

Thermovoltaic Biomass Dryer



ROSEWOOD
4.0 Sustainable Wood
for Europe

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.

DETALLES

ORIGEN DE LA MADERA

Trabajos de deconstrucción

TIPO DE MADERA

Madera en rollo

POTENCIAL DE MOVILIZACIÓN

Technological innovation to increase the profitability of wood energy

POTENCIAL DE SOSTENIBILIDAD - VALOR

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TIPO DE MADERA AFECTADA

Woody biomass, waste

FACILIDAD DE APLICACIÓN

Easy

IMPACTO EN EL MEDIO AMBIENTE Y LA BIODIVERSIDAD

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

FACILIDAD DE IMPLEMENTACIÓN - EVALUACIÓN

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EFFECTO SOBRE LOS INGRESOS

Reduction of logistics costs

PREREQUISITOS CLAVE

NA

POTENCIAL DE EXPLOTACIÓN

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TIPO DE EVENTO EN EL QUE SE HA PRESENTADO ESTA IFS

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HUB

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EFFECTO SOBRE EL EMPLEO

NA

IMPACTO ECONÓMICO

Additional income from photovoltaic energy production

COSTES DE IMPLEMENTACIÓN (EURO - €)

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CONOCIMIENTOS ESPECÍFICOS NECESARIOS

NA

MÁS DETALLES

RETO ABORDADO	DOMINIO	TIPO DE SOLUCIÓN
--	Aprovechamiento, infraestructura, logística	--
PALABRAS CLAVE	SOLUCIÓN DIGITAL	INNOVACIÓN
--	No	Si
PAÍS DE ORIGEN	ESCALA DE APLICACIÓN	AÑO DE INICIO Y FIN
Francia	Regional/sub-nacional	2009 -

DATOS DE CONTACTO

PROPIETARIO O AUTOR REPORTADOR

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REFERENCES AND RESOURCES

SITIO WEB PRINCIPAL RECURSOS

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

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SITIO WEB DEL PROYECTO

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REFERENCIA DEL PROYECTO

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PROYECTO BAJO EL QUE SE HA CREADO ESTA FICHA

Rosewood

FECHA DE MENSAJE

27 Sep 2019



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No.

862681

A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY



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