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.

SURSA DE LEMN Lucrări de demolare TIPUL DE LEMN Lemn masiv	POTENțIALUL DE MOBILIZARE Technological innovation to increase the profitability of wood energy POTENțIAL DE SUSTENABILITATE - VALOARE	
TIPUL DE LEMN îN CAUZă	FACILITATEA DE IMPLEMENTARE	
Woody biomass, waste	Easy	
IMPACTUL ASUPRA MEDIULUI șI BIODIVERSITățII No impact: solar panels are installed at the wood energy processing site	FACILITATEA DE IMPLEMENTARE - EVALUARE	
EFECT ASUPRA VENITURILOR	CONDIțII CHEIE PREALABILE	
Reduction of logistics costs	NA	
POTENțIAL DE EXPLOATARE	TIPUL DE EVENIMENT LA CARE A FOST PREZENTAT ACEST IPB 	
HUB	EFECT ASUPRA LOCURILOR DE MUNCĂ	
	NA	
IMPACT ECONOMIC	COSTURI PENTRU IMPLEMENTARE (EURO - €)	
Additional income from photovoltaic energy production		

CUNOȘTINȚE SPECIFICE NECESARE

NA

PROVOCARE ABORDATă	DOMAIN	TIP DE SOLUțIE
	Recoltare, infrastructură, logistică	
CUVINTE CHEIE	SOLUțIE DIGITALă	INOVAțIE
	Nu	Da
ȚARA DE ORIGINE	SCARA DE APLICARE	ANUL DE ÎNCEPUT și de Sfârșit
Franța	Regional/ sub-național	2009 -
DATE DE CONTACT		
PROPRIETAR SAU AUTOR	REPORTER	
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REFERENCES AND RESOURCES		
PAGINă WEB http://www.base-innovation.com WEBSITE PROJECT	RESURSE 	

REFERINță PROIECT

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PROIECTUL ÎN CADRUL CĂRUIA A FOST CREATĂ ACEASTĂ FIȘĂ INFORMATIVĂ

Rosewood

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