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.

DETALII

SURSA DE LEMN
Lucrări de demolare

TIPUL DE LEMN
Lemn masiv

TIPUL DE LEMN îN CAUZă
Woody biomass, waste

IMPACTUL ASUPRA MEDIULUI șI BIODIVERSITățII
No impact: solar panels are installed at the wood energy processing site

EFECT ASUPRA VENITURILOR
Reduction of logistics costs

POTENțIAL DE EXPLOATARE
--

HUB
--

IMPACT ECONOMIC
Additional income from photovoltaic energy production

CUNOșTINțE SPECIFICE NECESARE
NA

POTENțIALUL DE MOBILIZARE
Technological innovation to increase the profitability of wood energy

POTENțIAL DE SUSTENABILITATE - VALOARE
--

FACILITATEA DE IMPLEMENTARE
Easy

FACILITATEA DE IMPLEMENTARE - EVALUARE
--

CONDIțII CHEIE PREALABILE
NA

TIPUL DE EVENIMENT LA CARE A FOST PREZENTAT ACEST IPB
--

EFECT ASUPRA LOCURILOR DE MUNCă
NA

COSTURI PENTRU IMPLEMENTARE (EURO - €)
--

MAI MULTE DETALII

PROVOCARE ABORDATă

--

DOMAIN

Recoltare, infrastructură, logistică

TIP DE SOLUțIE

--

CUVINTE CHEIE

--

SOLUțIE DIGITALă

Nu

INOVAțIE

Da

ȚARA DE ORIGINE

Franţa

SCARA DE APLICARE

Regional/ sub-național

ANUL DE îNCEPUT șI DE SFâRșIT

2009 -

DATE DE CONTACT

PROPRIETAR SAU AUTOR

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REPORTER

REFERENCES AND RESOURCES

PAGINă WEB

http://www.base-innovation.com

WEBSITE PROJECT

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REFERINță PROIECT

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RESURSE

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PROIECTUL îN CADRUL CăRUIA A FOST CREATă ACEASTă FIșă INFORMATIVă

Rosewood

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