



# European Energy Network



## FACTS & NEWS

Madrid (Spain), February - May, 2015

### GENERAL

#### 2014 SPAIN ENERGY BALANCE

Provisional data of the 2014 energy balance for Spain were presented on 21<sup>st</sup> April by the Secretary of State, President of IDAE, Mr. Alberto Nadal Belda.

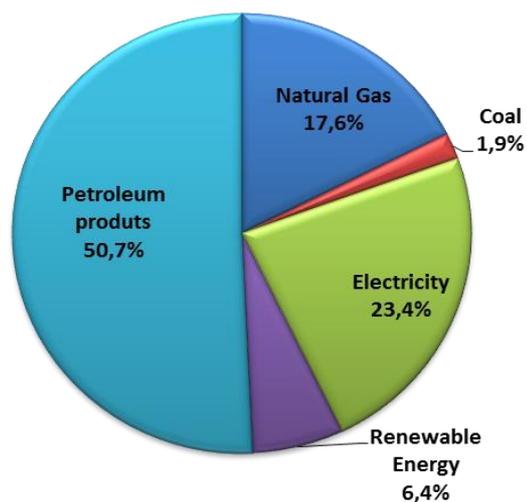
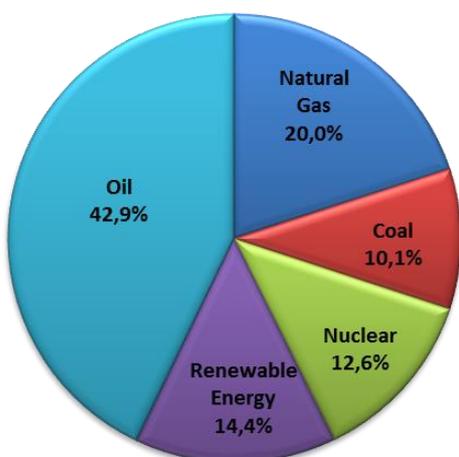
Total energy demand (final and primary) as well as electric power decreased in 2014, even if at lower rates than those undergone in 2013.

The share of renewable energies in the energy mix continued to make progress in 2014 due to increased electricity generation, and despite the change in the regulatory framework established by a new payment scheme. The weight of renewable energies in gross final consumption (Directive 2009/28/EU Objective) stood at 17.1% in 2014.

The intensity and energy dependence indicators confirm the sustained trend of improvement in recent years.

#### Final Energy 2014

##### Primary Energy 2014



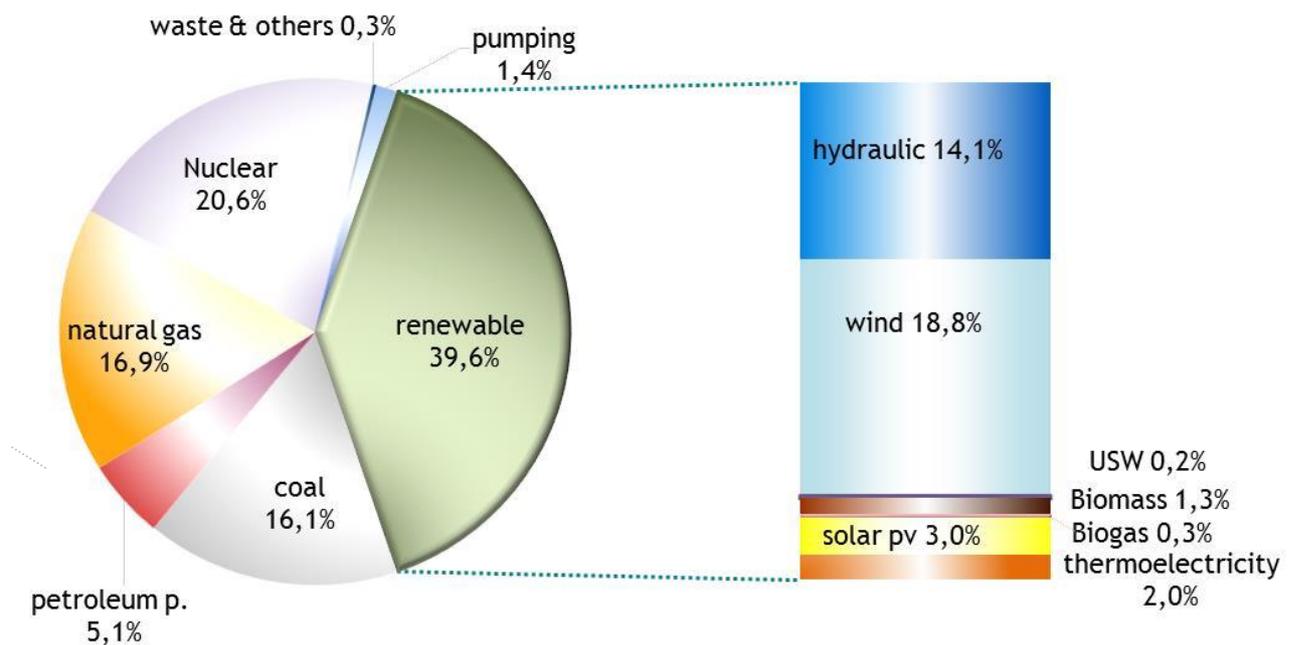
Electric power consumption decreased one more year (-1.3 % as compared to 2013) to below 2004 levels, with nuclear and wind technologies as main producers for a second consecutive year (a 20.5% and a 18.6% share, respectively). 2014 was the first year Law 24/2013 on the electricity sector was implemented, with relevant implications on the financial and business agents' models, and with the expectation of ending with the tariff deficit.



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### 2014 Electricity results



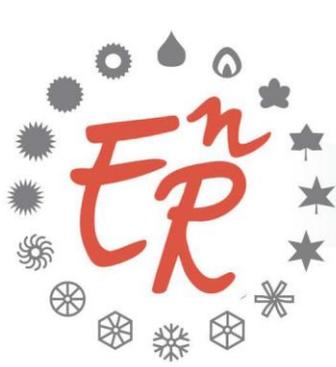
### ENERGY EFFICIENCY

#### **IDAE WILL MANAGE AIDS FROM THE MINISTRY OF INDUSTRY FOR EFFICIENCY AND ENERGY SAVING PROJECTS WORTH 168 MILLION EUROS.**

These action lines, allocated with a 168 million euro budget, are specified in various aid programmes approved by IDAE's Board of Directors, the body that will manage the articulated direct aids and financing support.

Four action lines will be implemented: energy renovation of buildings; transportation; SMEs and large companies in the industrial sector; and street lighting. The savings derived from these programmes shall amount to the annual consumption of over 150,000 households, and will prevent an annual emission of over 440,000 tons of CO<sub>2</sub>.

The programs are funded with budgets from the National Energy Efficiency Fund and from Spain's General State Budget for 2015 that may be co-financed by the European Regional Development Fund (ERDF) under the Operational Programme for Sustainable Growth 2014-2020.



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The programmes financed by the National Energy Efficiency Fund will generate savings equivalent to 131 ktoe/year (1,523 GWh/year).

These direct aid and support programmes for financing energy saving and efficiency projects are included in the framework of the National Action Plan for Energy Efficiency 2014-2020. They will enable Spain to meet the saving targets derived from Directive 2012/27/EU, and will translate into an important stimulus for investment and employment.

This Directive obliges Member States to achieve a target for cumulative energy saving before December 2020 which, in the case of Spain, has been estimated at 571 ktoe/year.

### ***Action lines in energy saving and efficiency projects***

#### **Building Energy rehabilitation (PAREER - CRECE programme).**

Amendment of the current Aid Programme for the Energy Renovation of Existing Buildings (PAREER Programme) to increase its budget and enlarge its scope to all buildings, regardless of their use, so that it becomes a new driving force for new comprehensive measures to improve energy efficiency by updating the thermal envelope and their energy consuming equipment, as well the use of renewable thermal technologies.

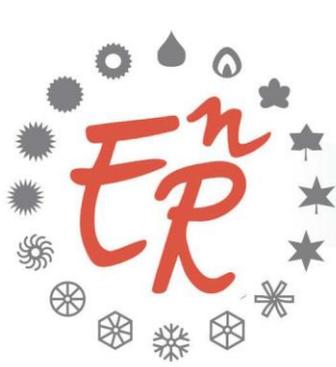
The budget allocated to this enlargement amounts to **75 million euros** from the State Budget for 2015 (CRECE Plan), which will add to the initial funding of PAREER program, which had been allocated with 125 million euros.

#### **Transportation**

This is an aid programme (direct subsidy) aimed at companies promoting modal shift actions and more efficient means of transport, in which, the implementation of company's transport plans for its employees; the improvement of goods and passenger fleet management; and the delivery of efficient driving courses for heavy and light duty vehicles will be eligible. The allocated budget amounts to 8 million euros.

#### **SMEs and large corporations in the industrial sector**

An aid programme (direct subsidy) to facilitate the adoption of energy saving measures in SMEs and large companies in the industrial sector, rendering eligible any actions meant to improve energy efficiency by replacing technologies and processes, and the implementation of energy management systems. The programme has been allocated a budget amounting to **49 million euros**.



### Street lighting

A funding programme in the form of a refundable interest-free loan to facilitate the renewal of municipal outdoor lighting, allocated with a **36 million euro** budget.

### **GOVERNMENT APPROVES A NEW INCENTIVE PLAN FOR EFFICIENT VEHICLES (PIVE 8)**



The Cabinet Meeting approved a Royal Decree on 14 May giving green light to the Efficient Vehicle Incentives Programme, PIVE 8 Plan, due to the favourable reception of the programme by consumers, as well as its positive effect on the economy and the environment.

The allocation for this new plan is 225 million euros.

Individuals, independent professionals, small businesses and SMEs will be eligible for the special aid. Other eligible vehicles will be those adapted for the disabled. PIVE 8 Plan maintains the key features of its predecessor. In this new Plan the beneficiary will get a 750 euro subsidy, contributed by the Ministry of Industry, Energy and Tourism, and another 750 euros by the manufacturer or retailer. Nonetheless, in the case of large families who purchase vehicles with over five seats and passengers with special needs and reduced mobility, the aid is set at 1,500 euros plus a similar discount from the manufacturer or retailer.

It remains compulsory for the beneficiary to be the titleholder of the vehicle to be scrapped, at least for a year before the application date for the said aid. In like manner, the vehicle to be scrapped should have the vehicle inspection certificate in effect at the time the Royal Decree is enforced.

### **Success of PIVE Plans**

Support programs for the renewal of the car fleet have proved to be one of the most effective measures to reduce energy consumption, with additional positive effects on road safety and environmental matters. Thus, the PIVE plans implemented so far have accounted for the following results:

- Replacement of 890,000 vehicles.
- Energy saving worth 308 million litres of fuel/year (the equivalent to 1.9 million barrels of oil).
- Decrease of greenhouse effect gases worth 634,000 tons of CO<sub>2</sub>/year.



### **IDAE'S DIGITAL CLASSROOM TO LEARN HOW TO SAVE ENERGY WELCOMED OVER 14,000 STUDENTS**

IDAE launched an online training platform in November 2011 in order to promote energy savings in our homes, offices and with regard to our car use. This was done through e-learning platform "Learn how to save energy", which teaches us intuitive advice through simple and free courses, intended to raise awareness, promote active collaboration and develop good habits.

Since its launch in November 2011, the platform has reached in 2015 as many as 14,400 registrations in the courses offered.

Access to digital classroom is done via the Internet, on the website:  
[www.aprendecomoahorrarenergia.es](http://www.aprendecomoahorrarenergia.es)

The courses are completely free. Only a computer and an Internet connection are required.

Enrolment can be done in any of the 7 training activities available:

- Save energy as you work
- Save energy with your electric appliances
- Energy Efficient Driving
- Your household: Individual heating and hot water installations.
- Associations of property owners: central heating and hot water installations.
- Certification of energy performance in existing buildings: Course for users.
- Certification of energy performance in existing buildings: Course for Real Estate Agents.

Simple concepts are used, accessible to everybody; anyone interested in saving in the household, office or on driving can do them.

The duration of each course is estimated at two hours' time.



### **THE MINISTRY OF INDUSTRY, ENERGY AND TOURISM SUPPORTS THE PURCHASE OF ELECTRIC VEHICLES WITH 7 MILLION EUROS**

The Cabinet Meeting approved, on April 17, the Royal Decree regulating the allocation of direct subsidies for the purchase of electric vehicles by 2015.

The new Royal Decree, which allocates this initiative with 7 million euros, will enable to continue the boost the Ministry of Industry, Energy and Tourism has been giving for three years to these vehicles through direct purchasing subsidies.

Aid management has been entrusted to the Institute for Diversification and Saving of Energy (IDAE).

The continuity of support schemes to purchase electric vehicles carried out since 2012 has had a positive impact on the evolution of the car fleet of vehicles of this kind, having reached as many as 10,000 units sold, inclusive of cars and electric vans; and on their manufacturing, with a total of 8,828 electric vehicles made in 2014, which accounts for a 21% increase over the previous year.

#### Beneficiaries

Aids are awarded for both the acquisition and financing of operations per car repayment or lease (operational lease) of new electric vehicles registered for the first time in Spain, and whose propulsion power comes, either in whole or partially, from batteries charged through the electricity grid.

Aid applications may be submitted until the budget is available (7 million euros) until its deadline on 31December, 2015.

#### Aids

Aid individual amounts are determined depending on the vehicle to be purchased and its autonomy in pure electric mode operation (autonomy which accounts for the battery charge capacity) ranging between 1,950 euros, in the case of light quadricycles, and up to 20,000 euros for buses and coaches.



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### RENEWABLE ENERGY

#### **SOLAR THERMAL ENERGY ON HEAT NETWORKS**

The Institute for Diversification and Saving of Energy (IDAE) has coordinated and reviewed a study on the technical and economic feasibility of incorporating solar thermal energy in centralized district heating and cooling (DHC).

The goal of that work is to expand knowledge on the use of solar energy in DHC, test its viability and promote its integration.

Currently in Spain, out of the few existing district heating and cooling (DHC) installations, only some incorporate renewable energy, and none solar energy. Given the potential of solar radiation in the country, it is an alternative to consider.

The networks chosen for the study were 22@ (Red Districlima) and La Marina (Red Ecoenergies), both located in Barcelona. Catalonia stands out as the Autonomous Region with the largest amount of networks throughout the Spanish territory, and because of this, it has been considered as a representative study case at national level.

The achieved results lead us to the conclusion that solar energy, as a source of energy for urban networks, is a feasible and attractive alternative, competitive both at technical and economical level.

### INTERNATIONAL COOPERATION

#### **IDAE TAKES PART IN EUROPEAN PROJECT FRONT - FAIR RHC OPTIONS AND TRADE OF THE 2013 CALL OF INTELLIGENT ENERGY EUROPE PROGRAMME**



The project is led by ESTIF (European Solar Thermal Industry Federation) and the consortium is made up of as many as 12 European partners. The project counts with the participation of the energy agencies of Portugal, Netherlands, Spain, Poland and the United Kingdom; a representation of the main European industrial technology associations (biomass, solar, and heat pump and geothermal energy); technological institutes; and private firms from Austria, Portugal and Spain.

The main objective of FRONT Project is the development of a transparent, balanced market for renewable heating and cooling technologies.



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The main tasks undertaken to achieve this objective are: to know the extent of public sensitivity to thermal renewable technologies; provide a tool to meet the costs of the power generation (LEC) of the various heat and cold production technologies (renewable and fossil); and develop strategies and mechanisms to support these technologies.

The project started in April 2014 and will last 30 months, so it will end in September 2016.

The technologies addressed by the project are: solar thermal, biomass, geothermal energy and heat pumps.

The final results expected to achieve the project are:

- Methodology consensus between all participants to define the energy cost from renewable sources in the production of heat and cold.
- Review of existing support mechanisms, especially the successful ones.
- Adapt communication tools so as to make a clear, transparent comparison of the costs and characteristics of the various technologies.
- Recommendations on the measures to be taken.

IDAE's key role will be to take part and carry out a review of the mechanisms in support of renewable thermal energy in Spain; take part in estimating the costs of renewable thermal technologies; and know the decision factors for consumers on choosing one technology or the other. They are planned within the project national events, facilitating contact between consumers, the government and the industry. In addition to IDAE, another Spanish partner, CREARA, is in charge of the methodological development of the project.

### **IDAE'S ACTIVITIES AS A NATIONAL CONTACT POINT FOR THE ENERGY CHALLENGE (HORIZON 2020) ALL ALONG 2014**

Since the official publication of the Work Programmes of the HORIZON 2020 programme in mid-December 2013, IDAE has carried out an intense work advising Spanish companies/organizations, as well as spreading information and raising awareness.

During 2014, IDAE took part as a speaker in 15 Information Conferences on the Energy Challenge, and has counselled 116 companies from different business sectors, via e-mail or personal interviews, in 15 autonomous regions.



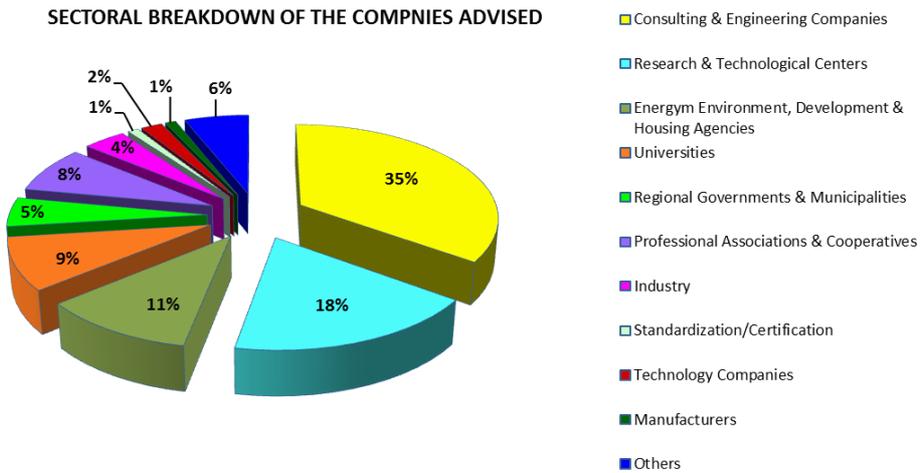
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**SECTORAL BREAKDOWN OF THE COMPANIES ADVISED**



**ENQUIRIES RECEIVED BY AREAS**

