Policy Background

A European energy policy must pursue the objective of a sustainable, competitive and secure supply of energy. If the EU continues on its present course, this key objective will not be attained. In January 2007, the European Commission adopted an energy policy for Europe. This was supported by several documents on different aspects of energy and included an action plan to meet the major energy challenges Europe faces. Each European citizen must be informed of these challenges and the role they should play in meeting them.

A diversified mix of energies will increase security of supply.

Key Issues

Spain strongly depends on energy imports, while domestic production is mainly related to nuclear energy. Energy demand has increased significantly since 1990. Transport and industry are the most significant energy-consuming sectors. In the electricity sector, coal is still the main fuel, but the contribution of gas, nuclear and renewable sources is remarkably high. Gas has exhibited the most significant increase in the share in electricity generation. Spain has a significant share of electricity generated by renewable sources and has become the second largest country in the world in terms of installed wind capacity. The increase of both gas and renewable sources in the electricity mix are important in terms of climate change.

Key Figures (2004)						Key Indicators (2004)		
	Primary				Electricity		SPAIN	EU-27
Mtoe	Energy Supply	Domestic Production	Net Imports	Final Energy Consumption	Generation (TWh)	Energy per capita (kgoe/cap)	3 285	3 689
Solid fuels	21.1	6.5	14.2	1.9	79.1	Energy intensity	197	185
Oil	68.9	0.3	75.5	52.1	23.8	Energy import	77 4	50.1
Gas	25.2	0.3	24.6	16.8	56.7	dependency %	//.4	50.1
Nuclear	16.4	16.4			63.6	CO ₂ Emissions (Mt)	326	4 004
Electricity				19.8		CO ₂ intensity	2.3	2.2
Renewables	9.0	9.0		3.8	50.2	(tCO_2/toe)		
Other	-0.3				6.5	(kg/cap)	7 632	8 180
Total	140.2	32.4	114.3	94.3	280.0	(3 1-)		
The source for a	all data is the	European Cor	nmission,	stated				
2004 Primary Energy Supply					2004 Domestic Production			
Benewables 6% Solid fuels 15% Gas 18% Oil 49%					Renewables 20% Oil 1% Gas 1% Nuclear 50%			

Primary Energy Supply

Oil and natural gas dominate Spain's primary energy supply, with an aggregate 67% of total. The consumption of both sources, but mainly of gas, has increased dramatically in recent years (total increase for both of 125% since 1990). The consumption of renewable sources has also increased significantly and in 2004 was at the EU-27 average (6%). Solid fuel consumption has increased only slightly since 1990, while remaining below the EU-27 average (18%).

Domestic Production

The domestic production of Spain is mainly focused on nuclear energy, whose share (50%) is much higher than the EU-27 average of 28%. The share of renewable sources has increased substantially since 1990 being far above the EU-27 average of 12%. On the other hand, the production of solid fuels (mainly coal and lignite) used to be quite important in the past but has since declined and is slightly below the EU-27 average (22%).



Final Energy Consumption in Spain has increased significantly since 1990 (66%). Transport is the greatest energy-consuming sector, with 40% share of total final energy consumption in 2004 (above the EU-27 average of 31%). It has also exhibited significant growth, with an increase of 72% over the period 1990-2004. Industry is another important energy-consuming sector, with 22% share in total consumption, while the commercial sector has exhibited the largest growth since 1990 (116%). Oil dominates in terms of the type of energy consumed, with a significant contribution also by natural gas and electricity.

For further information

If you want to find more data on Spain or other Member State energy markets, go to <u>http://epp.eurostat.ec.europa.eu/</u> http://ec.europa.eu/dgs/energy_transport/figures/pocketbook/2006_en.htm

Further fact sheets on Spain and other Member States can be found on: <u>http://ec.europa.eu/energy/energy_policy/facts_en.htm</u> What is meant by.....?

12%

Transport 40%

Households

Energy Import Dependency shows the extent to which a country relies upon imports in order to meet its energy needs. It is calculated using the following formula: net imports / (primary energy supply + bunkers)

Energy Intensity gives an indication of the effectiveness with which energy is being used to produce added value. It is defined as the ratio of Primary Energy Supply to Gross Domestic Product

Final Energy Consumption is the energy finally consumed in the transport, industrial, commercial, agricultural, public and household sectors. It excludes deliveries to the energy transformation sector and to the energy industries themselves

LNG (Liquefied Natural Gas): Natural gas processed to take a liquid form in order to make it more cost-efficient to transport over long distances where pipelines do not exist

Primary Energy Supply: The quantity of energy consumed within the borders of a country: primary production + recovered products + imports + stock changes - exports - bunkers (i.e. quantities supplied to sea-going ships)

Disclaimer

Views expressed in this document have not been adopted or in any way approved by the European Commission and should not be relied upon as a statement of the Commission's views.

The Commission does not guarantee the accuracy of the data included in this document, nor does it accept responsibility for any use made thereof.

Industry