

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

EFFECT ASUPRA VENITURILOR

Reduction of logistics costs

POTENȚIAL DE EXPLOATARE

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HUB

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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

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FACILITATEA DE IMPLEMENTARE

Easy

FACILITATEA DE IMPLEMENTARE - EVALUARE

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CONDIȚII CHEIE PREALABILE

NA

TIPUL DE EVENIMENT LA CARE A FOST PREZENTAT ACEST IPB

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EFFECT ASUPRA LOCURILOR DE MUNCĂ

NA

COSTURI PENTRU IMPLEMENTARE (EURO - €)

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MAI MULTE DETALII

PROVOCARE ABORDATĂ

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CUVINTE CHEIE

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ȚARA DE ORIGINE

Franța

DOMAIN

Recoltare, infrastructură, logistică

SOLUȚIE DIGITALĂ

Nu

SCARA DE APLICARE

Regional/ sub-național

TIP DE SOLUȚIE

--

INOVAȚIE

Da

ANUL DE ÎNCEPUT ȘI DE SFÂRȘIT

2009 -

DATE DE CONTACT

PROPRIETAR SAU AUTOR

REPORTER

veronique.oulha@base-innovation.com

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 CĂRUI A FOST CREATĂ ACEASTĂ FIȘĂ INFORMATIVĂ

Rosewood

DATA POSTĂRII

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