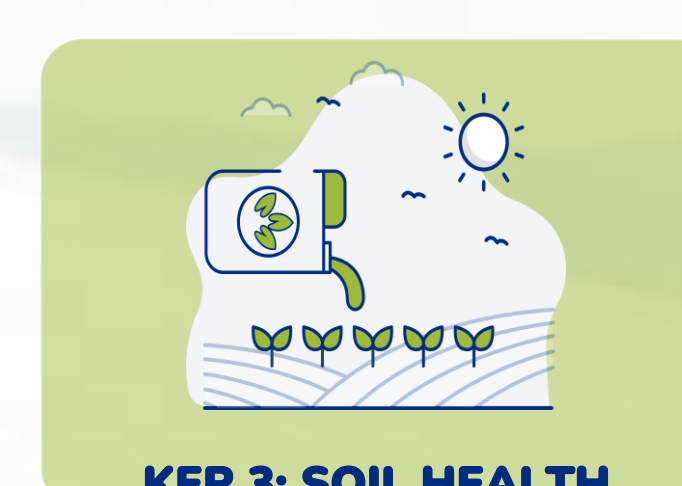
7 Key Exploitable Results



KER 1: BIOGAS PRODUCTION



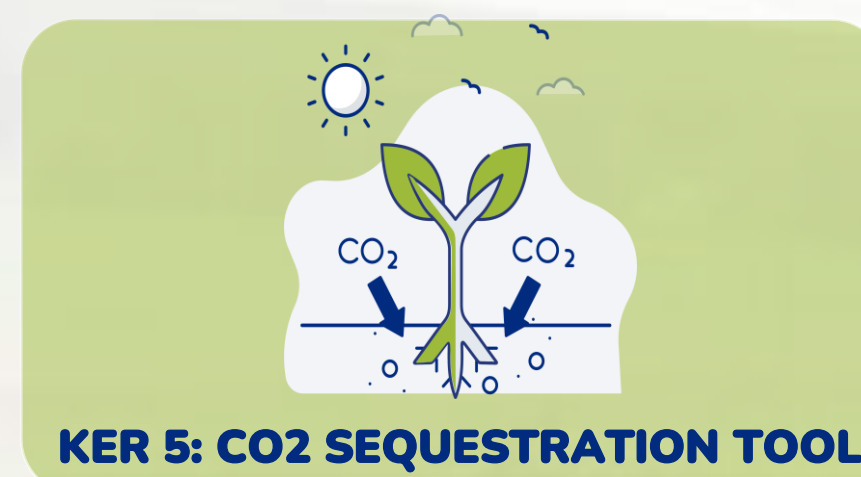
KER 2: RES INTEGRATION



KER 3: SOIL HEALTH



KER 4: ECOLOOP DSS



KER 5: CO2 SEQUESTRATION TOOL

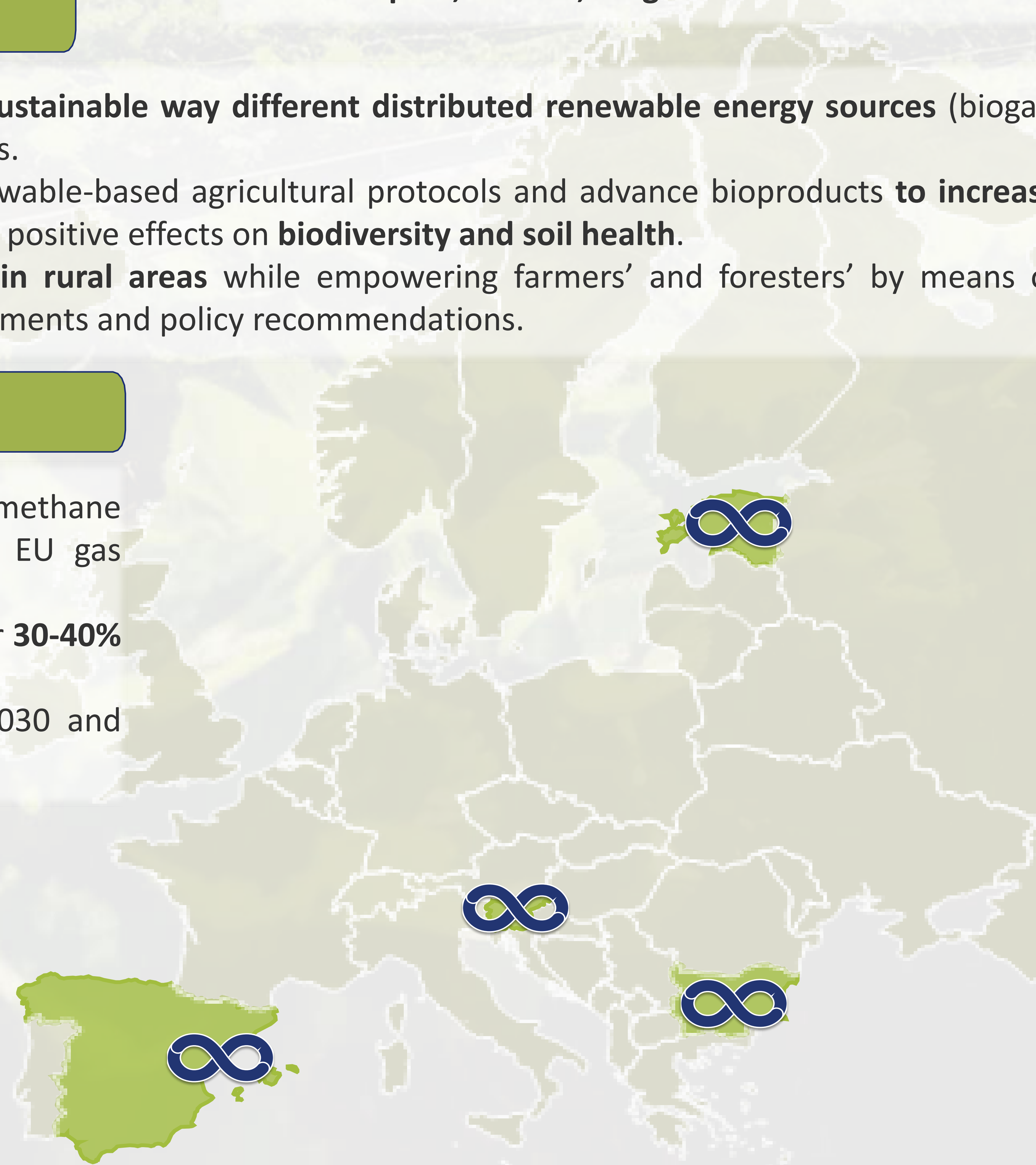


KER 6: FARMERS SUPPORT TOOL



KER 7: LIVING LAB

ECOLOOP solutions are demonstrated in **four pilot sites** located in **Spain, Estonia, Bulgaria and Slovenia**.



PROJECT COORDINATOR:

etra|+D

PARTNERS:

 BIOMASA

 albena

 Eesti Maaülikool
Estonian University of Life Sciences

 Zenia
bioenergy

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