

Energetic and agronomic valorization of pruning residues from tree-crops

Riferimenti

Tipo di progetto

Gruppo Operativo

Acronimo

VENERE PLUS

Tematica

Gestione dei sottoprodotti agricoli

Information

Time frame

2020 - 2022

Durata

24 months

Partners (no.)

7

Regione

Puglia

Comparto

Olivicoltura

Localizzazione

ITF46 - Foggia

ITF47 - Bari

Costo totale

€500.000,00

Fonte di finanziamento principale

Programma di sviluppo rurale

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2014IT06RDRP020: Italy - Rural Development

Programme (Regional) - Puglia

Parole chiave

Climate and climate change

Farming/forestry competitiveness and diversification

Waste, by-products and residues management

Energy management

Project status

completed



Objectives

The use of pruning in energy conversion through pyrolysis results in the following outcomes:

- Avoiding residues burning in the open field, causing atmospheric pollution and fire risks.
- Developing a supply chain generating additional income and displacing the energy costs of several agricultural industries (such as olive oil mill).
- Pyrolysis allow obtaining not only energy but also a carbonaceous residue ("biochar") that can be used as a soil improver, very useful in carbon sequestration.
- Define and apply innovative agronomic technologies preserving soil fertility and its organic matter

Activities

The activities carried out within the project are:

- 1) Quantification of supply needs in pruning;
- 2) Mechanization and logistics of procurement of pruning;
- 3) Verification of the possibilities of energy valorisation of oil mill waste and by-products;
- 4) Evaluation of the requirements and technical characteristics of biomass energy conversion plants;
- 5) Evaluation of the environmental validity of the supply chain performance;
- 6) Development of a software platform for the integrated management of supply chain processes;
- 7) Executive planning and economic-financial analysis of the proposed technological solution.

Partenariato

Role	Azienda	Address	Telephone	E-mail
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Pratiche abstract