About the project

Dendromass4Europe aims at establishing sustainable, Short Rotation Coppice (SRC)-based, regional cropping systems for agricultural dendromass production on marginal land. The dendromass produced in SRC (ligneous biomass, bark and wood) will be supplied to dedicated bio-based value chains which will create additional job opportunities in rural areas. The supply chains will be tailored for optimum efficiency of supply logistics and for reducing CO₂ emissions. Innovative bio-based materials will help to replace fossil-based materials.

Objectives

- Establishment and expansion of 2500 ha of short rotation poplar plantations on marginal or on currently unused agricultural land in rural areas
- Market introduction and the application of 4 new Bio-Based Materials (NBBM) linked to the establishment of 4 new bio-based value chains
- Reduction of dendromass costs through the adaptation and optimisation of innovative harvesting and storage systems
- Implementation of dedicated monitoring and applied-level research to ensure plantation quality, production stability, optimum poplar variety selection and risk avoidance
- Validation of the expected positive ecological impacts by assessing the life cycles of the NBBMs along the value chains

New bio-based materials

The various activities of the D4EU project consortium aim to generate profit for the rural economy on a regional scale through value adding processes and marketing activities that will allow access for innovative biobased materials to specific consumer markets. As a wood based material, a functionally adapted lightweight board for furniture production is planned. Three bark based materials, an eco-fungicidal moulded fibre pulp for packaging, bark enriched wood-plastic composite profiles and bark enriched wood-plastic composite granulates are planned.

D4EU
Securing Sustainable Dendromass Production with Poplar Plantations in European Rural Areas

### Partners

- Consiglio Nazionale Delle Ricerche (Italy)
- Daphne - Institut of Applied Ecology (Slovakia)
- Energochemica Trading A.S. (Slovakia)
- Ikea Industry Slovakia S.R.O. (Slovakia)
- Kompetenzzentrum Holz GmbH (WOOD K Plus) (Austria)
- Okoforestino KFT. (Hungary)
- Pulpack Sp. z o. o. Sp. k. (Poland)
- Sveriges Lantbruksuniversitet (Sweden)
- Technische Universität Dresden (Germany)

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