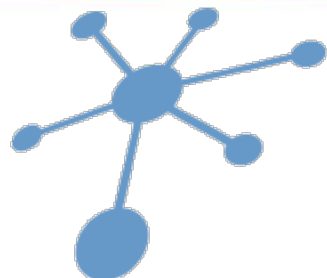


Spain: your partner in
Europe
Business opportunities

Kyoto Smart City

Expo 2015

2015.05



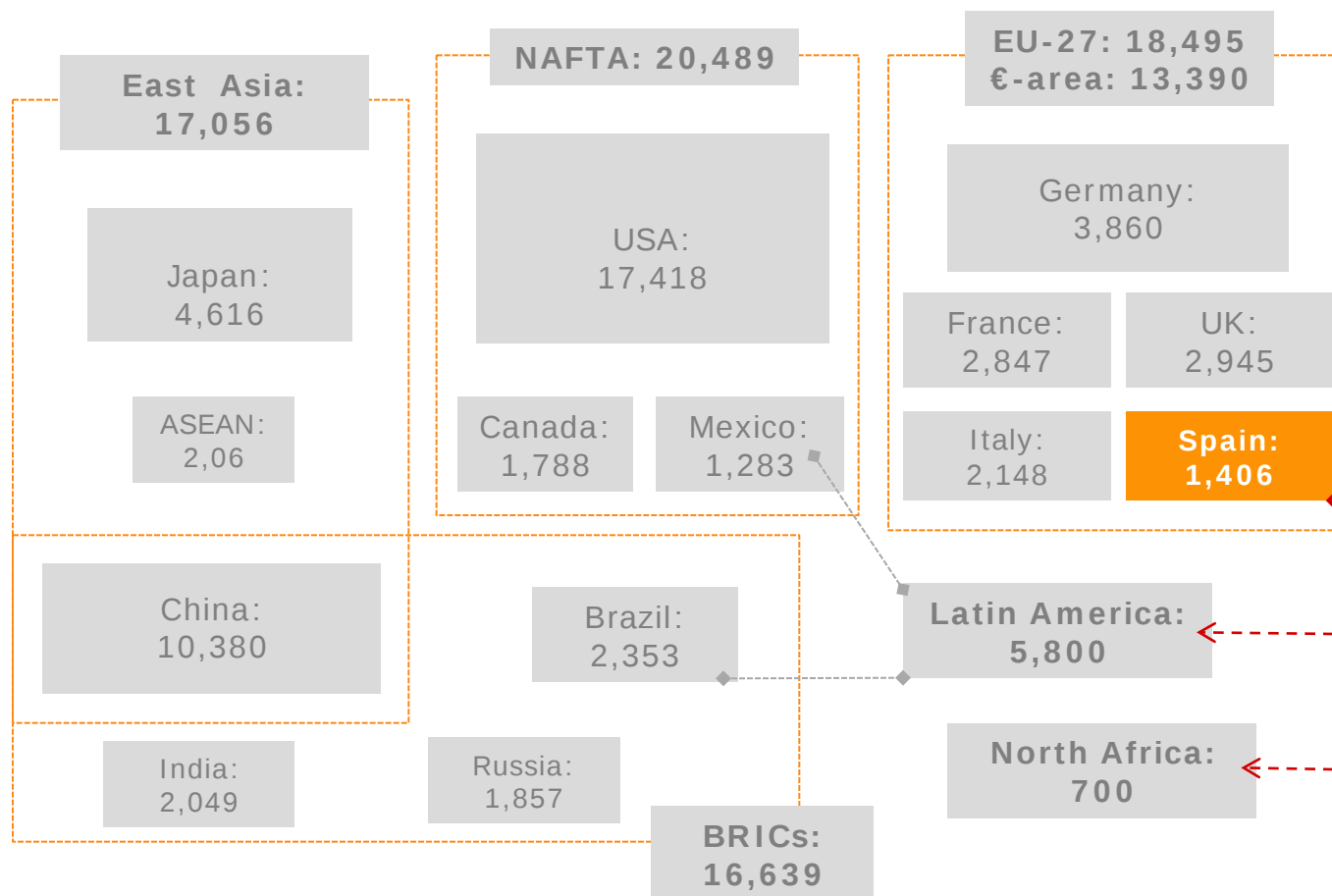
www.spainbusiness.jp
tokio@comercio.mineco.es





The world's 13th largest economy: 1.4 trillions USD

Estimated GDP comparison of major economic regions, USD billions, 2014



The 5th
largest
economy in
the EU

Gateway to
Europe,
Africa and
Latin
America



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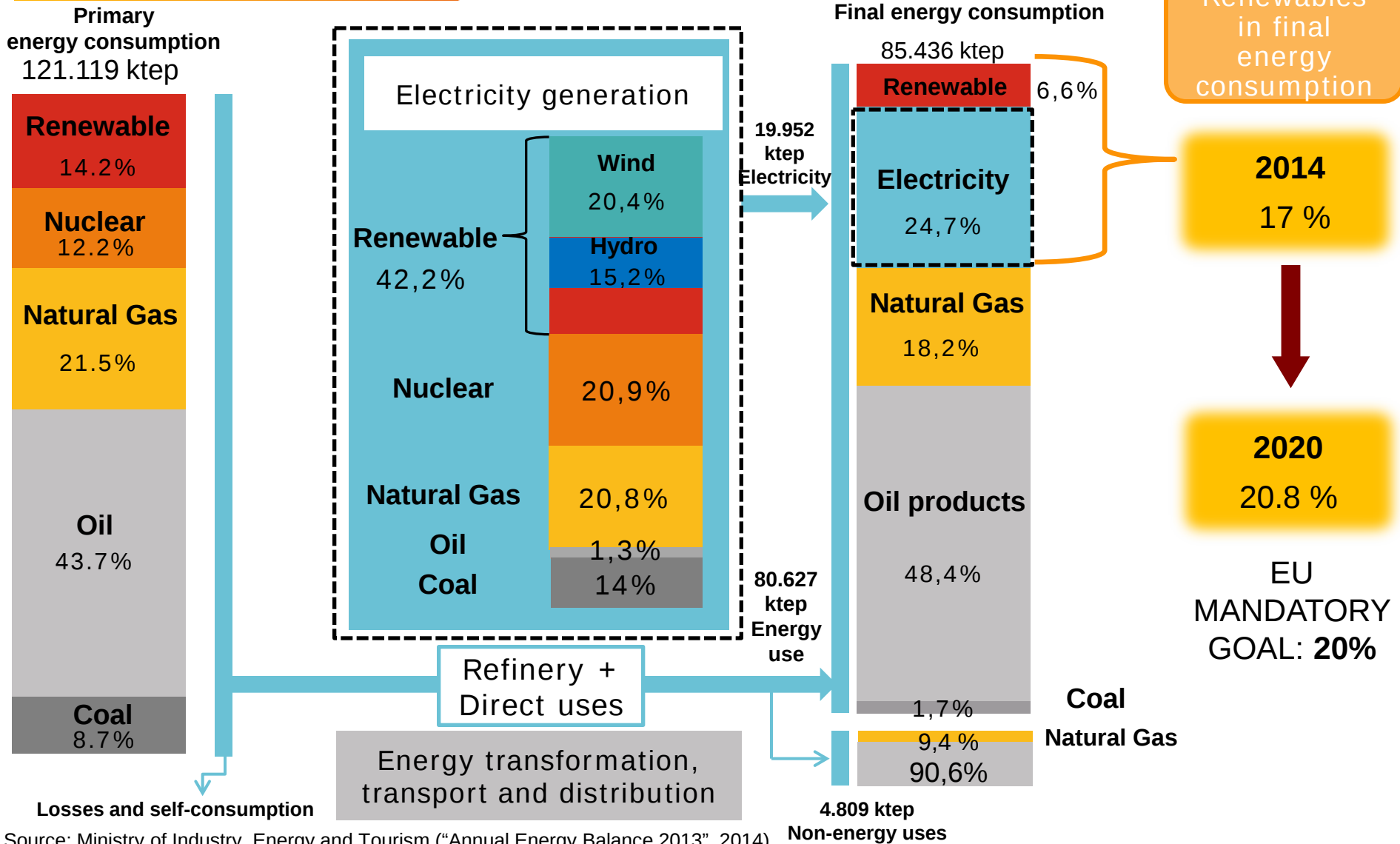
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Spanish energy structure



Source: Ministry of Industry, Energy and Tourism ("Annual Energy Balance 2013", 2014)



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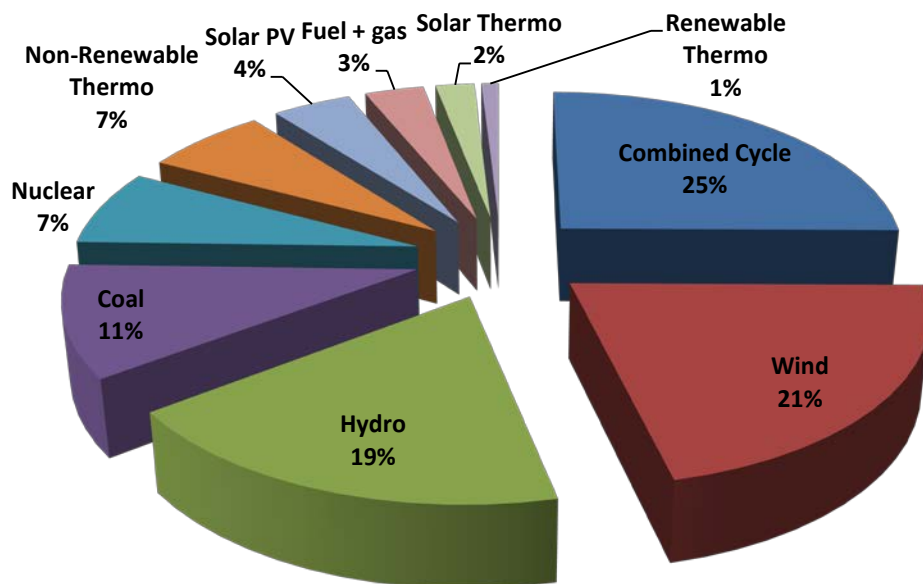
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Electricity generation in Spain

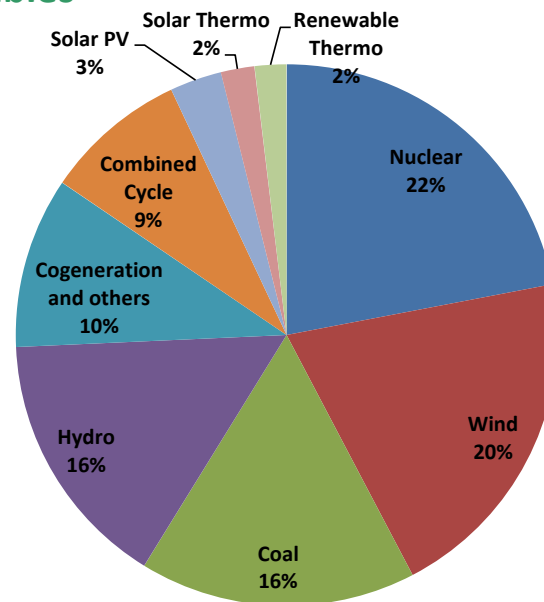
Installed Capacity – 108 GW



Electricity production ~ 240 TWh

Renewables

42,8%



2014

42.8 %

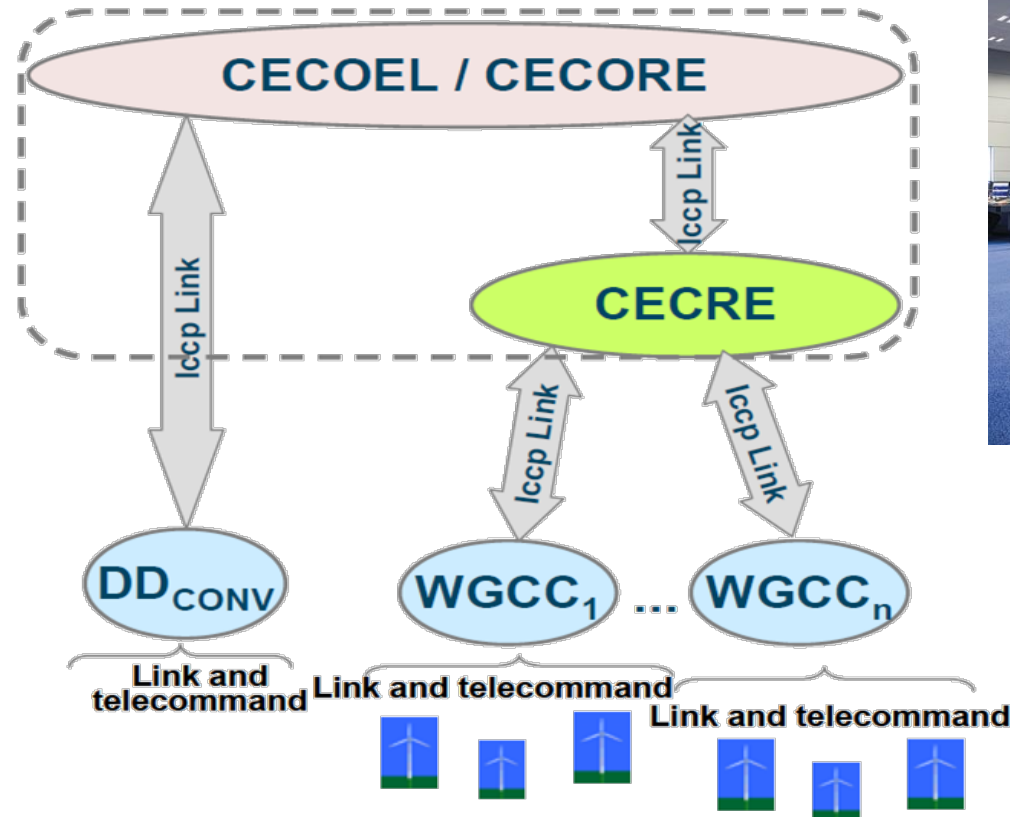


2020

38.1 %

EU recommendation: 34%

Red Eléctrica de España (REE)



1985

Foundation, first in the world

50% public-private shareholders

2006

CECRE - Control Centre of Renewable Energies (first in the world)

2011

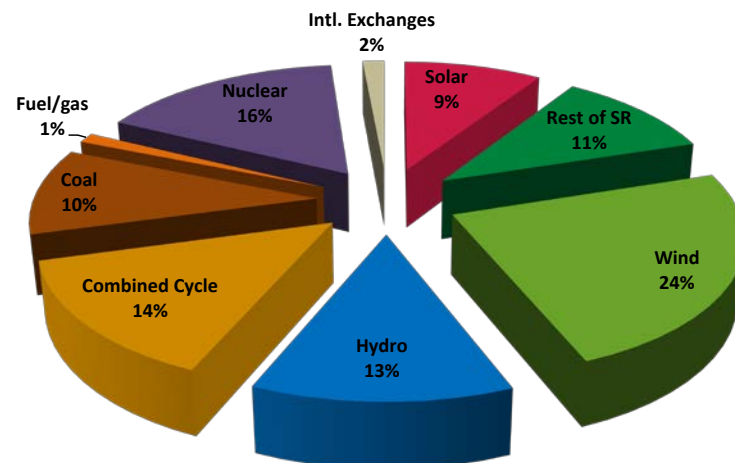
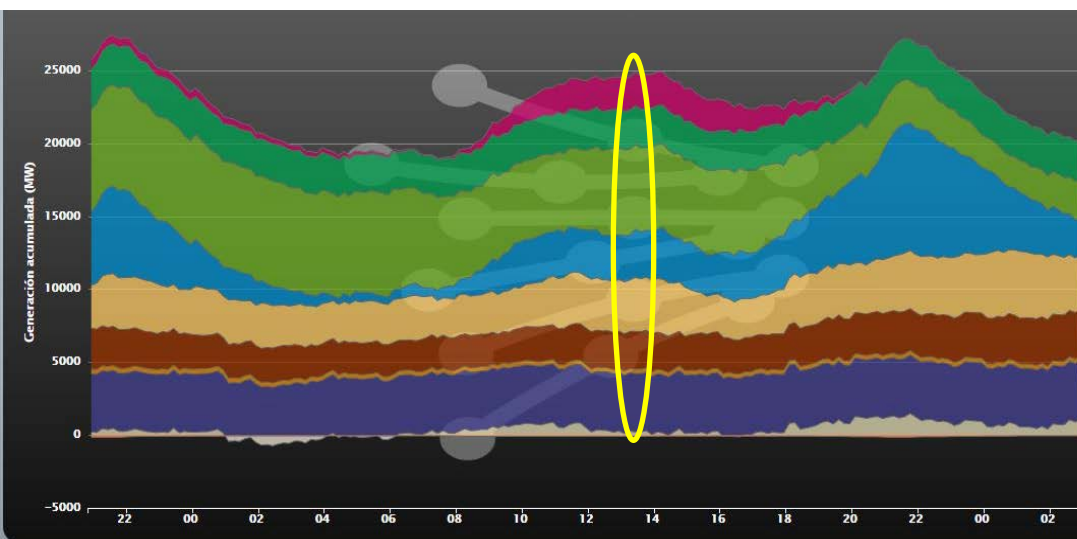
20% public, 80% free float

Spanish demand coverage

2015/5/2 13:30



56,4% coverage from renewable





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Smart meters

regulation

ITC/3860/2007

For all customers < 15kW

2010 – 30% installed

2012 – 50% installed

2015 – 70% installed

2018 – 100% installed

Since July 2010

Electric distributors can only charge customers for new smart meters

companies

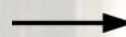


(76% of Spanish market)

2010

100.000

150.000



2015

10 million

13 million

provider

Itron

STMicroelectronics

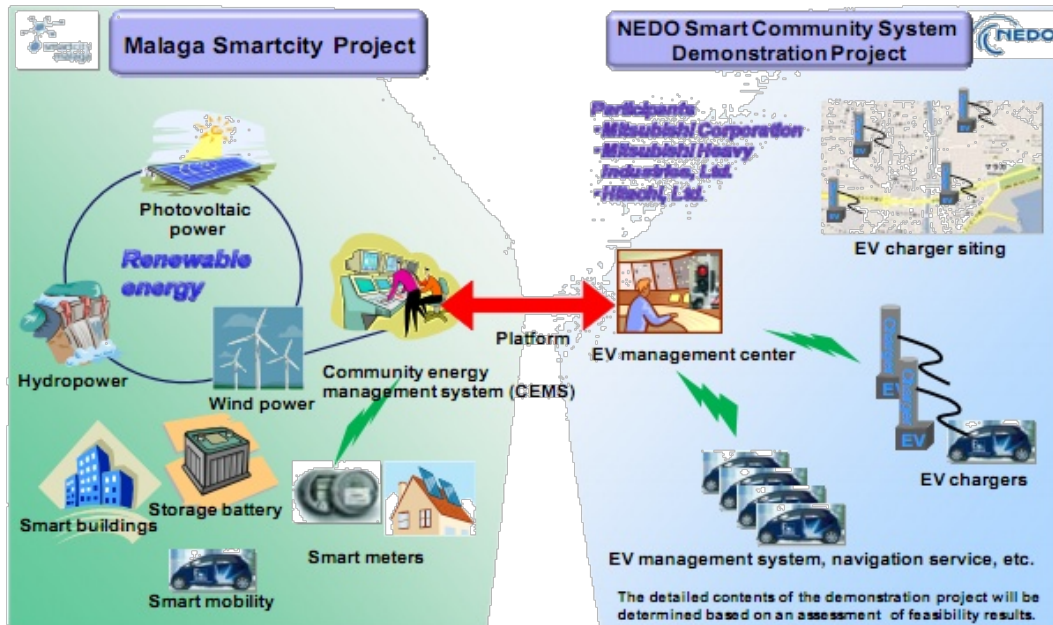


2009 - 2015

Transportation and power sectors, technologies to mitigate the impact of EV charging on power grid networks and to improve the level of convenience for EV users are needed , EV management systems, EV charging facilities



members

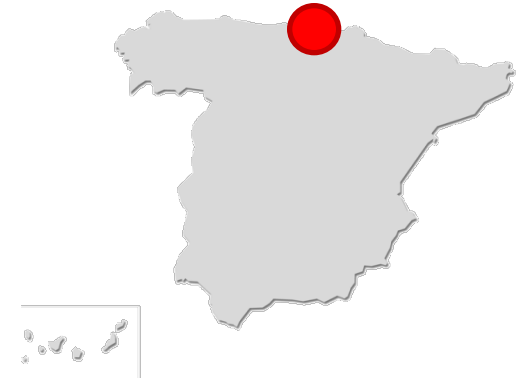


HITACHI
Inspire the Next



Telefonica

6 M€



Massive deployment of an Internet of Things
infrastructure with 12000 sensors

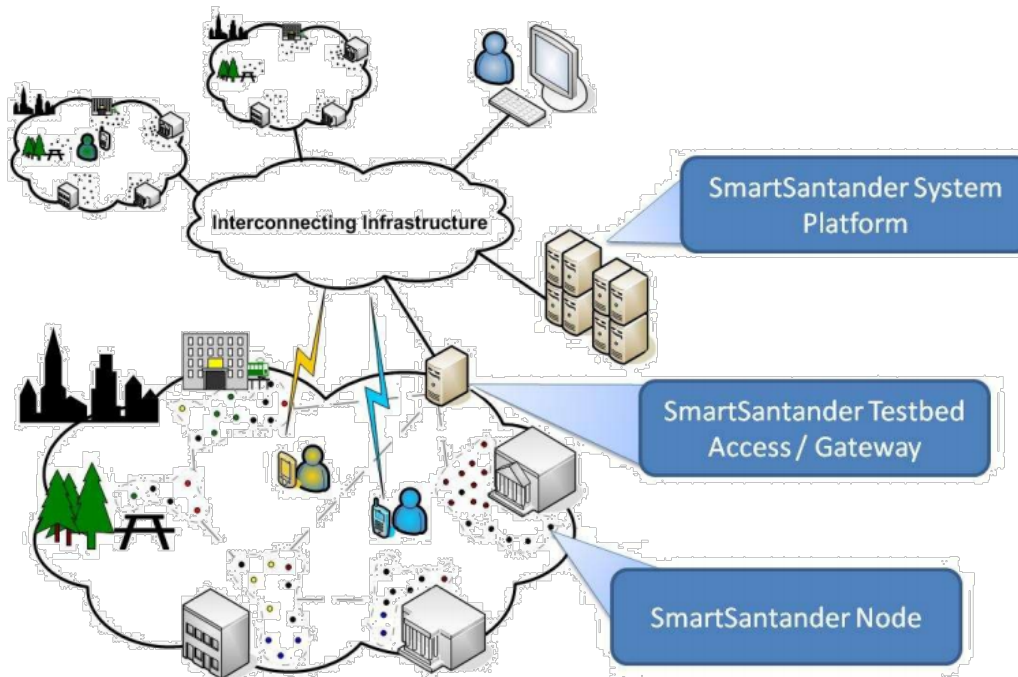
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Telefónica

Alcatel-Lucent 

ERICSSON 

UC
UNIVERSIDAD
DE CANTABRIA



Toshiba's BESS



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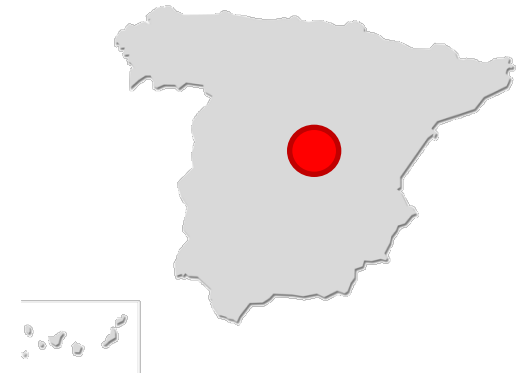
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2013-2018

Alcalá de Henares (Madrid)



Verification testing program of the transportable lithium-ion Battery Energy Storage System (BESS) manufactured by TOSHIBA

members



TOSHIBA

gasNatural
fenosa



2010-



Zero Emission

Zero CO₂. Fun and connected.

A new era of mobility.



Technical & Commercial development of electric vehicle
in Spain and Latin America

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