



Renewable Energy Directive

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European Renewable Energy Council

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EREC – European Renewable Energy Council

Umbrella organisation of the EU renewable energy industry:

- ✓ **AEBIOM** European Biomass Association
- ✓ **EBB** European Biodiesel Board
- ✓ **EBIO** European Bioethanol Industry Association
- ✓ **EGEC** European Geothermal Energy Council
- ✓ **EPIA** European Photovoltaic Industry Association
- ✓ **ESHA** European Small Hydropower Association
- ✓ **ESTIF** European Solar Thermal Industry Federation
- ✓ **EUBIA** European Biomass Industry Association
- ✓ **EWEA** European Wind Energy Association
- ✓ **EUREC Agency** European Renewable Energy Research Centres Agency
- ✓ **EU-OEA** European Ocean Energy Association
- ✓ **EREF** European Renewable Energy Federation
- ✓ **ESTELA** European Solar Thermal Electricity Association



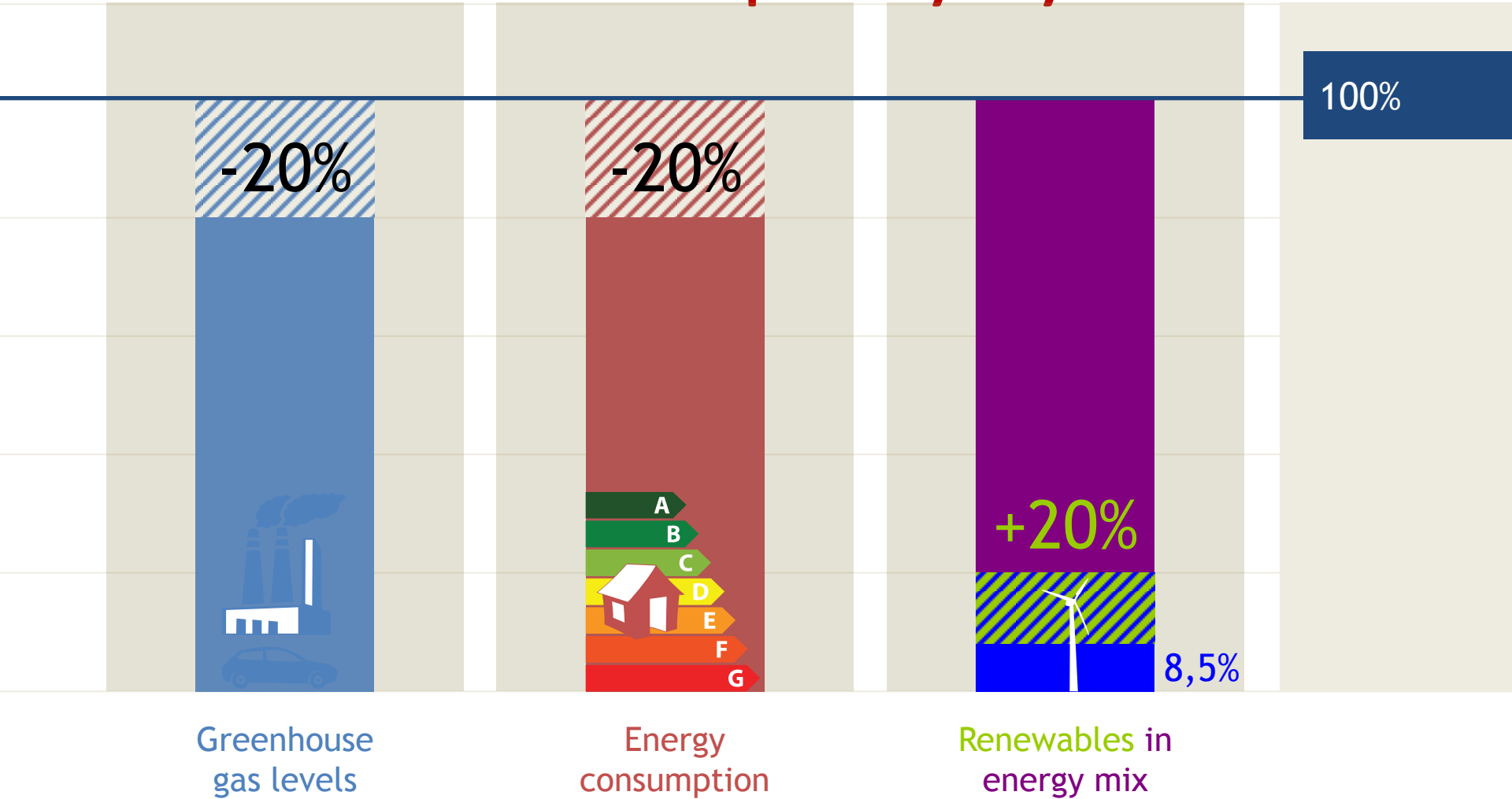
EU renewable energy industry

- ✓ **European industry leader on world market**
- ✓ **450.000 jobs in EU renewable energy industry,
2 million by 2020**
- ✓ **Annual turnover 2008:
EUROPA: 45 billion €
World-wide: 120 billionUS\$**

New paradigm: Markets for the environment



The 20-20-20 EU policy by 2020



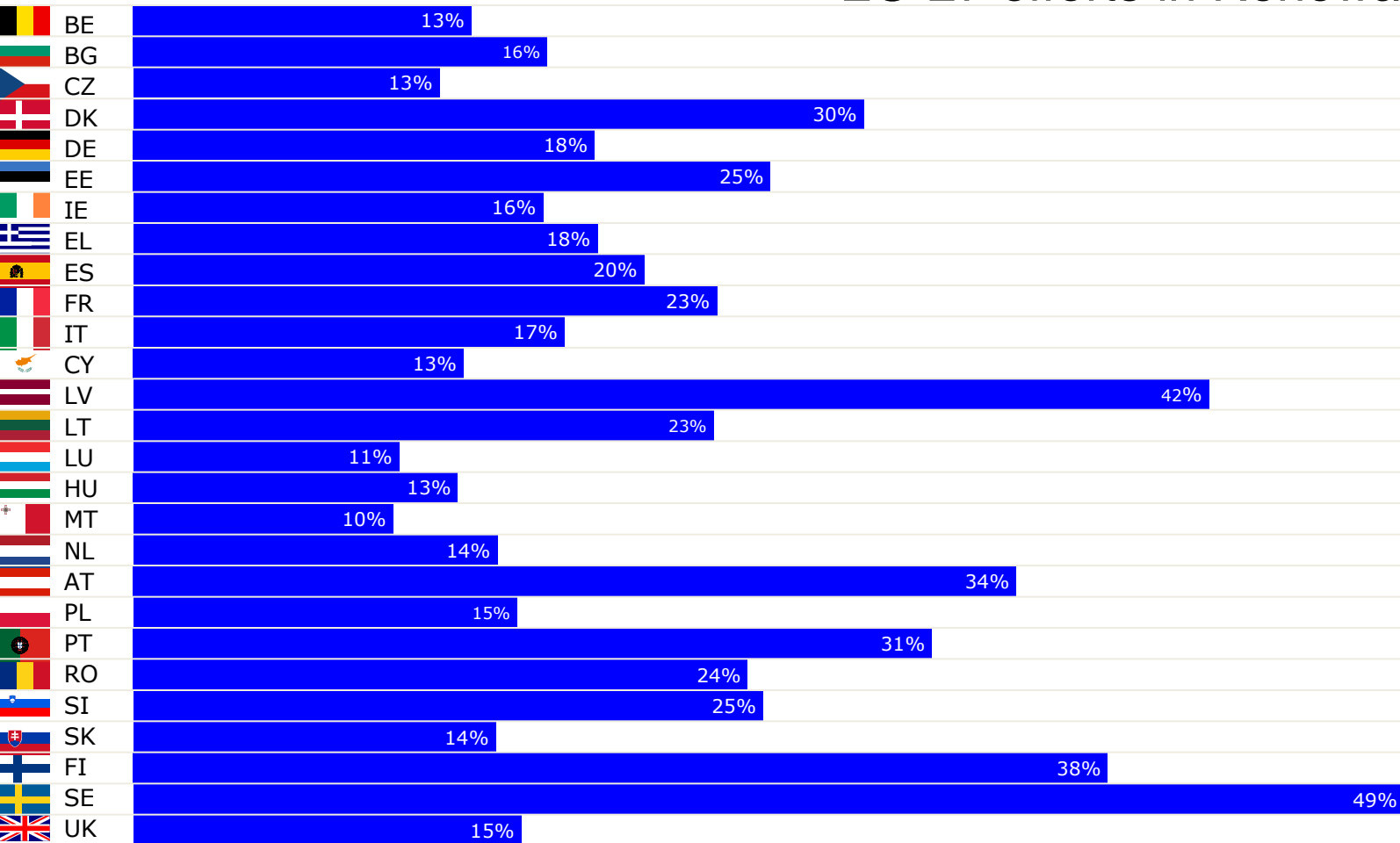


The RES Directive

- Establishes a framework for for the promotion of renewable energy sources in the EU up to 2020.
- sets mandatory national targets for renewable energy sources in final energy consumption and in the transport sector.
- It requires the streamlining of administrative procedures, more information and training on RES and access to the electricity grid for energy from renewable sources.



EU-27 efforts in Renewables



2020

RES share in 2020



National Renewable Energy Action Plans (NREAPs)

- NREAPs detail the measures taken by Member States to meet their 2020 targets.
- Member States will set sectoral targets in the NREAPs for the electricity , heating & cooling and transport sectors.
- Member States have to notify their action plans to the Commission by June 2010.
- NREAPs will provides policy stability for investment.



Template for NREAPs

- The Commission has issued a template for the National Renewable Energy Action Plan (NREAP).

http://ec.europa.eu/energy/renewables/action_plan_template_en.htm

- Objectives of the template:
 - Guide Member States in the drafting of the NREAPs
 - Ensure completeness
 - Ensure comparability with each other and with future reports
 - Make follow up easier



The content of the NREAPs (Annex VI)

1. Summary of national renewable energy policy
2. Expected final energy consumption
3. Targets and trajectories (national and sectoral)
4. Measures for achieving the targets
5. Assessments



Enforcement

- Not through a penalty regime like ETS, but through infringement proceedings, ***from 2010 for***
 - failure to produce an credible national action plan
 - failure to implement all aspects of the Directive
 - significant deviation from plan or trajectory
 - valid complaints from any EU citizens regarding incorrect implementation or enforcement by Member States
- Infringement proceedings are the usual tool for enforcing EU law. They *are effective*:
 - Most cases are resolved (corrective action taken by Member States) well before reaching Court.



Transparency Platform

http://ec.europa.eu/energy/renewables/transparency_platform_en.htm

- The Commission established an online public transparency platform which will feature:
 - The 27 National Action Plans
 - offers to cooperate on statistical transfers or joint projects
 - Commission's reports under this Directive



Key Dates for Implementation

- December 2009: Member States release their “forecast documents”
- 30 June 2010: Member States notify the Commission of their national action plans
- December 2010: Member States must have transposed into national legislation the RES Directive.



REPAP 2020

Objective:

Facilitate the process of implementation of the RES Directive on a national level

2 phases:

before notification of National Renewable Energy Action Plans (NREAPs) to the European Commission: April 2009 – June 2010

after notification of National Renewable Energy Action Plans (NREAPs) to the European Commission: July 2010 – September 2011



Consortium

EU partners:

EREC (coordinator)
EUFORES

National Association partners:

APER, Italy
APREN, Portugal
BEE, Germany
EDORA, Belgium
PIGEO, Poland
REA, UK
SERO, Sweden
SER, France

Scientific partners:

Fraunhofer
Energy Economics Group (EEG)
Kuhbier law firm

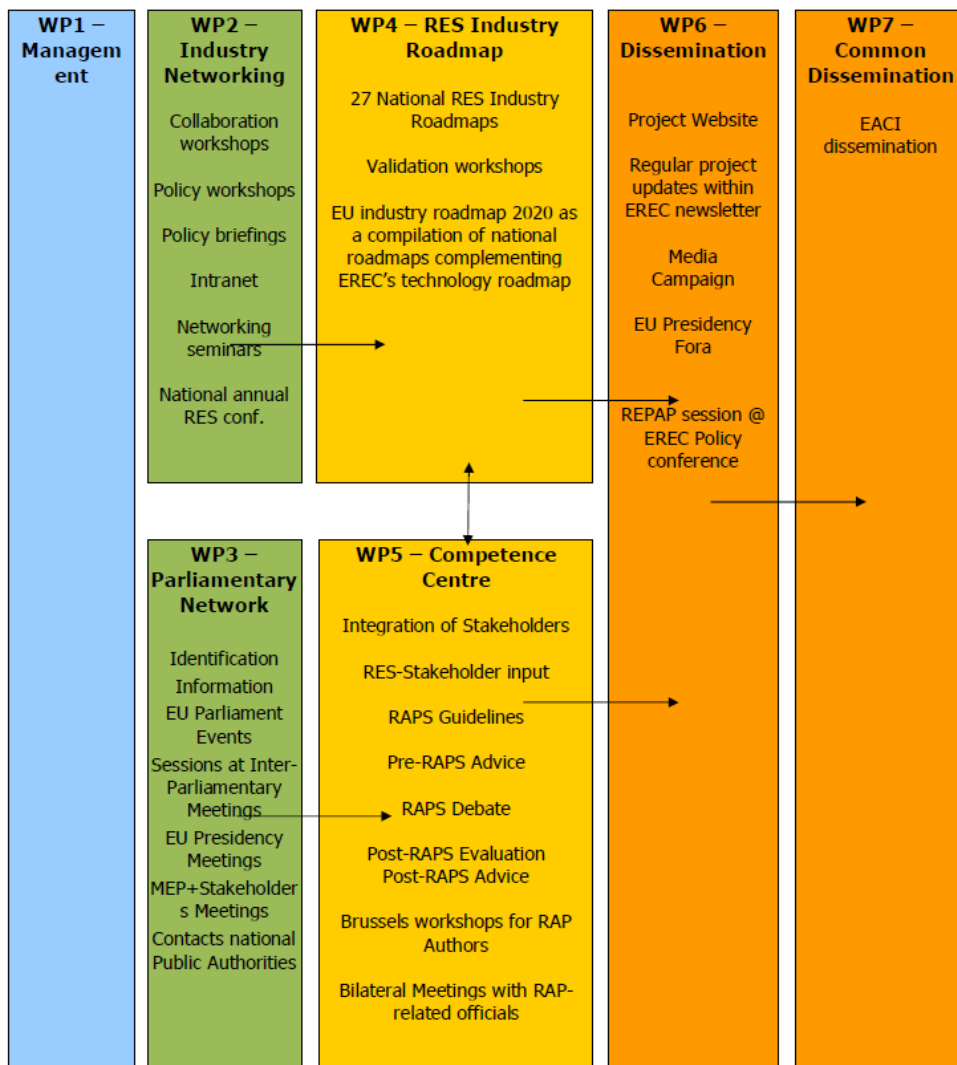
REPAP 2020

Renewable Energy Policy Action Paving
the Way towards 2020

Project duration: 30 months (1st April 2009 – 30th September 2011)

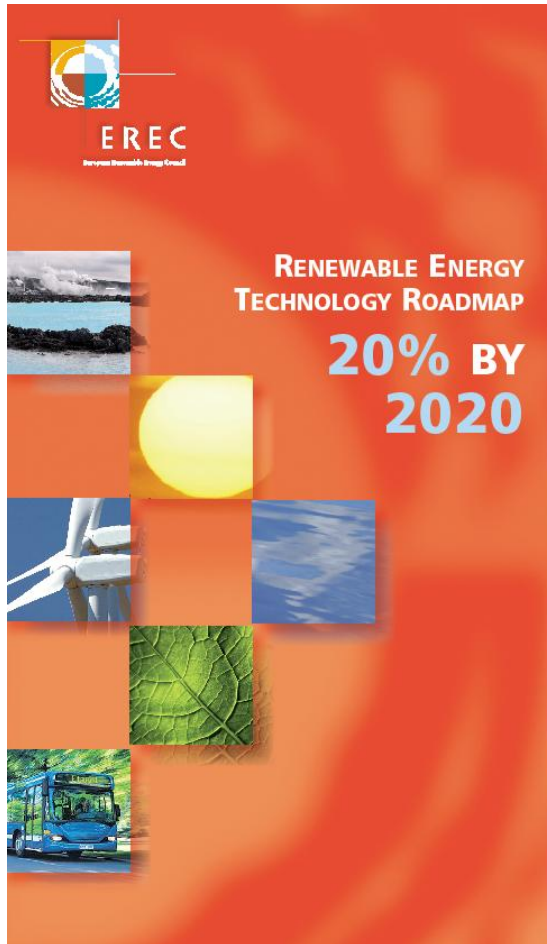


1) Networking 2) Content and Competence 3) Dissemination



RES INDUSTRY-LED
ACTIVITIES

POLICY ACTIVITIES



Renewable Energy Technology Roadmap

20 % by 2020

33-40 % RES –electricity

25 % RES heating & cooling

10 % biofuels



RES Contribution to Final Energy Consumption (Mtoe)

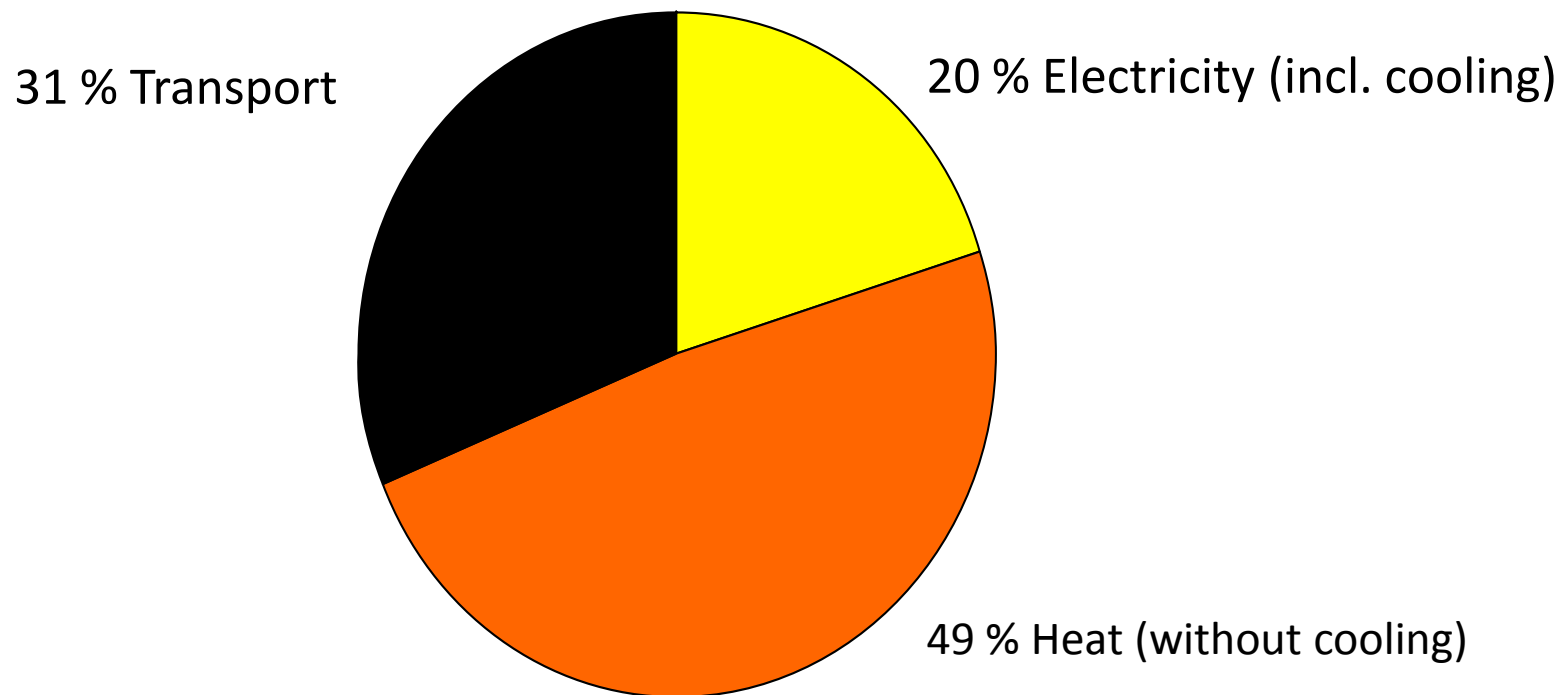
TYPE OF ENERGY	2005 Eurostat		2006 Eurostat		2007 Eurostat		AGR 2005-2007	TARGET 2020		AGR needed
		%		%		%	%		%	
Final Energy Consumption* (Trends to 2030) (Combined RES and EE)	1211.2		1213		1194.9		-0.7	1,378 1,266		
1. Electricity**	42.45	3.5	44.26	3.7	46.68	3.9	4.9			
2. Heating and Cooling	59.44	4.9	62.17	5.1	62.98	5.3	2.9			
3. Transport biofuels	3.83	0.3	6.19	0.5	8.81	0.7	51.6			
Total Renewable Energy	105.7	8.7	113.0	9.3	118.5	9.9	5.9	275.6	20.0- 21.7	6.7

*Including electricity and steam transmission/distribution losses and own consumption

**Normalised for hydro and wind

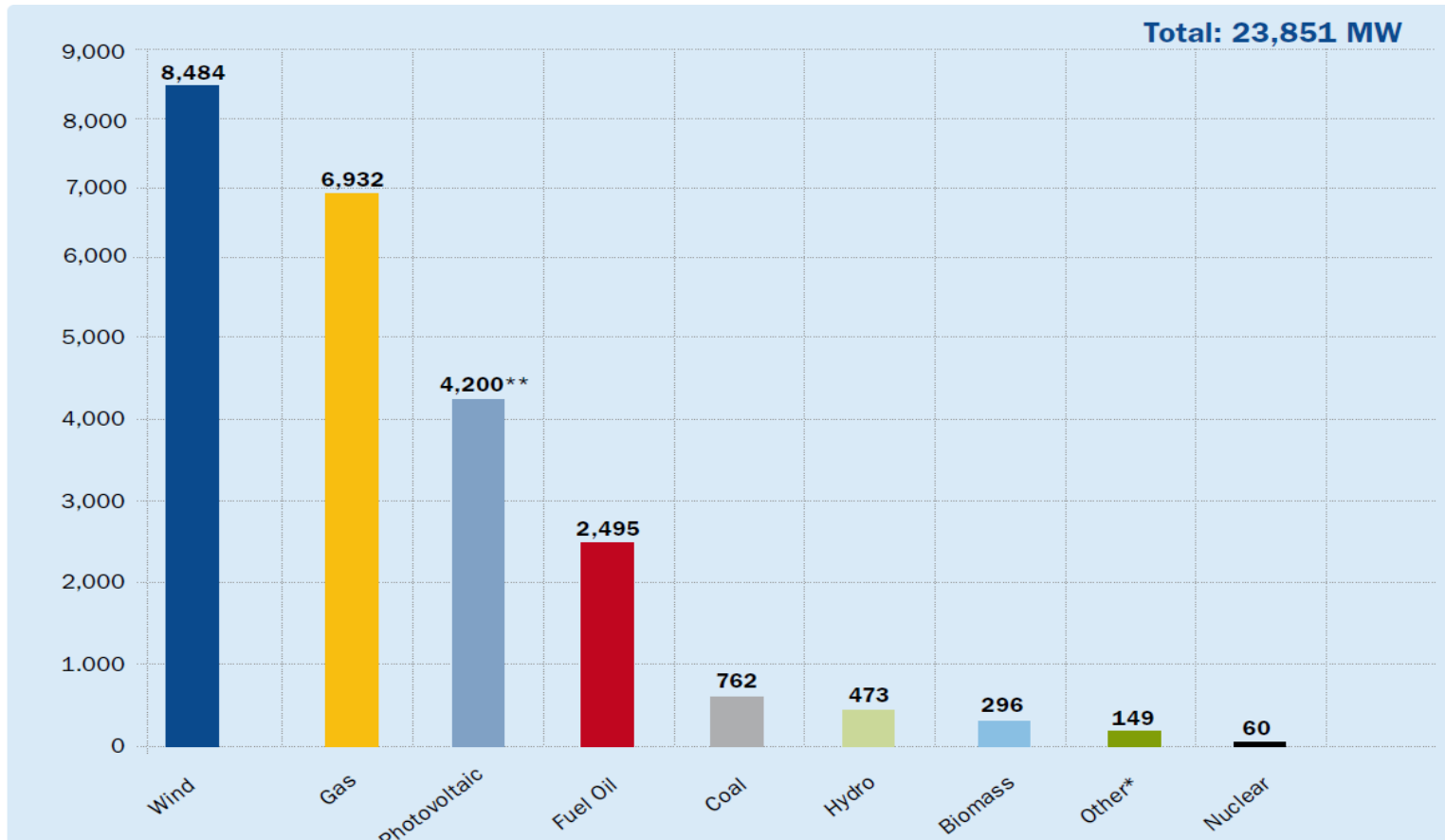


Final Energy Consumption by Sector





New Power Capacity installed in 2008 (MW)



** Source: Estimation EPIA

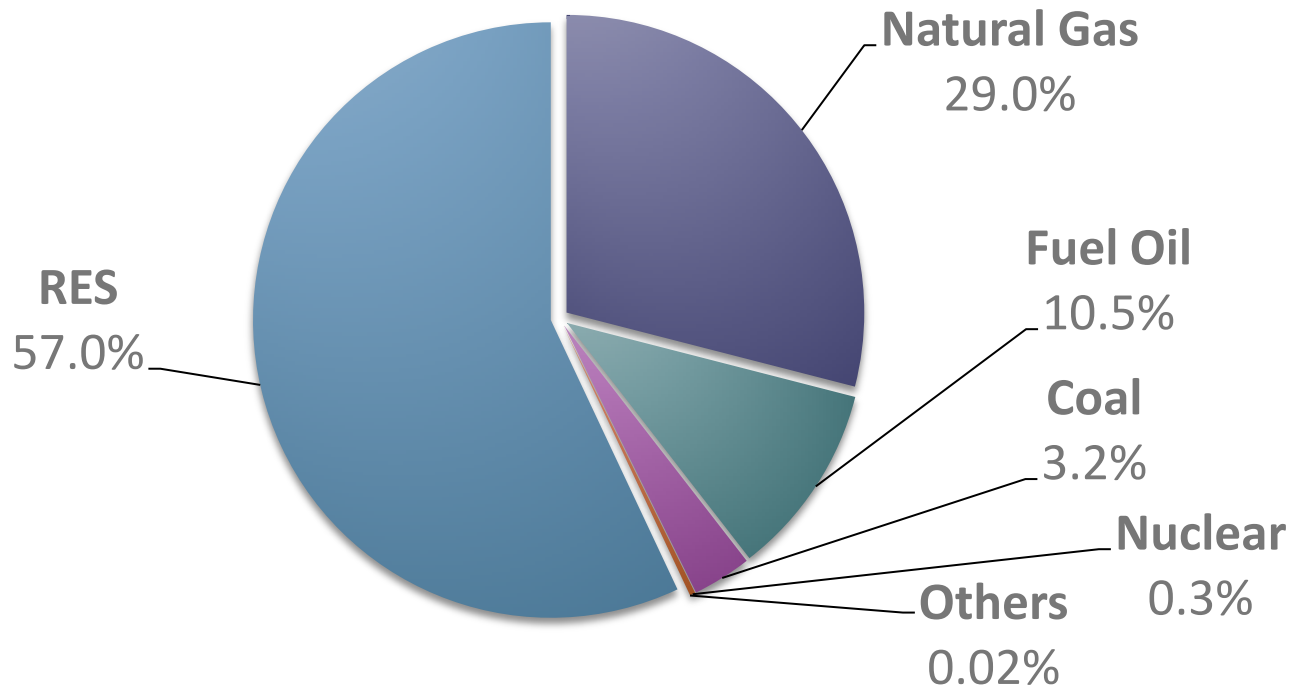
Source: EWEA and Platts Power Vision



New Capacity installed by Fuel in 2008

(%)

New Capacity 2008: 23.8 GW



Source: Platts, EWEA, EPIA



www.erec.org

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