

# NEWS *enering*

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## SUMMARY

- ❖ **PROJECT:** The deposit Enering biomass has three charging systems.
- ❖ **FORMATION:** Certification course on solid biofuels in CETENMA.
- ❖ **DIFFUSION:** Presentation on Enering in Congress of Project Engineering Alcañiz.
- ❖ **PARTNERS:** A work order master collects the experiences in energy saving Enering.
- ❖ **INFO:** Energy efficiency and competitiveness go together.



## The tank of plant biomass Enering has three charging systems

The technical team of the project has improved Enering charging system and storage tank installed in the plant biomass demonstration project Enering Life +. This project aims at demonstrating environmental and economically viable solutions to reduce the emission of greenhouse gases in the industrial estates.

The object of this action has been designing and carrying out work to improve the system loading and storage of biomass, says Ignacio Garcia Legaz Technology Center Building Murcia (CTCON). It has managed to increase three charging systems and thus be eligible for most types of transport and types of biomass, and can thus increase the overall efficiency of the installation both technically and financially to be able to choose more types of fuels.

For filling biomass storage silo, she is initially left a gate provided on top of the silo. The dimensions of the gate were calculated for introducing the fuel through high sacks mechanically. In the first charge it was observed that was an effort and risk facing the bag containing biomass with the gap. First the dimensions of the gate and secondly by the inability of the crane operator display discharge zone.



*Practicable window open in the reservoir grid*

The works have been made to implement three methods for downloading biomass:

1. By sacks, which must be raised by a crane.
2. Pneumatic system.
3. Worm coupled to the truck as those used in the feed discharge end.

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Both the first case you get through to the third with worm, has had to build a removable hopper for greater discharge gap and eliminate the problem of aligning the load and the worm. The hopper is constructed with a gate for sampling as well as a cover from a silo of inclement weather preventing the entry of rain inside.

Another work that has been done has been opening a hole for the introduction of the screw and the opening of another second recess so that when you get the download with the crane operator has adequate visibility and thus avoid damage to the installation.

In the second case, pneumatic system, is performed two cut in the upper side of the silo to introduce the necessary connecting two tubes inside it with the facade. It has taken into account the possibility to load the silo with various mouths according to systems that are commonly used for this type of transport.



*Biomass hopper tank*



*Two details of the open window on the ground*



## CETENMA organizes a course on certification of solid biofuels

The biomass sector in the countries of southern Europe is taking a leading role thanks to the biomass obtained from the pruning of fruit trees, olive trees, almond, etc. and clearing undergrowth. To ensure consistent quality of biomass and following European standards have created two biomass certification systems to ensure compliance with minimum requirements for the sale and distribution at European level (Enplus and Biomassud).

On this subject and under the Enering Project CETENMA held on September 23, 2014 a course whose aim was to provide information about these certification systems to all stakeholders in the supply chain and distribution of biomass.

A total of 22 participants from companies, producers or distributors of biomass, quality managers, business professionals related to the sector from different parts of Spain gathered to expose the procedures and legal requirements for biomass installations, current situation biomass market, quality system structure Enplus and Biomassud, certification requirements, requirements regarding product quality, parameters, allowable values and tests, and sampling practices and self-inspections.

Finally, José Miguel Paredes, head of the Department of Energy CETENMA, presented the case study of biomass installations Project ENERING, performing a site visit of Diego Zamora (where the plant Enering is) in which students they could see in situ the biomass boiler with cold production by absorption.

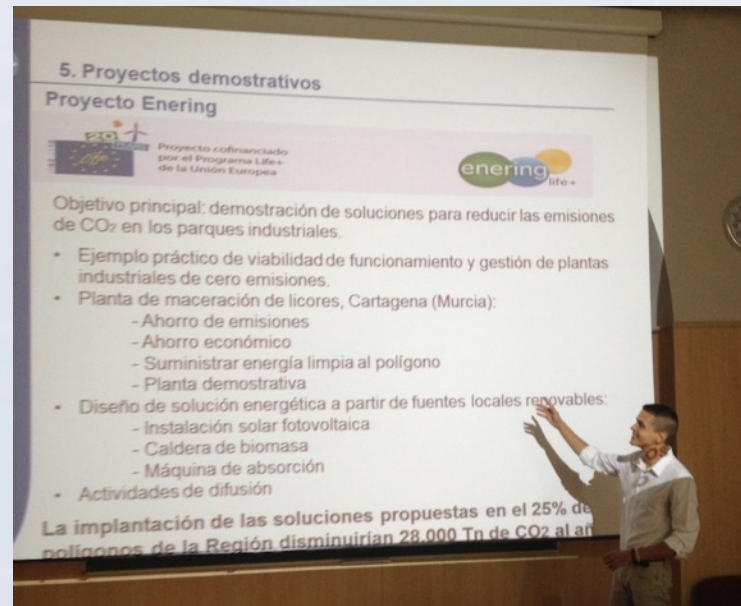
Due to the success and the good reception of this course, CETENMA is considering making the second edition soon.







A master work order includes energy saving experiences developed by Enering



The student Guillermo Alcaraz Salar has defended his Master's Thesis in the Master of Renewable Energy at the Technical University of Cartagena, "Memory of Good Practices in Energy Industrial Estates".

This work has been developed within a work experience program that took place in the College of Industrial Engineers and has been framed within the tasks of dissemination and project activities Enering Life+.

One goal of the project is the promotion and development of best energy practices in the industrial estates in the paper we have analyzed both the proposals for energy efficiency normative, technical guides energy conservation and efficiency as well as the compilation of draft reference.

## The director of Info emphasizes "the importance of sustainable energy management for competitiveness"

The director of the Institute of Development of the Region of Murcia (Info), Reyes Samper, said during the XV Iberoamerican Digital Cities held in Malaga that "the energy sector represents a strategic axis in the new financial framework of the Union European for 2014-2020".

Reyes Samper stressed that the Department of Enterprise, through the info, will be first in line to support enterprises in the Region of Murcia, promoting accessing funding from Brussels and benefit from the experiences of other countries. Also he noted "the importance of sustainable energy management is to improve the competitiveness of enterprises, in addition to being an important source of business."

During his speech, Samper exposed a dozen actions in this area develops the info in order to strengthen, with the support of EU programs, the use of sustainable energy. These actions, as noted, have the dual purpose of "prevent degradation of the environment and, secondly, that companies obtain revenues through sustainable use of energy with new business opportunities."

The director of Info recalled that the so-called Covenant of Mayors, where are involved the vast majority of municipalities in Murcia, aims to provide technical assistance to municipalities for effective management of energy saving.

As an example of good business practices for sustainable and competitive energy management, the director of Info highlighted two projects successfully executed. The first is Proforbiomed, to manage the forest biomass, implemented by the regional government since 2001 to enhance agricultural waste biomass as fuel. The second, for energy consumption in industrial areas, is the Enering project. Enering finances the adequacy of building a self-sufficient energy in the industrial sector, an example of an efficient industry and supplied almost entirely by renewable energy.



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