

Andalusian Energy Agency



Agencia Andaluza de la Energía
CONSEJERÍA DE ECONOMÍA, INNOVACIÓN, CIENCIA Y EMPLEO

The Andalusian Energy Agency in brief

Public entity created in 2005, assigned to the Regional Ministry of Economy, Innovation, Science and Employment of the Andalusian Government

- ✓ **Mission:** To optimise the energy supply of Andalusia from an economical and environmental point of view.
- ✓ **Strategy:** An adequate energy planning, adapted to the reality of the region, in agreement with all the economic and social market actors: **Andalusian Sustainable Energy Plan (Plan Andaluz de Sostenibilidad Energética 2007-2013 (PASENER) & Energy Strategy for Andalusia 2014 -2020.**
- ✓ **Objective:** A new more sustainable **energy model.**



The Andalusian energy model

Renewable electricity power has multiplied by 4 since 2006. With 5,939 MW it represents **38.0%** of the total power, **97.2%** of the 2013 objective.



The **contribution of renewable energy sources** to the primary energy structure is estimated at **19.3%**, **reaching the target set for 2013.**



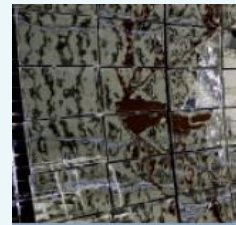
Generation with renewables is equivalent to **33.9%** of the electricity consumption of the Andalusian citizens, **reaching the objective set for 2013.**



The **energy saving accumulated** is equivalent to **4.8%** of 2006 consumption, which represents **60.1% of the 2013 objective.**



Primary **energy intensity** stood at **3.1%** below the base year, 2006, **exceeding the target set for 2013.**



The consumption of **biofuels** represents **10.1%** of the consumption of petrol and diesel in transport, **above the 2013 target.**



The **TIEPI** stands at **1.38 hours**, fulfilling what has been established in the planning for 2013.



Of the 73 municipalities of between 10,000 and 20,000 inhabitants, 42 are already in a **position to be supplied with gas.** With an indicator of **60.4%**, **the fulfillment of the 2013 target is estimated at 75.5%.**



The **CO2 emissions by electricity generation unit** were reduced by **15.3%** with respect to 2006, which represents **76.5% of the fulfillment of the objective for 2013.**



The accumulated **avoided emissions** reached **8.1 million tons** of CO2, representing **73.7% of the target for 2013.**



The **contribution of renewable energy sources** accounts for **29.4%** of the final energy consumed by Andalusian citizens, **exceeding the target set for 2013.**

The Andalusian energy model: Importance of renewable energies

Renewable energies by technologies (parametric)	Monitoring 2012	PASENER 2013
Hydraulic special regime (MW)	151.8	148
Hydraulic ordinary regime (MW)	465.6	476
Wind power (MW)	3,320.8	4,800
Solar photovoltaic (MWp)	882.4	400
Thermal solar (m ²)	806,406	1,341,554
Solar thermoelectric (MW)	997.4	800
Biomass thermal use (toe)	635.2	649
Biomass for electricity generation (MW)	257.0	256
Co-firing of biomass (MW)	0	122
Biogas thermal use (ktoe)	7.8	3
Biogas for electricity generation (MW)	27.7	20.1
Biofuels consumption (ktoe)	364.0	460
Biofuels production (ktoe)	1064.3	2,300



High level of compliance with respect to planning

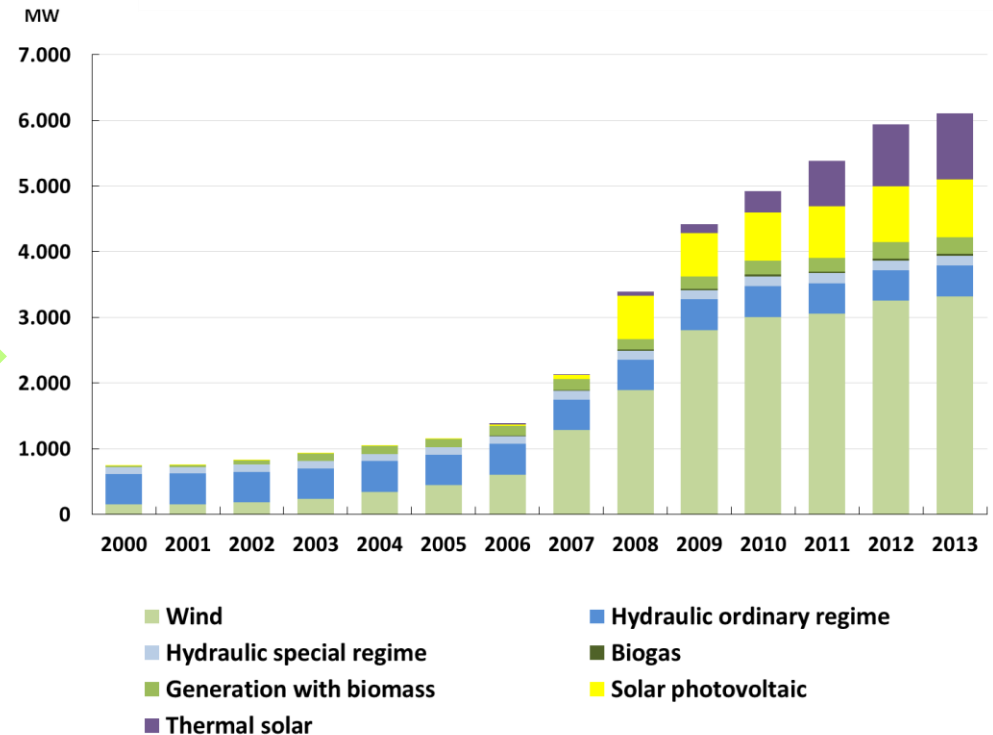
* Data up to December 2012

The Andalusian energy model: Importance of renewable energies

Evolution of **installed power** by technologies and gross electricity production using renewable energy sources in Andalusia.
Total as of 31 December 2013: **6,106 MW**.

Electrical power from renewable energy sources has **multiplied by 8** in the period 2000-2013

Accounts for **38.6%** of **total electricity** in 2013 (Provisional)



The Andalusian energy model: Energy saving and efficiency

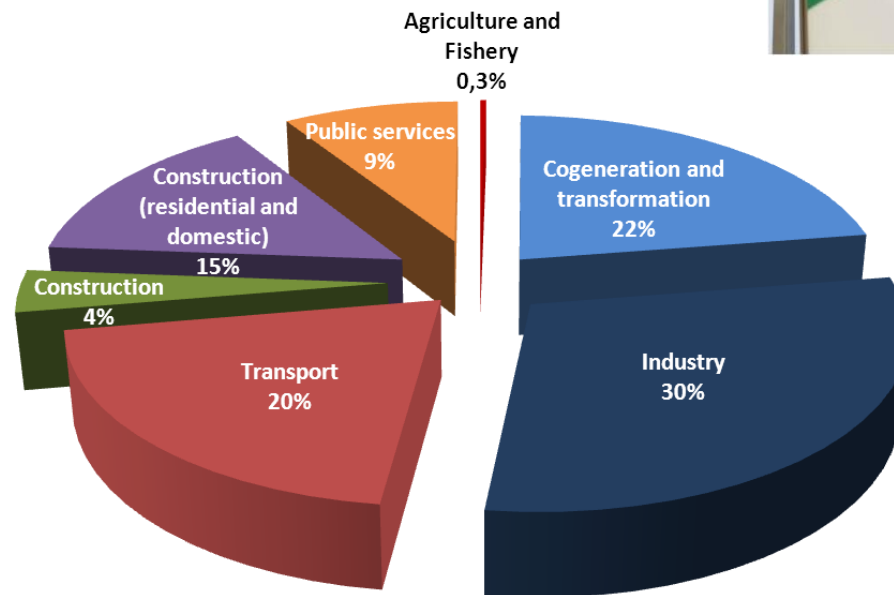


The accumulative energy saving since 2007 reaches **884.7 ktoe/year**, representing 60% of the energy savings target set by the Andalusian Sustainable Energy Plan - PASENER for the period 2007-2013.



Energy saving accumulated 2007-2012

Sectoral breakdown:



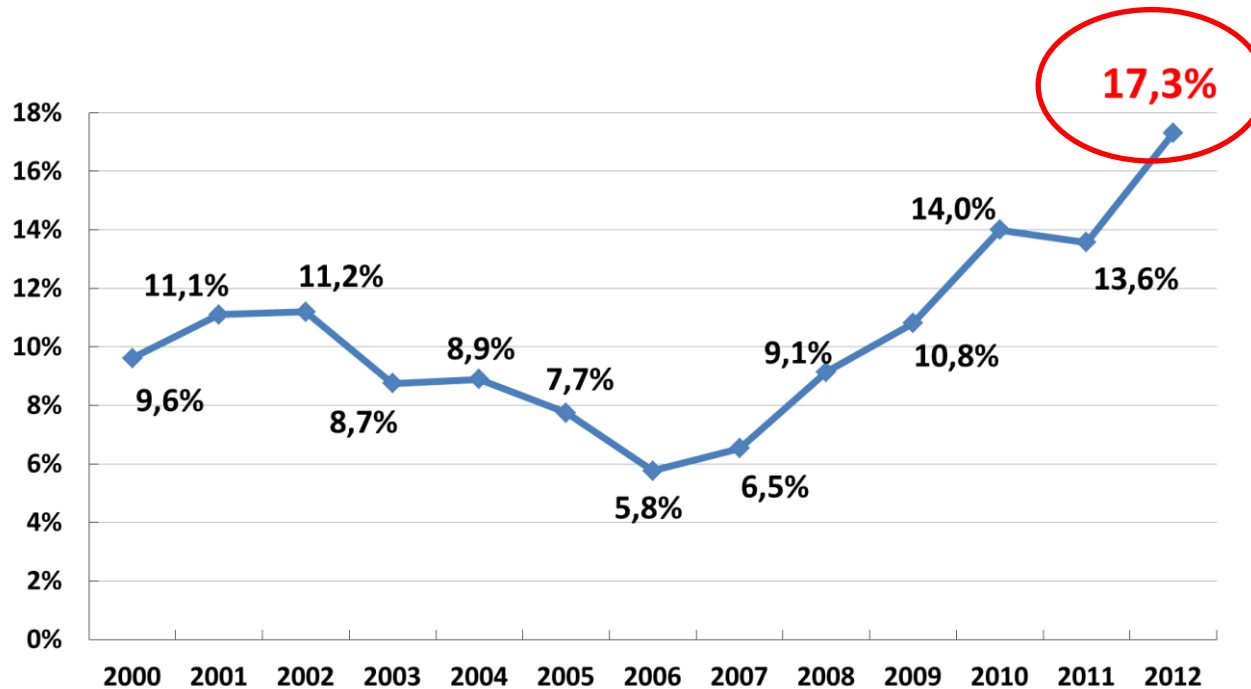
* Data up to December 2012



The Andalusian energy model: Energy self-supply

Evolution of the degree of energy self-supply in Andalusia 2000-2012 (%)

Results to 2012:
High level of compliance
of the Objectives



17.3% (3,231.9 ktoe) of the energy consumption in Andalusia during 2012 was produced in the Andalusian region, thus increasing the **degree of self-sufficiency** by 200% with respect to 2006. Since coal mining activity has ceased in late 2010, almost all of the energy generated in Andalusia comes from renewable sources (98.2%).

Strategic objective of the Andalusian Energy Agency

1. Promote the use of **autochthonous renewable resources** and **energy saving and efficiency actions** and demand management.
2. Promote and disseminate the **principles of an energy culture** based on a responsible and sustainable use of energy.
3. Contribute to a **balanced regional planning** and economic growth through a system of energy infrastructures that ensures a supply that is secure, stable, diversified, efficient and of quality to all Andalusian people.
4. Promote a **competitive business fabric** based on efficient, clean and innovative energy technologies.



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Promote the use of autochthonous renewable resources and energy saving and efficiency actions and demand management

1.1. **Incentivate economically** projects of renewable energy, energy saving and efficiency and energy infrastructure for citizens, public administrations and businesses.

2007-2013: Subsidies for 100,100 projects for an amount of 300 M€ which has generated an induced investment of more than 1,750 M€.



Ahorrar
en casa
PYME
sostenible

1.2. Encourage **promotion actions** through the design, management and monitoring of Programmes and actions relating to energy saving and efficiency and the use of renewable energies in different sectors



Programa de impulso a la
**CONSTRUCCIÓN
SOSTENIBLE**
en Andalucía

1.3. Contribute to the improvement of the **energy management of the consumption centres of the public administration of the Andalusian Regional Government** and other public entities (REDEJA).

5,000 supplies managed in a centralised way.



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Promote and disseminate the principles of an energy culture based on a responsible and sustainable use of energy

During 2013 **174,586 users** have connected to the Agency's web, which have visited more than **276,790 times**, consulting an average of **4 pages** per visit.



3.517 followers

479 tweets

2.090 retweets⁽¹⁾



547 followers

Users that have interacted (2) : 63.786



4.206 total reproductions in 2013

29 videos loaded to our channel

(1) N° times that a user has completely reproduced our message.

(2) N° persons that clicked in any part of the Agency's publications.

N° OF CONSULTATIONS ATTENDED BY CHANNEL

Direct relationship with citizens. More dynamic and close communication. In **2013** more than **57,718** consultations have been attended.



1,681
emails



37,516
calls



12,521
consultations



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Energy planning of Andalusia 2014-2020

The Principles:



Estrategia Energética
ANDALUCÍA 2020



1. *Contribute to an efficient and intelligent use of energy, prioritizing the use of autochthonous sustainable resources, as well as self-consumption systems*



2. *Place renewable energy and energy saving and efficiency sectors as drivers of the regional economy*



3. *Ensure the quality of the energy supply driving the transition of the energy network to a smart decentralized model, integrated in the landscape*



4. *Act on the energy demand to set the citizen as the main character of the energy system*



5. *Optimize energy consumption of public sector, improving the efficiency of their facilities and incorporating management approaches aimed at energy saving*



Energy planning of Andalusia 2014-2020

Process carried out under the principles of **Governance**: openness, participation, responsibility, effectiveness and coherence.

Participative

- **Redaction Commission of the Strategy.**
- Working groups: **Social and economy agents, experts, groups of interest.**
- Open participation for **citizens.**
- **Provincial** presentation and dissemination meetings.

Innovative
Accesible
Agile and Effective



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Bienvenidos a la Estrategia Energética de Andalucía

Un espacio donde **compartir** conocimientos y **encontrar** respuestas

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Promote a competitive business network in efficient, clean and innovative energy technologies

NATIONAL AND INTERNATIONAL RELATIONS

- Collaboration with public and private Andalusian entities.
- Participation in international events
- Assistance to foreign delegations interested in the Andalusian sustainable energy model



DISSEMINATION MEETINGS OF THE "ANDALUCÍA A+" PROGRAMME

- Joint sectoral meetings with the different business subsectors
- Meetings in the **eight Andalusian provinces** on the **Opportunities of energy improvement**



EUROPEAN PROJECTS IN PROGRESS



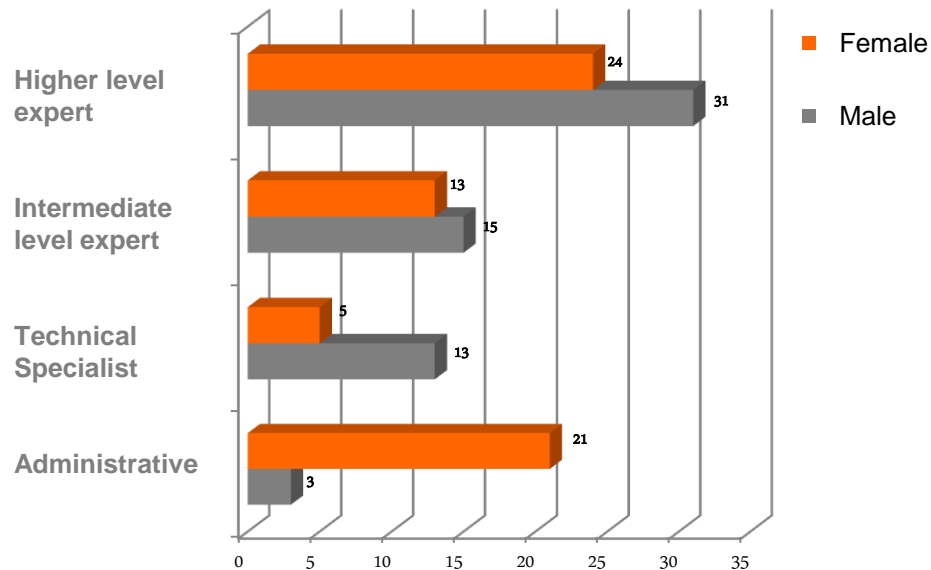
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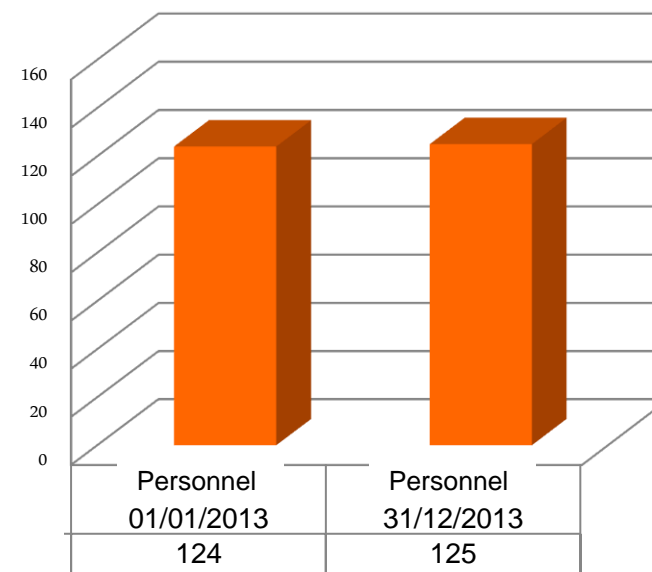
Human Resources of the Andalusian Energy Agency

HUMAN RESOURCES

Distribution of personnel by gender and degree level (December 2013)

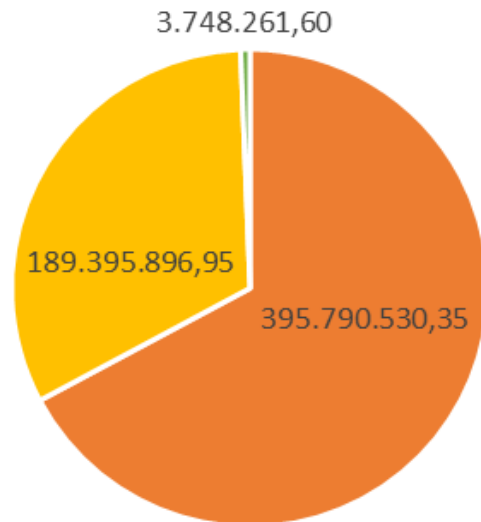


Personnel 2013



Budget of the Andalusian Energy Agency

Funds managed by the Agency 2007-2014



Energy Saving Renewable Energies Infrastructures

589 M€, almost 50% ERDF

67% for energy saving and efficiency actions

32% to promote the use of renewable energy sources



THANK YOU VERY MUCH FOR YOUR ATTENTION

