

EXPECTED RESULTS

FEFTS INVENTORY

1700 FEFTS
identified and categorized

CURRENT ENERGY USE ASSESSMENT

400 farmers' needs
assessment **10-15 novel FEFTS**
adopted by practitioners (per region)



INTERACTIVE MULTI-ACTOR Innovation Network

- 3** Innovation workshops in each hub
- 3** Online workshops **3** Transnational workshops
- 1** Brokerage event **1** Consultation workshop



50 FEFTS Practice Abstracts

- 20** Open-field **10** Greenhouses **20** Livestock



POLICY GUIDELINES

On de-fossilisation of EU agriculture



AG-ENERGY PLATFORM

- 800** FEFTS deployment
- 800-1000** End-user material

AGIRO FOSSIL FREE



An EU research project (Horizon 2020 framework) | 1 October 2020 – 30 September 2023



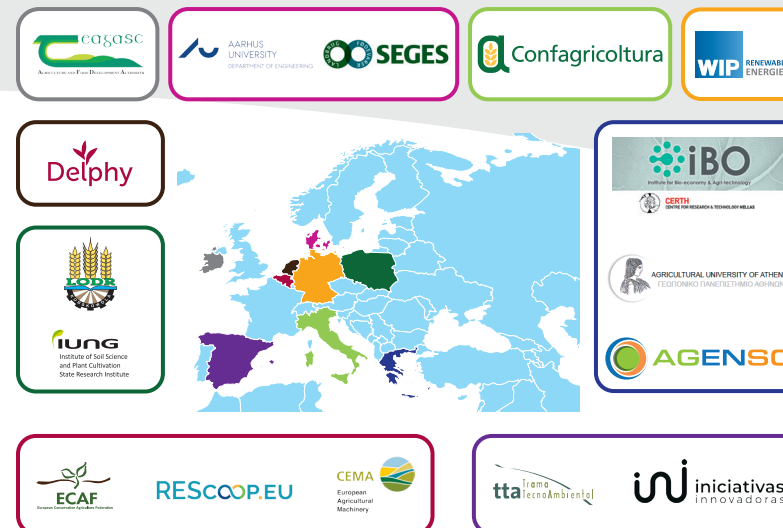
Success of the de-fossilization relies
on your **participation**



You farmer participate at the workshops
to provide us with your **feedback**



Add your innovative technology
into the **AgEnergy platform**



AGIRO FOSSIL FREE

*The path towards a fossil - free
EU agriculture*



Contact details

Thanos Balafoutis
Coordinator
a.balafoutis@certh.gr

Mirentxu Asín
Dissemination Officer
masin@iniciativas-innovadoras.es



AgroFossilFree H2020 Project



H2020_AgroFossilFree



AgroFossilFree Project



www.agrofossilfree.eu



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement ID 101000496



3-year CSA
starting Oct20



2 million €
funded by H2020

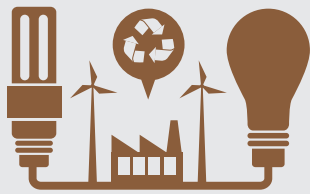


16 partners
from 9 EU countries

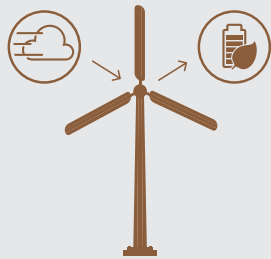
INTRODUCTION



Global agriculture relies on fossil resources for covering most of its energy needs and is a main energy consumer and greenhouse gases (GHG) producer.

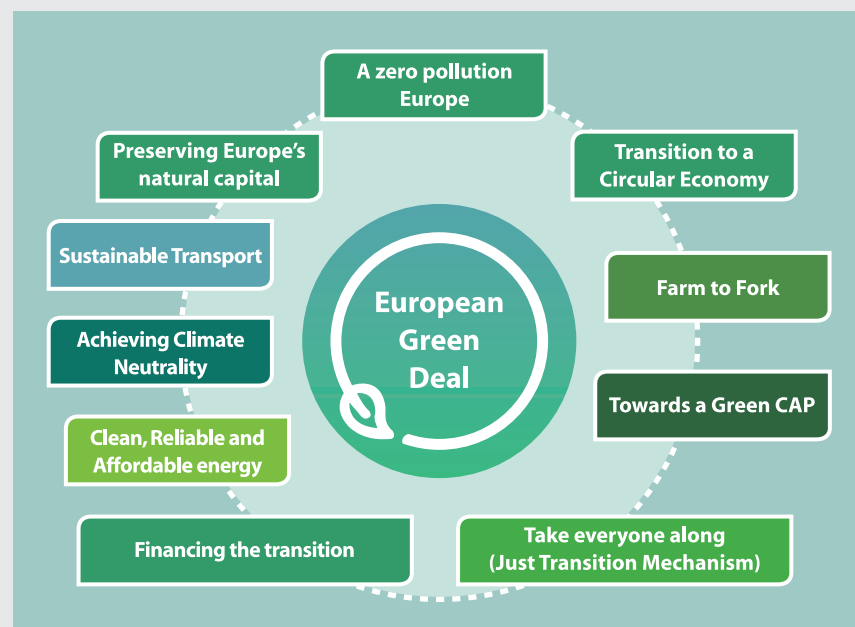


Novel technologies and strategies related to more sustainable energy production, efficient use and GHG emissions' reduction are already applied in most economic sectors with very positive results.



Agriculture was till recently not identified as a main application domain and therefore such technologies are not widely adopted by farmers.

But only when agricultural stakeholders gain knowledge and training on technological advancements in energy sector will agriculture be able to fully align with the related policies, frameworks (EU Green Deal) and sustainable food production practices.



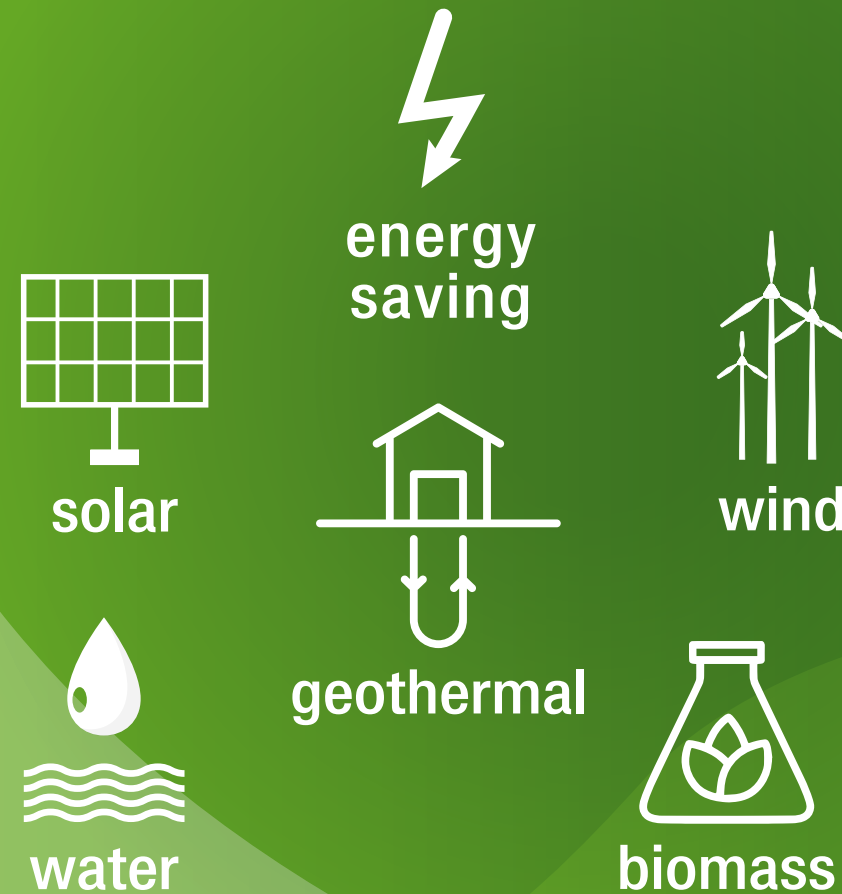
FEFTS

FEFTS (Fossil-Energy-Free Technologies and Strategies) refer to the tools that are required to address cleaner and more efficient energy production and use in agriculture.

Clean Energy Production (Photovoltaics, Solar thermal, Wind-turbines, Heat pumps, Solid biomass conversion, Biogas/biomethane production).

Energy Efficiency Improvements (Building Management Systems (BMS), Efficient maintenance of vehicles, Precision agriculture techniques, Precision livestock farming, Conservation agriculture).

Soil Carbon Sequestration (Crop rotation, Soil coverage, No/minimum tillage, Nutrient management, Crop diversification).



OBJECTIVE (goals)

To create a framework under which all core stakeholders will cooperate to evaluate and promote the currently available fossil-energy-free technologies and strategies (FEFTS) in EU agriculture to decrease in the short term and eliminate in the long run the use of fossil energy in open-field crop production and controlled environment agricultural constructions through:

- 01 **Assessment and evaluation** of the current energy use status in EU agriculture
- 02 **Identification** of existing needs and interests for the future farm energy profile
- 03 **Registration** of available FEFTS
- 04 **Exploration** of financing tools (subsidies, loans, etc.) for agricultural de-fossilisation
- 05 **Production** of community-based ideas for FEFTS integration in regional and EU agriculture
- 06 **Creation** of the AgEnergy platform presenting available FEFTS
- 07 **Design** of a Decision Support Toolkit to propose optimal integrated solutions for EU farms
- 08 **Creation** of a FEFTS research roadmap
- 09 **Proposition** of policy guidelines to de-fossilize EU agriculture

