

The Andalusian Energy Plan 2003-2006 (PLEAN 2003-2006) is the strategic planning and coordination instrument of sectorial policies in the area of energy infrastructures, the promotion of renewable energies, as well as actions carried out in the areas of energy saving, efficiency and diversification that are developed in Andalusia in the period considered.

The general criteria for the elaboration of the Andalusian Energy Plan 2003-2006 is based on modifying the energy system within Andalusia, until reaching the following objectives:

- Guarantee of energy supply to all of the Andalusian territory and its population.
- Promoting energy saving and efficiency.
- Maximising respect for the environment.
- Promoting energy diversification.
- Improving the generation, transport and energy distribution infrastructures of the region.
- Promoting a competitive industrial network.
- Favouring the formation and awareness of the citizens.

The above-mentioned points are reflected in the general objective that formulates the Energy Plan:

<<To obtain an Andalusian energy system:
sufficient, efficient, rational, renewable and respectful
with the environment>>

The Andalusian Energy Plan (PLEAN) is the result of a complex technical process and an important effort between the Administration and different economical, trade unions and social actors of the region. Its final approval by the Governing Board of the Andalusian Regional Government (Junta de Andalucía) was made through Decree 86/2003, of 1st April.



N

A

E

>

d

MORE INFORMATION: www.plean2003-2006.com



CONSEJERÍA DE EMPLEO Y DESARROLLO TECNOLÓGICO

Andalusian Energy Plan 2003-2006

P L E A N



The Andalusian Energy Plan 2003-2006 structures the actions in four sections: promotion of renewable energies, energy saving and efficiency, infrastructure of generation, transport and distribution of electricity, and infrastructure of gas transportation and distribution.



Promotion of renewable energies

The obligation for this working line is to:

<<Outline the path so that 15% of the total energy demanded by the Andalusian people in 2010 comes from renewable energy sources, obtaining a significant number of this percentage (10.6%) in 2006>>

	Situation in Andalusia as of 31/12/2000	Situation in Andalusia in 2006	Situation in Andalusia in 2010
Solar thermal (m ²)	130.552	411.552	1.046.552
Solar photovoltaic (kWp)	3.618	10.500	23.801
High Temperature Solar Thermal (MW)	0	100	230
Wind (MW)	146,2	2.700	4.000
Hydro special regime (MW)	78	102	128
Hydro ordinary regime* (MW)	475	475	475
Electricity generation from biomass (MW)	51	164	250
Thermic uses of biomass (ktoe)	638	643	649
Biofuels (ktoe)	0	90	210

Primary Energy demand covered by renewable sources (%) 5,7 10,6 15,0

* Excluding power pumping stations



Energy saving and efficiency

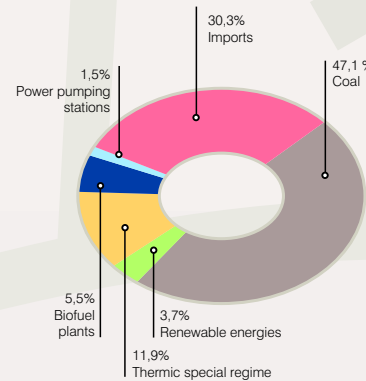
Goal: To obtain a primary Energy saving of 4,07% (774,8 ktoe) in 2006, 7,5% (1.549,6ktoe) for 2010, distributed in the following way:

	2006	2010
Cogeneration	172,7	339,2
Substitution by natural gas	7,5	14,8
Service sector	58,6	82,4
Residential sector	55,6	93,4
Transport sector	202,6	508,9
Industrial sector	157,3	239,2
Transformation sector	120,6	271,7
Total	774,8	1.549,6

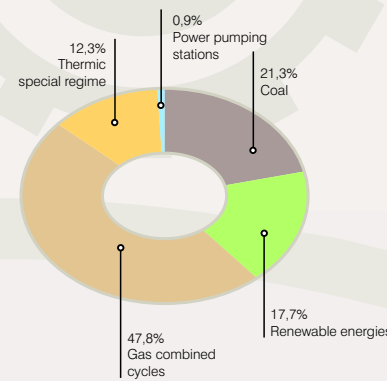
Unit: ktoe

Scenario of Saving

Covering of the electricity demand in 2000



Prediction of the electricity generation structure in 2006



GROSS ANDALUSIAN GENERATION: 21.017 GWh
IMPORTS: 9.132 GWh
RATE OF SELF-GENERATION: 69,7%

GROSS ANDALUSIAN GENERATION: 44.318,3 GWh
EXPORTS: 6.997 GWh
RATE OF SELF-GENERATION: 118,7%



Electricity infrastructure

The objectives in the Andalusian Energy Plan 2003-2006 relating to the electricity system are:

- To obtain, at least, electricity self-generation in 2006.
- To improve the infrastructure of transport and distribution in a way which guarantees the quality of the electricity supply, allows the evacuation of all electricity generated and improves the voltage levels in the region.
- To rebalance the rate of electricity generation in Andalusia so there exists no disagreements among generating and consuming territories.
- To favour the installation of generation plants with high efficiency and low environmental impact.



Gas infrastructure

The Andalusian Regional Government (Junta de Andalucía) is aware of the important role that natural gas plays as an option to reduce the actual dependence on petroleum, to improve energy efficiency, to increase the economic development and to reduce emissions into the atmosphere.

The gas infrastructure proposed in the Plan establishes an energy system which is more decentralised and socially fair, which will allow the access to natural gas for a high percentage of the Andalusian population in upcoming years. In this sense, the objectives of this working line are:

- To be in disposition of supplying natural gas to 90% of the population in towns of more than 20,000 inhabitants.
- To make the channeled natural gas reach the eight Andalusian provinces.



Proposed Norms

The Energy Plan includes two proposals that will have a huge relevance in the Andalusian energy sector in upcoming years. These proposals are:

- The creation of the Andalusian Energy Agency
- The announcement of the Law for the Promotion of Renewable Energies and Energy Saving and Efficiency in Andalusia