



# Committed to a sustainable energy model

Can you imagine your life with no electricity?  
Our mission is to ensure you are never  
without it, 24 hours a day 365 days a year.



RED ELÉCTRICA DE ESPAÑA



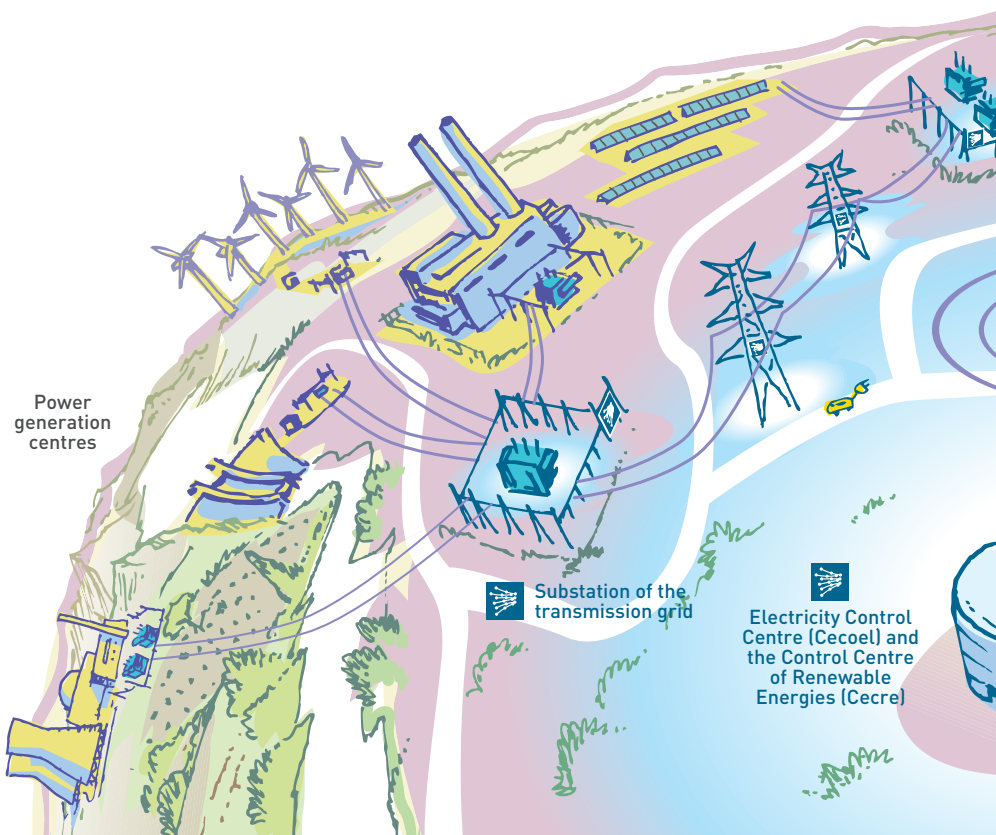
## Who are we?

We are the sole transmission agent and operator (TSO) of the Spanish electricity system. Our mission is to always ensure the continuity and security of the electricity supply.

## What do we do?

Electrical energy cannot be stored in large quantities. For this reason, it is necessary to ensure constant balance between electricity generation and consumption.

To do this, we operate the electricity system 24 hours a day, 365 days a year. In addition, we transport high voltage electricity from the production centres to the distribution points to consumers.





## The 10 principles of our business management model

- Maintain independence from the remaining electricity system agents.
- Demonstrate neutrality and transparency.
- Adopt best practices in good corporate governance.
- Seek business excellence.
- Minimise the impact of our activity on the environment, maintaining a firm commitment towards sustainable development.
- Protect and preserve the natural environment.
- Offer society a secure, efficient and quality service.
- Create value for all stakeholders.
- Promote dialogue, integration and social development.
- Build an organisation based on people.



FTSE4Good



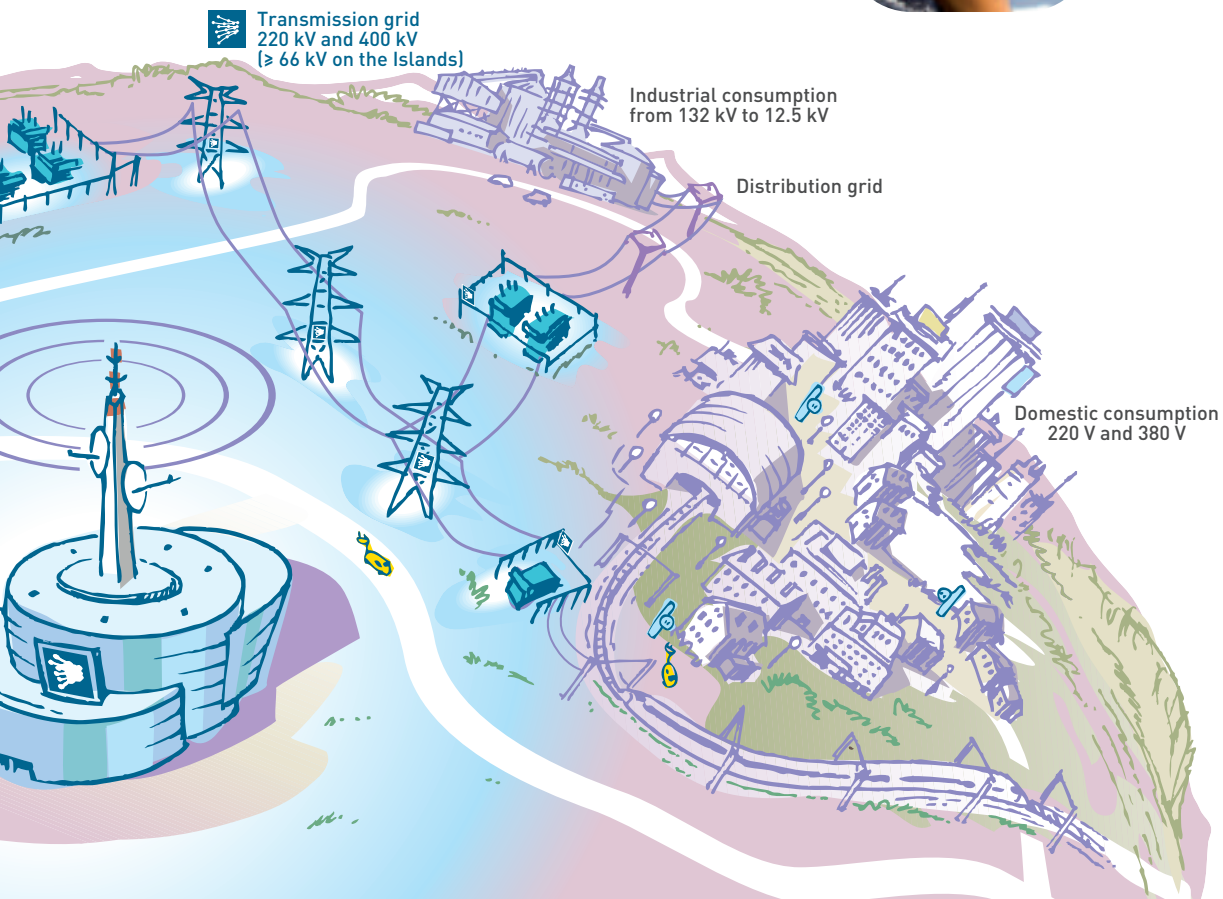
Dow Jones  
Sustainability Indexes  
Member 2012/13



## We work to meet the challenge of making an efficient and sustainable energy model a reality



A team of  
**1,646**  
highly  
qualified  
employees





## Caring for the natural environment where our facilities are located

In Red Eléctrica we make a significant effort to avoid or minimise the possible impacts that some of the aspects derived from our activities may have on the environment. To minimise the possible effects of our facilities, we apply strict environmental criteria in all development phases of the transmission grid.

### Environmental commitment

- Make facilities compatible with their surroundings.
- Assure the protection and conservation of biodiversity.
- Contribute to the fight against climate change.
- Foster energy saving and efficiency.
- Establish measures for the prevention of contamination and the suitable management of waste.

100 % of the projects are submitted to an evaluation of an environmental nature



### Red Eléctrica Forest:

By means of this project we offset part of our CO<sub>2</sub> emissions, we collaborate in the conservation of biodiversity and contribute to the development of local economies, as the reforestation works are carried out by companies or groups in the area.

The amount of emissions offset since the project began in 2009 amounts to 76,796 tons of CO<sub>2</sub>.







## Electricity transmission grid

41,229 km  
of electricity  
lines

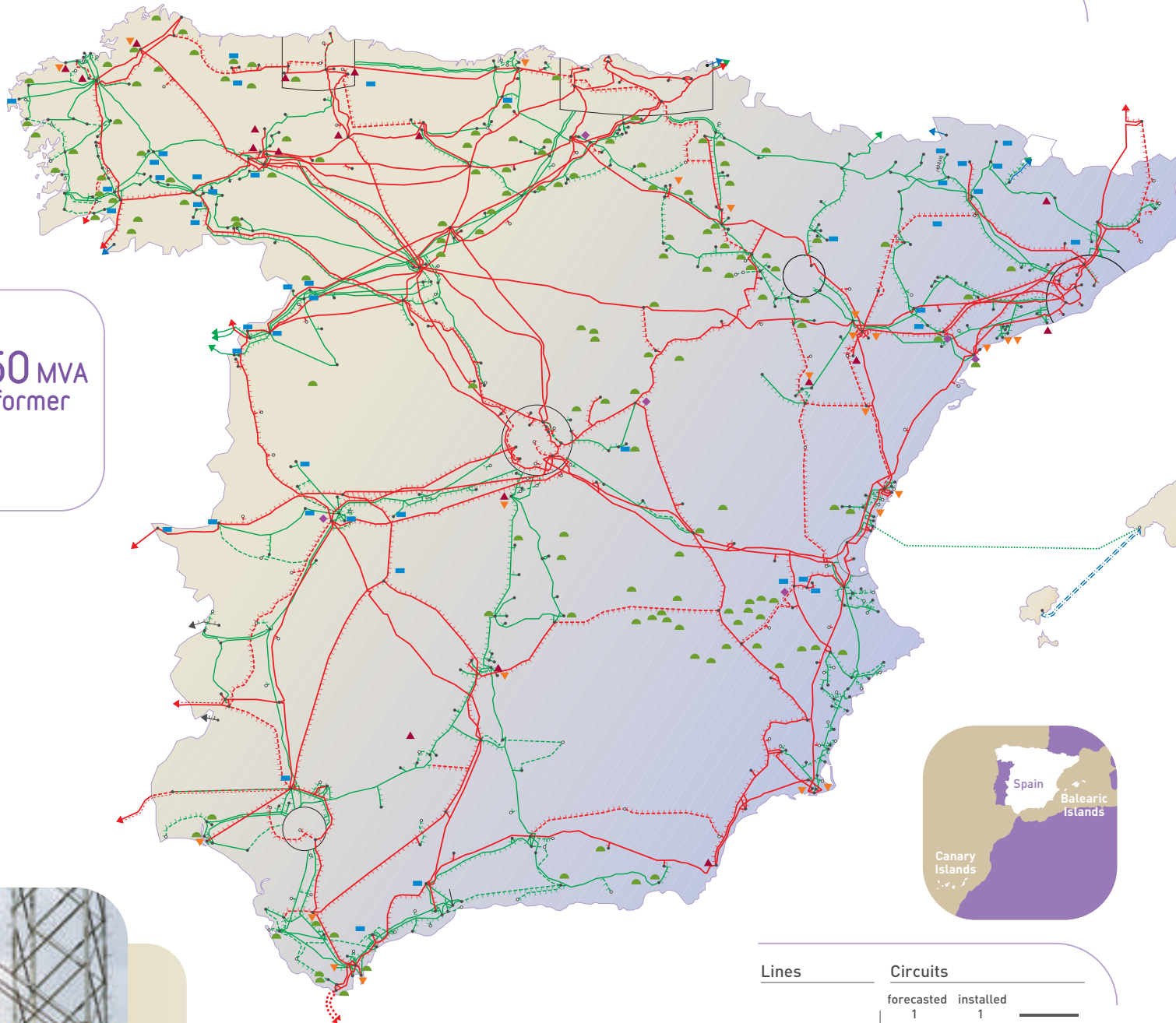
5,053  
substations  
bays

39,886 km  
of overhead lines  
741 km of  
underground cable  
602 km of  
submarine cable

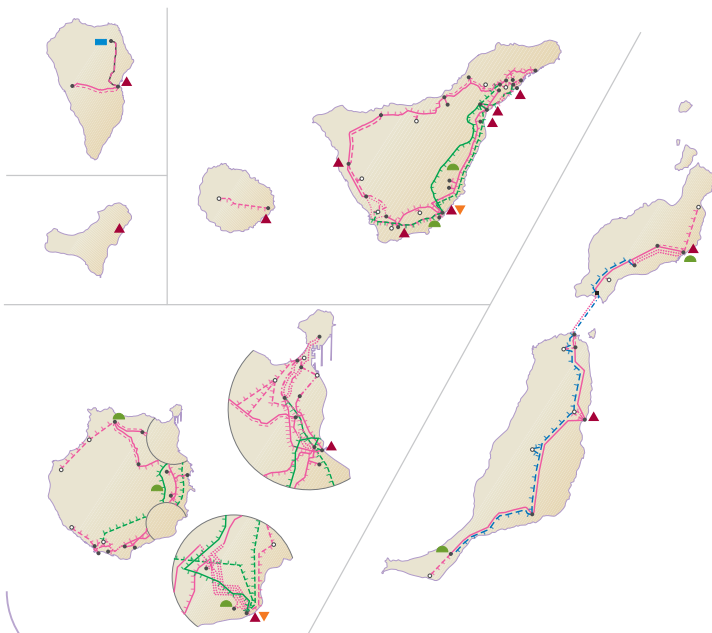
78,050 MVA  
of transformer  
capacity



## Spanish peninsular system



## Canary Islands' system



Lines	Circuits		
	forecasted	installed	
In service	1	1	=====
	2	1	-----
Under construction and scheduled	2	2	=====
	1	1	-----
Underground and submarine	2	1	-----
	2	2	=====
Underground and submarine	in service		●●●●●
	under construction and scheduled		---●---

Substations  
● In service ○ Under construction or scheduled

Voltages  
400 kV ——— 66 kV ———  
220 kV ——— <66 kV ———  
132-110 kV ———

Main power stations  
▲ Classic thermal ▲ Wind power ■ Hydroelectric  
▼ Combined cycle ◆ Nuclear

Note: On the peninsular map, the lines in areas of high grid density are represented in a simplified form.



## We are the key to the Spanish electricity system

**We operate** not only the peninsular, but also the insular and extra-peninsular electricity systems, carrying out this role under the principles of neutrality, efficiency and transparency.

**We transport** electricity at high voltage through our grid: a meshed, robust and reliable grid that consistently provides highly satisfactory levels of quality of service and availability.

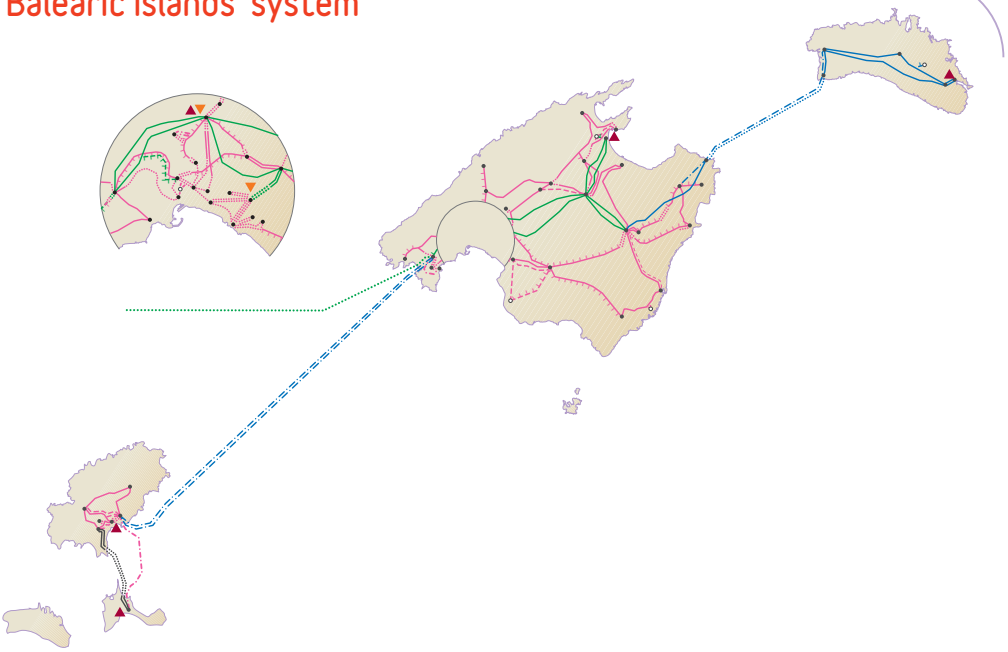


## Transmission grid development

The main actions are geared towards:

- Strengthening of international interconnections.
- Improving transmission grid meshing.
- Facilitating the evacuation of the new installed generation.
- Facilitating the powering of the new lines for the high speed train.
- Supporting the distribution networks.

## Balearic islands' system

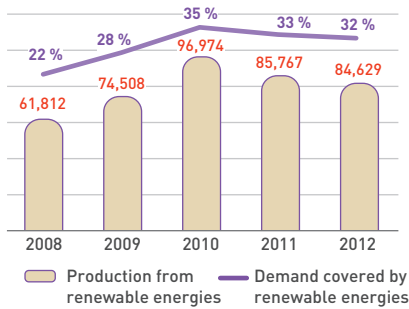


## How do we integrate renewable energy?

We count on the only control centre in the world for the integration of renewable energy: Cece.

Cece allows the maximum amount of production from renewable energy sources, to be integrated into the power system under secure conditions.

### Evolution of renewable energy in Spain



Read QR code  
Video of the Control Centre of  
Renewable Energies (CECRE)



Renewable energies have covered one **third** of the annual demand for the last three years



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