

Data comparison between Eurostat and EurObserv'ER

January 2009



Comparison EurObserv'ER indicators/Eurostat statistics



The purpose of this work is to compare two kinds of surveys:

- Eurostat statistics: aggregated data from national statistical offices
- EurObserv'ER indicators: very reactive survey of the most updated trend of the RES

This comparison was carried out in January 2009 and concerns 2006 figures : the following slides compare the most updated figures provided by Eurostat on RES at this period (for the year 2006) and the data for the same year published in the 2007 EurObserv'ER barometers (thematic and overview)



Comparison EurObserv'ER indicators/Eurostat statistics



The Eurostat statistics uses in the following tables corresponds to the sum of the countries in the EU 25, EU15 and EU 10.

EU 10 correspond to the 10 new members countries (Czech Republic, Estonia, Cyprus, Latvia, Lithuania, Hungary, Malta, Poland, Slovenia and Slovakia)

2006 figures concern only the EU 25 country members because Romania and Bulgaria have integrated the EU in 2007.



Comparison EurObserv'ER indicators/Eurostat statistics



For electricity production: below a discrepancy of 5 % (for capacity installed and electricity generated), accuracy will be considered high.

For heat and primary energy production: below a discrepancy of 10 % (for capacity installed and/or energy generated), accuracy will be considered high.

Beyond these thresholds, the differences will be analysed by the consortium in order to find out the reason.



Capacity installed

- Small hydropower plants
- PV
- Geothermal electricity generation
- Windpower
- Solar thermal collectors





Comparison EurObserv'ER indicators/Eurostat statistics



Small hydropower plants capacity installed (in MW) in 2006

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	Eurostat	EurObserv'ER	
EU 25	11 937	11 723	1.8 %
EU 15	11 133	10 559.4	
EU 10	804	863.6	

Data are very close except for Portugal and Germany

Explanation: Portuguese official figures were not available at the date of the survey. EurObserv'ER estimation was too low for this country. For Germany, estimation came from a preliminary figure from an official office of statistic.

Comparison EurObserv'ER indicators/Eurostat statistics



PV capacity installed (in MW) in 2006

€

	Eurostat	EurObserv'ER	
EU 25	3 220	3 418.5	6.2 %
EU 15	3 219	3 415.7	
EU 10	1	2.8	

- For German market, we used data from PV industry association in the thematic barometer. In the 2007 overview barometer, we replaced this data by the official figures from AGEESat
- In Eurostat statistics all country data are not always including off-grid capacity
- French overseas departments are not included in Eurostat figures

Comparison EurObserv'ER indicators/Eurostat statistics



Geothermal installed capacity for electricity generation (in MW) in 2006

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	Eurostat	EurObserv'ER	
EU 25	696	755,1	8,5 %
EU 15	696	755,1	
EU 10	0	0	

- For Italy (the main European country involved), EurObserv'ER used official data from Terna (Gross maximum capacity). Eurostat use net installed capacity.
- French overseas departments are not included in Eurostat figures



Comparison EurObserv'ER indicators/Eurostat statistics



Windpower capacity installed (in MW) in 2006

€

	Eurostat	EurObserv'ER	
EU 25	47 633	48 042.3	0.7 %
EU 15	47 290	47 660.7	
EU 10	343	381.6	

Comparison EurObserv'ER indicators/Eurostat statistics



Solar thermal capacity installed (in 1000 m2) in 2006

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	Eurostat	EurObserv'ER	
EU 25	21 126	20 400	5,6 %
EU 15	20 211	19 294	
EU 10	915	1 106	

- EurObserv'ER figures include oldest solar panels decommissioning
- If the country don't use a decommissioning rule, EurObserv'ER used 12 years for unglazed panel and 20 years for glazed panel.

Energy production

- Primary energy from biomass
 - From solid biomass
 - From biogas
 - From municipal solid wastes
- Primary energy from solar
- Primary energy from geothermal sector
- Electricity generation from windpower
- Electricity generation from hydropower
- Biofuels production
- Primary energy from RES

Comparison EurObserv'ER indicators/Eurostat statistics



Primary energy from solid biomass (ktoe) in 2006

€

	Eurostat	EurObserv'ER	
EU 25	61 907	62 413	0.9 %
EU 15	50 723	51 206	
EU 10	11 184	11 207	

Data are very close



Primary energy from wastes (ktoe) in 2006

	Eurostat (all municipal waste)	EurObserv'ER (only renewable municipal waste)
EU 25	10 398	5 278
EU 15	10 128	5 153
EU 10	270	125

- Eurostat figures cover primary energy from renewable and non-renewable waste.
- EurObserv'ER figures are just about the energy from renewable municipal solid waste. The common rate to identify renewable part is 50 % of the total primary energy produced

Comparison EurObserv'ER indicators/Eurostat statistics



Primary energy from biogas (ktoe) in 2006

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	Eurostat	EurObserv'ER	
EU 25	4 748	5 346	12.6 %
EU 15	4 581	5 168	
EU 10	167	178	

Main differences came from Germany and U.K, the two main countries involved in biogas energy.

Explanation: Official figures was not available at the date of the survey. EurObserv'ER estimation was too high for these countries.

Comparison EurObserv'ER indicators/Eurostat statistics



Biofuels consumption (in ktoe) in 2006

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	Eurostat Final Energy Cons.	EurObserv'ER	
EU 25	5 399	5 376	< 0.1%
EU 15	5 217	5 222	
EU 10	182	154	

Data are very close



Comparison EurObserv'ER indicators/Eurostat statistics



Electricity from geothermal sector (GWh) in 2006

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	Eurostat	EurObserv'ER	
EU 25	5 612	5 693 (5 615 without France)	1,4%
EU 15	5 612	5 693 (5 615 without France)	
EU 10	0	0	

- EurObserv'ER statistics include French overseas departments (not included in Eurostat figures)

Data are very close

Electricity generation from windpower (GWh) in 2006

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	Eurostat	EurObserv'ER	
EU 25	81 939	81 352	1.1%
EU 15	81 449	80 888	
EU 10	490	464	



Comparison EurObserv'ER indicators/Eurostat statistics



Electricity generation from hydropower plants* (GWh) in 2006

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	Eurostat	EurObserv'ER	
EU 25	285 777	286 100	< 0,1 %
EU 15	269 901	270 200	
EU 10	15 876	15 900	

* Including large plants, SHP but without pump & storage plants

Data are very close

Comparison EurObserv'ER indicators/Eurostat statistics



RES-E in gross electricity consumption (in %) in 2006

*

	Eurostat	EurObserv'ER	
EU 25	14,3%	14,6%	2%
EU 15	15,3%	15,6%	

* Including solar, geothermal, biomass, hydropower and windpower

Data are very close

Comparison EurObserv'ER indicators/Eurostat statistics



Share of RES in gross inland energy consumption (in %)

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	Eurostat	EurObserv'ER	
EU 25	7%	6,92 %	1%

Data are very close

