

Plataforma Tecnológica Española de Eficiencia Energética (PTE-ee)

Spanish Energy Efficiency Technological Platform (PTE-ee)

Overview in Spain

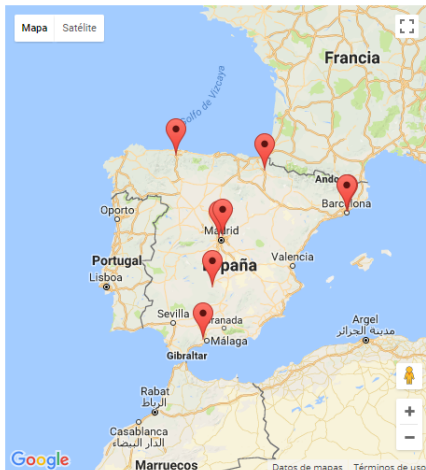
Dr. Oscar Seco
Assistant Secretary General
PTE-ee

PTE-ee is the Spanish Association of energy efficiency companies

► Members

- Total **413**
- Institutions : 11
- CTs, OPIs y Universities : 71
- B. companies : 56
- S. companies : 212
- Association : 63

Mapa Capacidades Tecnológicas de Eficiencia Energética



Muévase por el mapa, haga zoom en la zona deseada y click en las localizaciones marcadas para más información.

Filtrar entidades

Palabras clave

Provincia

Población

Servicio/Capacidad Industria

☐ Industria eficiencia energética
☐ Recuperación de energía en procesos industriales
☐ Valorización energética de residuos industriales
☐ Análisis del ciclo de vida de soluciones de eficiencia energética en la industria

Servicio/Capacidad Edificio-Ciudad

☐ Eficiencia en sistemas de refrigeración y calefacción a nivel de ciudades y de edificios
☐ Planificación urbana y análisis de la disponibilidad de fuentes renovables

FILTRAR RESULTADOS

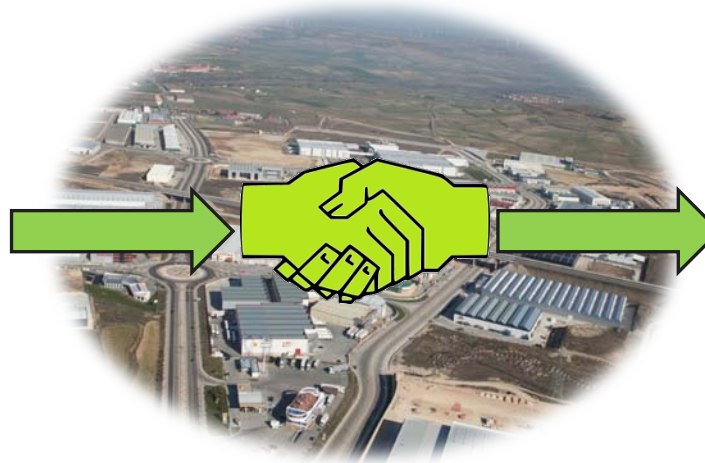
[Ver listado completo de entidades](#)

Capacities Capabilities Map

Energy Saving Engineering

Recovery of heat from the industrial sector to the city

Heat exchangers
between different types of fluids



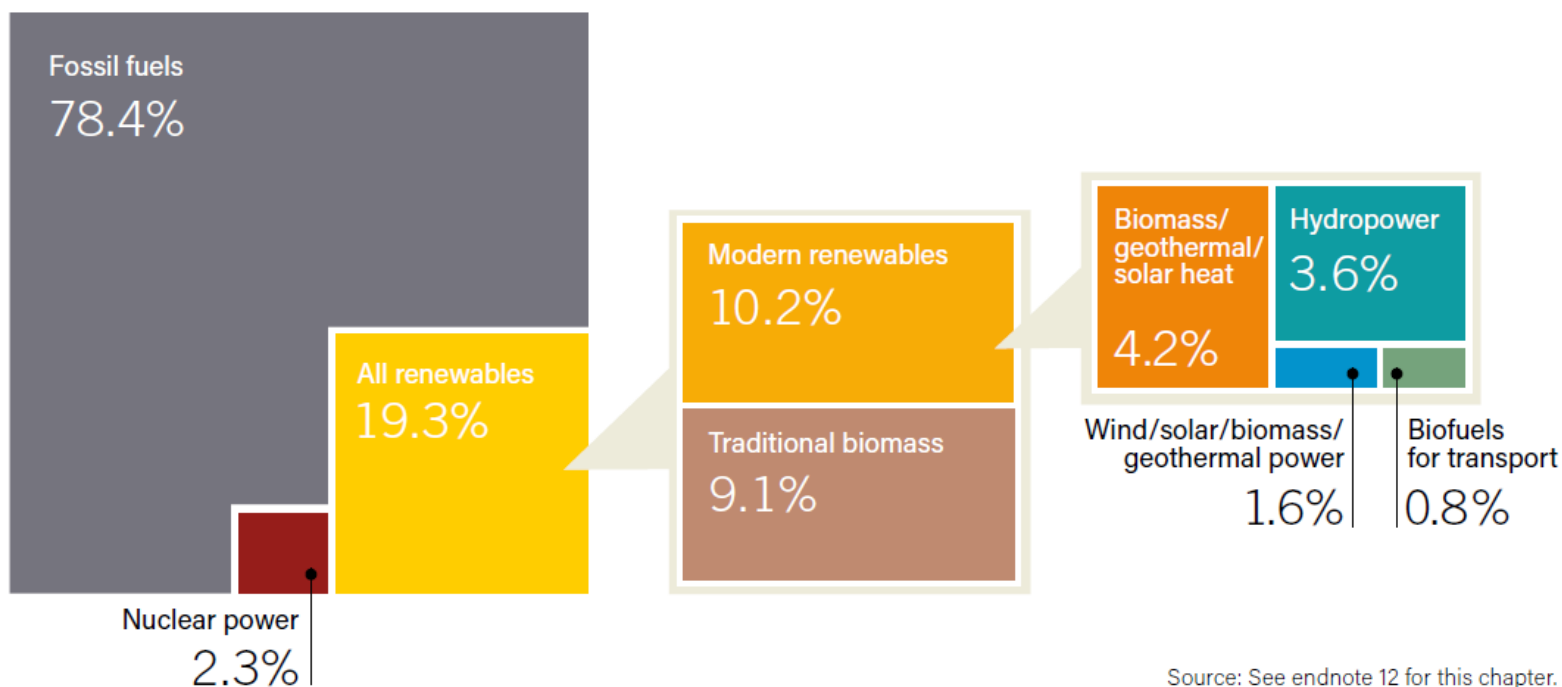
Adapted generators
based on Rankine Organic Cycles



REN 21 RENEWABLES 2017. Global Status Report

FINAL ENERGY CONSUMPTION 2015

Figure 1. Estimated Renewable Energy Share of Total Final Energy Consumption, 2015



Source: See endnote 12 for this chapter.

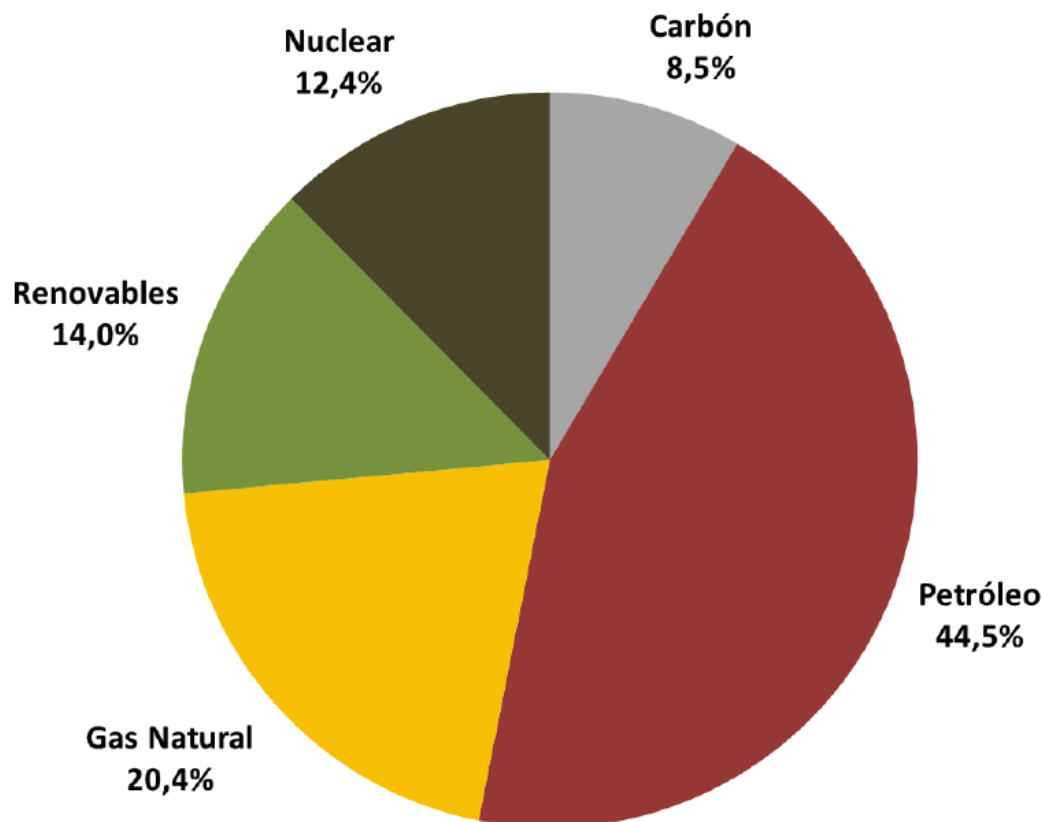
http://www.ren21.net/wp-content/uploads/2017/06/17-8399_GSR_2017_Full_Report_0621_Opt.pdf

Renewable Energy in Spain . Primary Energy (2016)

Source : MINETAD

CONSUMO

- Energía primaria total: 123.484 ktep (+0,2%)
- Contribución renovable: 14,0% (13,9% en 2015)



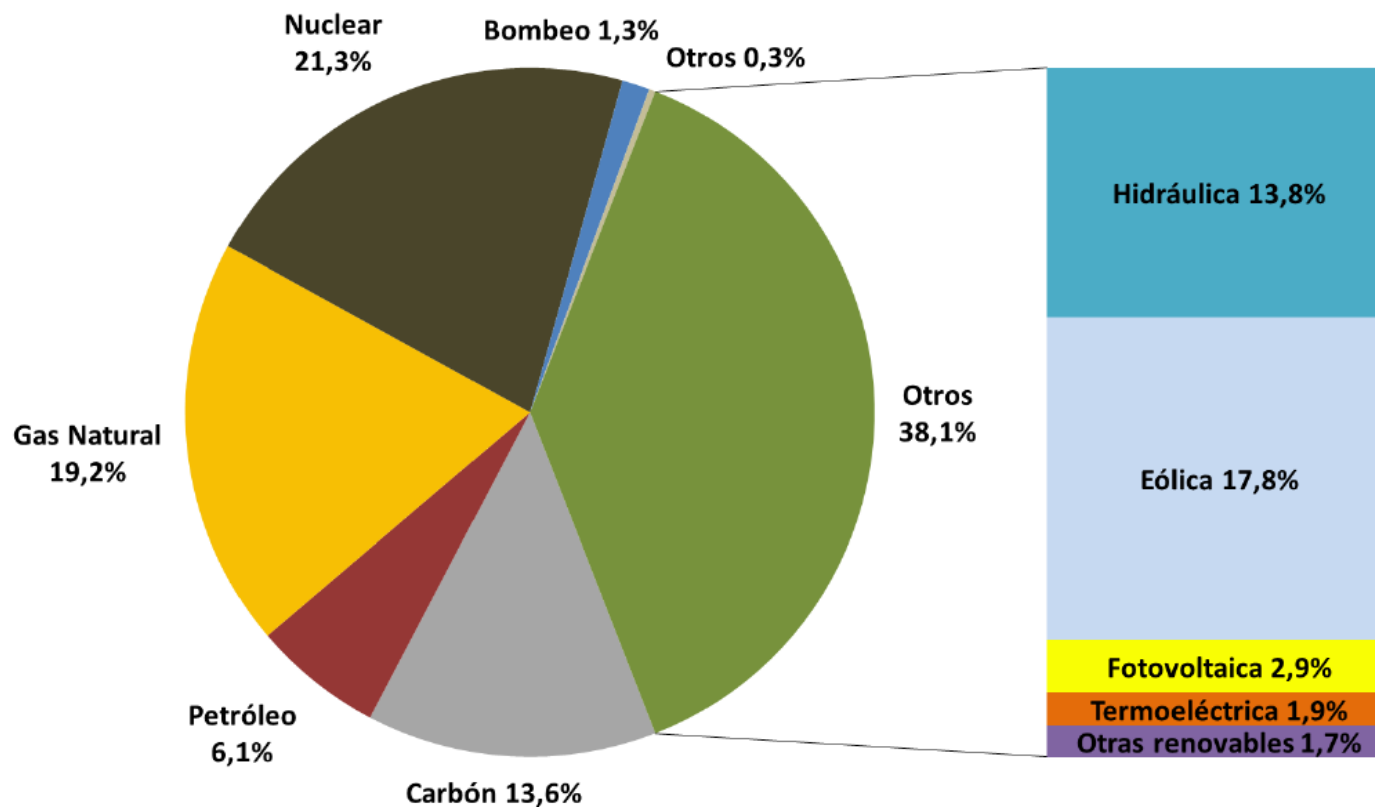
Financiado por:

Renewable Energy in Spain. Electricity (2016)

Source : MINETAD, REE, elaboration: APPA

PRODUCCIÓN

- Producción eléctrica total: 274.629 GWh (-2,27%)
- Contribución renovable: 38,1% (34,6% en 2015)

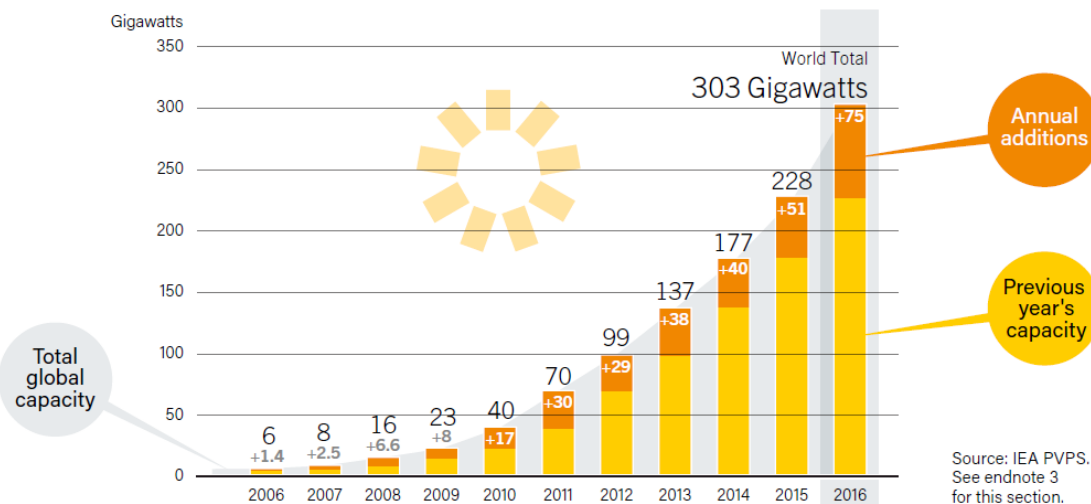


Financiado por:

REN 21 RENEWABLES 2017. Global Status Report

SOLAR PV GLOBAL CAPACITY

Figure 15. Solar PV Global Capacity and Annual Additions, 2006-2016



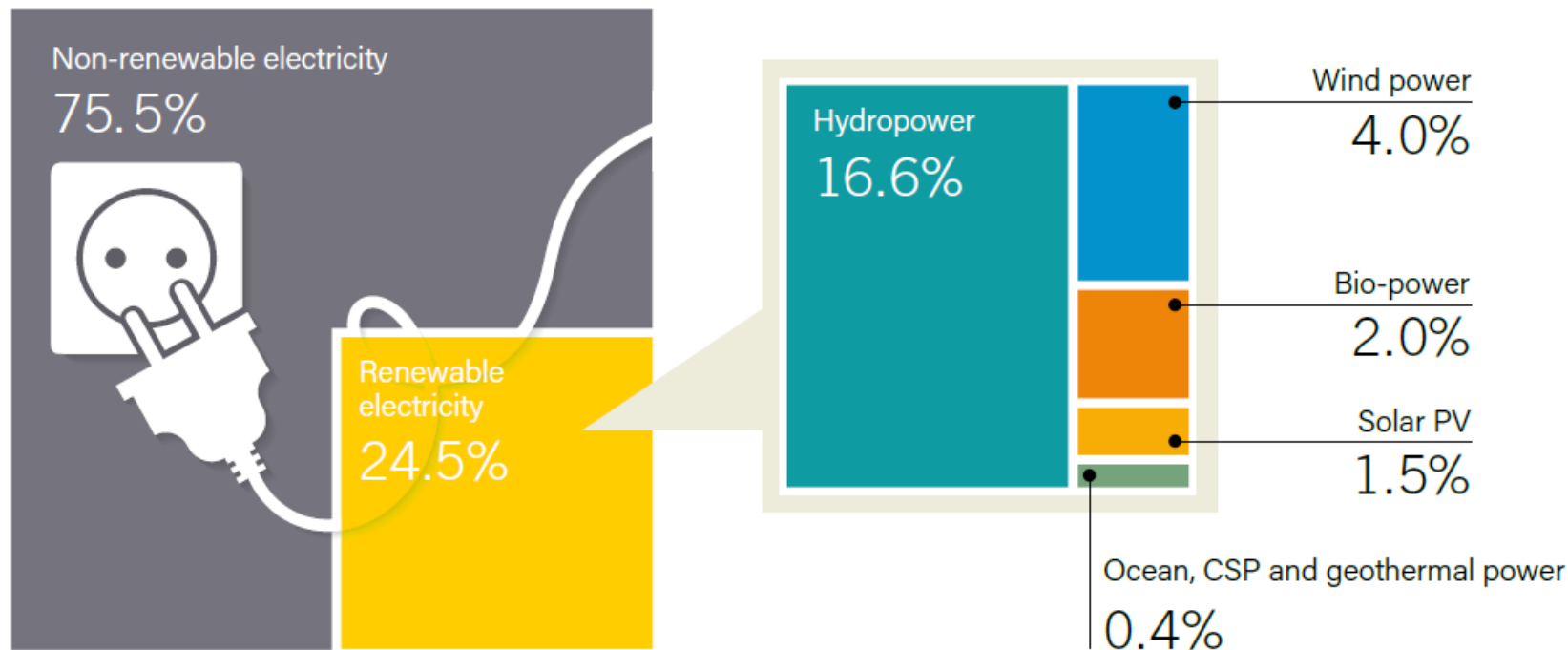
During 2016, at least **75 GW** of solar PV capacity was added worldwide – equivalent to the installation of more than **31,000 SOLAR PANELS EVERY HOUR**.

http://www.ren21.net/wp-content/uploads/2017/06/17-8399_GSR_2017_Full_Report_0621_Opt.pdf

Status Report

ELECTRICITY PRODUCTION 2016

Figure 4. Estimated Renewable Energy Share of Global Electricity Production, End-2016



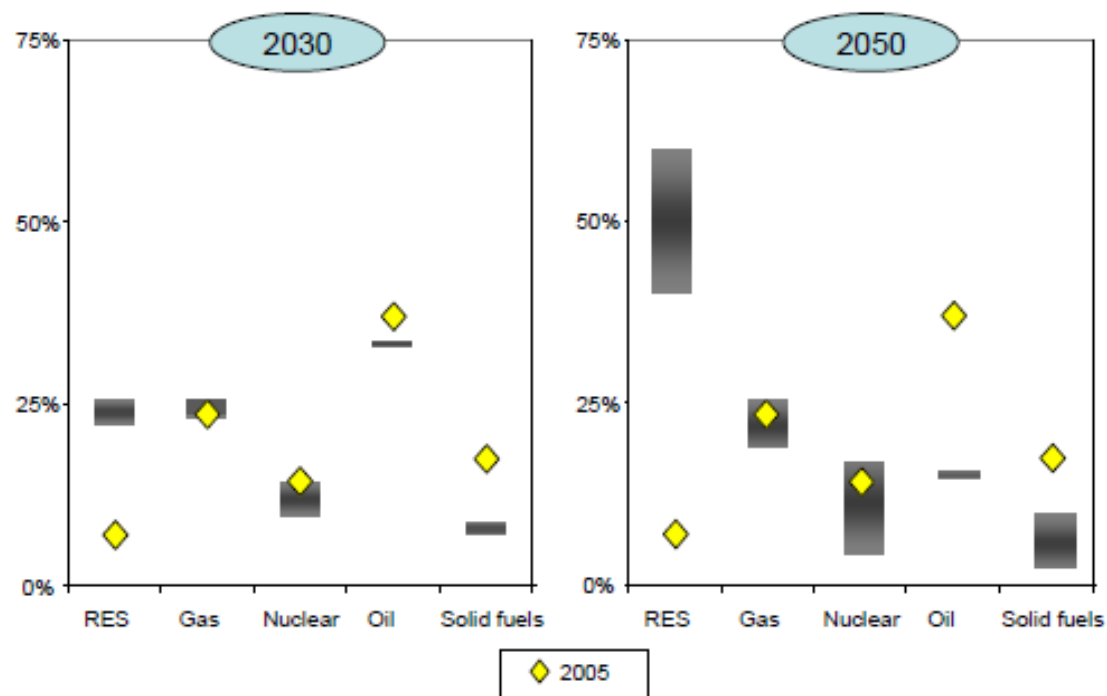
Source: See endnote 36 for this chapter.

Note: Based on renewable generating capacity at year-end 2016

http://www.ren21.net/wp-content/uploads/2017/06/17-8399_GSR_2017_Full_Report_0621_Opt.pdf

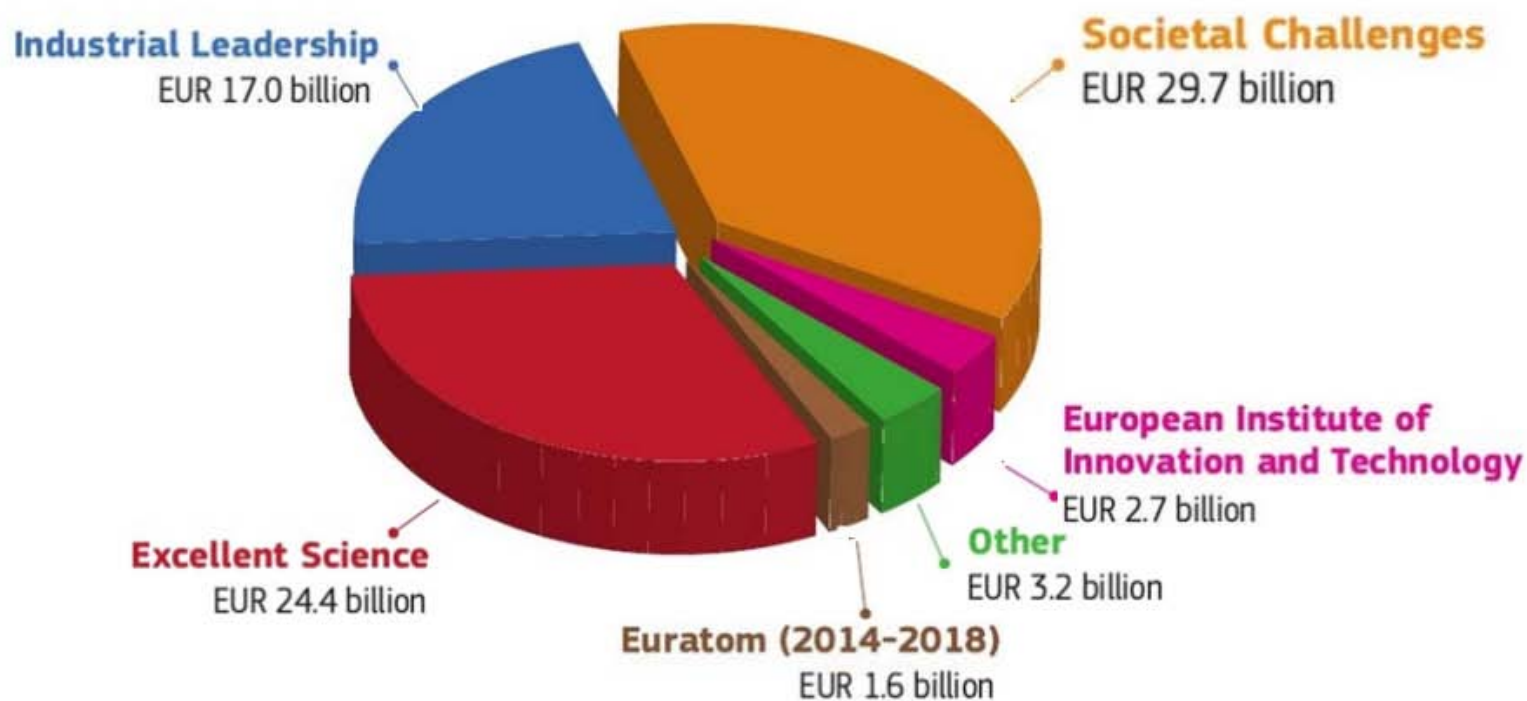
SET PLAN EU ENERGY ROADMAP 2050

Graph 1: EU Decarbonisation scenarios - 2030 and 2050 range of fuel shares in primary energy consumption compared with 2005 outcome (in %)



Ref.: SET PLAN. EU Energy Roadmap 2050

H2020 budget about 80 billion € (2014 – 2020)



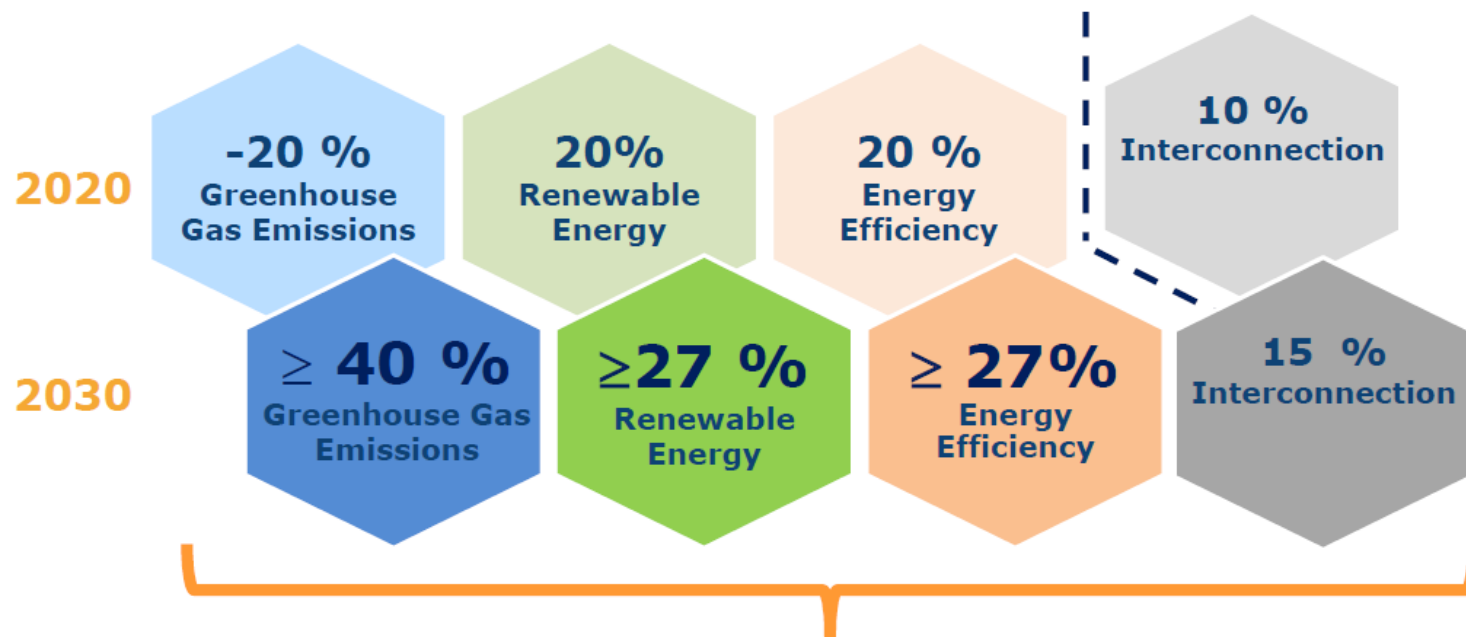
A single programme coupling research to innovation

The EU 2020 climate and energy package (20-20-20)

•OBJETIVOS DE ESPAÑA 2020

- **20,8%** Renewable Energy on final energy (20% EU Directive 2020)
- **11,3%** Renewable energies in transport (10% EU Directive 2020)
- **38,1%** Energías renovables en la producción de electricidad

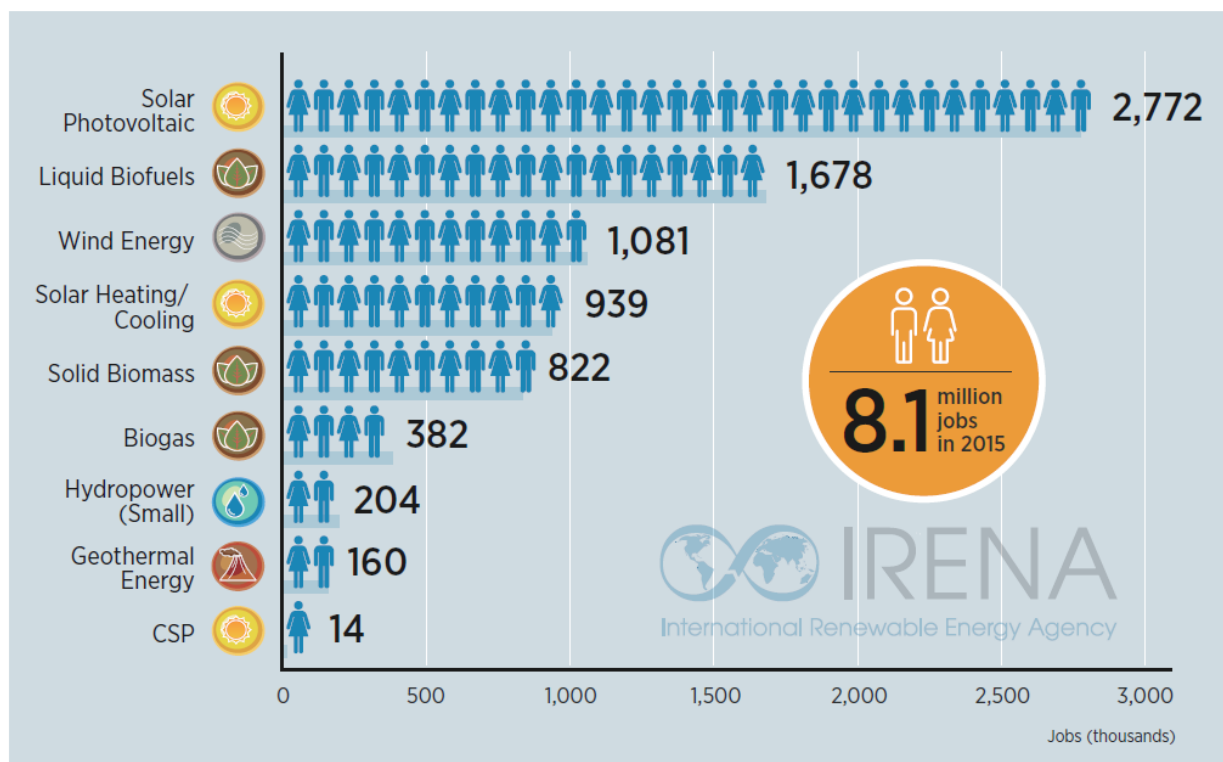
2030 Climate and Energy Framework



New governance system + key indicators

IRENA Renewable Energy and Jobs Annual Review 2016

FIGURE 1: RENEWABLE ENERGY EMPLOYMENT BY TECHNOLOGY



http://www.irena.org/DocumentDownloads/Publications/IRENA_RE_Jobs_Annual_Review_2016.pdf

Plataforma Tecnológica Española de Eficiencia Energética (PTE-ee)

Spanish Energy Efficiency Technological Platform (PTE-ee)

Thank you for attention

Dr. Oscar Seco
Assistant Secretary General
PTE ee

secretaria@pte-ee.org

<http://www.pte-ee.org>