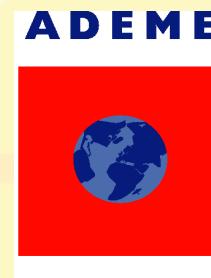
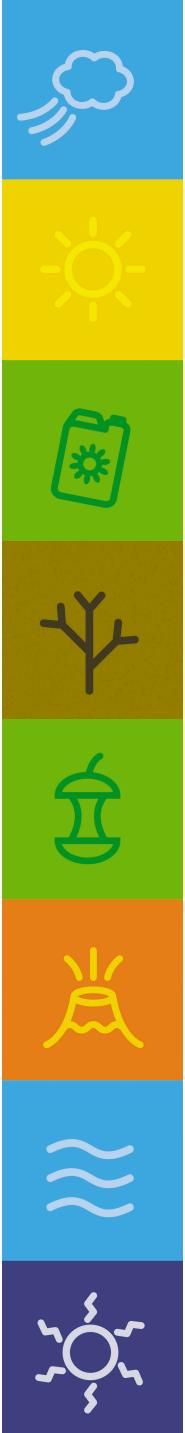


# The EurObserv'ER barometer

Contract N°EIE/09/737/SI2.558317

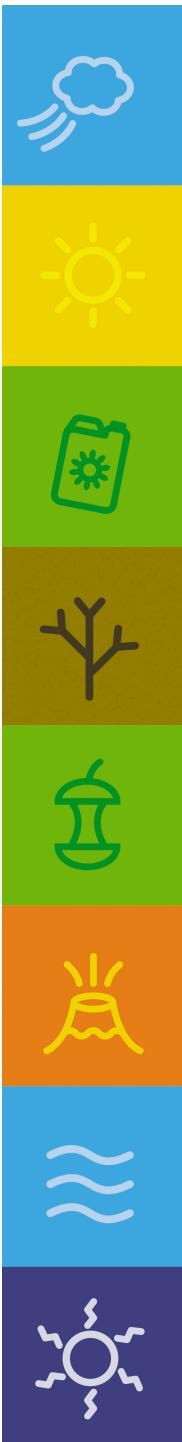
Project supported by :





# Data comparison between Eurostat and EurObserv'ER

February 2013



## Comparison EurObserv'ER / Eurostat

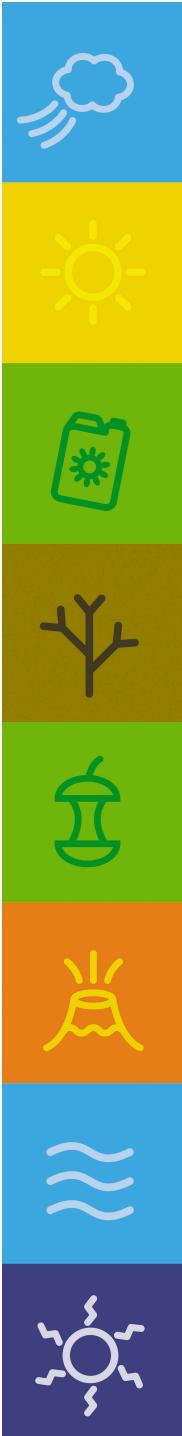


The purpose of this work is to compare two kinds of surveys:

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

This comparison was carried out in February 2013. The following slides compare the most updated figures provided by Eurostat on RES at that time (for year 2011) and the data for the same year published in the 2012 by EurObserv'ER (on thematic and overview barometers).

An exception : for the % of RES share in the final energy consumption, the most up-to-date figures on Eurostat database were for 2010



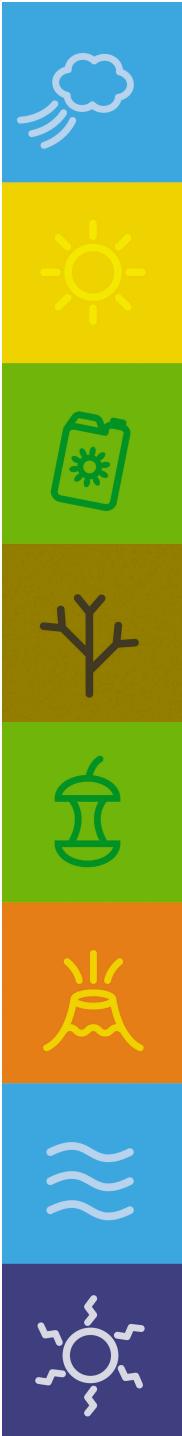
## Comparison EurObserv'ER indicators/Eurostat statistics



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 explanations of the gap

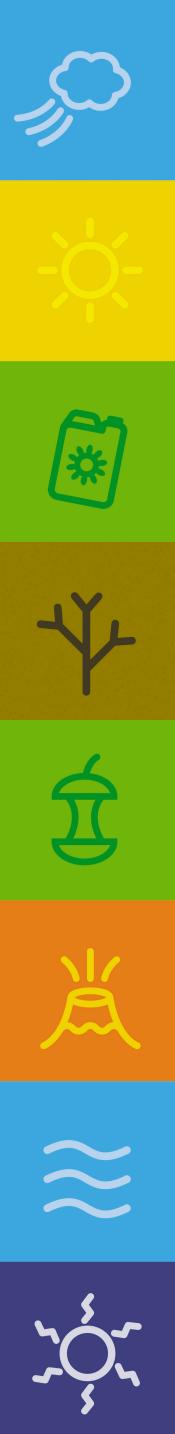


## Comparison EurObserv'ER indicators/Eurostat statistics



### Capacity installed

- **Windpower**
- **PV**
- **Small hydropower plants**
- **Geothermal for electricity generation**
- **Ocean energy**



## Comparison EurObserv'ER indicators/Eurostat statistics

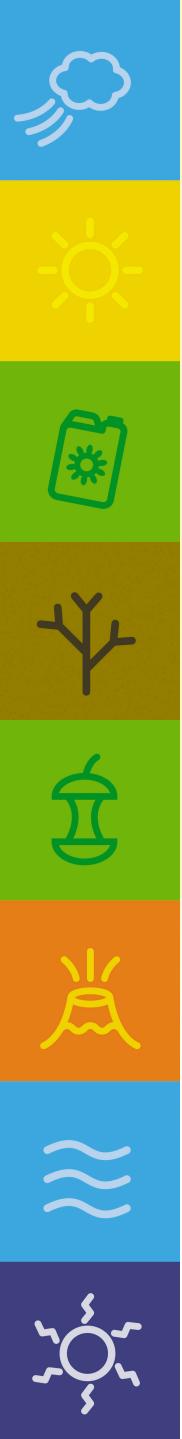


### Windpower capacity installed (in MW) in 2011

	Eurostat	EurObserv'ER
EU 27	94 099	94 097
EU 25	92 570	92 503
EU 15	89 671	89 810
EU 10	2 899	2 693

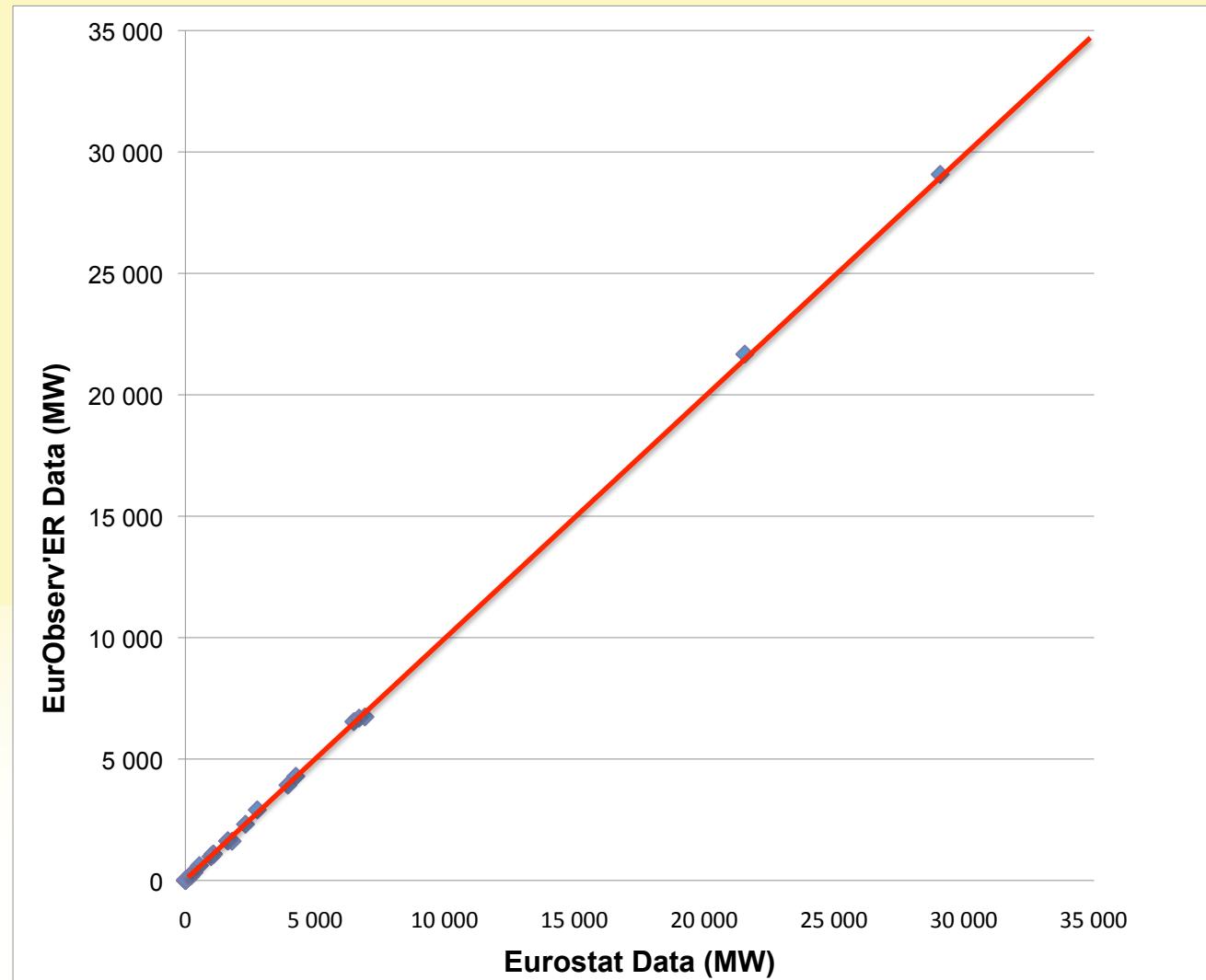
0,1 %

For wind power and PV, one point is worth noting : data collected by Eurostat at the end of a year is about the net capacity connected whereas those collected by EurObserv'ER earlier in a year concern nominal capacity, which explains some of the differences.



## Details of the comparison

### Windpower capacity installed





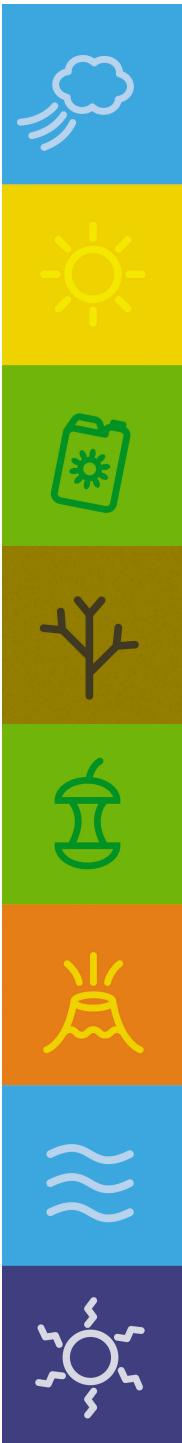
## Comparison EurObserv'ER indicators/Eurostat statistics



### PV capacity installed (in MW) in 2011

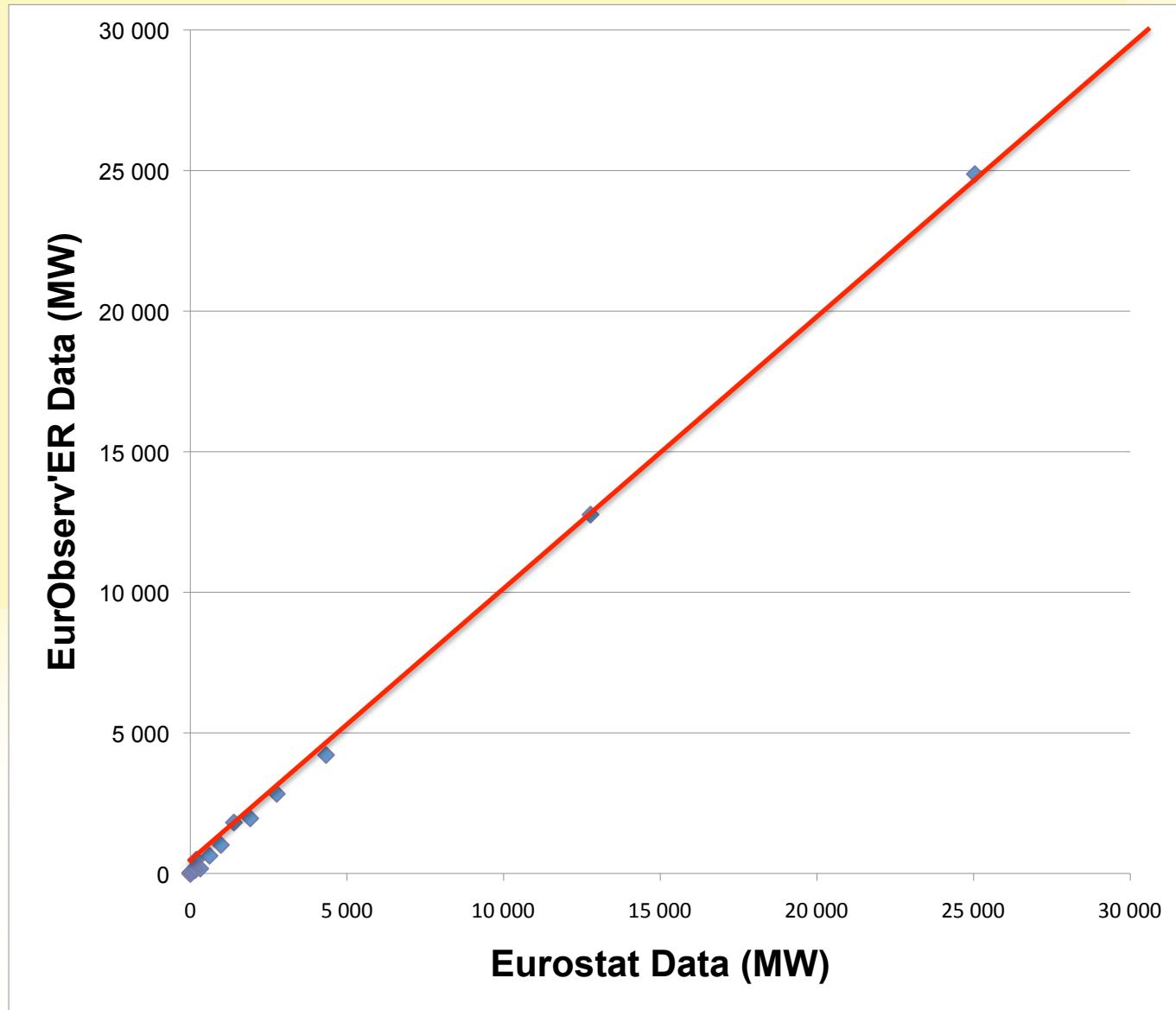
	Eurostat	EurObserv'ER
EU 27	50 936	51 427
EU 25	50 781	51 221
EU 15	48 591	48 654
EU 10	2 190	2 566

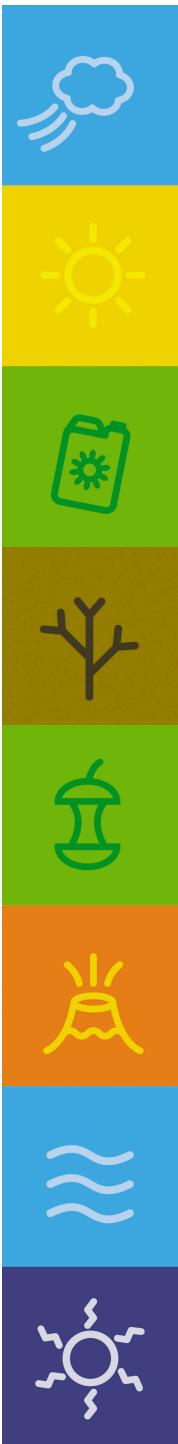
1 %



## Details of the comparison

### PV capacity installed





## Comparison EurObserv'ER indicators/Eurostat statistics

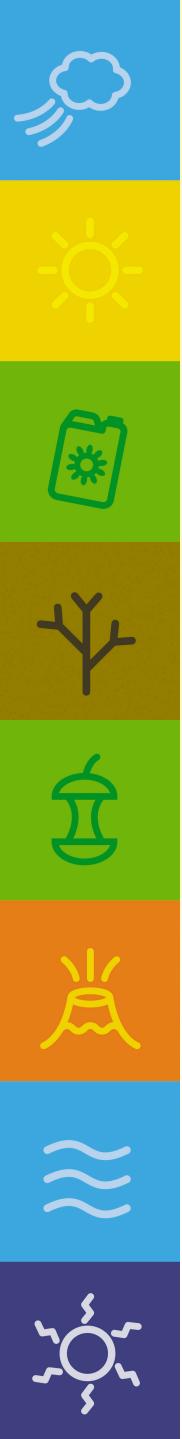


### Small hydropower plants capacity installed (in MW) in 2011

	Eurostat	EurObserv'ER
EU 27	13 553	13 612
EU 25	12 891	12 729
EU 15	11 997	11 823
EU 10	894	906

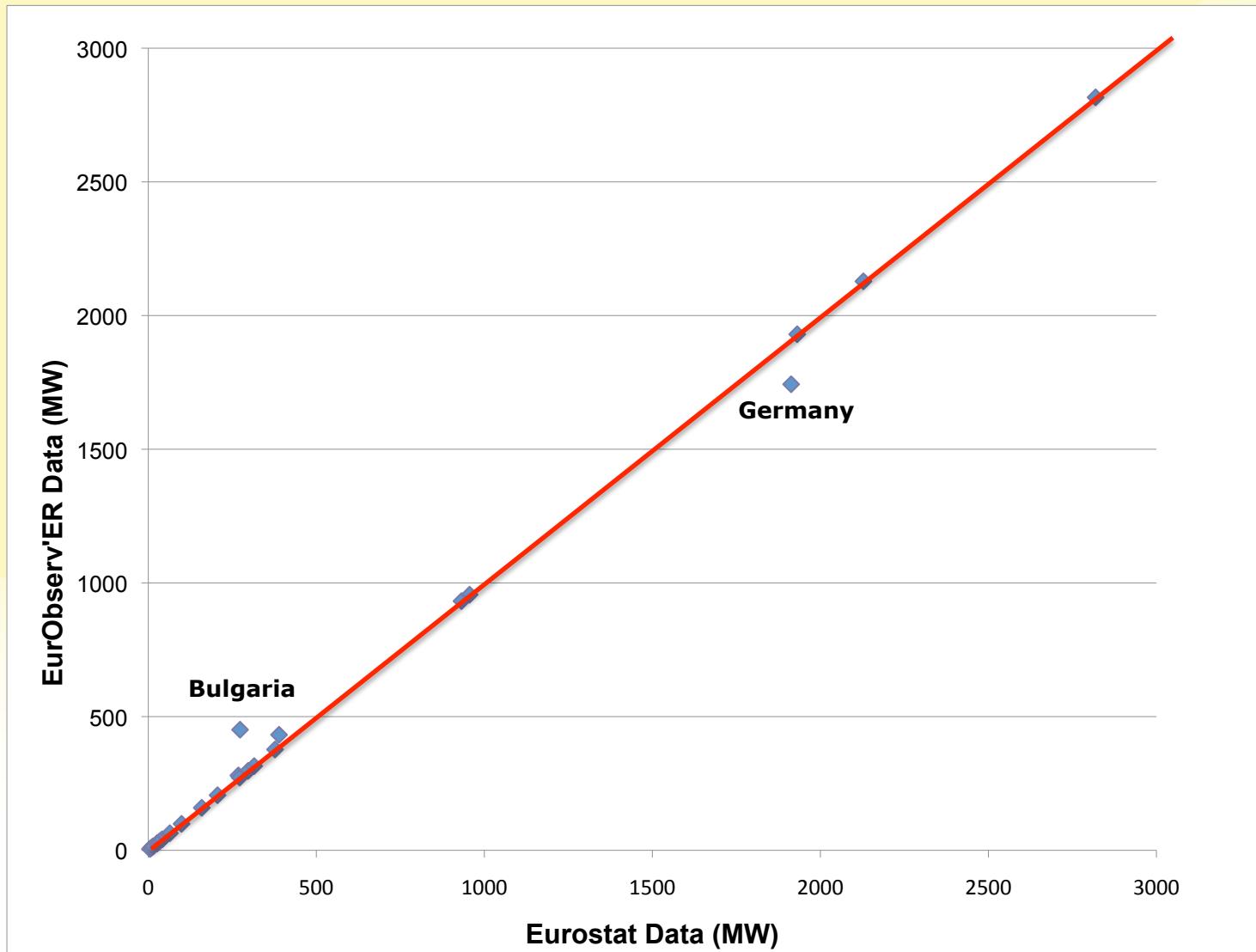
**0,4 %**

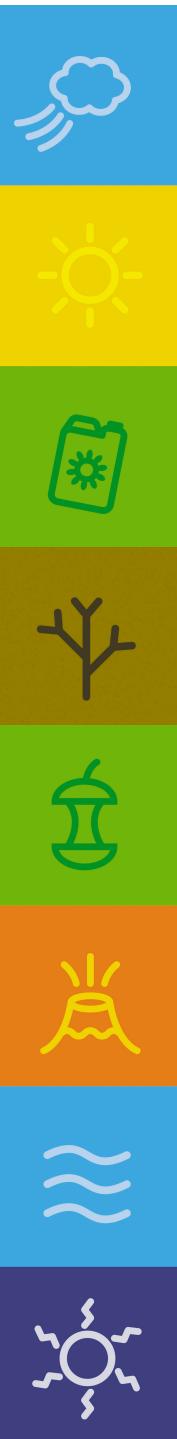
For Germany, provisional estimates from AGEE-Stat were used for the thematic barometer. Some consolidations were made in the final Eurostat questionnaire. For Bulgaria, EurObserv'ER is collecting data from APEE (Association of Producers of Ecological Energy) which do not give the same figures as the Ministry.



## Details of the comparison

### Small hydropower plants capacity installed





## Comparison EurObserv'ER indicators/Eurostat statistics

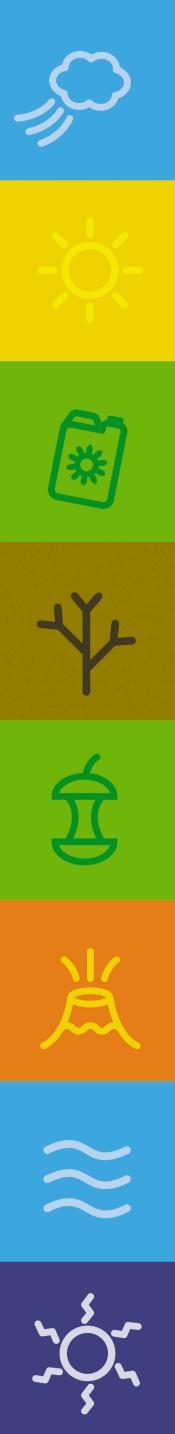


### Geothermal installed capacity for electricity generation (in MW) in 2011

	Eurostat	EurObserv'ER
EU 27	770	776
EU 25	770	776
EU 15	770	776
EU 10	0	0

**0,8 %**

One difference is that data for France in overseas departments are not taken into account by Eurostat.



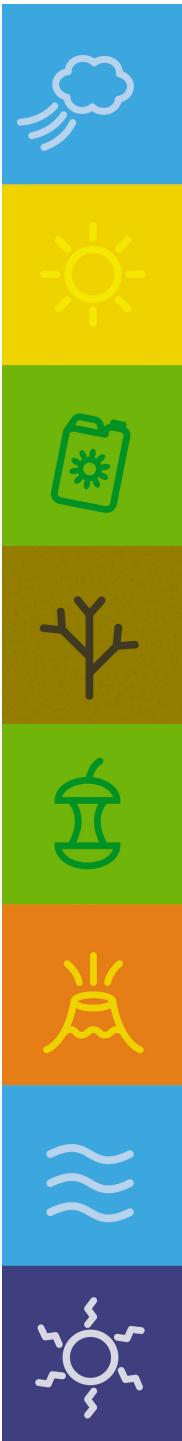
## Comparison EurObserv'ER indicators/Eurostat statistics



### Ocean energy capacity installed (in MW) in 2011

	Eurostat	EurObserv'ER
EU 27	241	242,9
EU 25	241	242,9
EU 15	241	242,9
EU 10	0	0

**0,7 %**



## Comparison EurObserv'ER indicators/Eurostat statistics



### Energy production

- Primary energy from biomass
  - From solid biomass
  - From renewable municipal wastes
  - From biogas
- Biofuels production
- Electricity generation from PV
- Electricity generation from windpower
- RES-E in gross electricity consumption
- RES in gross inland energy consumption



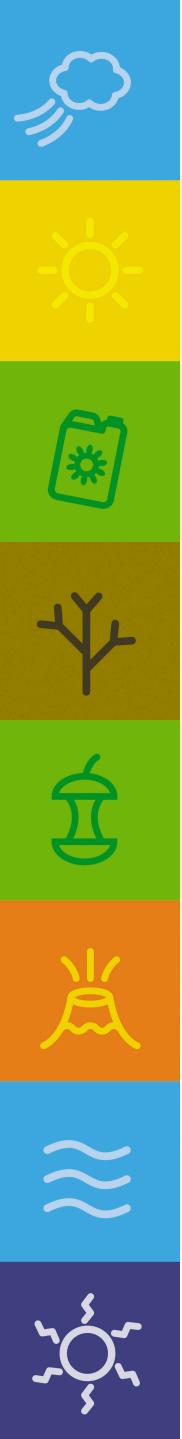
## Comparison EurObserv'ER indicators/Eurostat statistics



### Primary energy from solid biomass (ktoe) in 2011

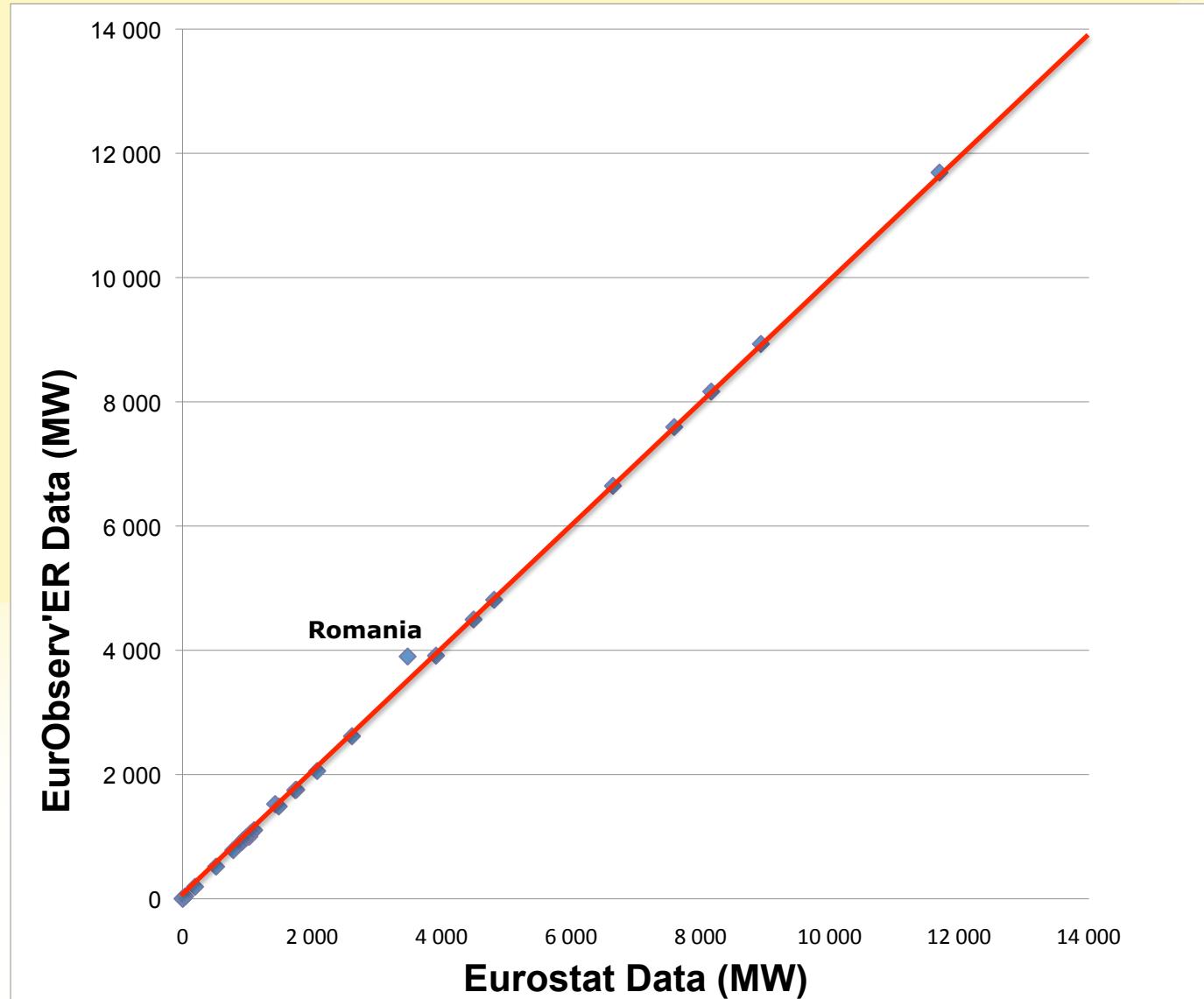
	Eurostat	EurObserv'ER
EU 27	78 397	78 875
EU 25	73 890	73 975
EU 15	58 764	58 768
EU 10	15 126	15 206

**0,7%**



## Details of the comparison

### Primary energy from solid biomass





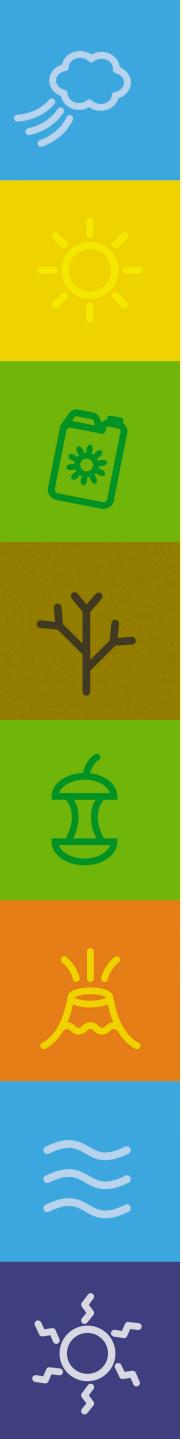
## Comparison EurObserv'ER indicators/Eurostat statistics



### Primary energy from waste (ktoe) in 2011

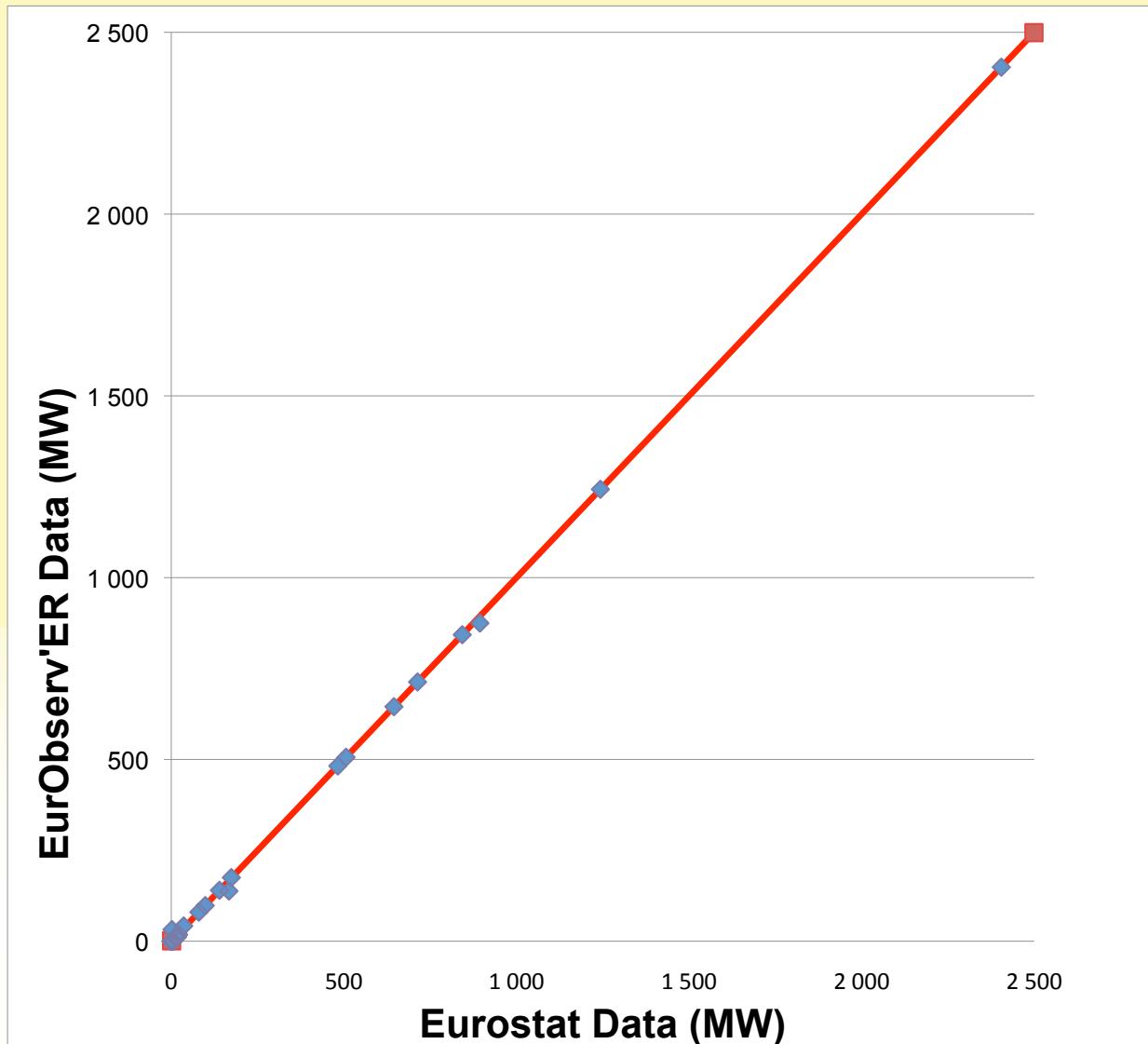
	Eurostat (only renewable municipal waste)	EurObserv'ER (only renewable municipal waste)
EU 27	8 456	8 487
EU 25	8 238	5 697
EU 15	5 666	5 697
EU 10	2 572	2 543

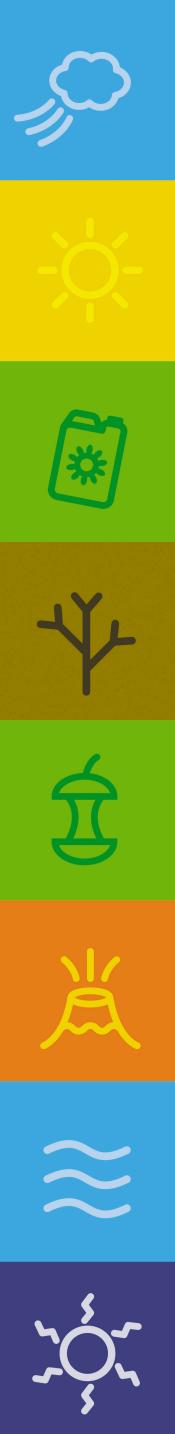
0,4 %



## Details of the comparison

### Primary energy from renewable municipal wastes





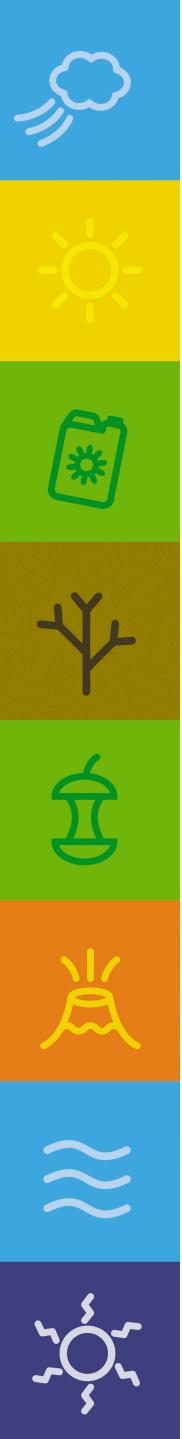
## Comparison EurObserv'ER indicators/Eurostat statistics



### Primary energy from biogas (ktoe) in 2011

	Eurostat	EurObserv'ER
EU 27	10 225	10 153
EU 25	10 209	10 150
EU 15	9 639	9 616
EU 10	570	533

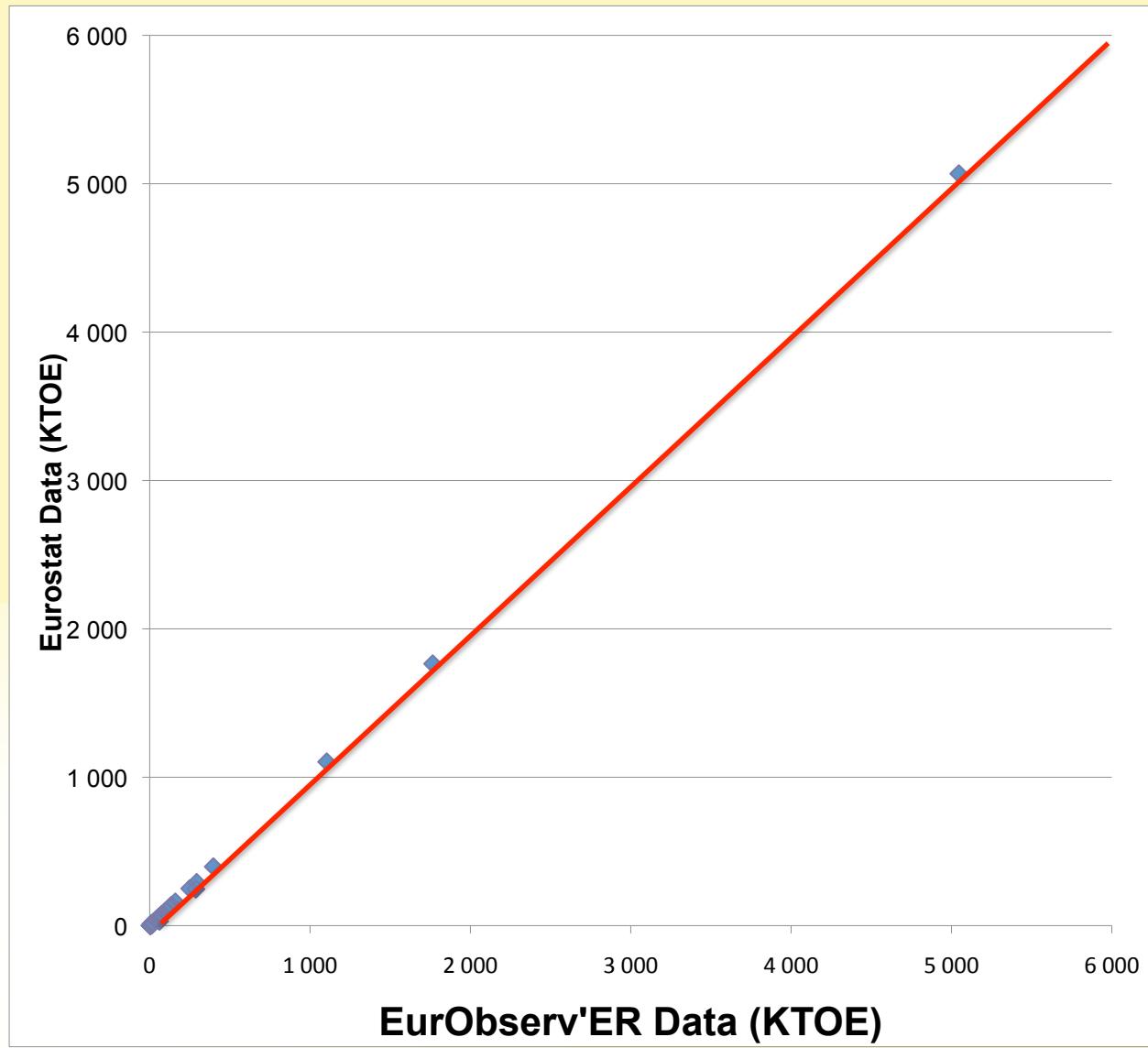
0,7 %



## Details of the comparison



### Primary energy from biogas





## Comparison EurObserv'ER indicators/Eurostat statistics

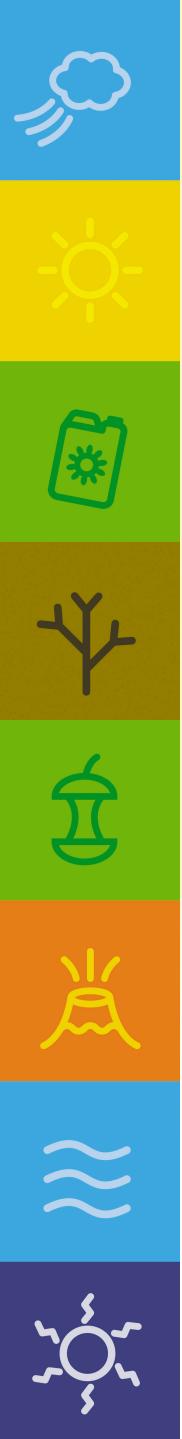


### Biofuels consumption (in ktoe) in 2011

	Eurostat Cons. for transport	EurObserv'ER
EU 27	13 951	13 976
EU 25	13 739	13 777
EU 15	12 031	11 965
EU 10	1 708	1 811

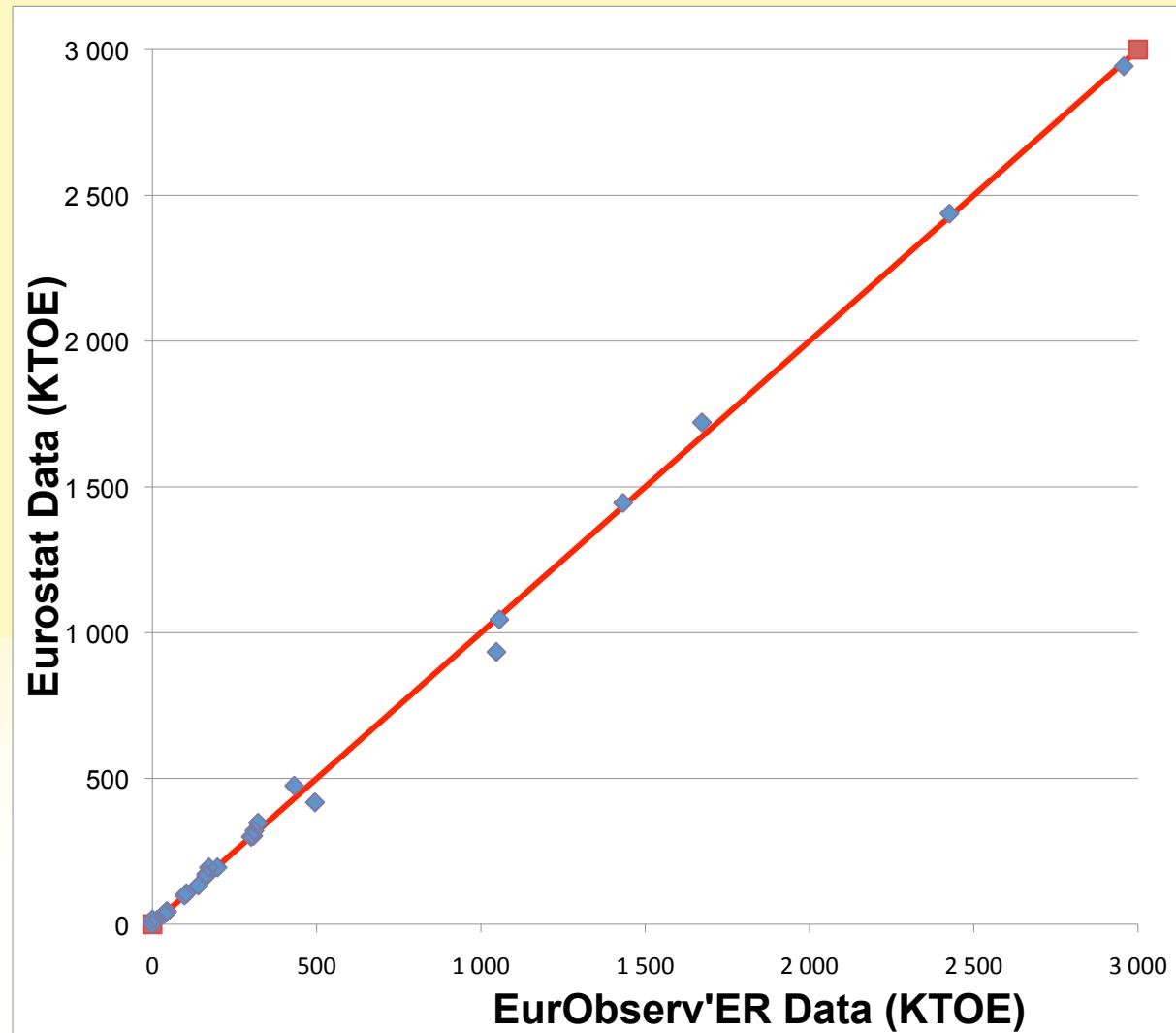
0,2 %

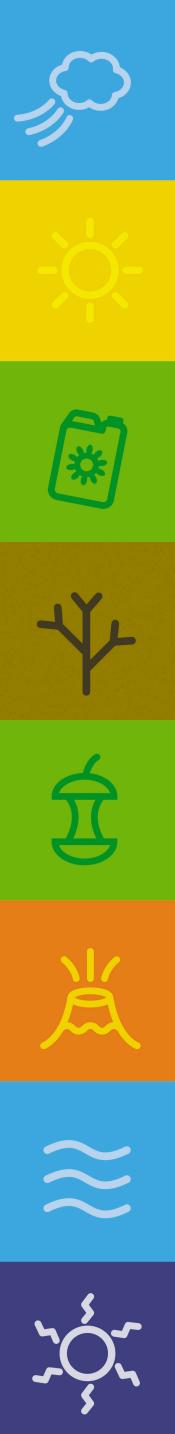
Since 2010 EurObserv'ER is using the methodology indicated in the European Directive to convert tons of biofuels into toe. This methodology is not always used by all statistical offices in Europe.



## Details of the comparison

### Biofuels consumption





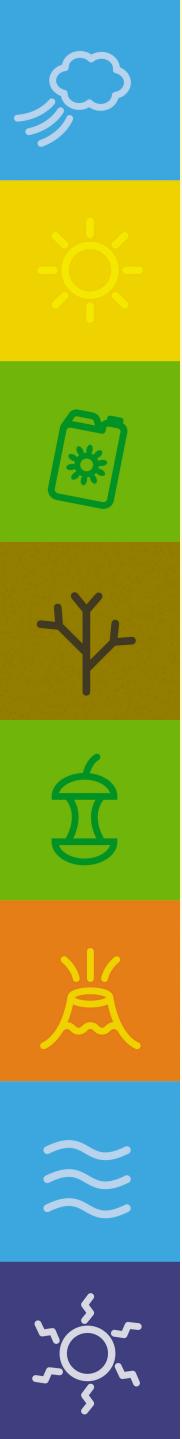
## Comparison EurObserv'ER indicators/Eurostat statistics



### Electricity generation from PV (GWh) in 2011

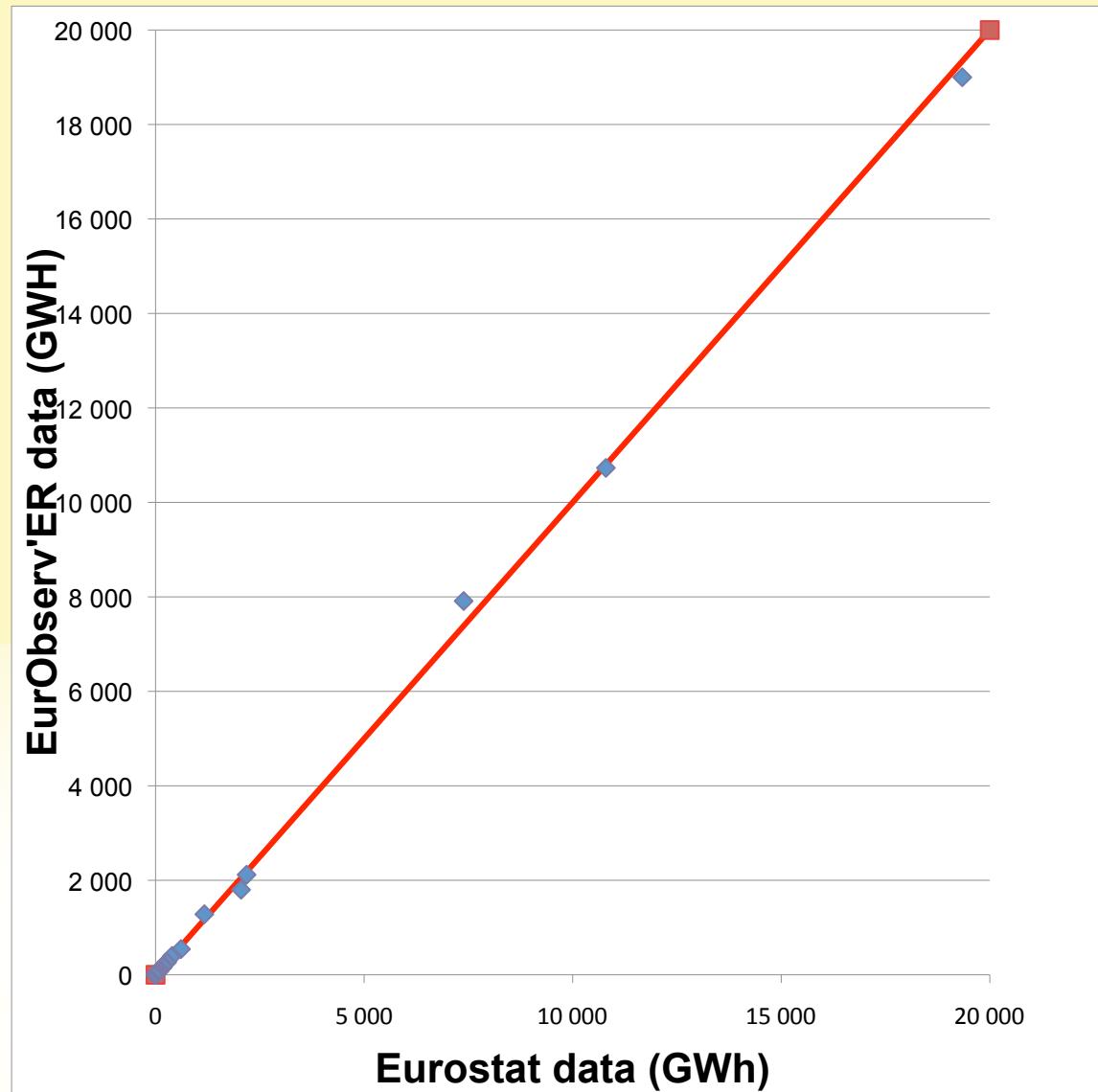
	Eurostat	EurObserv'ER
EU 27	44 972	44 832
EU 25	44 870	44 710
EU 15	42 212	42 097
EU 10	2 658	2 612

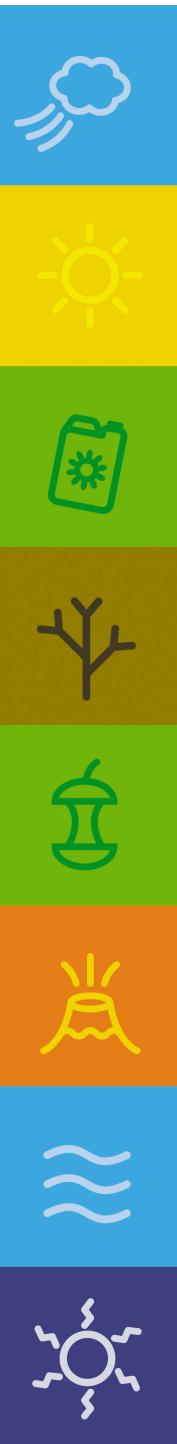
0,3 %



## Details of the comparison

### Electricity generation from PV





## Comparison EurObserv'ER indicators/Eurostat statistics

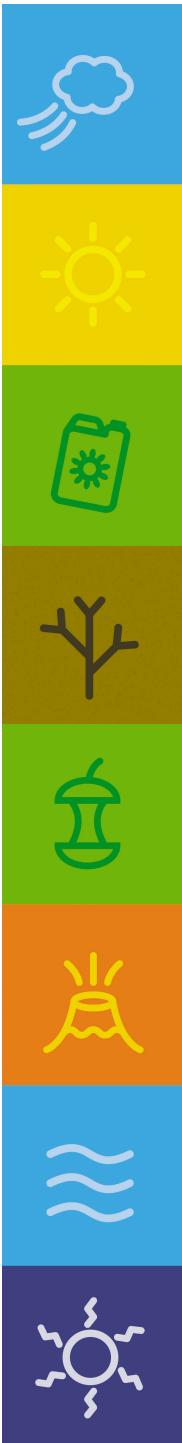


### Electricity generation from windpower (GWh) in 2011

	Eurostat	EurObserv'ER
EU 27	179 015	172 124
EU 25	168 993	161 892
EU 15	160 452	153 594
EU 10	8 541	8 083

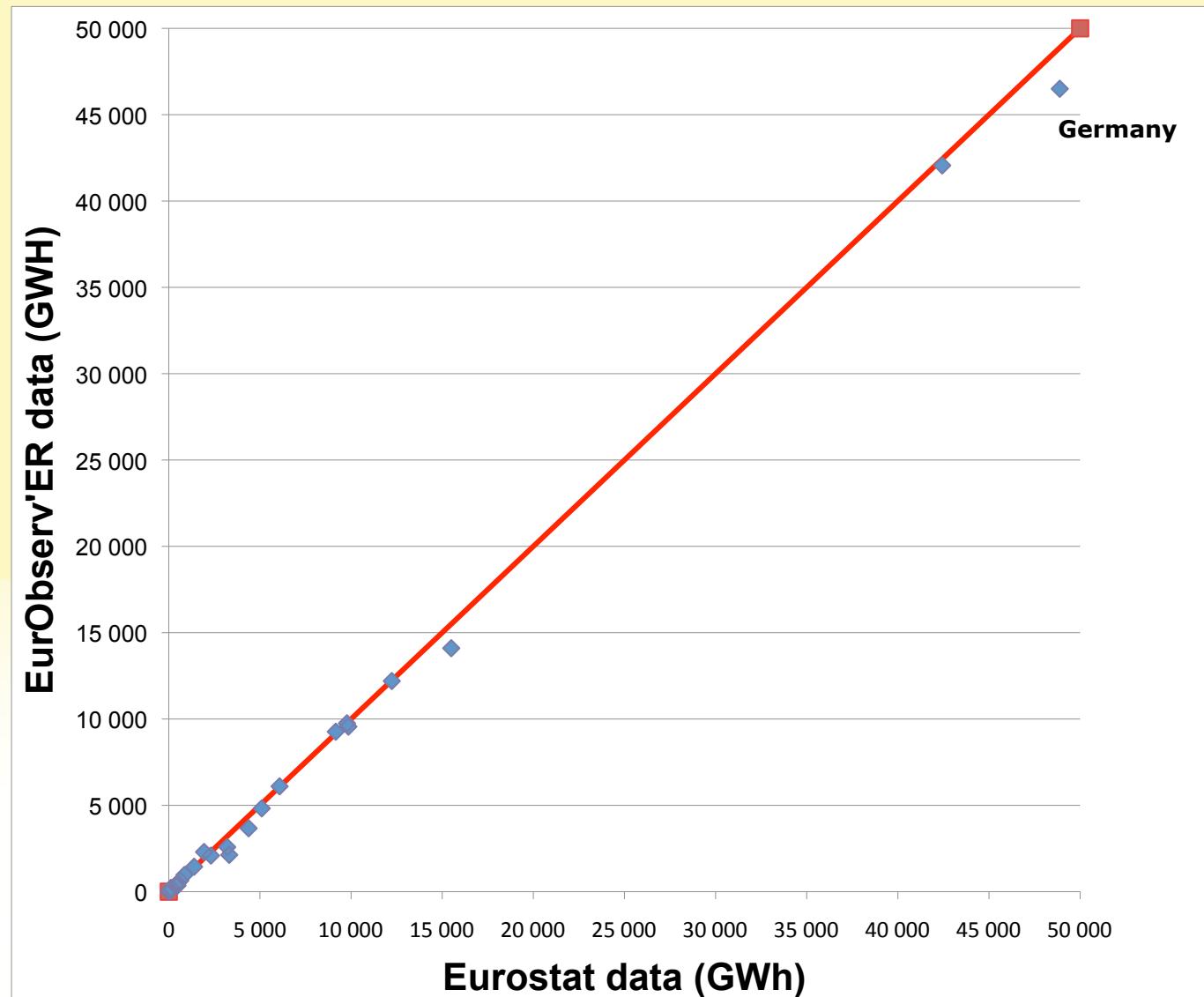
3,8 %

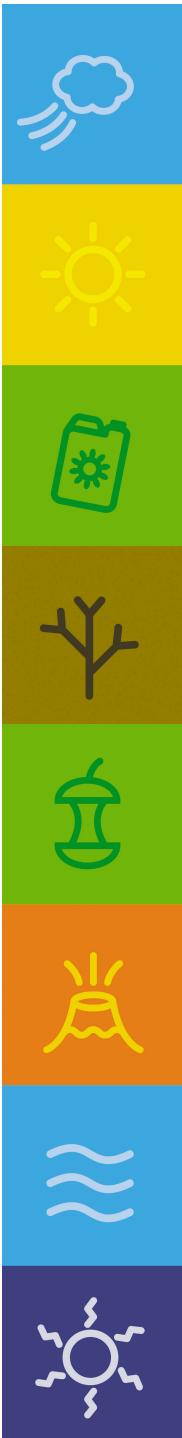
- Data for electricity production from windpower in Germany was not available when EurObserv'ER published its figures. EurObserv'ER estimated the production.



## Details of the comparison

### Electricity generation from windpower





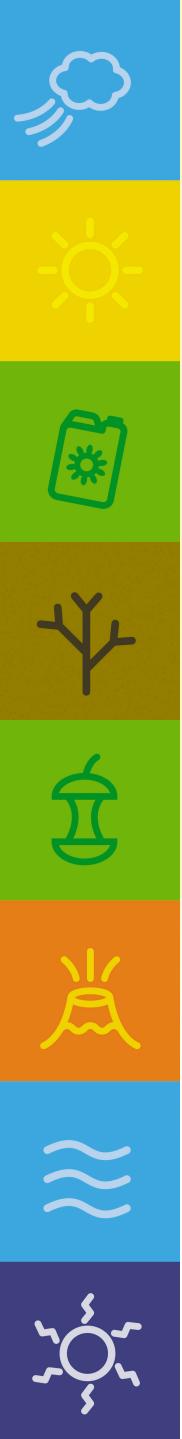
## Comparison EurObserv'ER indicators/Eurostat statistics



### RES-E in gross electricity consumption (in %) in 2011

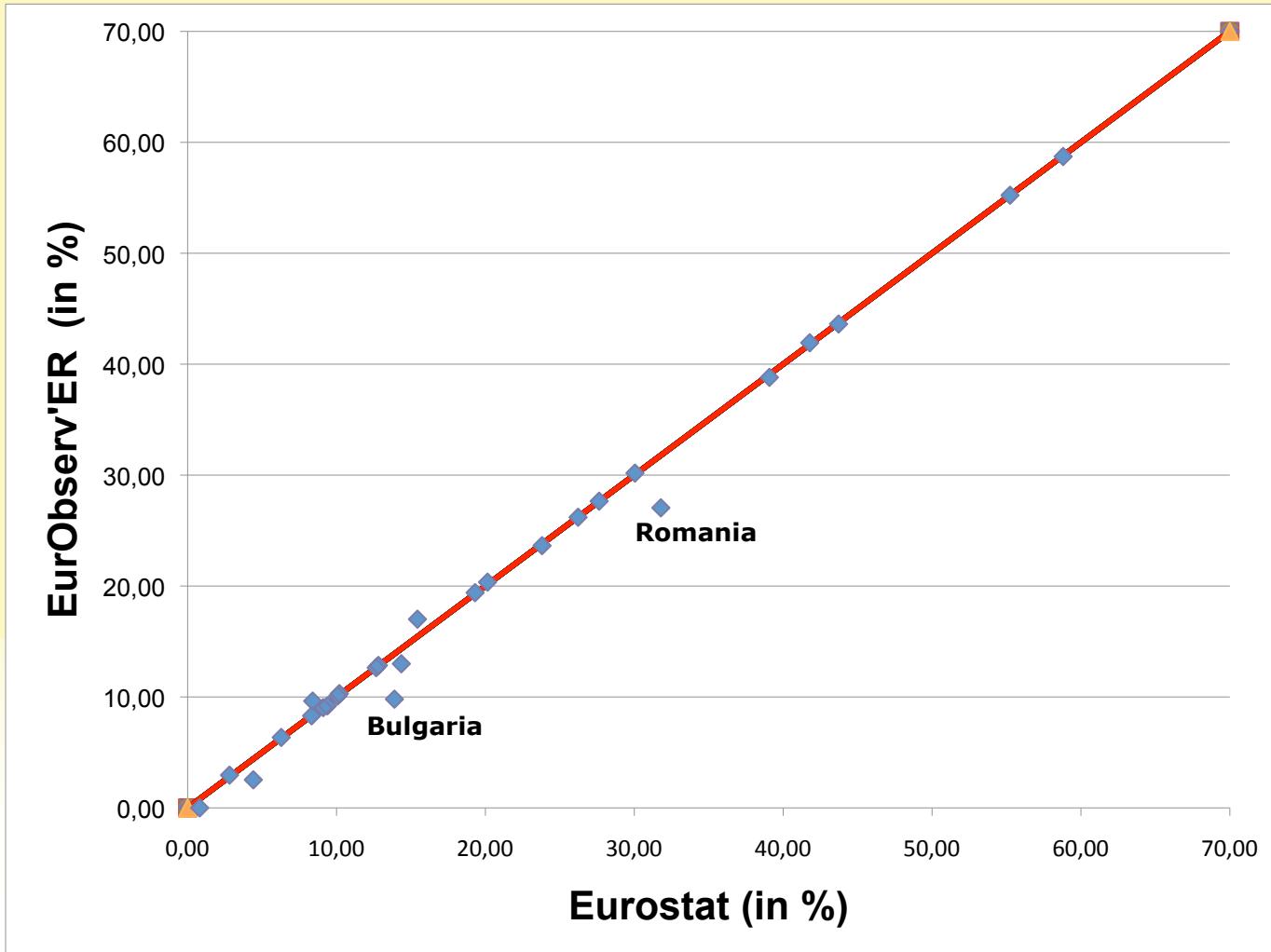
	Eurostat	EurObserv'ER
EU 27	20,4 %	20,6 %

**0,8 %**

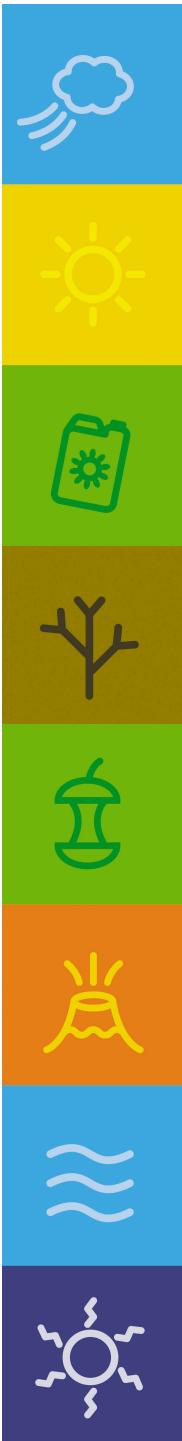


## Details of the comparison

### RES-E in gross electricity consumption (in %) in 2011



- For Romania and Bulgaria EurObserv'ER underestimated the gross electricity consumption in 2011



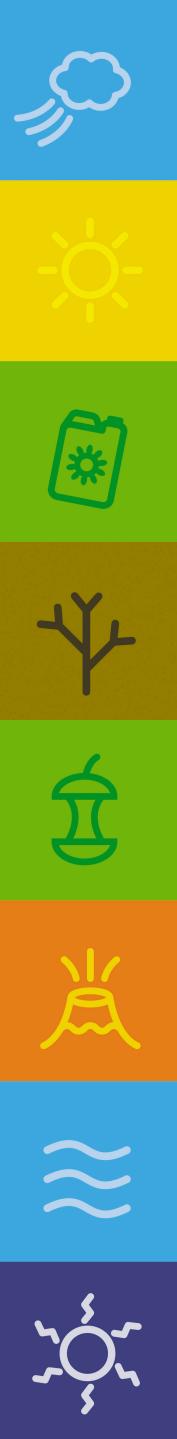
## Comparison EurObserv'ER indicators/Eurostat statistics



### RES in gross final energy consumption in 2010 (in %)

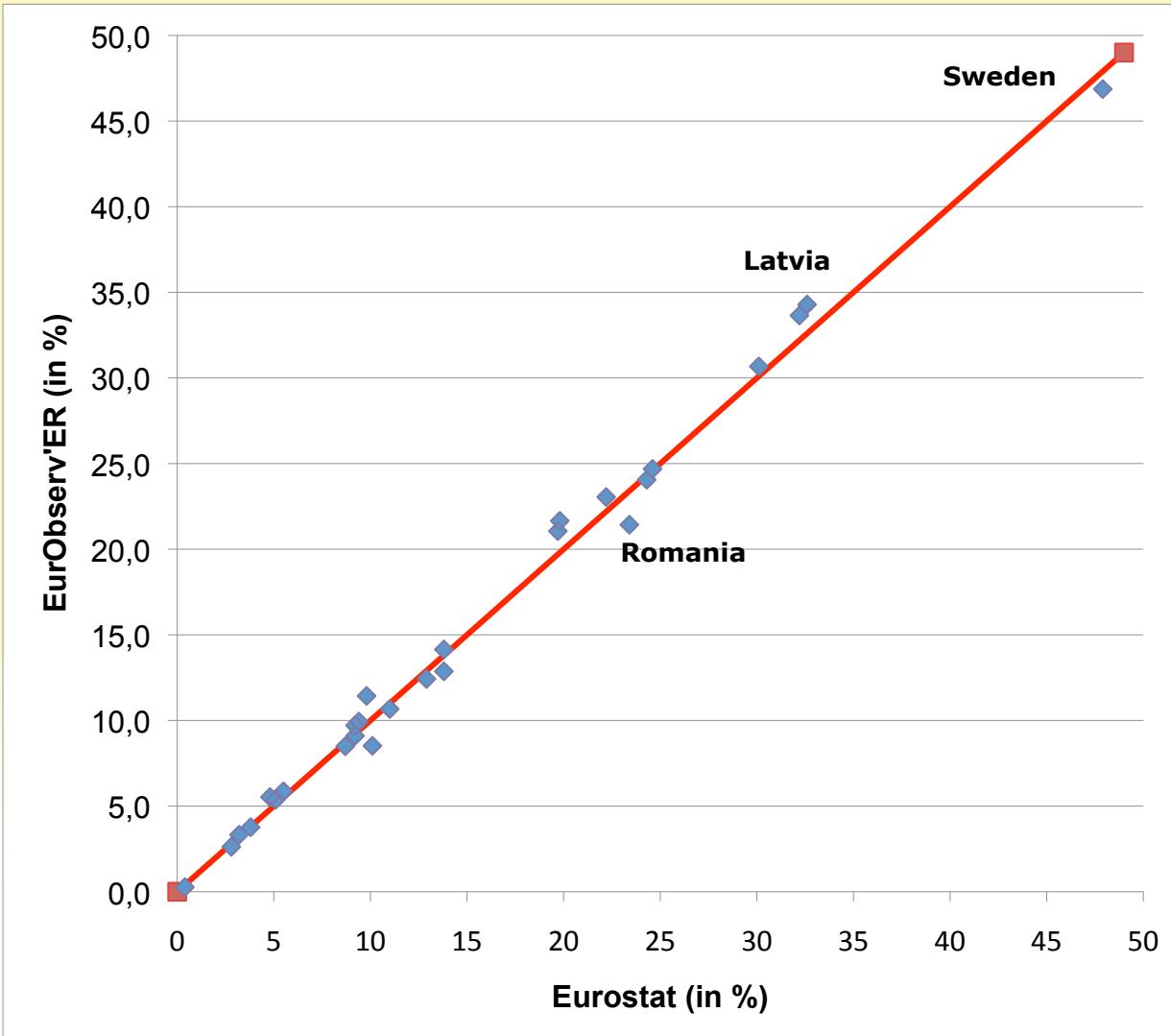
	Eurostat	EurObserv'ER
EU 27	12,5%	12,4 %

**0,8 %**



## Details of the comparison

### Share of RES in gross final energy consumption in 2010 (in %)



- For Romania and Sweden EurObserv'ER underestimated the gross final energy consumption in 2010
- For Latvia overestimated the gross final energy consumption in 2010