

## Objective:

The main objective of HarvRESt is to improve the existing knowledge of options for reducing carbon emissions on farms, by maximising synergies between the integration of RES and sustainable agricultural practices.

## Integrating RES production into agriculture for the benefit of the farmers and climate

The integration of renewable energy sources on farms offers many benefits for both the farmers and the climate. With this approach farms will:

- ✓ become climate neutral
- ✓ optimise their production
- ✓ reduce their impact on natural resources
- ✓ reduce their impact on biodiversity
- ✓ provide energy services to communities
- ✓ diversify their economic income



**HarvRESt**  
Greener Farming with RES



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Food & Bio Cluster  
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**HarvRESt**  
Greener Farming with RES

**Harnessing the vast  
potential of RES  
for sustainable farming**



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## Enhancing the sustainable production of renewable energy on farms

About 30% of the world's energy is consumed within agri-food systems and about a quarter of the total energy is consumed during the production stage, being responsible for a third of agri-food systems' emissions of greenhouse gases. There is therefore a need to reduce the impact of energy consumption in this sector. For this purpose, HarvRESt has been launched with the aim of integrating Renewable Energy Sources (RES) into farms by improving the existing knowledge of options for reducing carbon emissions on farms.

## Main outcomes of HarvRESt



### An Agricultural Virtual Power Plant (AVPP)

Capable of running diverse scenarios and farm configurations. The tool will determine the best operational procedures for a given RES solution.



### A Decision Support System (DSS)

To make recommendations of the best RES integration solutions & operation procedures for optimized production based on data from AVPP.



### A Business Model Catalogue

Containing relevant innovative business models, considering financial schemes and incentives while identifying risks.

*” HarvRESt will merge the best things from the agricultural sector and the renewable energy sector. By addressing the barriers faced by farmers and leveraging innovative technologies, we aim to create a more sustainable and resilient future for European agriculture*

Roberto Lázaro Gastón  
**Project Coordinator & Technical  
Leader of HarvRESt**