

# 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<sub>2</sub> 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.

## VIŠE DETALJA

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### IZAZOV

6. Rast bioekonomije temeljene na šumi kroz kaskadnu uporabu i proizvode dodane vrijednosti

### KLJUČNE RIJEČI

innovative; biomass; pretreatment; pellet

### ZEMLJA PODRIJETLA

Hrvatska

### DOMENA

Istraživanje i razvoj

### DIGITALNO RJEŠENJE

Ne

### PODRUČJE PRIMJENE

Prekogranična / multilateralna

### VRSTA RJEŠENJA

Kružno, bio-bazirani proizvodi

### INOVACIJA

Da

### POČETAK I KRAJ GODINE

2020 -

## KONTAKT PODATCI

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### VLASNIK ILI AUTOR

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## REFERENCES AND RESOURCES

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### GLAVNA WEB STRANICA

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

### WEB STRANICA PROJEKTA

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

### REFERENCA PROJEKTA

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### IZVORI

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LOGO PRIMJERA DOBRE  
PRAKSE

LOGO GLAVNE ORGANIZACIJE

BJELIN

PROJEKT U OKVIRU KOJEG JE INFORMATIVNI LIST KREIRAN

Rosewood 4.0

DATUM UNOSA

24 Mar 2023



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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

