

# 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

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### PÔVOD DREVA

Dekonštrukčné práce

### DRUH DREVA

Kmeňové drevo

### UVAŽOVANÝ DRUH DREVA

Woody biomass, waste

### VPLYV NA ŽIVOTNÉ PROSTREDIE A BIODIVERZITU

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

### DOPAD NA PRÍJMY

Reduction of logistics costs

### POTENCIÁL VYUŽITIA

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### ROZBOČOVAČ

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### EKONOMICKÝ VPLYV

Additional income from photovoltaic energy production

### POTREBA ŠPECIFICKÝCH ZNALOSTÍ

NA

### MOBILIZAČNÝ POTENCIÁL

Technological innovation to increase the profitability of wood energy

### POTENCIÁL UDRŽATEĽNOSTI - HODNOTA

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### UĽAHČENIE IMPLMENTÁCIE

Easy

### UĽAHČENIE IMPLMENTÁCIE - HODNOTENIE

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### Kľúčové PREPOKLADY

NA

### TYP PODUJATIA, NA KTOROM BOL TENTO BPI PREZENTOVANÝ

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### DOPAD NA ZAMESTNANOSŤ

NA

### NÁKLADY NA IMPLEMENTÁCIU (EURO - €)

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VIAC  
INFORMÁCIÍ

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RIEŠENÁ VÝZVA

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Kľúčové SLOVÁ

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KRAJINA PôVODU

Francúzsko

DOMAIN

Ťažba, infraštruktúra, logistika

DIGITALNE RIEŠENIE

Nie

ROZSAH APLIKÁCIE

Regionálny/

TYP RIEŠENIA

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INOVÁCIE

Áno

ZAČIATOK A KONIEC ROKA

2009 -

KONTAKTNÉ  
ÚDAJE

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VLASTNÍK ALEBO AUTOR

REPORTÉR

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REFERENCES  
AND RESOURCES

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HLAVNÁ WEBSTRÁNKA

<http://www.base-innovation.com>

PROJEKTOVÁ WEBSTRÁNKA

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REFERENCIA PROJEKTU

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ZDROJE

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PROJEKT, V RÁMCI KTORÉHO BOL TENTO INFORMAČNÝ PREHĽAD VYTVORENÝ

Rosewood

DÁTUM ODOSLANIA

27 sep 2019

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

