

# Spain - Energy System Overview

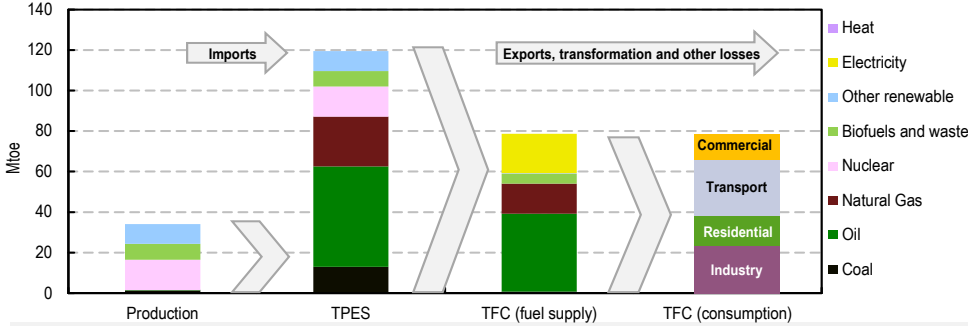


General information	Spain	
Country size	505 000 km <sup>2</sup>	6th compared to IEA countries
Population (2015)	46.464 million	4.1% of IEA population
GDP (2015)	1448.777 billion USD (PPP)	

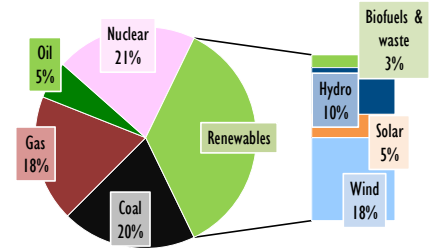
## Energy system transformation

### SUPPLY AND DEMAND 2015

TPES: 119.4 Mtoe, 15% renewables (IEA average 10%)



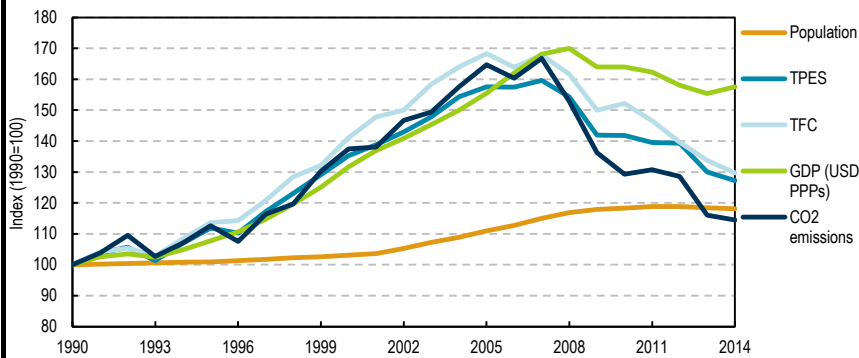
Electricity generation: 277.2 TWh  
36% renewables (IEA average :24%)



### Fuel shares compared to IEA average

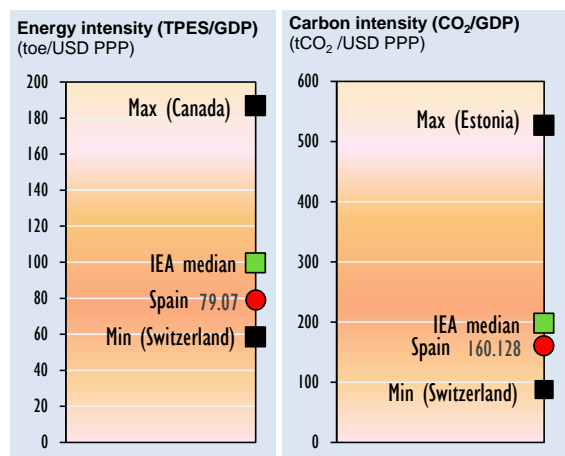
Fuel	TPES	IEA average	Ranking in IEA	Electricity	IEA average	Ranking in IEA
Coal	11%	18%	16	20%	30%	15
Oil	41%	36%	7	6%	2%	3
Gas	21%	26%	16	19%	25%	13
Hydro	2%	2%	13	10%	13%	13
Nuclear	12%	10%	10	21%	19%	11
Biofuels	6%	6%	14	3%	3%	19
Wind	4%	1%	4	18%	5%	4
Geothermal	0%	1%	17	0%	0%	9
Solar	3%	0%	1	5%	2%	5

### KEY ENERGY INDICATOR DEVELOPMENT, 1990-2015



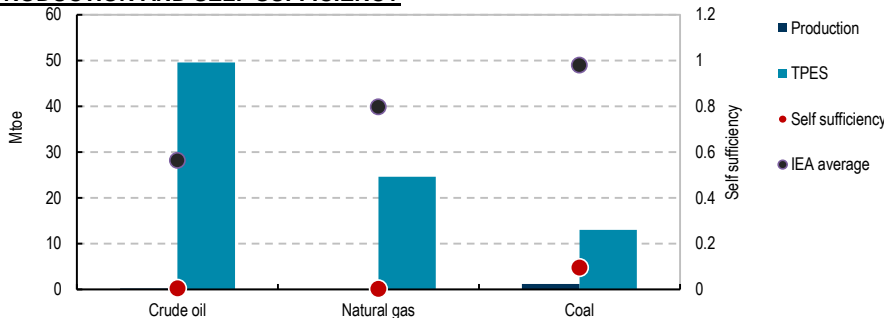
	Spain	IEA average
TPES/Capita (Mtoe/Million)	2.47	4.48
Electricity consumption/Capita (MWh/Million)	5.92	9.22
CO2 emission/Capita (MtCO2/Million)	4.99	10.07

### INTENSITY



## Energy security

### PRODUCTION AND SELF SUFFICIENCY



FUEL	IMPORT COUNTRY
Crude Oil	Nigeria (16.74%)
	Mexico (13.74%)
Oil Products	United States (18.66%)
	Portugal (12.75%)
Natural gas	Algeria (60.03%)
	Nigeria (11.57%)
Coal	Colombia (32.97%)
	Russia (21.2%)

ELECTRICITY	
Imports	Portugal (51.55%)
Exports	Portugal (75.16%)