

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.

Детальніше

Виклик вирішено	Домен	Тип рішення
6. Розвиток лісової біоекономіки за рахунок кругового використання та виробництва з доданою вартості	Дослідження й розробки	Циркулярна, біо-продукція
Ключові слова	Цифрові рішення	Інновація
innovative; biomass; pretreatment; pellet	ні	Так
Країна походження	Масштаби застосування	Початок і кінець року
Хорватія	Транскордонний / багатосторонній	2020 -

Контактні дані

Власник або автор	Репортер
Bjelin Otok Ltd	Competence Centre Ltd
Ines Baričević	Ivan Ambroš
ines.baricevic@bjelin.hr	ambros@cekom.hr
https://www.bjelin.com/en/company	

REFERENCES AND RESOURCES

Основний веб-сайт	Ресурси
https://www.bjelin.com/en/company	--
Веб-сайт проекту	
https://www.inopelet.hr/hr/	
Посилання на проект	
--	

логотип кращої
практики

логотип основної
організації

BJELIN

Краща практика розроблена в рамках проекту
Rosewood 4.0

Дата публікації
24 бер 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

