A project overview



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The CODEVELOP-REPowerEU/1223/101 is funded by the European Union Recovery and Resilience Facility of the NextGenerationEU instrument, through the Research and Innovation Foundation.



A holistic solution for producing tailor-made biochar from woody waste, that encompasses smart and sustainable practices in manure application, leading to air quality improvement and bioeconomy growth.





- Collection and post-processing of municipal woody waste, vastly contributes to greenhouse gas (GHGs) emissions such as:
 - carbon dioxide (CO₂)
 - methane (CH₄)
 - nitrous oxide (N₂O)



Implementation of key agricultural activities that poorly affect air quality in the surrounding areas (odor nuisance and pollution) and global warming due to the emission of VOCs and GHGs. These activities include handling and storage of cattle manure in farms.





OBJECTIVES & ACTIVITIES

The project aims to address key environmental challenges in the agroecosystem of Cyprus by implementing a series of technical and scientific activities. These include the conversion of woody waste into biochar, a sustainable technological solution, for reducing volatile organic compounds in cattle manure operations.

The RE-GreenVOCs biochar can ultimately be used for:

- mitigating VOC emissions (air quality improvement) by mixing it with cattle manure
- enhancing soil fertility (optimize soil health) by mixing it with agriculture manure for optimizing farm cultivation

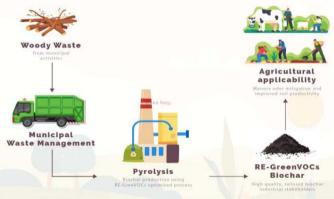
Further to the above, the project aims to assess current management practices by municipalities for woody waste and propose improvements towards sustainability. In addition, the project introduces Internet of Things (IoT) technologies such as smart sensors that will enable the real-time collection and monitoring of air quality and soil fertility data towards evaluating the project impact.

The project is fully compatible with the «Green Transition» Thematic Priority and in particular with the targets of the REPowerEU Plan – «Affordable, secure and sustainable energy for Europe».



THE PROJECT VALUE CHAIN

The RE-GreenVOCs project aims to advance smart and eco-friendly practices to boost the efficient use of resources, promote circular economy, mitigate climate change, reverse biodiversity loss, and reduce pollution.







A sustainable future.