

## FACTS & NEWS

(July 2012-January 2013)

### GENERAL

#### **New Secretary of State for Energy (28-December-2012) Alberto Nadal Belda**



The Government has appointed Alberto Nadal Belda as Secretary of State for Energy, replacing Fernando Martí Sharfhausen who has been nominated to chair the Nuclear Safety Council.

Alberto Nadal, born 30 January 1970 in Madrid, is married with two children, has a degree in Law, Economics and Business Administration from the Universidad Pontificia de Comillas (ICADE), and belongs to the Commercial Technician and State Economist Corps.

He has carried out his professional career in the Ministry of Economy and Finance, where he has held different positions in the Department of Treasury and Finance, and was Economic Adviser to the Second Vice President and Minister for Economy and Finance. He was Director General of the Instituto de Crédito Oficial, Secretary General of Foreign Trade and Economic and Commercial Advisor of the Spanish Embassy in the United States. In September 2009 he was appointed Deputy to the General Secretariat of the CEOE (Spanish Association of Entrepreneurial Organizations), becoming Deputy Secretary General for Economic, Industrial and International Affairs in July 2011.

Due to his new position as Secretary of State for Energy, he has assumed the Chairmanship of the IDAE.

### ENERGY EFFICIENCY

#### **The IDAE manages the Vehicle Efficiency Incentive Program, worth 75 million.**



The Ministry of Industry, Energy and Tourism has launched the Vehicle Efficiency Incentive Program (PIVE), which aims to replace 75,000 vehicles, these being private cars and light vans, over 12 years and 10 years old respectively, with more energy-efficient models, with lower fuel consumption and CO2 emissions.

## **FACTS & NEWS**

**(July 2012-January 2013)**

The renewal of the vehicle fleet is one of the main tools for promoting energy efficiency in transport, and by incorporating new models into it, with more efficient technology, allows a reduction in consumption by passenger and freight transport in particular, with the added effect of reducing the impact on the environment and improving safety.

It is estimated that the energy savings associated with PIVE Program, costing 75 million euros and taking place from 1 October 2012 to 31 March 13, or until funds are exhausted, amount to 26.1 million litres of fuel per year. In economic terms, at the current price of a barrel, this is a saving of 16 million euros per year, in addition to a reduction in greenhouse gas emissions of 54,000 tons per year of CO<sub>2</sub>.

The beneficiaries (individuals, professionals, freelancers, SMEs) obtain aid directly when paying bills at the dealerships, to the sum of 2000 euros, 1000 of which are from the Ministry of Industry, Energy and Tourism and the other 1000 from the manufacturer or importer. The program is managed by the IDAE.

The transport sector in Spain is the largest consumer of final energy (37.4% in 2010) as well as the largest emitter of greenhouse gases (29.5% of the total for the same year), and Spain faces a major challenge in the coming years to get the country to meet international commitments regarding environmental sustainability and clean air in cities.

The sector is also characterised by its structure, dominated by the consumption of almost entirely imported petroleum products, contributing to our high dependence on foreign energy, at close to 80%, well above the European average of 54%, with consequent effects on the trade deficit and inflation.

Furthermore, the substantial drop in sales of vehicles registered in Spain in recent years has led to an aging fleet, which in turn makes it less efficient, less safe and therefore more costly.

## FACTS & NEWS

(July 2012-January 2013)

### RENEWABLE ENERGY

#### The IDAE develops a tool (BIONLINE), to quantify biomass from forests in Spain

BIONLINE is a free software application developed by the IDAE as part of potential biomass assessment in Spain, which allows the user to quantify forest biomass from the geographic area of interest.

This can be used for consultation and studies on different types of biomass (forest exploitation resources, agricultural crop resources and biomass resulting from resources destined for implantation in forest land), and ultimately produces a report according to user-selected parameters.

Moreover, for more in-depth and detailed study, there is a non-free tool (BIDAE) which may be used getting in touch with IDAE.



#### New Biomcasa Program for Thermal Biomass Installations announced



The IDAE's Biomcasa program, which facilitates the installation of biomass-based heating and hot water in buildings, has been one of the main drivers of the revival of the sector in recent years, and thus of many utility companies. The 14 January 2013 the "regulatory guidelines for enabling program partners to implement thermal biomass projects in buildings (Biomcasa II)" was published. Initially, it received a budget of € 5 million

euros.

## FACTS & NEWS

(July 2012-January 2013)

Through this program, utility companies perform installations without any investment costs being incurred by building owners, who amortise them by means of payment for biofuel at the price of fossil fuel.

### INTERNATIONAL COOPERATION

#### Results of the 2012 Solar Decathlon Europe contest

During the 2012 Solar Decathlon Europe Contest (SDE2012) that took place at the “Villa Solar de Madrid” from 14 to 30 September, the solar houses produced 5,740 kWh, twice the energy consumed: 2,977 kWh, each house producing an average of 319 kWh, exclusively with solar energy. The surplus energy was directed into the grid so that residents in Madrid could make use of it.



One of the most innovative aspects of this was the optimisation of the energy efficiency systems of each competing house by way of, for the first time in Spain, a smart grid. This Micro Smart Grid connected the 18 competing houses, controlling the entire electric system of the Villa Solar, balancing flows in real time and adapting the energy supply demand so that the organisation buildings, activity tents, common services, and even vehicle charging points had the necessary energy. Furthermore, the ratio of energy production to consumption has reduced the losses that transport causes at the point of consumption.

SDE2012 had the largest number of visitors in the history of the competition. The Villa Solar has received over 220,000 visits, 64,094 of which were through guided tours. Over 2,000 university students and more than 6,000 professionals have also visited the solar houses.

More than 5,000 children from different schools in Madrid carried out the activities developed by the 10ACTION project, financed by the IEE Program, for Solar Decathlon Europe in order to raise awareness of the responsible use of renewable energy in buildings.

## FACTS & NEWS

(July 2012-January 2013)

The 10ACTION project has developed over 73 different activities, over two and a half years, related to the promotion of the values and results of the Solar Decathlon Contest. These activities have led to five different target audiences: children, school pupils and university students, professionals and citizens.

Solar Decathlon Europe also had a notable presence in social networks: Facebook, with 8,872 followers, has reached 124,000 people during the competition; Twitter, with 2165 followers has reached 120,000 people in the same period. Hits to [www.sdeurope.org](http://www.sdeurope.org) have also increased with 144,213 visits during the competition, and the blog has had 5,700 views.

During SDE2012 proposals have been varied and of a high quality compared to 2010. The competition was very tight until the last minute, and the winner was the French Rhone Alpes team with the Canopea house followed closely by the Andalucía team (Spain) with the Patio 2.12 house and the Roman team (Italy) with Med in Italy house, who won the second and third prizes respectively.

This second Solar Decathlon Europe has been organized by the **Ministry of Public Works, Madrid City Council and the Madrid Polytechnic University (UPM)** via its Higher Technical School of Architecture. The SDE2012 Competition was supported by the **US Department of Energy and the Institute for the Diversification and Saving of Energy (IDAE)**, with its main sponsors **Schneider Electric and Kömmerling**, and its official collaborators **AENA, ADIF, RENFE, INECO and FEVE**.

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## FIRST AWARD: CANOPEA House

Team Rhone Alpes (France)



and,  
First Prize on Architecture  
First Prize on Comfort Conditions  
First Prize on House Functioning  
First Prize on Innovation

## SECOND AWARD: PATIO 2.12 House Team Andalucia (Spain)



and,  
First Prize on Energy Efficiency  
First Prize on Electrical Energy Balance  
First Prize on Communication and Social Awareness

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**THIRD AWARD: MED IN ITALY House  
Team Rome (Italy)**



and,  
First Prize on Sustainability

CLASIFICACIÓN FINAL			
Ranking	Casa	País/Paises	Puntuación
1	Canopea		908.72
2	Patio 2.12		897.39
3	Med in Italy		863.49
4	Ecolar Home		835.00
5	Counter Entropy House		819.31
6	Odoo		766.98
7	SMLsystem		765.98
8	(e)co		731.57
9	Prispa		719.16
10	Fold		715.59
11	Para Eco-House		688.88
12	Ekihouse		684.20
13	Sumbiosi		674.80
14	Ekó House		670.99
15	Omotenashi House		641.91
16	cem' casas em movimento		538.29
17	astonyshine		416.49
18	Casa pi Unizar		371.48

