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 CO_2 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.

MAI MULTE DETALII

PROVOCARE ABORDATă

6. Creșterea bioeconomiei forestiere prin utilizarea circulară și produse cu valoare adăugată

DOMAIN

Cercetare și dezvoltare

TIP DE SOLUȚIE

Produse circulare, pe bază de bio

CUVINTE CHEIE

innovative; biomass; pretreatment; pellet

SOLUȚIE DIGITALă

Nu

INOVAȚIE

Da

ȚARA DE ORIGINE

Croația

SCARA DE APLICARE

Transfrontalier / multi-lateral

ANUL DE îNCEPUT șI DE SFâRșIT

2020 -

DATE DE CONTACT

PROPRIETAR SAU AUTOR

Bjelin Otok Ltd

Ines Baričević

ines.baricevic@bjelin.hr

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

REPORTER

Competence Centre Ltd

Ivan Ambroš

ambros@cekom.hr

REFERENCES AND RESOURCES

PAGINă WEB

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

WEBSITE PROJECT

https://www.inopelet.hr/hr/

REFERINță PROIECT

--

RESURSE

--

DESPRE EXEMPLUL DE BUNă PRACTICă

A PRINCIPALEI ORGANIZAțII

BJELIN

PROIECTUL îN CADRUL CăRUIA A FOST CREATă ACEASTă FIșă INFORMATIVă

Rosewood 4.0

DATA POSTăRII

24 Mar 2023

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 862681

A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY