



Practice Abstract 1: A Catalogue of Renewable Energy Measures to Reduce Environmental Impact on Farms



COUNTRY AND CLIMATIC ZONE

Pan-European

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3 BENEFITS OF THE PRACTICE

- Supports informed decision-making on renewable energy deployment in agriculture by mapping real impacts.
- Provides an evidence-based catalogue of mitigation measures to guide practitioners and policymakers.
- Promotes more sustainable, effective adoption of renewable energy sources through integrated environmental and technical assessment.

PRODUCTION SYSTEM

N/A

KEYWORDS



HarvRESt, Mitigation Strategies, Sustainability Assessment, Renewable Energy Integration

SUMMARY FOR PRACTITIONERS ON THE MAIN FINDING(S)/INNOVATIVE SOLUTION(S) – IN ENGLISH

The Mitigation Measures Catalogue will help farmers and advisors understand which renewable energy strategies work best for reducing environmental impact. It identifies gaps in current knowledge and evaluates the technical, economic, and ecological outcomes of different practices related to renewable energy sources.

LONGER DESCRIPTION – IN ENGLISH

The Mitigation Measures Catalogue being developed within the HarvRESt project serves as a foundational resource for understanding the effectiveness of renewable energy technologies in agriculture from a sustainability perspective.

Although the final results are still under development, the methodology is well defined. The HarvRESt project will begin by:

- Identifying key indicators and knowledge gaps in existing data on renewable energy sources in agriculture
- Evaluating the economic, environmental, and technical impacts of different applications of renewable energy sources across farming systems
- Analysing synergies and trade-offs involved in deploying renewable energy sources across varying scales and contexts

The outcome will be a comprehensive technical report detailing the sustainability contributions of renewable energy technologies. These findings will then be organised into a structured Mitigation Measures Catalogue that groups agronomic strategies and assesses their respective performance.

A core objective is to validate these findings with expert input, ensuring the relevance, accuracy, and usability of the catalogue by agricultural practitioners. This resource will help guide farm-level and policy-level decisions by clearly mapping which measures offer the most promising mitigation outcomes.

The catalogue aims to be both scientifically rigorous and practically useful – connecting data-driven assessment with on-the-ground decision-making.

ADDITIONAL DISSEMINATION AND COMMUNICATION MATERIAL(S)

Title/Description: HarvRESt Mitigation Measures Catalogue

URL: https://eu-cap-network.ec.europa.eu/projects/harnessing-vast-potential-res-sustainable-farming_en#practice-abstract--172944