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Lazio Strategy for RES/EE A Regional Policy for sustainable energy

More 4NRG - Valencia 6th and 7th May
2009

Direction for Environment and Cooperation
among Peoples - Lazio Region



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Lazio Region - Energy and General Information



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REGIONE LAZIO
Assessorato all'Ambiente
e Cooperazione tra i Popoli

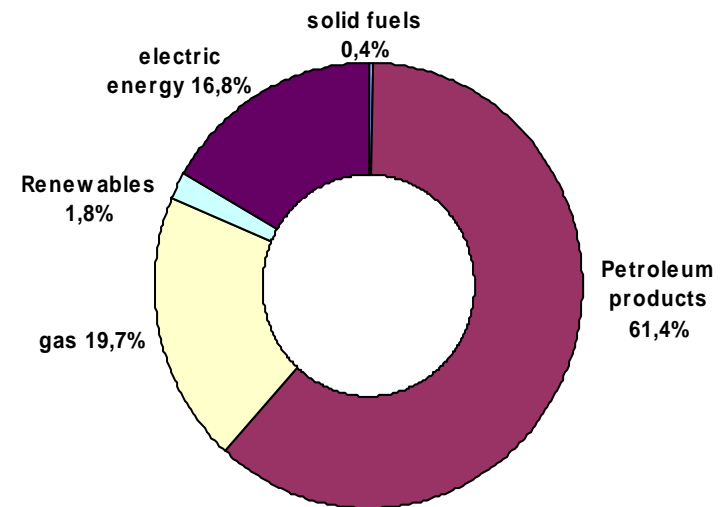
<http://www.regione.lazio.it>



Inhabitants: 5.602.882

Area: 17.203 Km²

Population density: 325,7 inhab./Km²



Final Consumptions by sources



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Lazio Region - Energy and General Information



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Total consumption in 2004 = 16,2 Mtep

Energy Final Use by sector



Agriculture and Fishery

2,1%



Industry

8%



Transports

48,7%



Civil use

39,4%

During 1995-2004 period there's been an increase of 25,3%, mainly due to the civil sector (+34,1%) and transports (+30,2%).



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The new Lazio Region's PER (Regional Energy Plan)



Lazio is the first Italian Region to adopt the EU policy for energy sustainability (20 - 20 - 20) by 2020

	2005	2008	2020
Photovoltaic	1 MW	21 MW	3.000 MW
Wind	9 MW	9 MW	200 MW
Hydroelectric	399 MW	399 MW	423 MW
Total	409 MW	429 MW	3.623 MW



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The Lazio Region Strategy



The Lazio Region Strategy for RES/EE starts in 2005.

It concerns three main areas:

- Development of renewable energy sources through incentives;
- Creation of R&D centres;
- Administrative simplification.



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1. Development of renewable energy sources through incentives

- Microcredit for the photovoltaic sector (7,7 MIn euros)
- Energy efficiency in the final uses (5,5 MIn euros)
- Sustainable mobility



2. Creation of R&D centres Poles of Excellence



- R&D centre for Hydrogen
- R&D centre for third generation photovoltaic
- Centre for Sustainable Mobility



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R&D centre for Hydrogen



The Hydrogen pole of excellence activities recover the overall hydrogen chain:

- ✓ Thermochemical, electrochemical, biochemical production from renewable sources
- ✓ gaseous, liquid and solid storage
- ✓ Stationary, transport and other uses



Regional funding : 9 Mln euros



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R&D centre for third generation photovoltaic



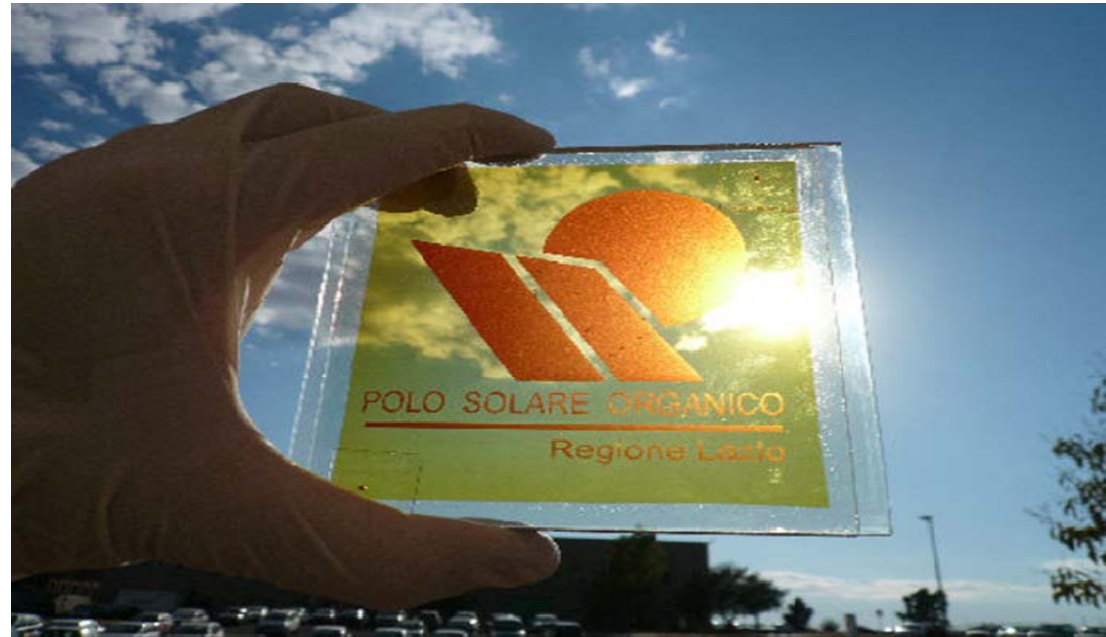
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The Center for Hybrid and Organic Solar Energy has been created to build a Pole of Excellence for the research and development of organic and hybrid technologies applied to photovoltaic energy.

The use of organic solar cells has the aim to improve energy efficiency and to spread renewable sources.



Regional Funding : 6 Mln euros



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Centre for Sustainable Mobility



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POMOS is a testing and technological innovation center as well as a landmark aimed at aggregating small and medium enterprises operating in the area of mobility.

Its objectives are:

- ❖ Research and development;
- ❖ Technology transfer;
- ❖ Training;
- ❖ Communication



Regional funding: 2,5 Mln euros



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3. Administrative simplification

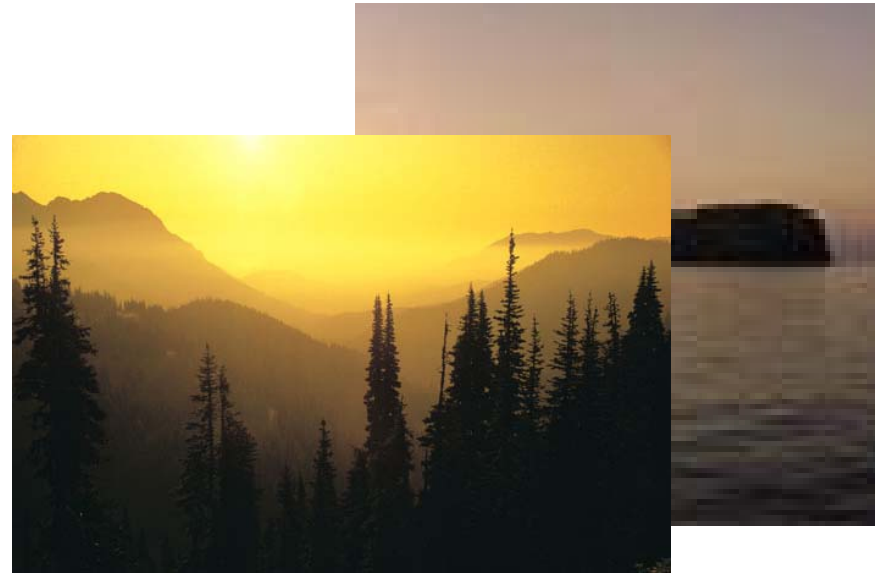


- Abolition of DIA (Declaration of the star-up activities);
- Creation of guidelines for the authorization of installations of renewable energy (wind, Photovoltaic, Geothermal);
- Guidelines for sustainable urban planning and architecture.



Main pilot projects and best practices

- Solarization of regional parks
- Ventotene: the first Italian zero emission island
- Biomass Power fueled by the scraps of pruning from the heritage trees of the city of Rome
- Detergents in draft



Reached goals



- 150 MW of renewable sources, wind and photovoltaic energy under construction
- 60 mln euros of private investments in the three Poles of Excellence funded by Lazio region;
- Funds allocated to the installations of pv systems exhausted in three days
- Funds allocated to energy efficiency projects (for public and private users) exhausted in one day



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Total appropriation funds



- Lazio Region appropriates for RES/ EE 174 Mln euros in five years.



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Critical Issues

Involvement: Scarce when local authorities (read municipalities) are not included in the process from the beginning;

Buraucracy: Difficulties remain in the application of authorization (complex procedure);

Technology Transfer: Difficult the transfer of technological knowledge from poles of excellence to local enterprises;

Spatial concerns

Main spatial concerns relate to **land consumption** following the spread of Renewable Energy Systems in the regional territory, mainly photovoltaic and wind.

EIA: The Environmental Impact Assessment is the instrument used to evaluate the projects of RES against the possibility to create damages to the countryside, local agriculture, vegetation and fauna.

