

SUSTAINABLE ENERGY WEEK

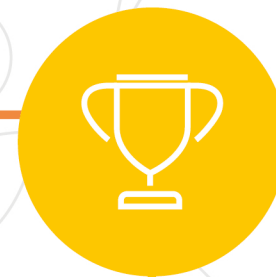
13-17 June 2016

SmartPuglia 2020

Energy and
environmental
challenges

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BUILDING THE ENERGY UNION TOGETHER



**SUSTAINABLE
ENERGY WEEK**

An initiative
of the



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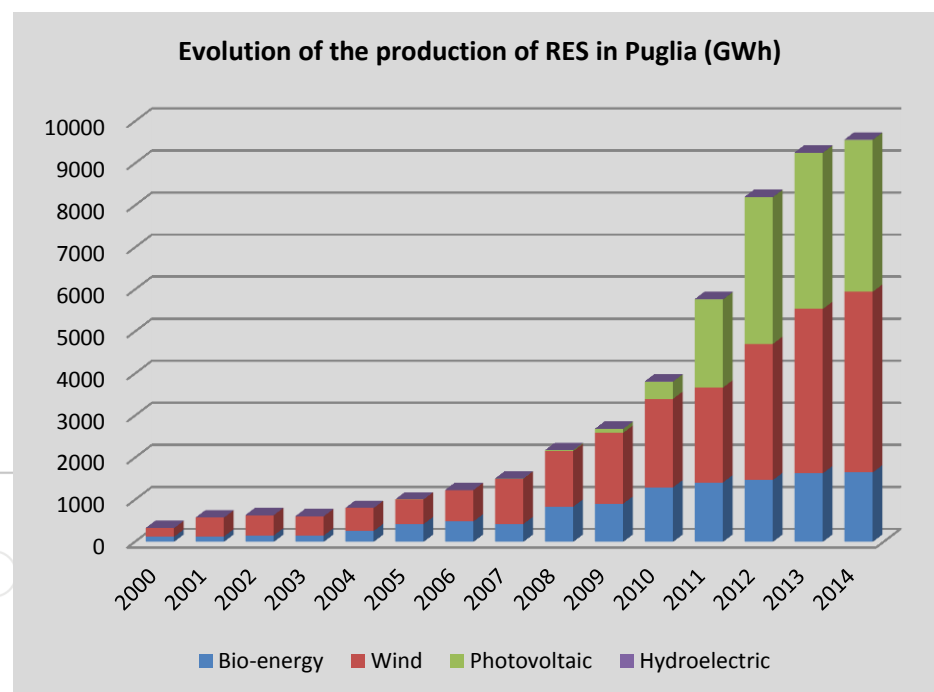


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Puglia: a region full of energy

- Puglia region is a **net exporter** of electricity, with a surplus of +91% in 2014 (nearly half of the electrical energy produced is exported)
- The share of RES on the total electrical energy produced was **25,1%** in 2014
- From year 2000 to 2014, RES production in Puglia rose by a factor of **29,21**, while in Italy the growth factor was 2,15
- More than **half** of the electricity needs are already covered by RES



SmartPuglia 2020

Renewable energy and energy efficiency are part of the *Human health and Environment S3* priority area, as a mean for:

- Facing the environmental challenges and reducing CO₂ emissions.
- Achieving the goal of a ratio between RES production and gross final energy consumptions of 14,2% by year 2020 (estimated 11,9% in 2016).
- Creating new business opportunities for the regional companies, through research and innovation.



Puglia regional challenges and goals

From S3 and Regional Energy and Environmental Plan (PEAR):

- Promote energy efficiency in buildings
- Promote RDI on micro and flexible RES production systems
- Promote the development and demonstration of innovative energy storage and distribution systems (smart grids)
- Discourage new large PV fields and promote distributed roof-size solar systems and retrofit applications
- Broaden the portfolio of adopted RES technologies (e.g. low enthalpy geothermal, solar thermal, solar cooling, hydrogen)
- Promote sustainable transport systems
- Promote awareness raising on energy sustainability and energy saving



Policy objectives and budget

Priority Axis IV of Regional Operational Program 2014-2010

Sustainable energy and quality of life:

- RA4.1 - Reducing energy consumption and integrating RES in public buildings (102 M€)
- RA4.2 - Reducing energy consumption and CO₂ emissions and integrating RES in industrial companies (20 M€)
- RA4.3 - Increasing the share of energy needs covered by distributed energy systems, through the development of smart grids (15 M€)
- RA4.6 - Improving sustainable mobility in urban areas (61 M€)



Main impact and result indicators

Indicator	Unit	Baseline	2023
Energy consumption in Public Administration in GWh for 100.000 full time employees (annual average in thousand units)	GWh	3,3	2,76
Electrical energy intensity of industry (electricity consumption in GWh per 100 M€ of added value produced)	GWh/100M€	76,9	66
GHG emissions of energy industry	MTeq CO ₂	38,55	33,53
Share of renewables on electricity consumption (except hydro)	%	44,2	56
Percentage of commuting workers and students using public transport	%	20,04	23
GHG emissions of road transports	MTeq CO ₂	5,4	4,86

RES	Baseline 2011	Goal 2020
Thermal Solar	8 ktep	+84,6 Ktep
Wind	2.250 GWh	8.000 GWh
Geothermal	-	+10 Ktep
Hydro	1,5 MW	+10 MW
Energy Saving	-	+1 Mtep/year
Biomass & Biofuel	401 ktep	+430 Ktep



The interregional cooperation dimension

- Building in Apulia an innovative plant for hydrogen production and storage in magnesium modules

INGRID
VII FP



- Developing innovative entrepreneurship through green economy applications and human resource training on green jobs in the cross-border area

**GREEN BUSINESS
INNOVATION**
Interreg Greece-italy



- Promoting the development of a Mediterranean market of distributed solar technologies

MED DESIRE
ENPI CBC-MED



- Promoting Sustainable Energy Planning in small Adriatic communities

ALTERENERGY
IPA CBC ADRIATIC



- Promoting exchange and cooperation on RES and EE among Apulia, Emilia-Romagna (Italy), Guangdong and Zhejiang (China)

RENEWAL
Italian Ministry of
Foreign Affairs



The total budget of the 5 projects is **€ 42 million**.
More than the half of this amount is being spent in **Apulia**.

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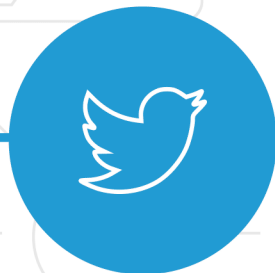
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