

Valorization of agricultural and forestry waste

Biochar production and applications: from soil amendment to bioprocess booster

REVINE

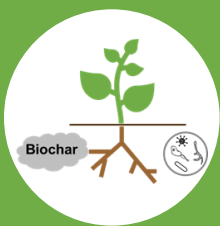
Regenerative agricultural approaches to improve ecosystem services in Mediterranean vineyards



Convert biomass of pruning waste in **biochar** in order to improve **carbon storage, vineyard performance and sustainability** in a **circular economy** perspective.

Studying the effect of biochar treatments on vine-associated **microbial communities**.

PNRR - AGRITECH



Study of the effect of **pyrolysis parameters** on the biochar efficacy as soil amendment (study of the effects on **plants and rhizosphere microbial communities**).

Joint Cooperation Agreement ENI SpA- ENEA



Development of a thermochemical process to produce **biochar** from **agricultural and forest wastes**.

NEST

Network for Energy Sustainable Technologies (Green Energies for the Future)



Evaluation of the effects of biochar amendments on **dark fermentation** process performances and microbial community;

Biochar boosts *in-situ* **bio-methanation** process for biological biogas upgrading.