

The EurObserv'ER barometer

Contract N°EIE/O9/737/SI2.558317

Project supported by :

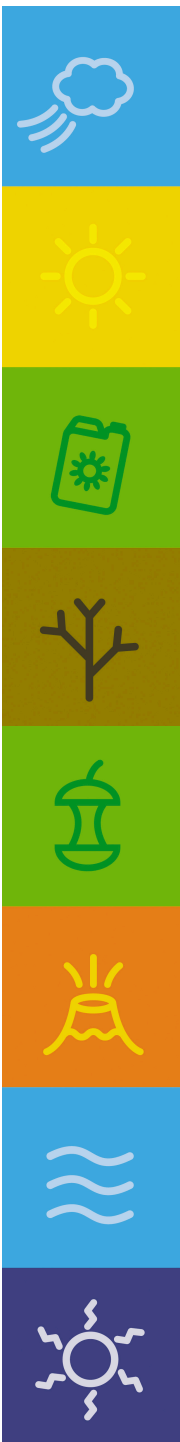


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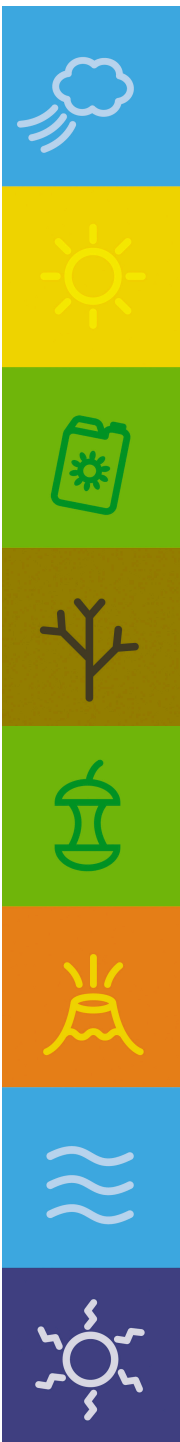
ADEME





Data comparison between Eurostat and EurObserv'ER

March 2015



Comparison EurObserv'ER / Eurostat



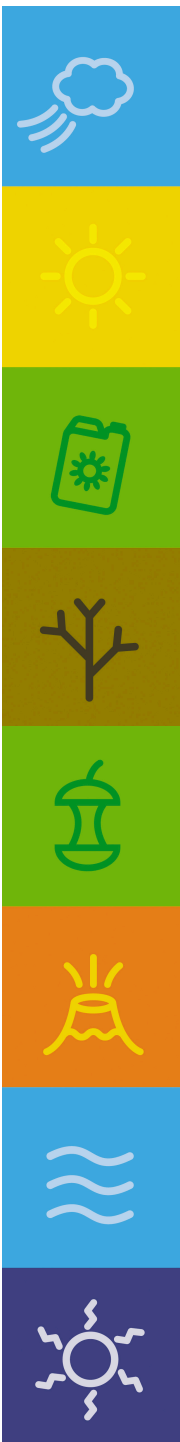
The purpose of this work is to compare two kinds of surveys:

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

2 thematic of indicators are covered :

- Data about RES capacity installed
- Data about RES energy generated

This comparison was carried out in February 2015 for the energy production indicators and the capacity indicators. The following slides compare the most updated figures provided by Eurostat on RES at that time (for year 2013) and the data for the same year published in 2014 by EurObserv'ER (on thematic and overview barometers).



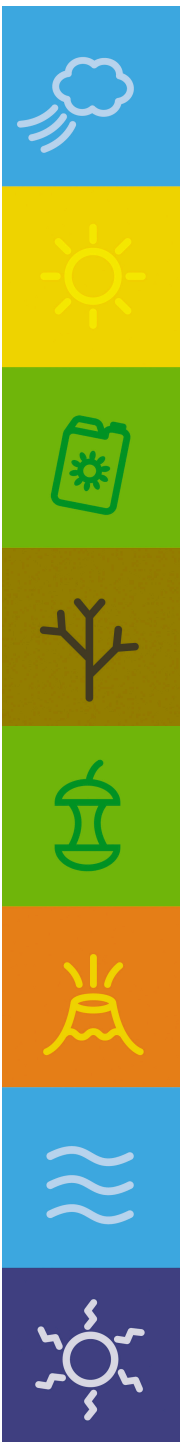
Comparison EurObserv'ER indicators/Eurostat statistics



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 5 % (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

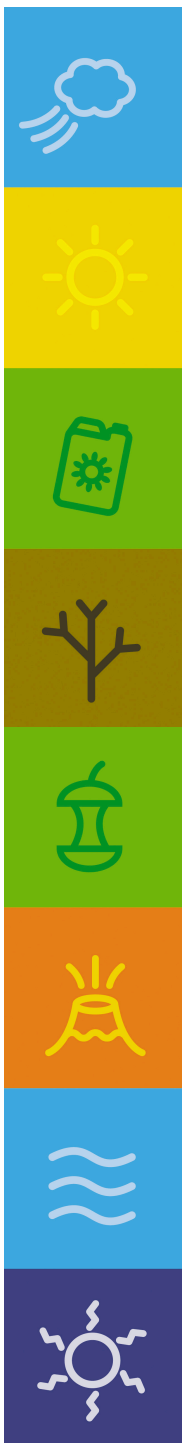


Comparison EurObserv'ER indicators/Eurostat statistics



Capacity installed

- **Solar thermal**
- **Windpower**
- **PV**
- **Small hydropower plants**
- **Geothermal for electricity generation**



Comparison EurObserv'ER indicators/Eurostat statistics



Solar thermal capacity installed (in thousand m²) in 2013

	Eurostat	EurObserv'ER
EU 28	49 337	44 845
EU 25	47 798	44 463
EU 15	44 519	40 670
EU 10	3 279	3 793

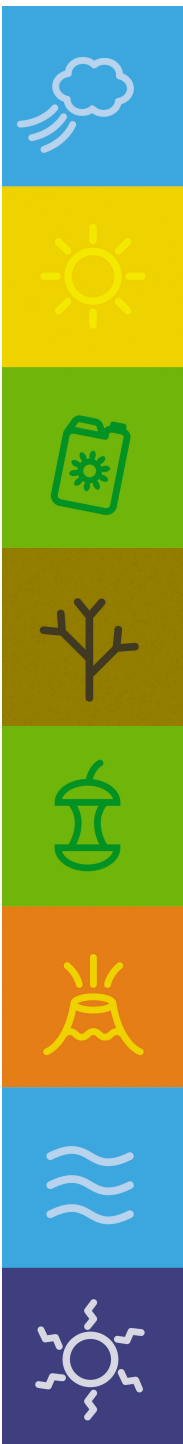
10 %

The main differences are on 2 countries: U.K. and Romania

Eurostat announced 5 545 000 m² for the U.K. and 1 087 000 m² for Romania at the end of 2013.

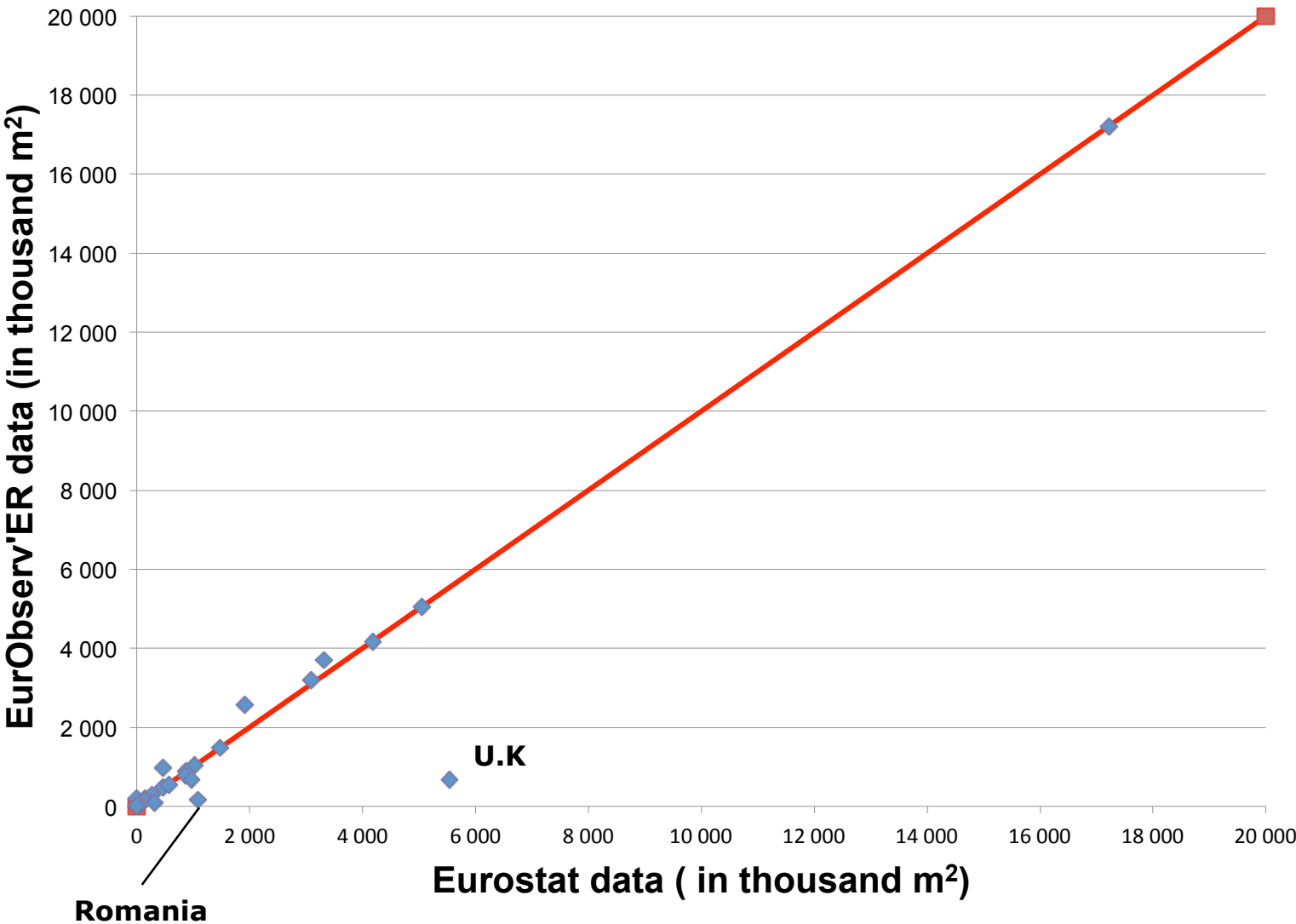
These figures are not in line with the data collected by EurObserv'ER (respectively 679 000 m² and 157 000 m²) and the data published by ESTIF (respectively 744 000 m² and 129 000 m²).

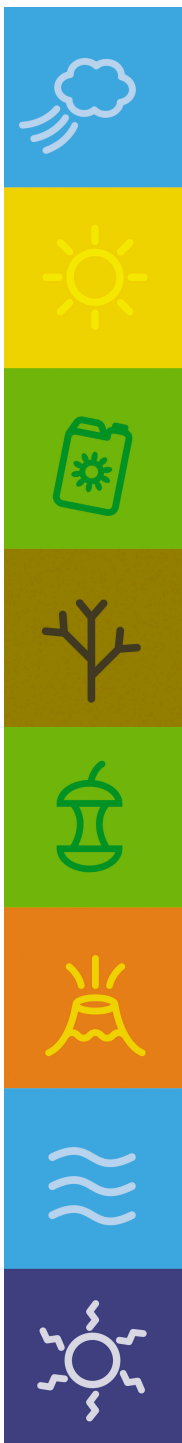
An explanation could be that British and Romanian Eurostat data express the total installed surface for all solar panels (PV + solar thermal) instead of just the thermal part.



Details of the comparison

Solar thermal capacity installed





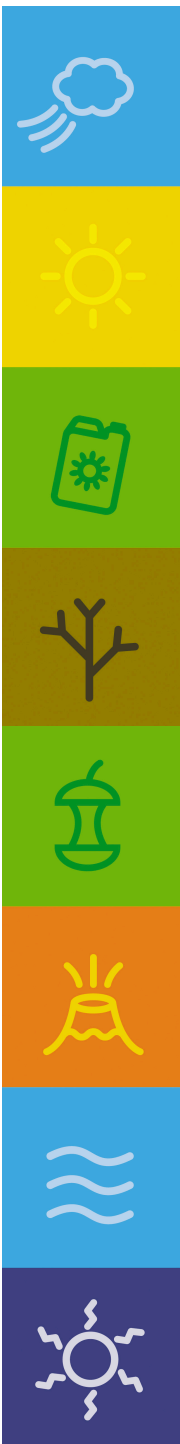
Comparison EurObserv'ER indicators/Eurostat statistics



Windpower capacity installed (in MW) in 2013

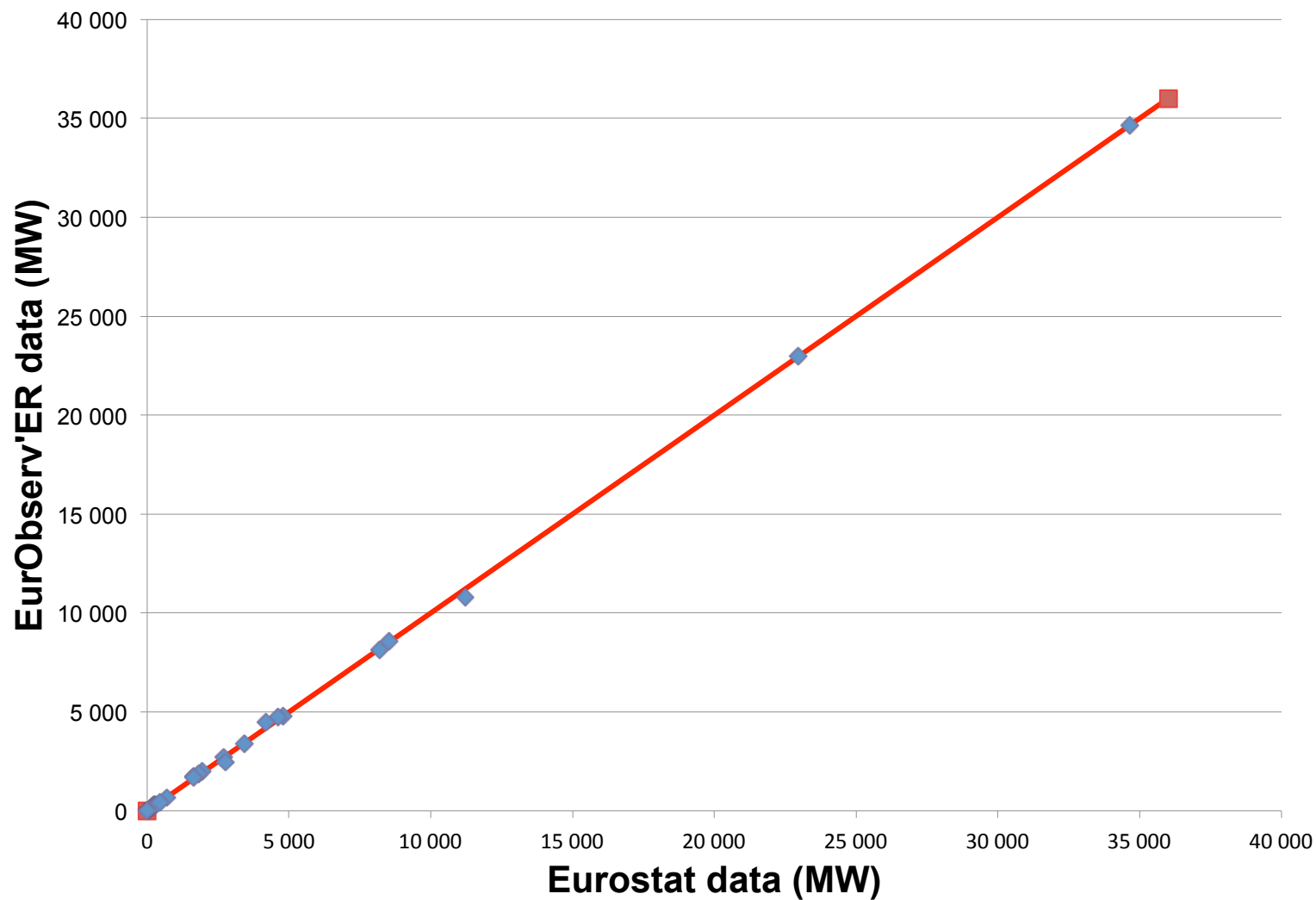
	Eurostat	EurObserv'ER
EU 28	117 936	117 730
EU 25	114 226	114 296
EU 15	109 456	109 532
EU 10	4770	4 764

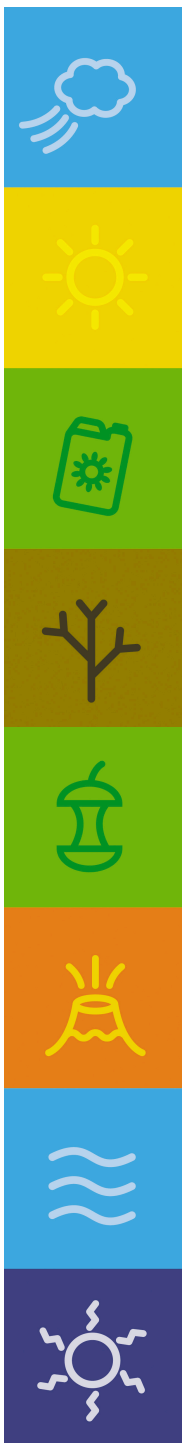
0,2 %



Details of the comparison

Windpower capacity installed, 2013





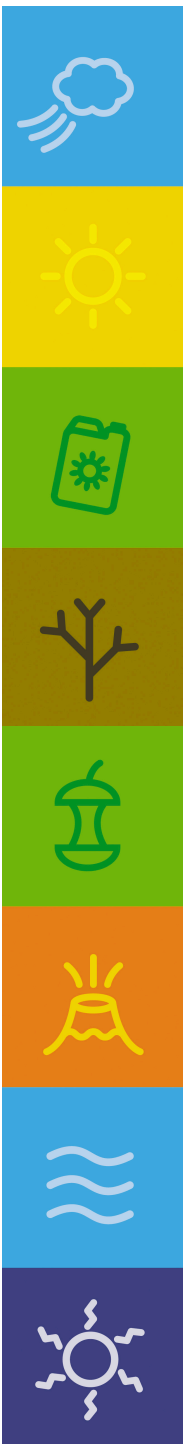
Comparison EurObserv'ER indicators/Eurostat statistics



PV capacity installed (in MW) in 2013

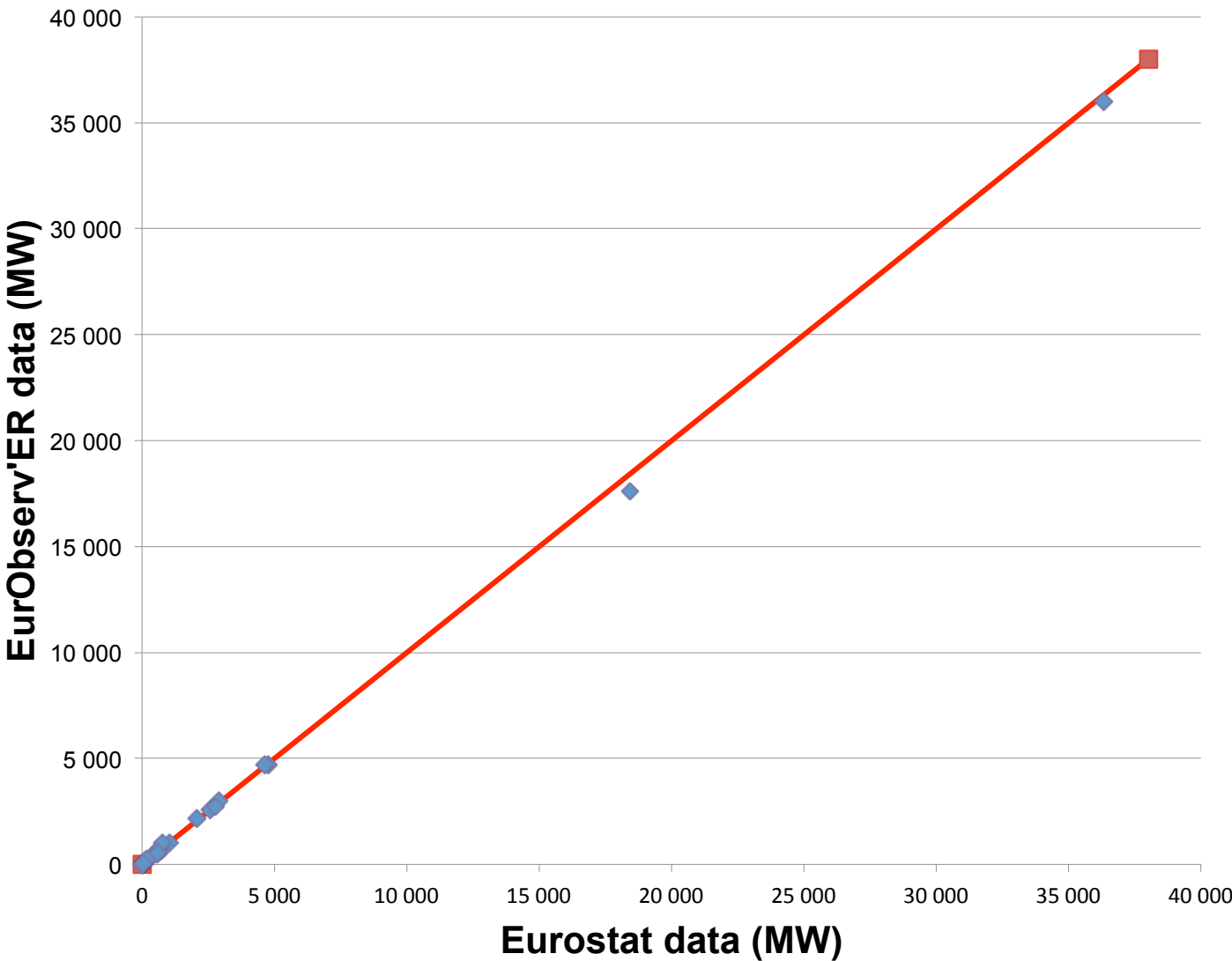
	Eurostat	EurObserv'ER
EU 28	79 623	78 798
EU 25	77 807	76 735
EU 15	74 797	73 662
EU 10	3 010	3 074

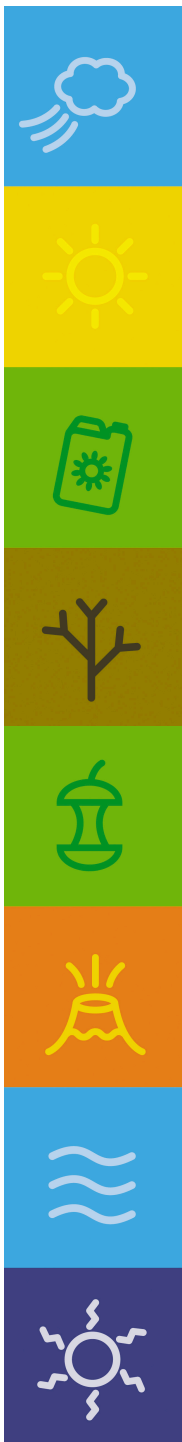
1,04 %



Details of the comparison

PV capacity installed





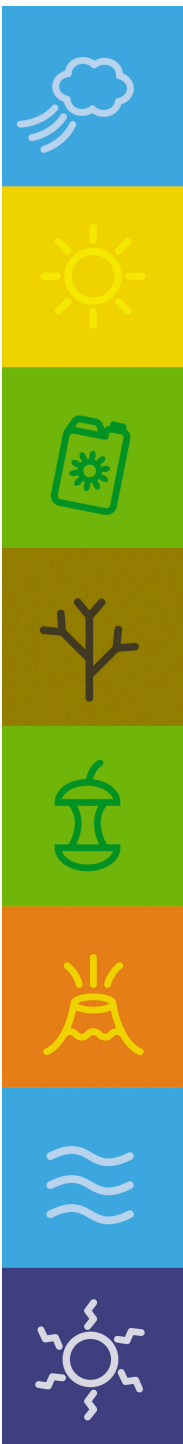
Comparison EurObserv'ER indicators/Eurostat statistics



Small hydropower plants capacity installed (in MW) in 2013

	Eurostat	EurObserv'ER
EU 28	13 512	14 050
EU 25	12 723	13 207
EU 15	11 807	12 319
EU 10	916	888

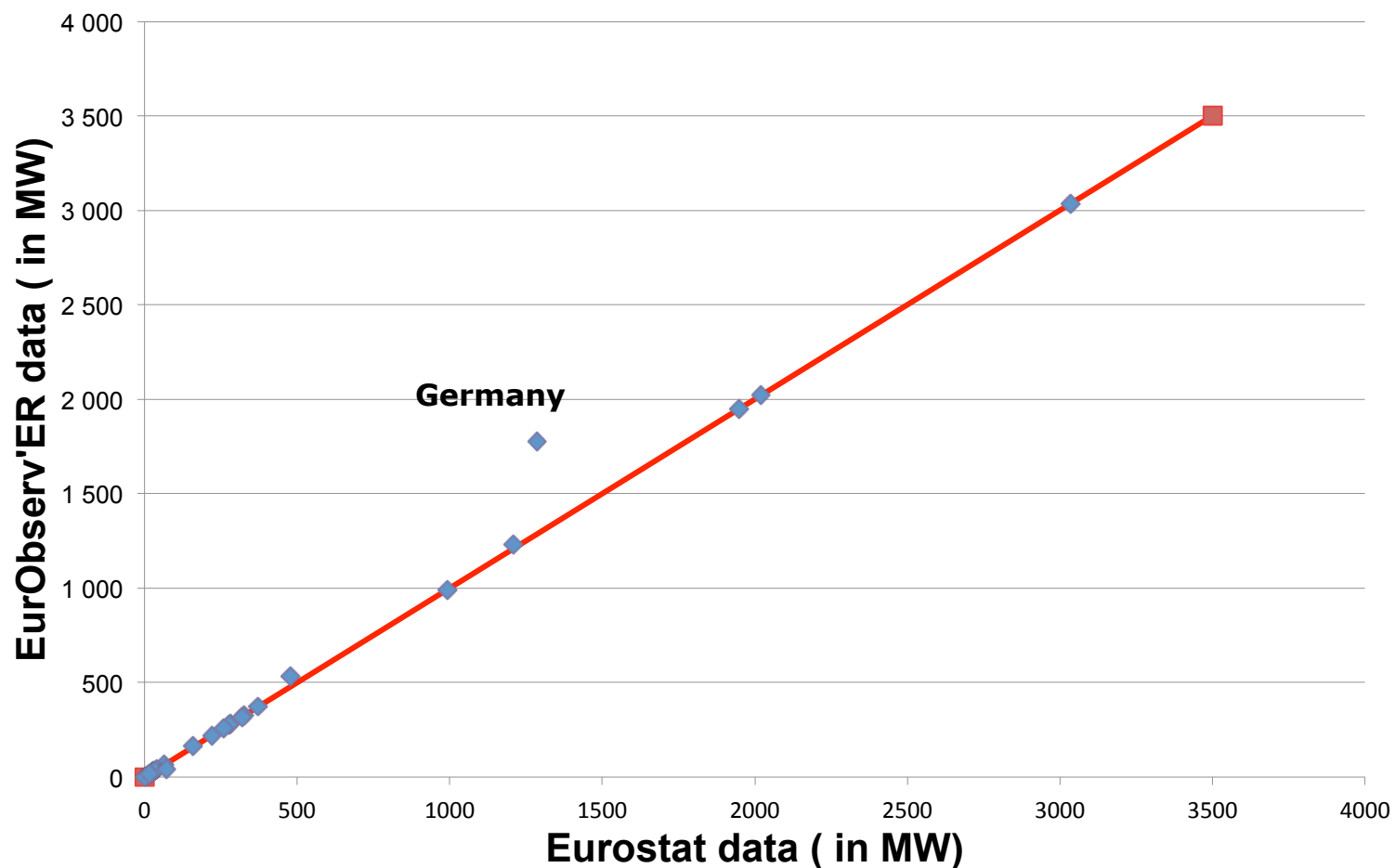
4 %



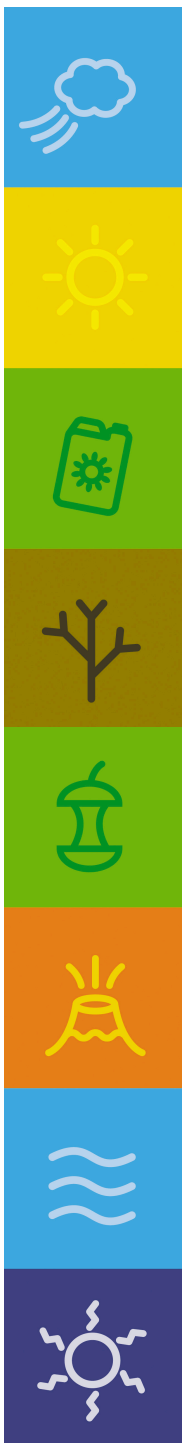
Details of the comparison



Small hydropower plants capacity installed



Eurostat statistic figures for small hydro sector in Germany has been consolidated compared to the data collected by EurObserv'ER



Comparison EurObserv'ER indicators/Eurostat statistics

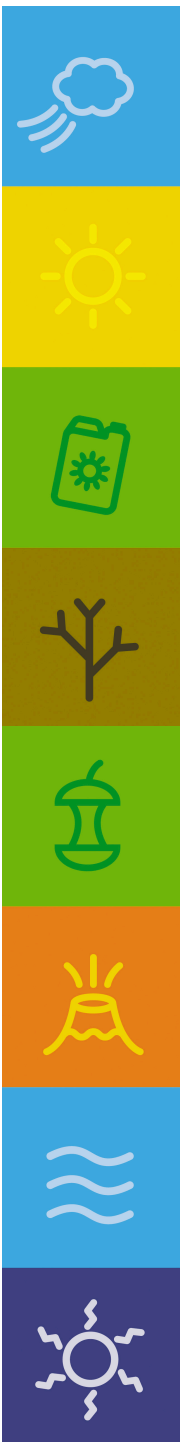


Geothermal installed capacity for electricity generation (in MW) in 2013

	Eurostat	EurObserv'ER
EU 28	781	795
EU 25	781	795
EU 15	781	795
EU 10	0	0

1,7 %

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

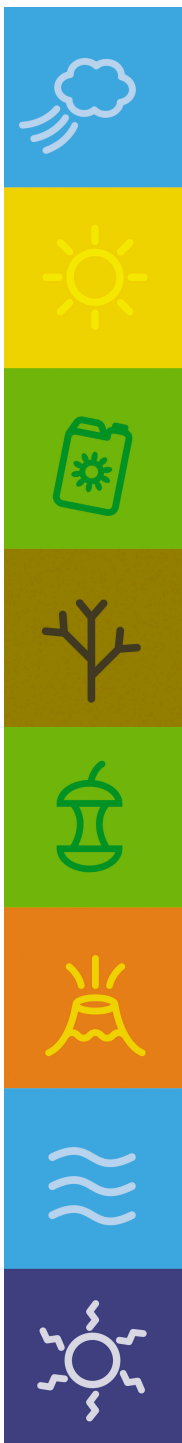


Comparison EurObserv'ER indicators/Eurostat statistics



Energy production

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



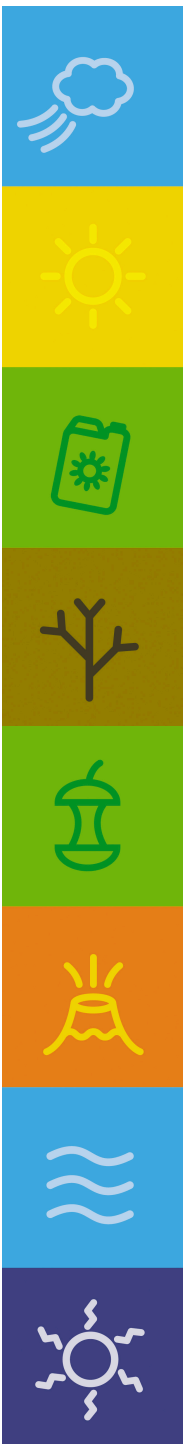
Comparison EurObserv'ER indicators/Eurostat statistics



Primary energy production from solid biomass in 2013 (ktoe)

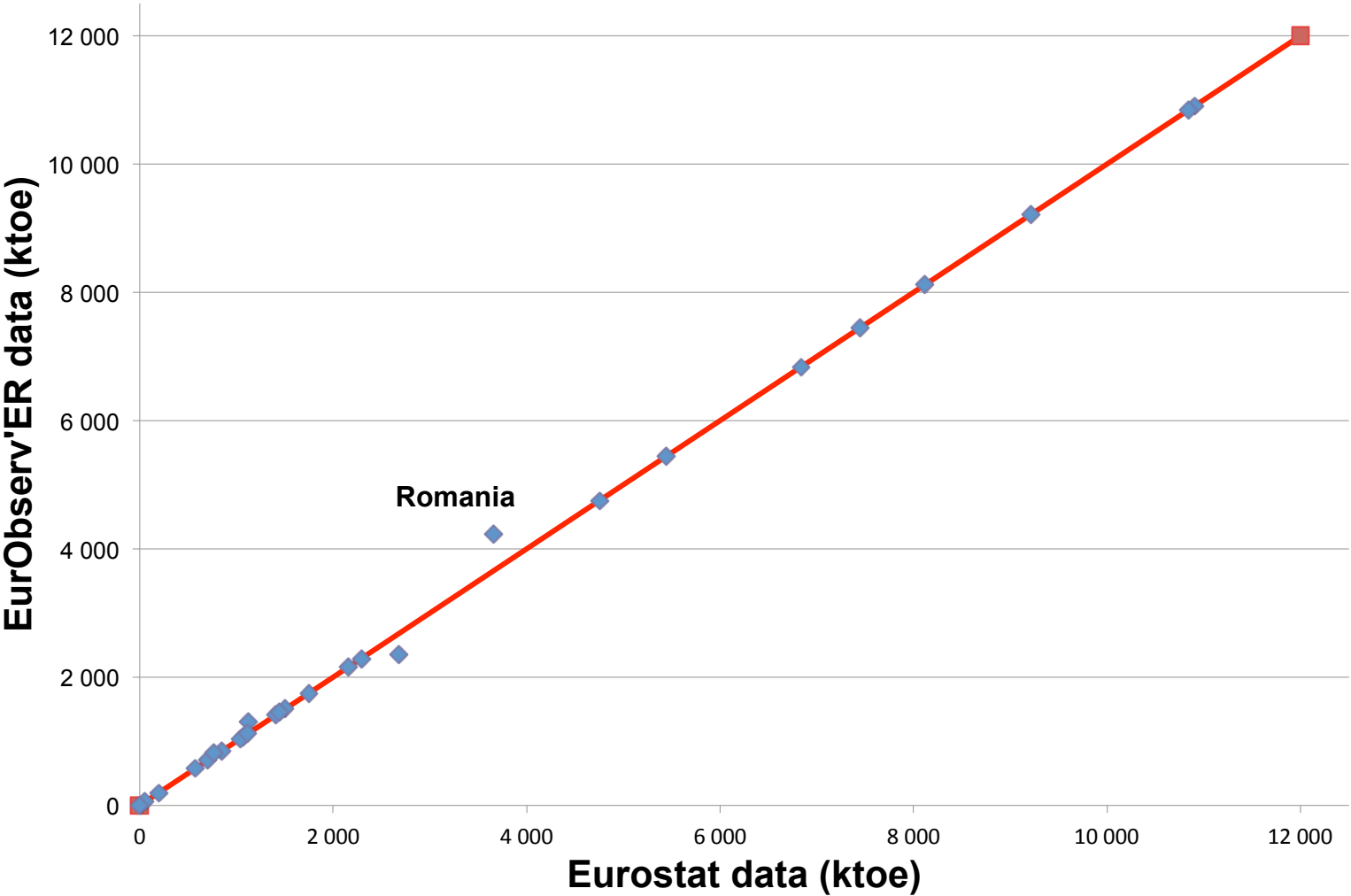
	Eurostat	EurObserv'ER
EU 28	87 928	88 423
EU 25	82 445	82 184
EU 15	66 664	66 338
EU 10	15 781	15 846

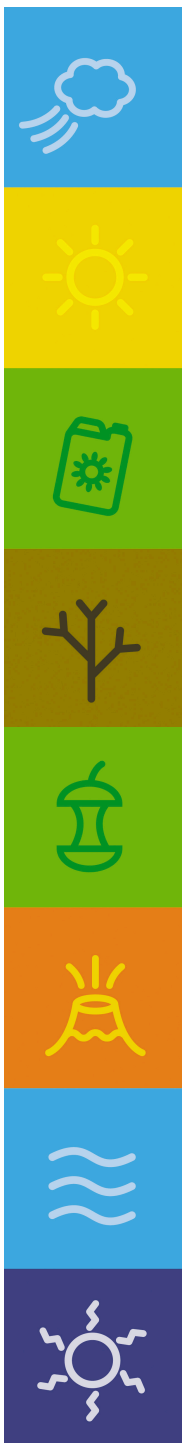
0.6 %



Details of the comparison

Primary energy production from solid biomass





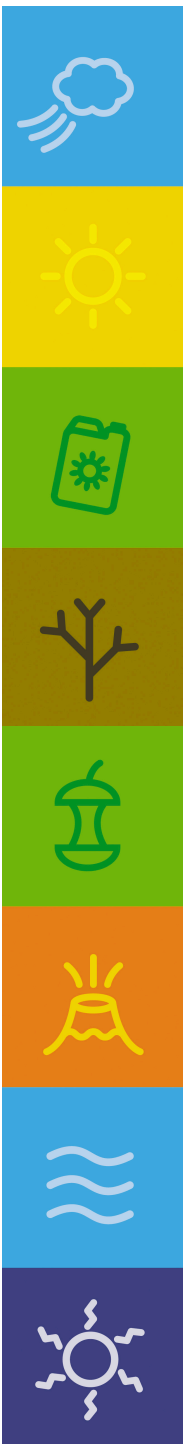
Comparison EurObserv'ER indicators/Eurostat statistics



Primary energy production from waste in 2013 (ktoe)

	Eurostat (only renewable part)	EurObserv'ER (only renewable part)
EU 28	8 894	8 966
EU 25	8 879	8 945
EU 15	8 691	8 747
EU 10	188	198

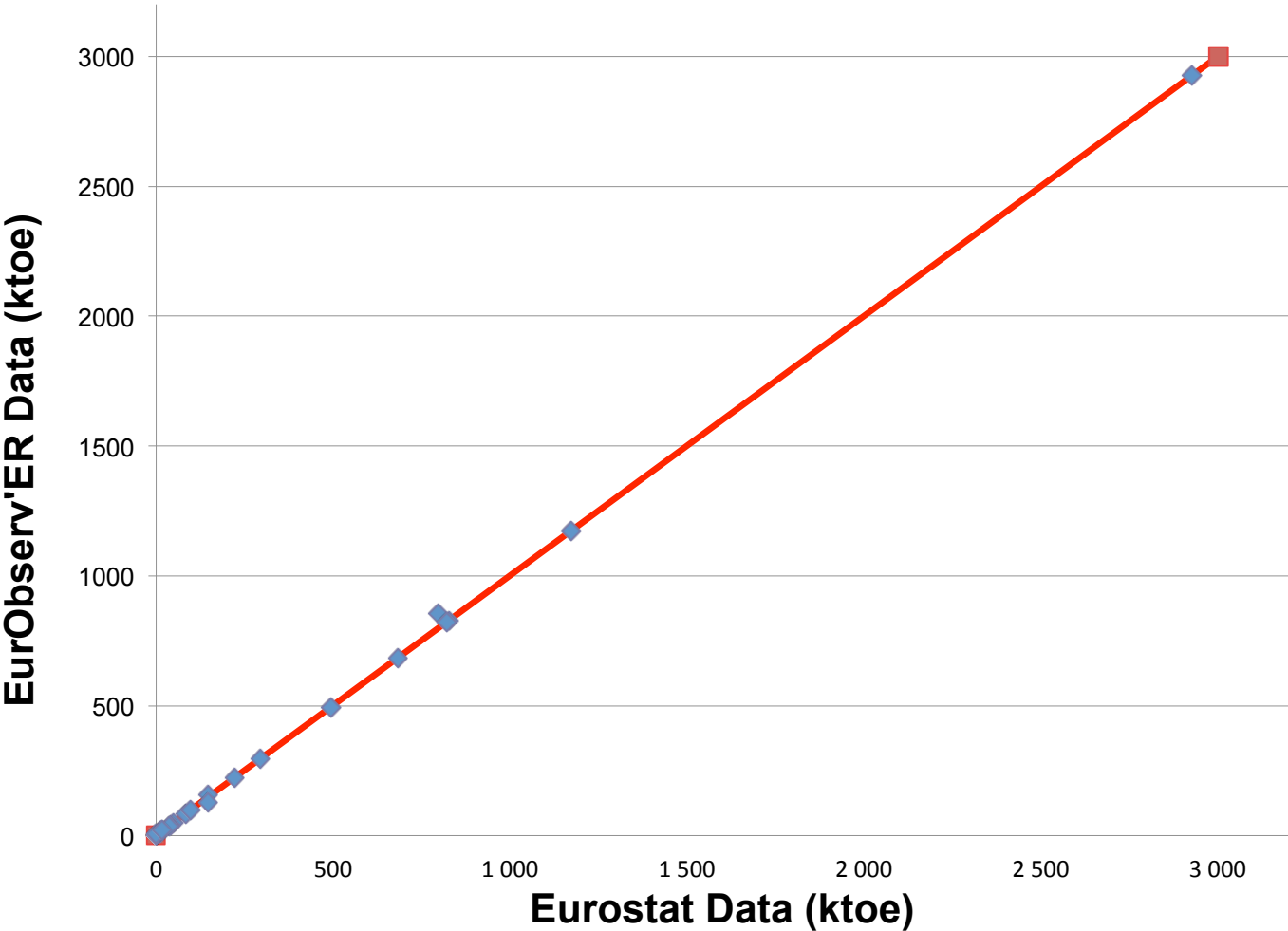
2,4%

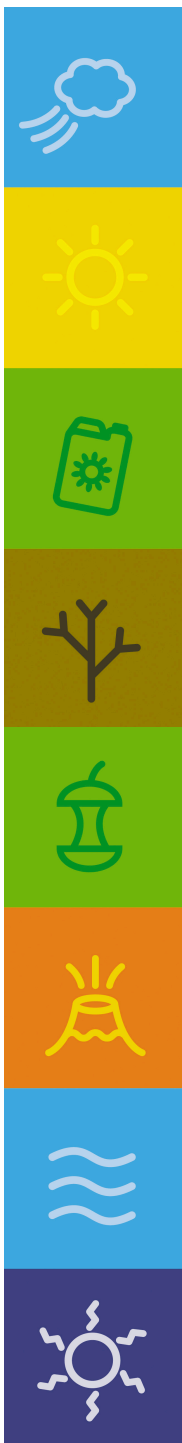


Details of the comparison



Primary energy production from renewable municipal waste, 2013





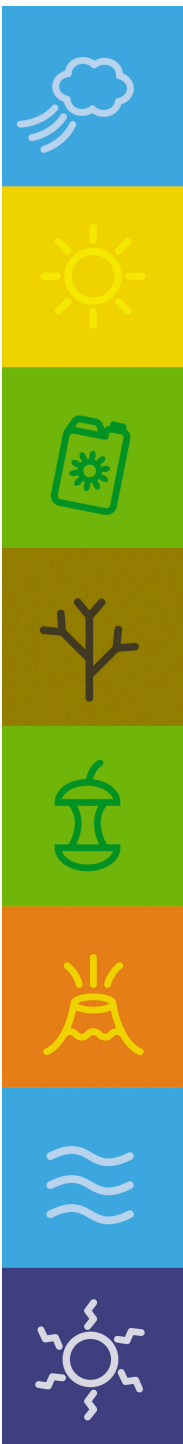
Comparison EurObserv'ER indicators/Eurostat statistics



Primary energy production from biogas in 2013 (ktoe)

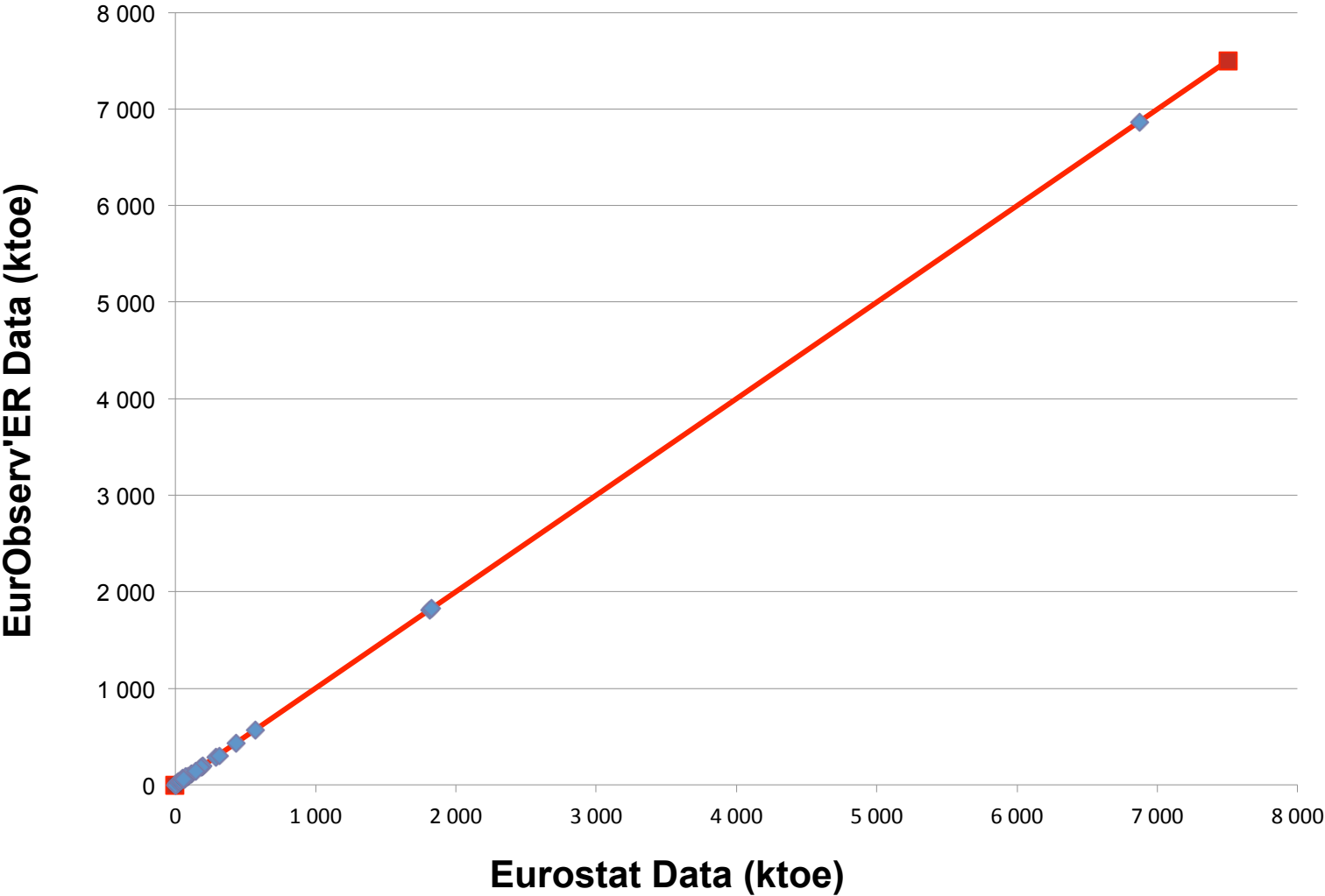
	Eurostat	EurObserv'ER
EU 28	13 521	13 531
EU 25	13 483	13 484
EU 15	12 464	12 448
EU 10	1 019	1 036

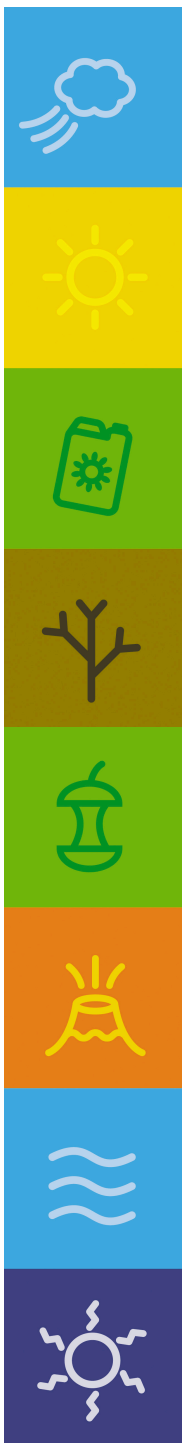
0.1 %



Details of the comparison

Primary energy production from biogas, 2013





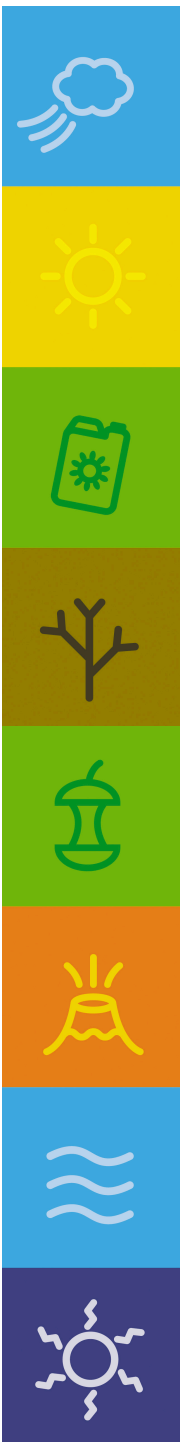
Comparison EurObserv'ER indicators/Eurostat statistics



Biofuels used for road consumption in 2013 (in ktoe)

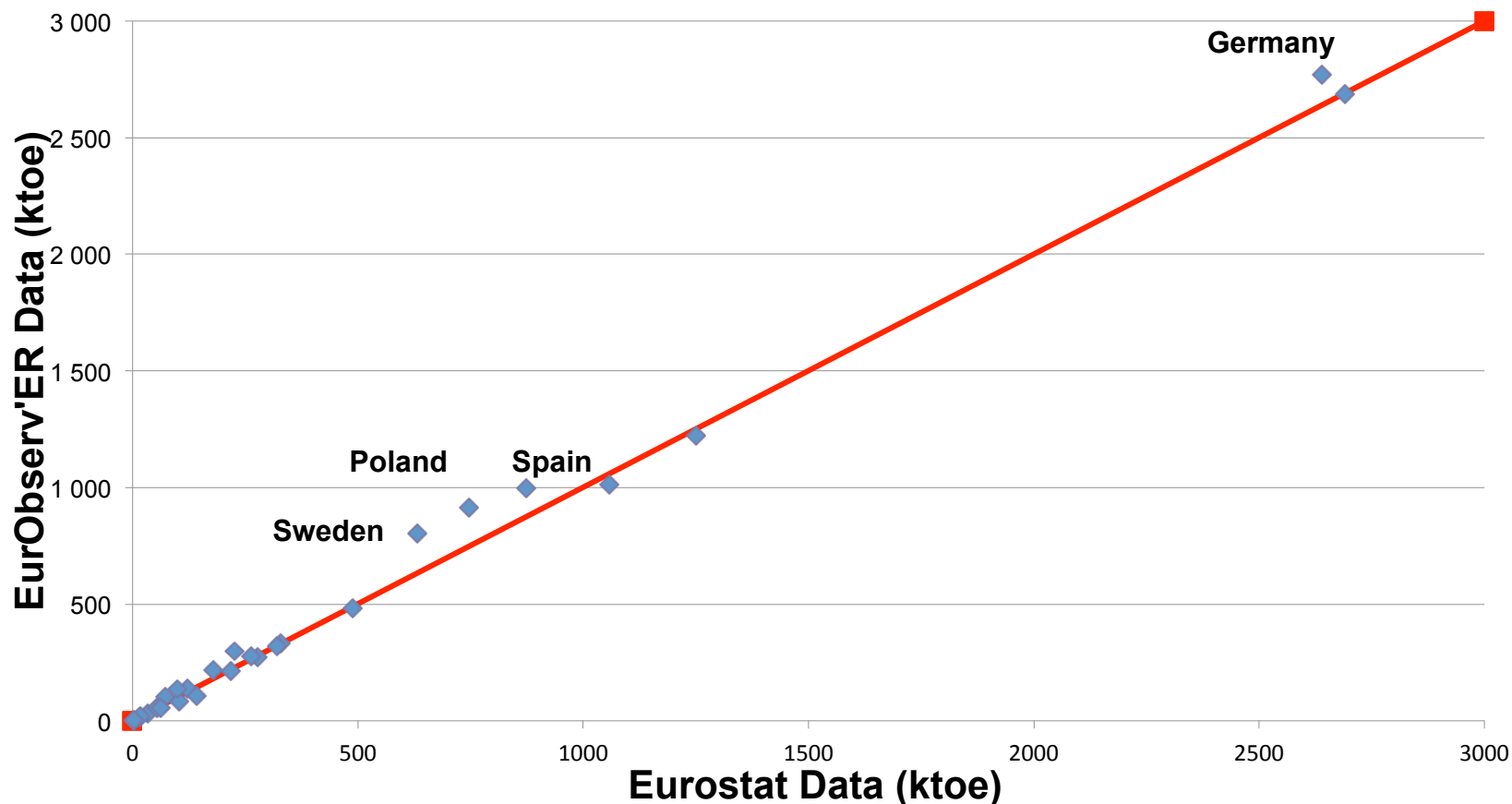
	Eurostat Cons. for transport	EurObserv'ER Figures published in July 2013
EU 28	12 973	13 629
EU 25	12 658	13 293
EU 15	11 235	11 709
EU 10	1 424	1 584

5 %



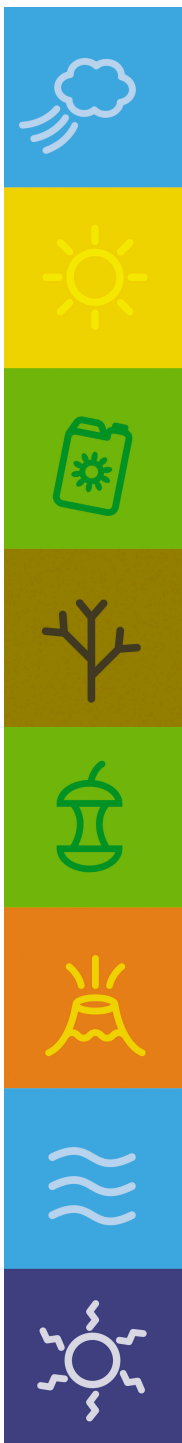
Details of the comparison

Biofuels consumption



For 4 countries, EurObserv'ER figures are over Eurostat's : Sweden, Poland, Spain and Germany

Eurobserv'ER data was collected in July 2014 and there was a consolidation of consumption figures by national official sources (SEA (Sweden), IEO (Poland), IDAE (Spain), & AGEEstat (Germany)) at the end of the year.



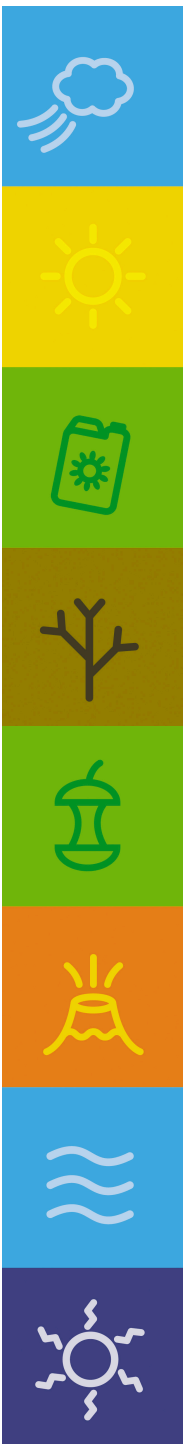
Comparison EurObserv'ER indicators/Eurostat statistics



Electricity generation from PV in 2013 (GWh)

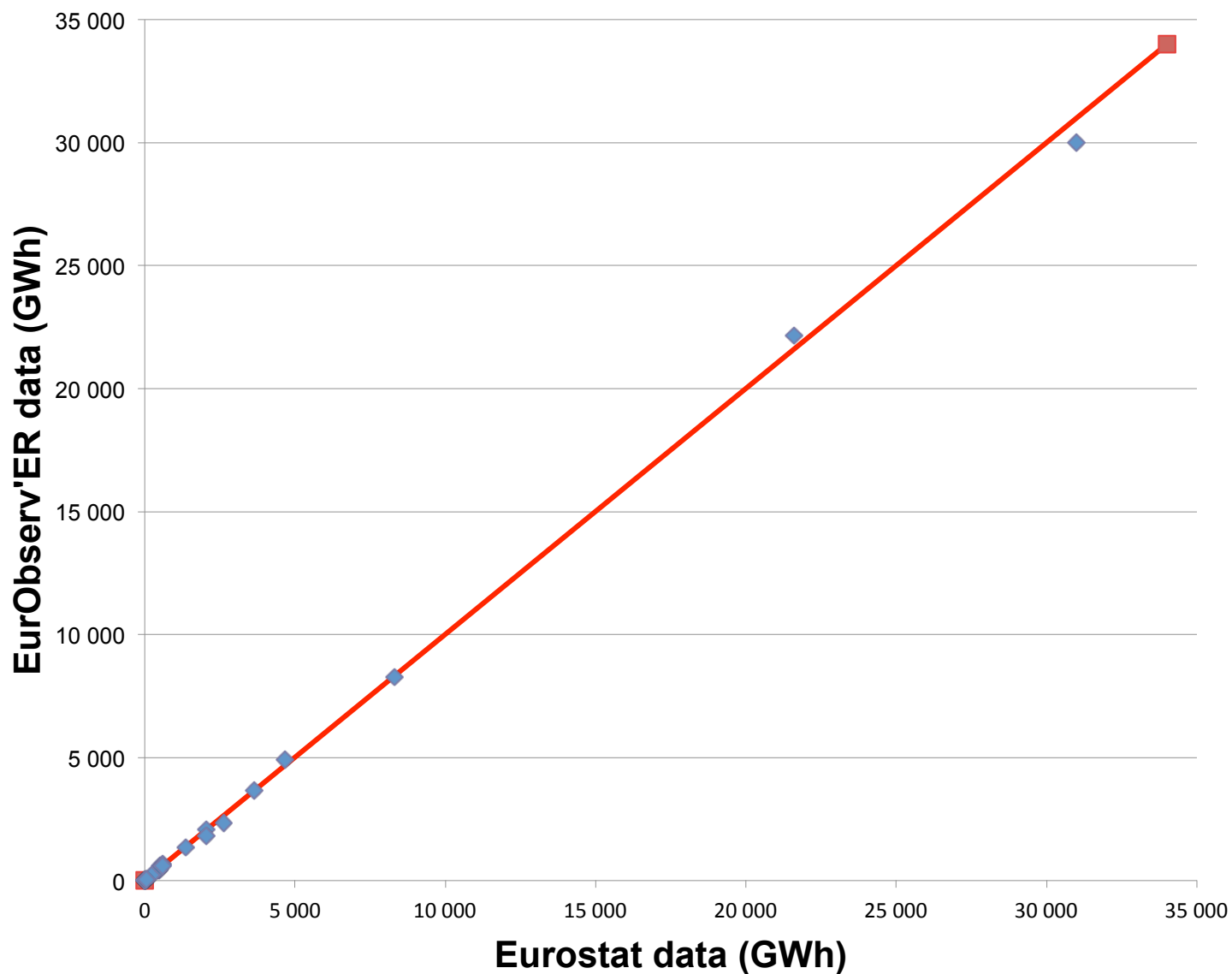
	Eurostat	EurObserv'ER
EU 28	80 866	80 237
EU 25	79 079	78 478
EU 15	76 089	75 434
EU 10	2 985	3 044

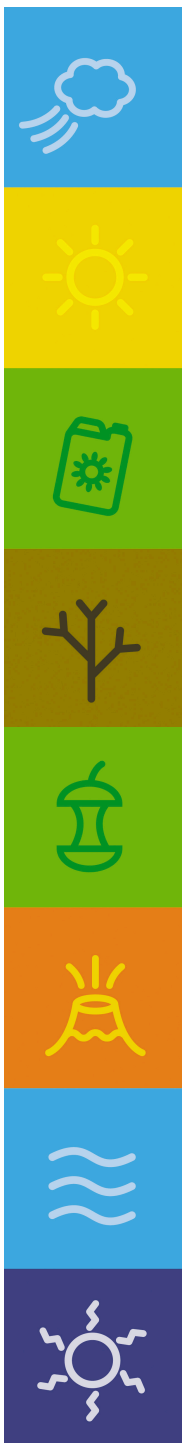
0,78%



Details of the comparison

Electricity generation from PV





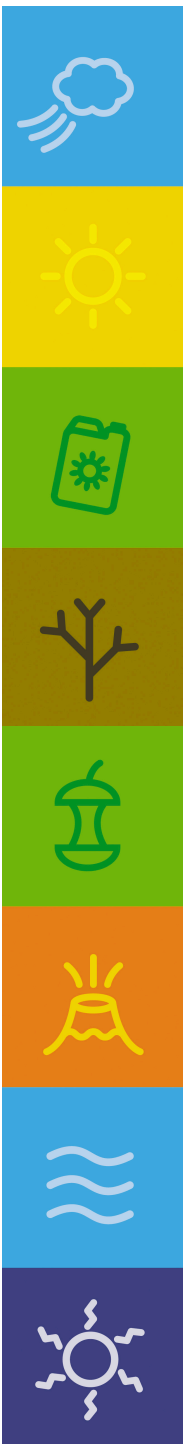
Comparison EurObserv'ER indicators/Eurostat statistics



Electricity generation from windpower in 2013 (GWh)

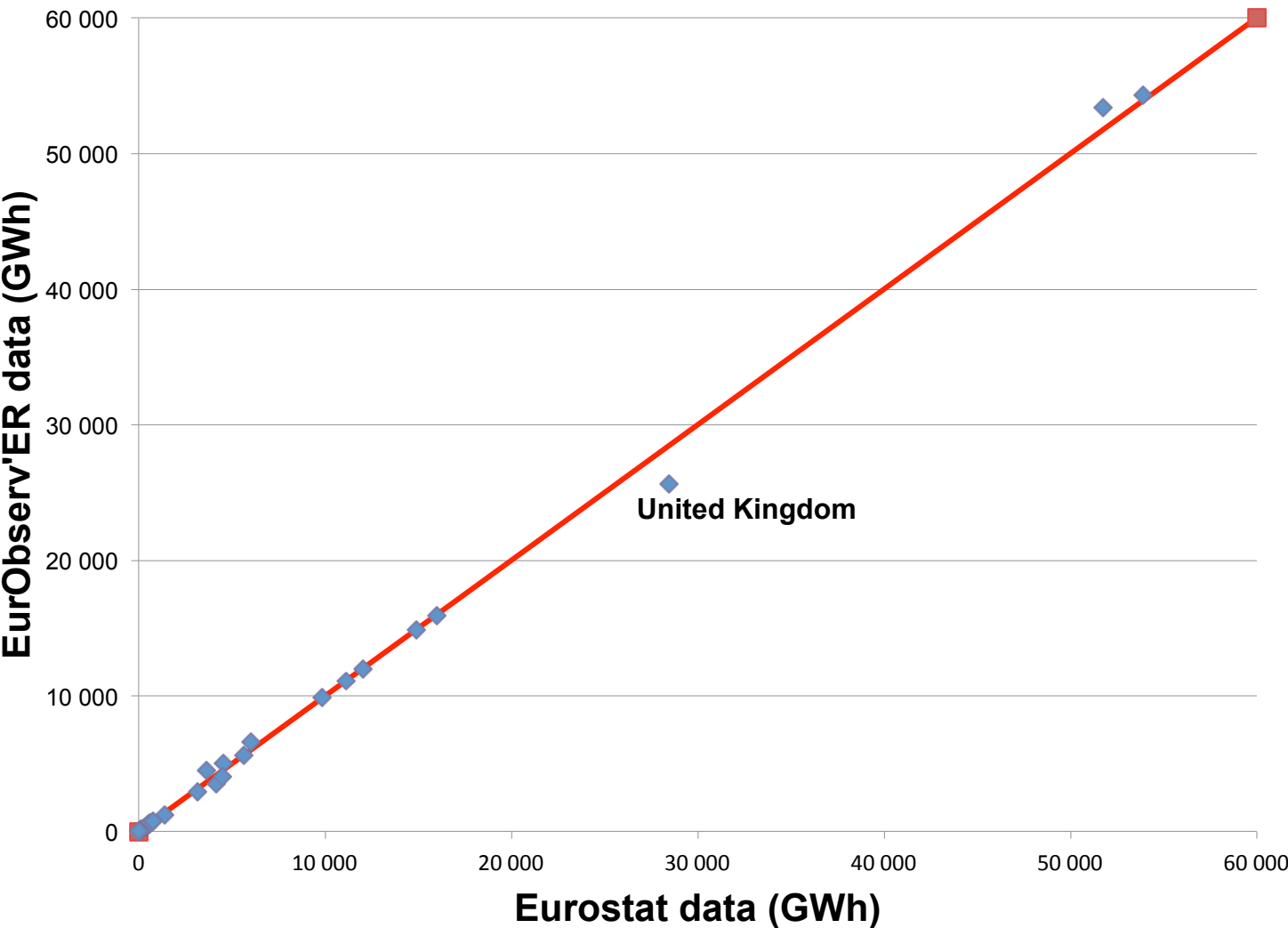
	Eurostat	EurObserv'ER
EU 28	235 012	234 390
EU 25	228 601	228 610
EU 15	219 905	219 343
EU 10	8 696	9 267

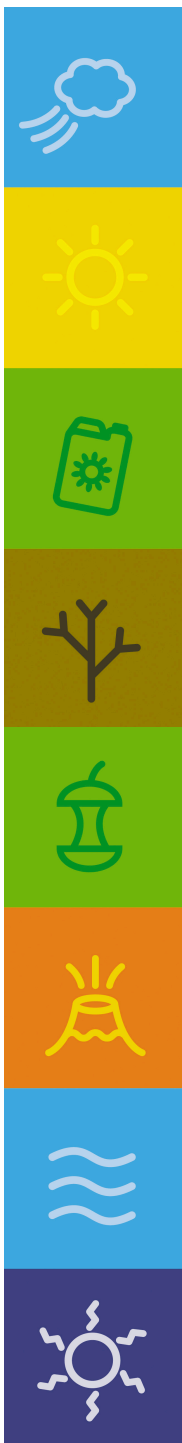
0,3%



Details of the comparison

Electricity generation from windpower, 2013





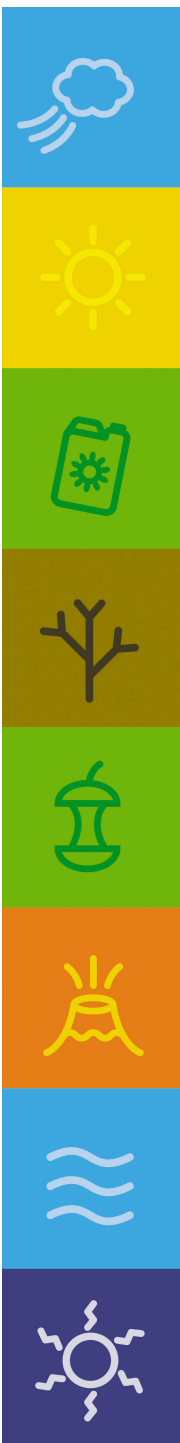
Comparison EurObserv'ER indicators/Eurostat statistics



RES-E in gross electricity consumption in 2013 (in %)

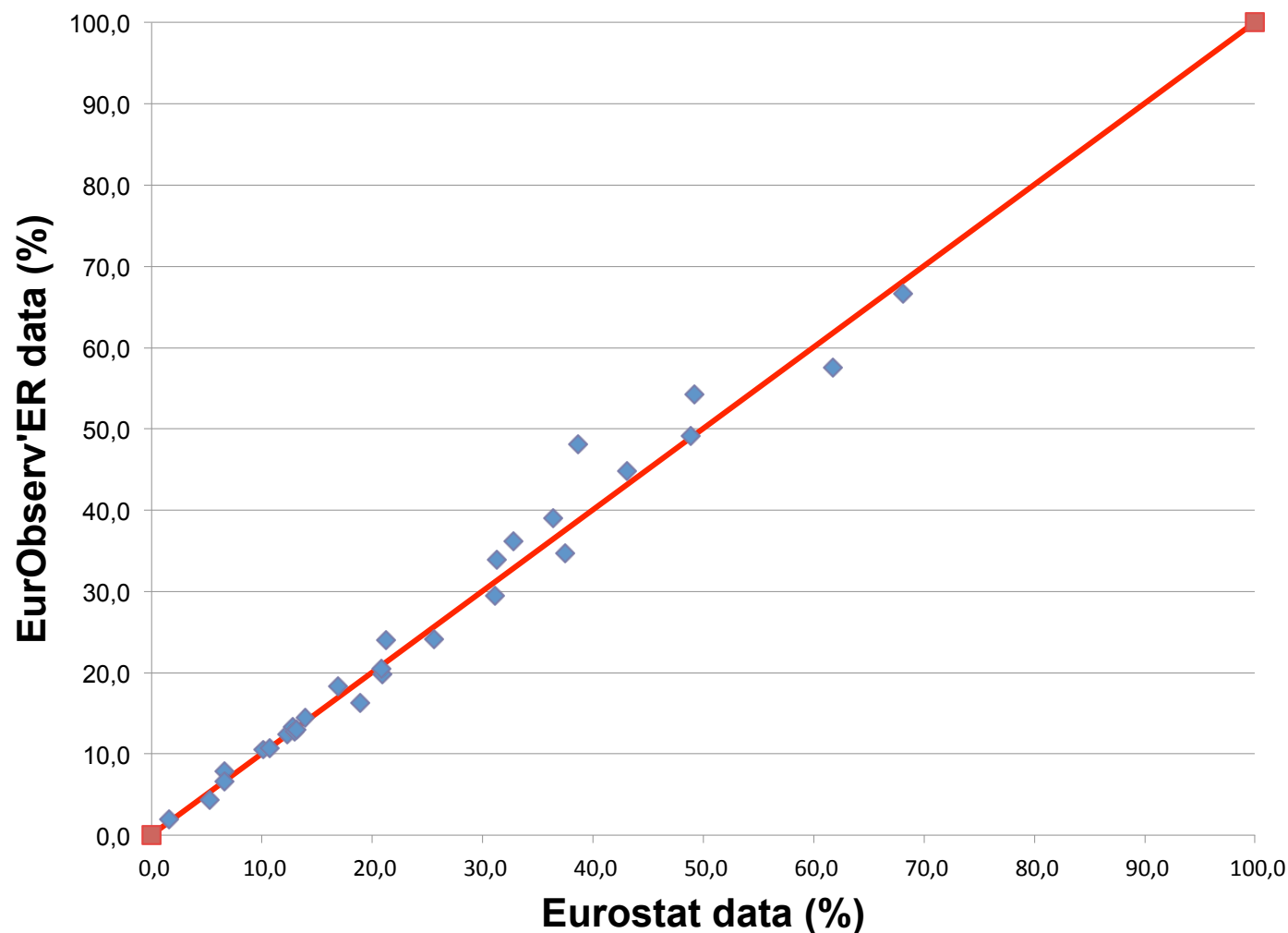
	Eurostat Figures for EU 28	EurObserv'ER Figures released in December 2013
EU 28	25,4 %	25,8 %

2%

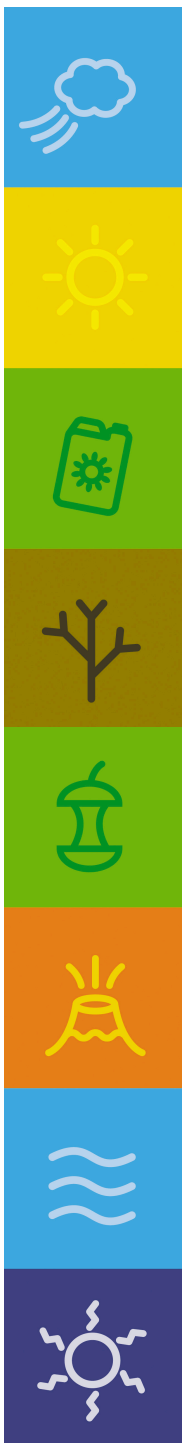


Details of the comparison

RES-E in gross electricity consumption in 2013



EurObserv'ER estimations are more scattered because of the estimation of electricity consumption, which is not among EurObserv'ER's focus.

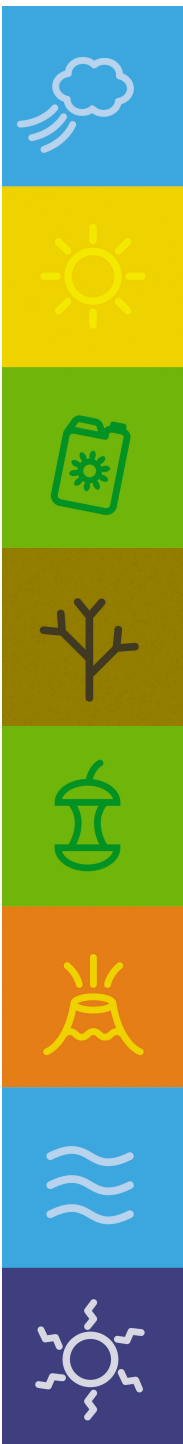


Comparison EurObserv'ER indicators/Eurostat statistics



RES in gross final energy consumption in 2013 (in %)

	Eurostat Figures for EU 28	EurObserv'ER Figures released in December 2013
EU 28	14,95 %	15,00 %



Details of the comparison

Share of RES in gross final energy consumption in 2013

