Thermovoltaic Biomass Dryer

BASE has developed Cogen'Air, the first Thermovoltaic solar panel, capable of producing electricity and heat simultaneously. While a conventional solar panel converts only about 15 to 20% of the solar energy received into electricity, Cogen'Air produces 10% more electricity and 3 times more heat, for a total efficiency of more than 60%. This Thermovoltaic panel is therefore 4 times more efficient than a conventional solar panel. BASE designs and markets heat and electricity production solutions for agricultural drying activities and biomass drying activities. It also markets solutions for the energy efficiency of buildings: heating support, electricity and domestic hot water production. The main objectives are: - Provide innovative and cost-effective solar solutions to contribute to a sustainable society. - Guarantee a drying quality superior to that of open-air drying and allow the production of a fuel with constant characteristics specific to the needs of boilers. - Improve the value of wood by preserving the resource in particular. - Reduce stocks and the mass to be transported. - Achieve a higher PCI, reduce wood consumption, increase boiler life - Generate income from photovoltaic production. The dryers designed with Cogen'Air Thermovoltaic technology ensure a homogeneous and fast drying of the wood energy. The control system allows the dryer to operate optimally, based on numerous temperature and humidity sensors. These dryers make it possible to recycle wood waste and give it a second life. One of the BASE dryers is intended, for example, for the recovery and drying of crushed strains, dry chips that will then be marketed in supermarkets as firelighters. This product from the Cogen'Air drying process has a high PCI and is ideal for boilers. The electricity is resold and provides additional income to the operator.

PODROBNOSTI

IZVOR LESA

Rušitvena dela

TIP LESA

Okrogli les

VRSTA OBRAVNAVANEGA LESA

Woody biomass, waste

VPLIV NA OKOLJE IN BIODIVERZITETO

No impact: solar panels are installed at the wood energy processing site

VPLIV NA PRIHODKE

Reduction of logistics costs

POTENCIAL IZKORIŠČANJA

--

VOZLIŠČE

--

GOSPODARSKI VPLIV

Additional income from photovoltaic energy production

POTREBNO SPECIFIČNO ZNANJE

NA

POTENCIAL ZA MOBILIZACIJO

Technological innovation to increase the profitability of wood energy

TRAJNOST - VREDNOST

--

ENOSTAVNOST IZVEDBE

Easy

ENOSTAVNOST IZVEDBE - OCENJEVANJE

--

KLJUČNI PREDPOGOJI

NA

VRSTA DOGODKA, NA KATEREM JE BIL PREDSTAVLJEN TA BPI

--

VPLIV NA DELOVNA MESTA

NA

STROŠKI IZVEDBE (EURO - €)

--

VEČ PODROBNOSTI

IZZIV

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DOMENA

Sečnja in spravilo, infrastruktura, logistika

TIP REŠITVE

--

KLJUČNE BESEDE

--

DIGITALNE REŠITVE

No

INOVACIJA

Da

IZVORNA DRŽAVA

Francija

OBSEG UPORABE

Regionalni

ZAČETNO IN KONČNO LETO

2009 -

KONTAKTN PODATKI

LASTNIK OZ. AVTOR

veronique.oulha@base-innovation.com

POROČEVALEC

REFERENCES AND RESOURCES

SPLETNA STRAN

http://www.base-innovation.com

VIRI

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SPLETNA STRAN PROJEKTA

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REFERENCA PROJEKTA

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PROJEKT, V OKVIRU KATEREGA SO BILI ZBRANI OSNOVNI PODATKI

Rosewood

DATUM OBJAVE

27 Sep 2019

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Link to Rosewood 4.0

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