

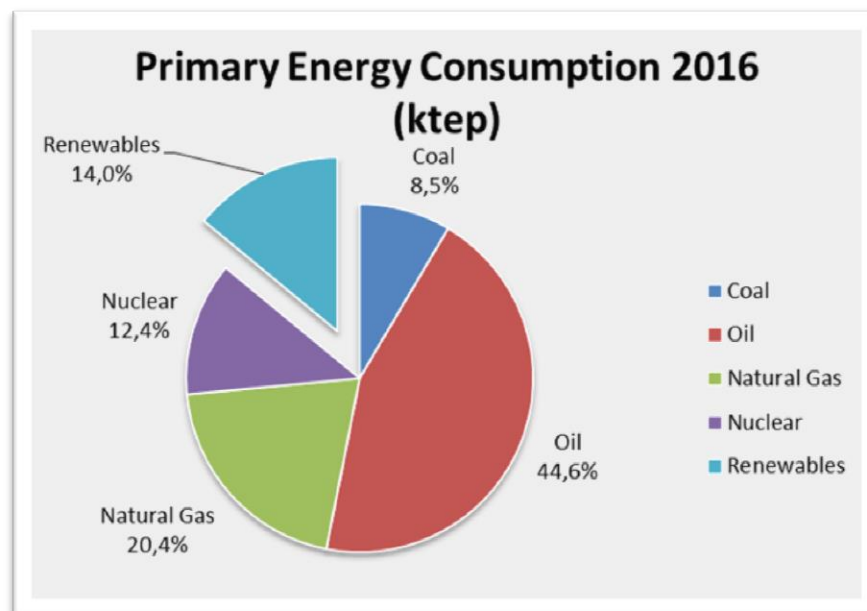
## GENERAL

### 2016 SPAIN'S ENERGY BALANCE

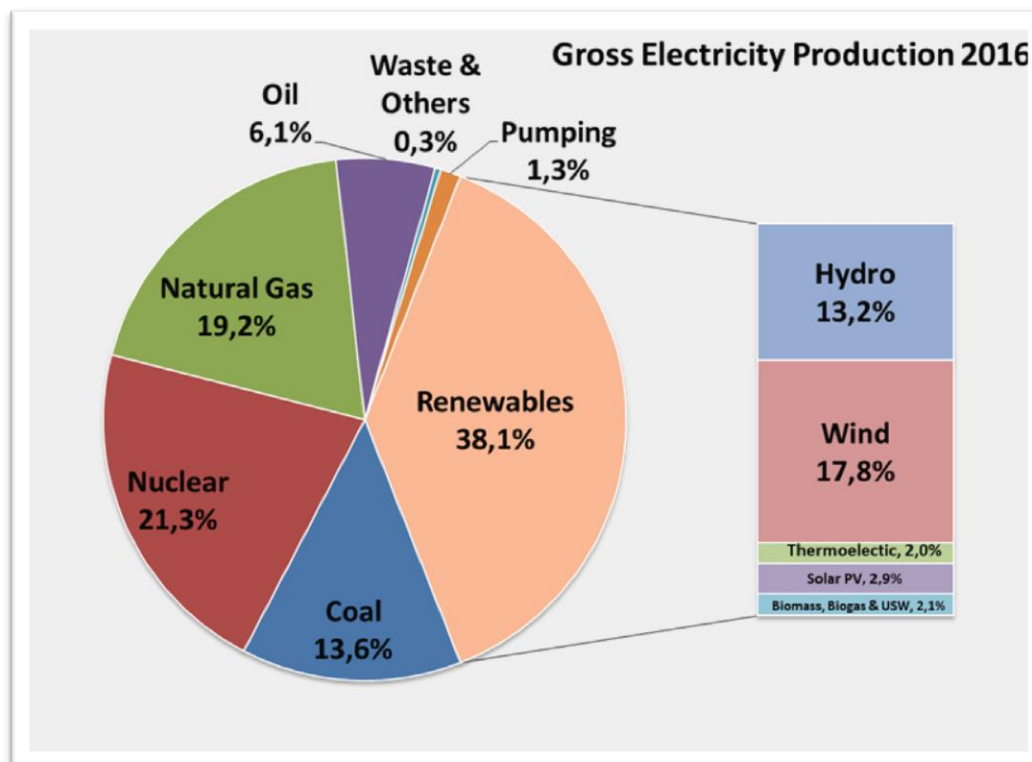
On 17<sup>th</sup> of March, the Secretary of State for Energy, Daniel Navia, and the President of the Club Español de la Energía, Borja Prado, presented the provisional Energy Balance 2016 and the perspectives for 2017 to more than 200 personalities of the energy sector.

Some of the most highlighted indicators of 2016 are the following:

- Total final energy: 85,874 ktoe (+1.5%)
- Contribution of renewables: 15.9% (14.7% in 2015)
- Energy dependence is reduced by 1.5%, reaching 72.3 %
- The primary energy grew by 0.2% and the final energy by 1.5% compared to 2015
- Spain is on the right path to meet the 2020 objectives. By 2016, 16.2% of the final energy came from renewable energy sources (excluding biofuels)



NEWS from Spain, February - June 2017



**UNIÓN EUROPEA**  
Fondo Europeo de Desarrollo Regional

**IDAIE HAS BEEN APPOINTED INTERMEDIATE BODY FOR THE SUSTAINABLE GROWTH OPERATIONAL PROGRAMME OF THE ERDF FOR 2014 – 2020**

*Una manera de hacer Europa  
"A way to build Europe"*

The Managing Authority, through the Directorate General of Community Funds of the Ministry of Finance and Public Administration (*Ministerio de Hacienda y Función Pública*), has designated IDAIE the intermediate body for the management of the funds part of the sustainable growth operational programme, specifically Thematic Objective 4 (TO4) of the European Regional Development Fund (ERDF) for the period 2014 – 2020.

IDAIE is therefore responsible for the definition and management of the support lines that are co-financed through the sustainable growth operational programme (TO4), the main goal of which is to promote the transition towards a low-carbon emission economy in all sectors.

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The IDAE will manage over 2,000 million Euros in ERDF aid for actions in energy efficiency, thermal renewable energy, wind parks in the canary islands, connections between the islands and mainland Spain, the promotion of R&D&i in renewable energies and unique projects by local bodies.

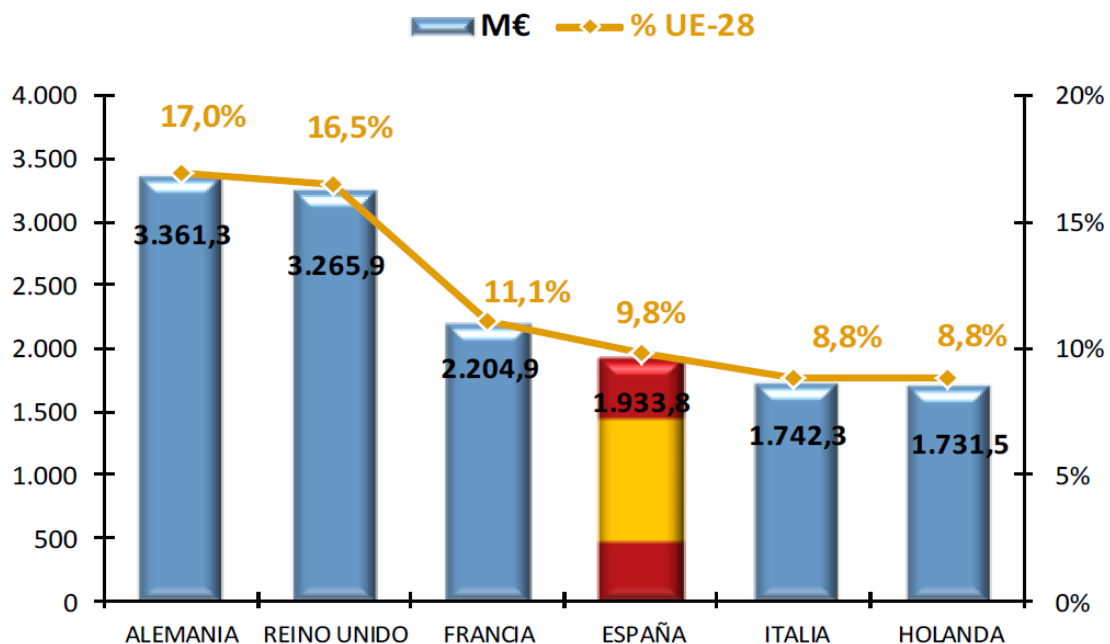
This designation as an intermediate body will allow the IDAE to provide down payments of up to 40% to aids beneficiaries, thus speeding up the completion of projects and access to financing.

### SPAIN HOLDS FOURTH PLACE IN THE HORIZON 2020 RANKING OF COUNTRIES BY SUBSIDIES OBTAINED

Based on the available temporary results that have been published by the “*Centro para el Desarrollo Tecnológico Industrial*” (CDTI), Spanish bodies have obtained subsidies for the value of 1,933.8 million Euros in the awarded calls for subsidies during the 2014-2016 period.

For Spain, this implies a return of 9.8% at the EU-28 level and fourth-place in the ranking of countries by subsidies obtained, behind Germany, the United Kingdom and France.

Returns obtained on H2020 by the six first countries



Source: CDTI

## NEWS from Spain, February - June 2017

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### THE ALLIANCE FOR ENERGY RESEARCH AND INNOVATION



The Managing Director of the IDAE participated in the technical session of the [Alliance for Energy Research and Innovation](#) (*Alianza por la Investigación y la Innovación Energéticas*, ALINNE) that was held on April 20 at the headquarters of the Ministry Economy, Industry and Competitiveness.

During said session, the conclusions and recommendations of the Exercise for the Analysis of Potential Development in Energy Technology (*Ejercicio de Análisis del Potencial de Desarrollo de las Tecnologías Energéticas*, [APTE 2015](#)), the interaction of Spanish energy technology with the SET PLAN and the contribution of the RIS3 of the Spanish autonomous regions, were discussed.

The session concluded with a participative round table in which technological platforms presented what they held to be [Priority Technological Initiatives](#) in each sector on which the nation's R&D&i activity should focus on the short term.

The [records of the session](#) are available on the website of the ALINNE.

The ALINNE was formally constituted in 2011 as an initiative of the state administration. It is made up by representatives of the administration, energy companies and researchers in the energy field. It is a single forum with the capacity to join and coordinate efforts between the public and private sectors in Spain in order to respond to the main R&D&i challenges that arise in the energy technology sector.

## ENERGY EFFICIENCY

### 2017 CALL FOR ENERGY EFFICIENCY PROGRAMMES: OVER 221 MILLION FOR ENERGY EFFICIENCY

#### *Una manera de hacer Europa "A way to build Europe"*

The second call of the IDAE aids programme will allocate 221.8 million Euros for the improvement of energy efficiency in the industry, transportation, municipal lighting and building sectors.

The budget breakdown by programmes is as follows:

PROGRAMME	BUDGET (millions of Euros)	Web links
Renovating municipal outdoor lighting facilities	28.7	<a href="#">Lighting</a>
Actions for a modal shift and a more efficient use of transport modes	3.7	<a href="#">Transportation</a>
Energy efficiency in SMEs and large companies in the industry sector	63.7	<a href="#">Industry</a>
Energy Renovation of existing buildings	125.6	Pending publication

The budget of these programmes comes from the National Energy Efficiency Fund, and they may be jointly financed by the European Regional Development Fund (ERDF) within the framework of the Operational Programme for Sustainable Growth for 2014 – 2020.



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### BALANCE OF THE AGREEMENT BETWEEN THE IDAE AND THE SPANISH VEHICLE RENTING ASSOCIATION (*ASOCIACIÓN ESPAÑOLA DE RENTING DE VEHÍCULOS, AER*) IN ORDER TO IMPROVE ENERGY EFFICIENCY AND REDUCE CO<sub>2</sub> EMISSIONS

IDAIE and the “*Asociación Española de Renting de Vehículos*” (AER – Spanish Vehicle Renting Association) have published the balance of the voluntary agreement underwritten by both bodies in late 2011 in order to improve energy efficiency in renting vehicles, with highly positive results.

By virtue of this agreement, which was the culmination of a fruitful relationship between the AER and its associated companies with the IDAE, and which began in 2008, for the introduction of efficient vehicles in Spanish fleets of vehicles, the renting sector effectively joined the efforts carried out by the Institute for Energy Diversification and Saving (IDAIE) to improve energy efficiency in Spain. Thus, the AER undertook to annually report on average consumption and emissions by units acquired through renting between 2012 and 2017, at which date the agreement expired and its extension and the conditions thereof will have to be determined.

Ever since the emissions and consumption of newly registered renting vehicles began to be measured, we have concluded that over the four years during which the agreement has been in force, the sector has saved:

- 105 million litres of fuel
- This in turn implies savings of 125 million Euros
- Over the same time period, the renting sector has saved 121,000 tonnes of CO<sub>2</sub>

#### Evolution of average consumption of registered vehicles, —passenger cars, crossover and light commercial vehicles— (litres per 100 kilometres)

	Number of registered renting vehicles	Renting (l/100 km)	Total market (excluding renting) (l/100km)	Difference in consumption in favour of renting (l/100 km)
Year 2012	106,016	5.10	5.32	0.22
Year 2013	119,836	4.83	5.01	0.18
Year 2014	143,027	4.65	4.86	0.21
Year 2015	172,321	4.50	4.75	0.25
Year 2016	205,573	4.41	4.71	0.30
<b>Improvements in consumption over the 2012/ 2016 period</b>				
<b>Absolute improvement</b>		0.69	0.61	
<b>Average yearly improvement</b>		0.17	0.15	
<b>Relative improvement</b>		13.53%	11.47%	
<b>Average relative yearly improvement</b>		3.38%	2.87%	

Source: Institute for Automotive Studies for the AER and own sources

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### NEW IDAE GUIDE ON SAVINGS IN PUMPING OF HYDRAULIC CIRCUITS



The goal of the document is to analyse energy savings that may be obtained in pumping costs when thermal facilities function with partial loads. We will demonstrate that it is possible to reduce the energy of pumping in heating and air conditioning hydraulic circuits up to 70% if the facilities function with a variable flow. The energy savings that may be obtained depend on how the pump functions, on its control valves and balancing valves.

The guide displays the method to be followed in order to properly assess the energy savings that can be obtained in the pumping of specific primary and secondary circuits. Moreover, "generic" cases are displayed that allow for approximate and simple estimations of potential energy savings that may be obtained from pumping in hydraulic circuits.

More info: [Guide on Savings in Pumping of Hydraulic Circuits](#)

## RENEWABLE ENERGY

### THE MINISTER OF ENERGY, ÁLVARO NADAL, AND THE MAYOR OF OURENSE LAUNCH THEIR COLLABORATION FOR THE PROMOTION OF GEO-THERMAL ENERGY



The Ourense Town Hall and the Ministry of Energy, Tourism and the Digital Agenda underwrote, on April 19 this year, a collaboration agreement to make Ourense a world reference in geothermal energy. This agreement was reached after several meetings between the mayor and IDAE managers in order to study the possibilities of

developing geothermal energy in Ourense as a source of renewable energy.

*The Ministry of Energy, Tourism and Digital Agenda, Mr. Álvaro Nadal, and the Mayor of Ourense, Jesús Vázquez, during the signature of the agreement*

The idea is to begin to exploit the thermal waters that flow beneath the city in order to generate heating, air conditioning and even to produce electricity.



Institute for Diversification and Saving of Energy  
Ministry of Energy, Tourism and Digital Agenda

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The goal is to make the city more sustainable and to advance in the use of strategies for the optimisation of energy efficiency and to seek funding for new projects.

The Ourense Town Hall wants to implement a Local Energy Action Plan with measures and commitments in what concerns energy sustainability and the mitigation of climate change by supporting geothermal energy.

The goal of the Ourense Town Hall is to implement the use of geothermal energy in heating, air conditioning and DHW urban systems both in public and private buildings through district heating and to assess electricity production through binary cycles.

## INTERNATIONAL COOPERATION

### THE SPANISH PAVILLION AT THE 2017 ASTANA WORLD FAIR, "Energy for the future". Kazakhstan, Astana, June 10 - September 10

On April 24, 2017, the minister of Energy, Tourism and the Digital Agenda, Álvaro Nadal, and the Minister of Foreign Affairs and Cooperation, Alfonso Dastis, presented the Spanish pavilion at the 2017 Astana world fair. Under the slogan "Energy for the planet"; the pavilion will feature a tour through its 868 m2 surface to allow visitors to discover how Spain has become a leading company in renewable energy sources.



The 2017 Astana World Fair is expected to gather 130 official participants between June 10 and September 10: 112 countries and 18 international organisations, and it is expected to draw over 130 million participants.

For more information: <https://expo2017astana.com/en/>