

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.

DETAILS

HERKUNFT DES HOLZES

Rückbauarbeiten

ART DES HOLZES

Stammholz

ART DES BETROFFENEN HOLZES

Woody biomass, waste

AUSWIRKUNGEN AUF UMWELT UND BIODIVERSITÄT

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

EINKOMMENSEFFEKT

Reduction of logistics costs

VERWERTUNGSPOTENZIAL

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NABE

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WIRTSCHAFTLICHE AUSWIRKUNGEN

Additional income from photovoltaic energy production

SPEZIFISCHES WISSEN ERFORDERLICH

NA

MOBILISIERUNGSPOTENZIAL

Technological innovation to increase the profitability of wood energy

POTENZIAL FÜR NACHHALTIGKEIT - WERT

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LEICHTE IMPLEMENTIERUNG

Easy

LEICHTE IMPLEMENTIERUNG - BEWERTUNG

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WICHTIGE VORAUSSETZUNGEN

NA

ART DER VERANSTALTUNG, AUF DER DIESE BPI VORGESTELLT WURDE

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ARBEITSPLATZEFFEKT

NA

KOSTEN DER IMPLEMENTIERUNG (EURO - €)

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MEHR DETAILS

ANGESPROCHENE HERAUSFORDERUNG

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SCHLÜSSELWÖRTER

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HERKUNFTSLAND

Frankreich

DOMÄNE

Holzernte, Infrastruktur, Logistik

DIGITALE LÖSUNG

Nein

UMFANG DER ANWENDUNG

Regional/sub-national

ART DER LÖSUNG

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INNOVATION

Ja

ANFANGS- UND ENDJAHR

2009 -

KONTAKTDATEN

EIGENTÜMER ODER AUTOR

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REPORTER

REFERENCES AND RESOURCES

HAUPT-WEBSITE

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

PROJEKT-WEBSITE

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PROJEKT-REFERENZ

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RESSOURCEN

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PROJEKT, IN DESSEN RAHMEN DIESES FACTSHEET ERSTELLT WURDE

Rosewood

BEITRAGSDATUM

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

