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.

DETALHES

ORIGEM DA MADEIRA Trabalhos de descontrução TIPO DE MADEIRA Tronco	POTENCIAL DE MOBILIZAçãO Technological innovation to increase the profitability of wood energy SUSTENTABILIDADE POTENCIAL - VALOR
TIPO DE MADEIRA EM CAUSA	FACILIDADE DE IMPLEMENTAÇÃO
Woody biomass, waste	Easy
IMPACTE NO AMBIENTE E BIODIVERSIDADE	FACILIDADE DE IMPLEMENTAÇÃO
No impact: solar panels are installed at the wood energy processing site	
IMPACTE NAS RECEITAS	PRE-REQUISITOS CHAVE
Reduction of logistics costs	NA
POTENCIAL DE EXPLORAÇÃO	TIPO DE EVENTO EM QUE ESTE BPI TEM SIDO APRESENTADO
HUB	IMPACTE NO EMPREGO
	NA
IMPACTE ECONOMICO	CUSTOS DE IMPLEMENTAçãO (EURO - EUR)
Additional income from photovoltaic energy production	
CONHECIMENTOS ESPECIFICOS NECESSÁRIOS	

NA

DESAFIO ABORDADO PALAVRAS-CHAVE PAÍS DE ORIGEM França	DOMÍNIO Cortes, infraestruturas e logistica SOLUçãO DIGITAL Não ESCALA DE APLICAçãO Regional/ sub-nacional	TIPO DE SOLUçãO INOVAçãO Sim ANO DE INÍCIO E FIM 2009 -
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WEBSITE PRINCIPAL http://www.base-innovation.com WEBSITE DO PROJETO 	RECURSOS 	

REFERÊNCIA AO PROJETO

PROJETO NO âMBITO DO QUAL A FOLHA DE DIVULGAÇÃO FOI CRIADA

Rosewood

DATA DE ENTRADA

Link to Rosewood 4.0

27 Set 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



