

Innovative pellets made of forest and/or agricultural biomass



INOPELET

Innovative pellets made of forest and/or agricultural biomass and wood residue to reduce dependence on fossil fuels and contribute to environmental protection through reduction of CO₂ emissions

The main goal of the project is to develop a pellet based on innovative pretreatments of forest and/or agricultural biomass and wood residue from veneer production that would meet the highest qualitative standards and be more energy efficient than pellets that can be found on the market today, and which could be used in heating systems of households and smaller public institutions. Pellets made from biomass, as the most favorable form of solid biofuels, are defined as a compressed cylindrical product with a high calorific value that, when used, provides autonomy similar to natural gas and heating oil. The raw materials that will be used in the project activities are forest biomass of lower quality classes (oak, ash and poplar), harvest residues of agricultural crops (corn, soybeans and sunflower) and wood residues from veneer production. Biomass pretreatment will produce pellets with a reduced content of mineral substances (ash), increased calorific value and better various physical and mechanical properties with the aim of achieving the highest market quality levels. Furthermore, with its improved high-energy properties, inopellets will reduce the mass and volume consumption of the necessary fuel during the heating season, which would consequently reduce transportation costs and the necessary storage space. In addition, the improved pellets would be more resistant to moisture, which would reduce the risk of quality loss and facilitate the conditions for its storage.

PLUS DE DÉTAILS

DÉFI CONCERNÉ	DOMAINE	TYPE DE SOLUTION
6. Faire grandir la bioéconomie basée sur la forêt à travers les circuits courts et les produits à valeur ajoutée	Recherche et développement	Produits biosourcés, économie circulaire
MOTS-CLÉS	SOLUTION DIGITALE	INNOVATION
innovative; biomass; pretreatment; pellet	Non	Oui
PAYS D'ORIGINE	ECHELLE D'APPLICATION	DÉBUT ET FIN D'ANNÉE
Croatie	Transfrontalière/Multilatérale	2020 -

INFORMATIONS DE CONTACT

PROPRIÉTAIRE OU AUTEUR

Bjelin Otok Ltd

Ines Baričević

ines.baricevic@bjelin.hr

<https://www.bjelin.com/en/company>

RAPPORTEUR

Competence Centre Ltd

Ivan Ambroš

ambros@cekom.hr

REFERENCES AND RESOURCES

SITE WEB PRINCIPAL

<https://www.bjelin.com/en/company>

SITE WEB DU PROJET

<https://www.inopelet.hr/hr/>

RÉFÉRENCE DU PROJET

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RESSOURCES

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LOGO DE LA BONNE
PRATIQUE

LOGO DE L'ORGANISATION
PRINCIPALE

BJELIN

PROJET SOUS LEQUEL CETTE FICHE D'INFORMATION A été CRéÉE

Rosewood 4.0

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

