

The EurObserv'ER barometer

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Data comparison between Eurostat and EurObserv'ER

March 2017



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 are covered :


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

This comparison was carried out in March 2017 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 2015) and the data for the same year published in 2016 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.



All the indicators monitored in this report are under the above mentioned threshold.

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 2015

	Eurostat	Eurobserv'ER
EU 28	47 948	49 046
EU 15	43 233	44 071
EU 13	4 715	4 973

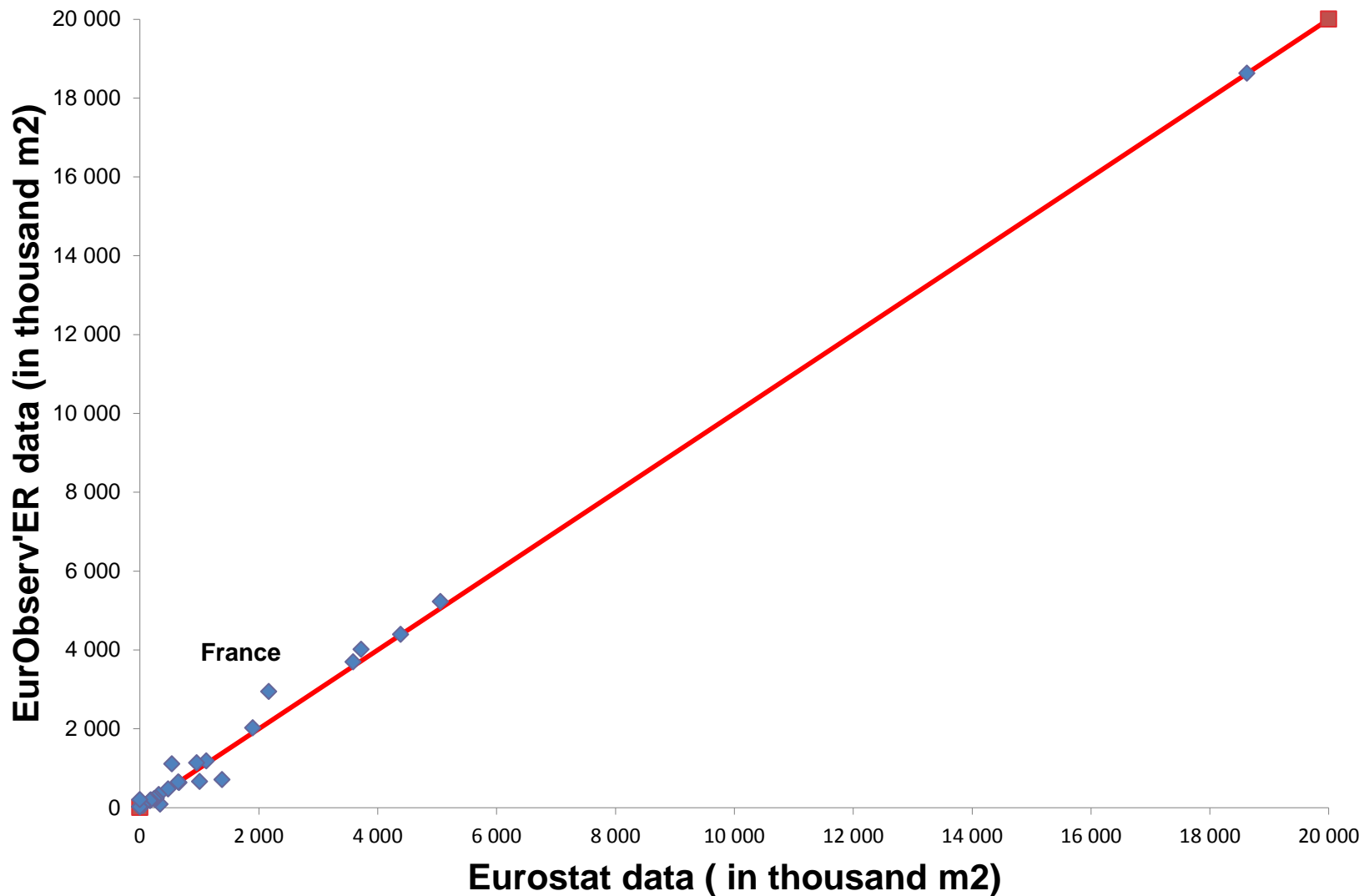
2,2%

- EU countries made many consolidations of solar thermal data during the year 2015



Details of the comparison

Solar thermal capacity installed, 2015



Comparison EurObserv'ER indicators/Eurostat statistics

Windpower capacity installed (in MW) in 2015

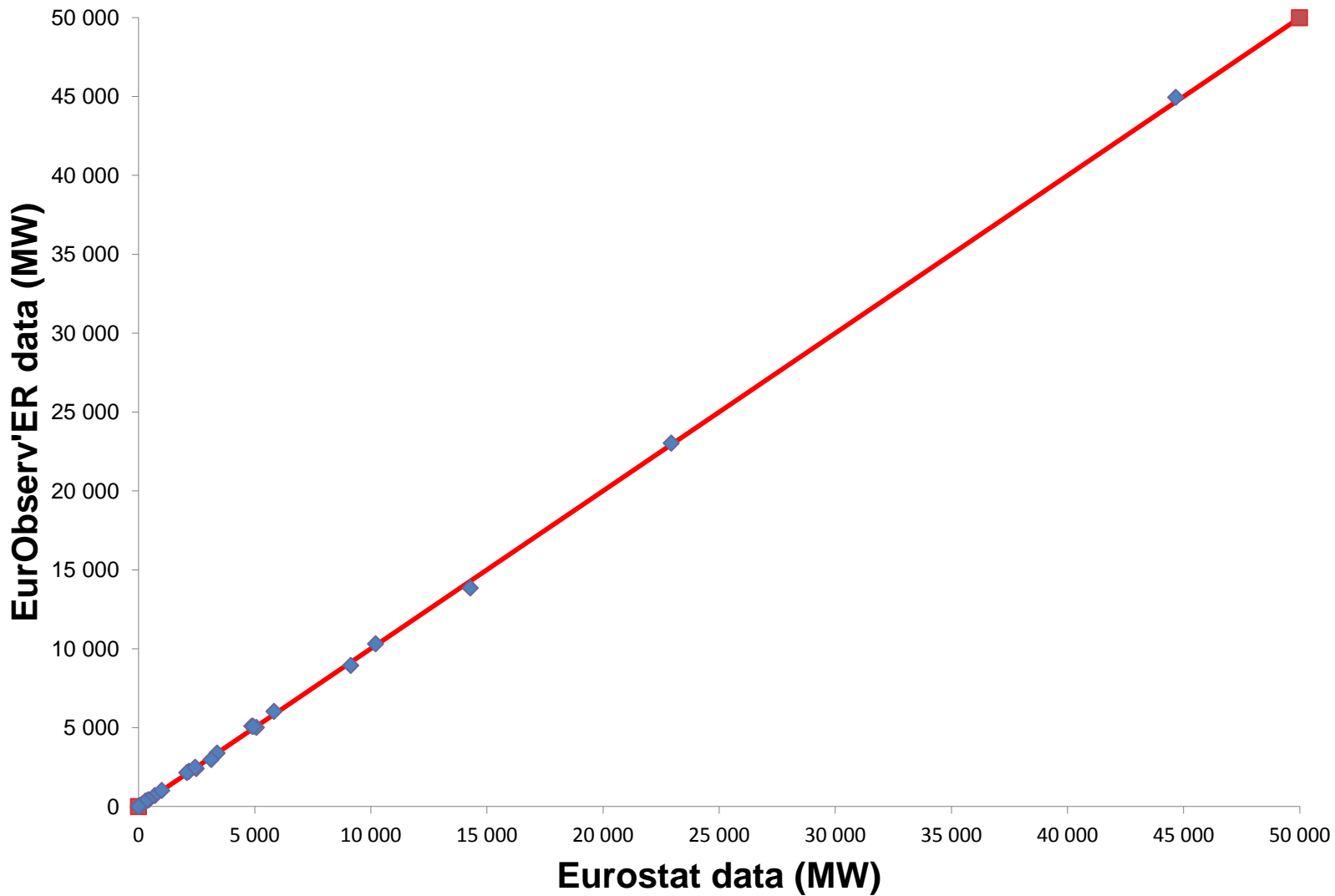
	Eurostat	Eurobserv'ER
EU 28	141 482	141 714
EU 15	130 766	130 923
EU 13	10 716	10 791

0,2%



Details of the comparison

Windpower capacity installed, 2015



Comparison EurObserv'ER indicators/Eurostat statistics

PV capacity installed (in MW) in 2015

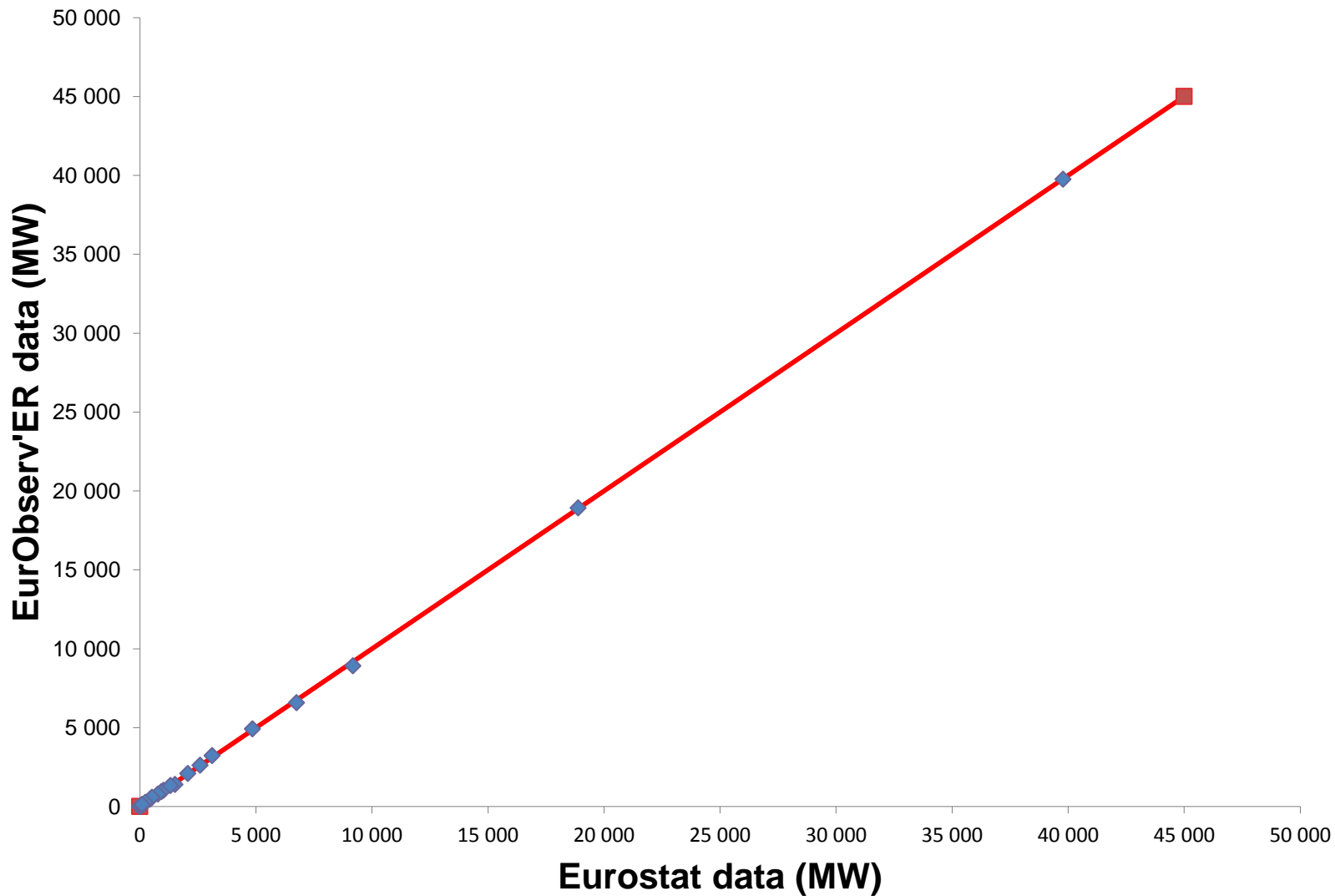
	Eurostat	Eurobserv'ER
EU 28	94 864	94 568
EU 15	89 120	88 800
EU 13	5 744	5 768

0,3 %



Details of the comparison

PV capacity installed, 2015



Comparison EurObserv'ER indicators/Eurostat statistics

Small hydropower plants capacity installed (in MW) in 2015

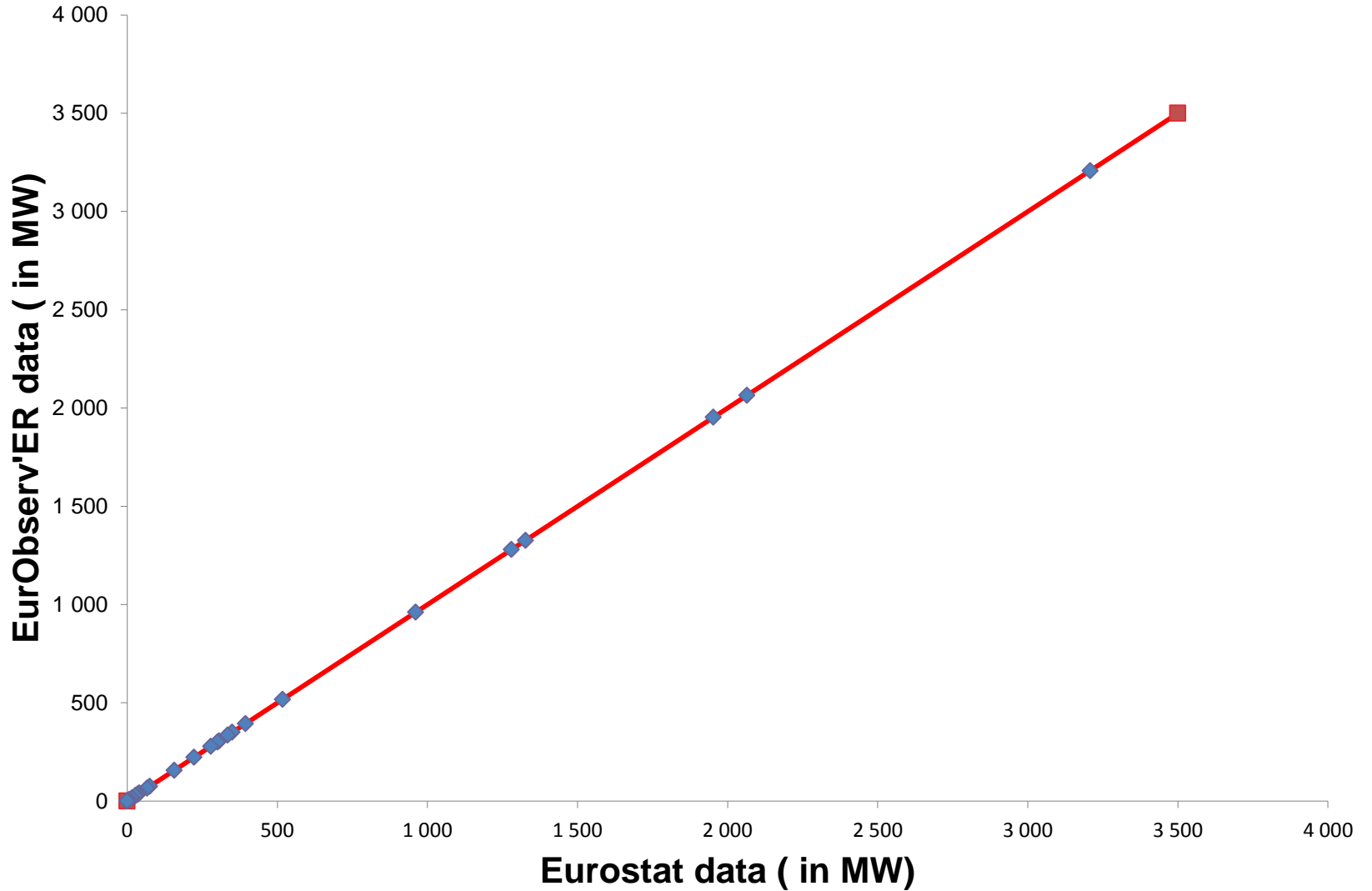
	Eurostat	Eurobserv'ER
EU 28	13 994	13 994
EU 15	12 215	12 215
EU 13	1 779	1 779

0 %



Details of the comparison

Small hydropower plants capacity installed



Comparison EurObserv'ER indicators/Eurostat statistics

Geothermal installed capacity for electricity generation (in MW) in 2015

	Eurostat	Eurobserv'ER
EU 28	822	837
EU 15	822	837
EU 13	0	0

1,8 %

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

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 2015 (ktoe)

	Eurostat	Eurobserv'ER
EU 28	90 422	89 509
EU 15	67 587	66 846
EU 13	22 835	22 663

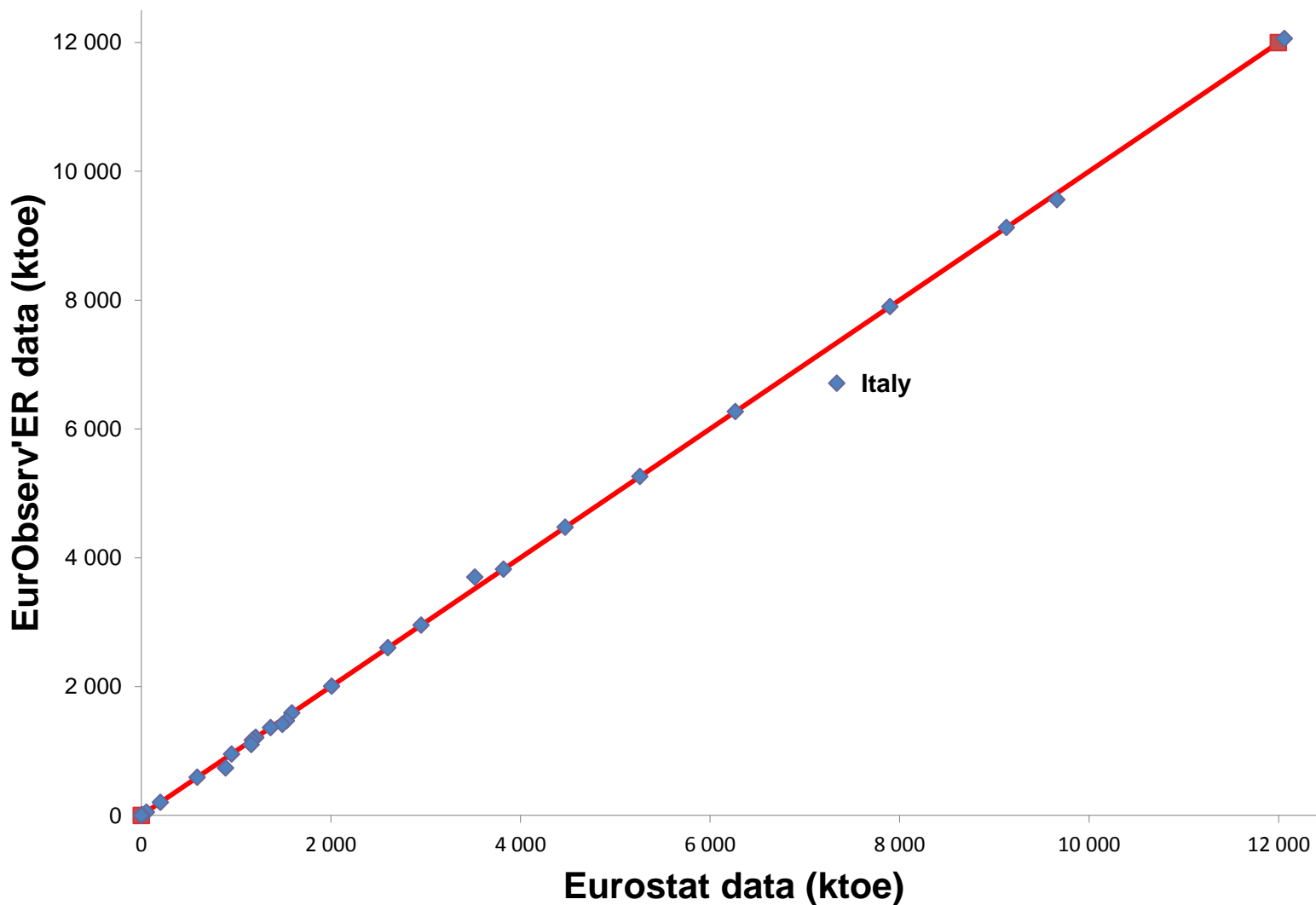
1,0 %

Main difference comes from Italy, EurObserv'ER use the IEA preliminary estimation because official statistics were not available in the beginning of december.



Details of the comparison

Primary energy production from solid biomass



Comparison EurObserv'ER indicators/Eurostat statistics

Primary energy production from waste in 2015 (ktoe)

	Eurostat	Eurobserv'ER
EU 28	9 485	9 485
EU 15	9 260	9 260
EU 13	226	226

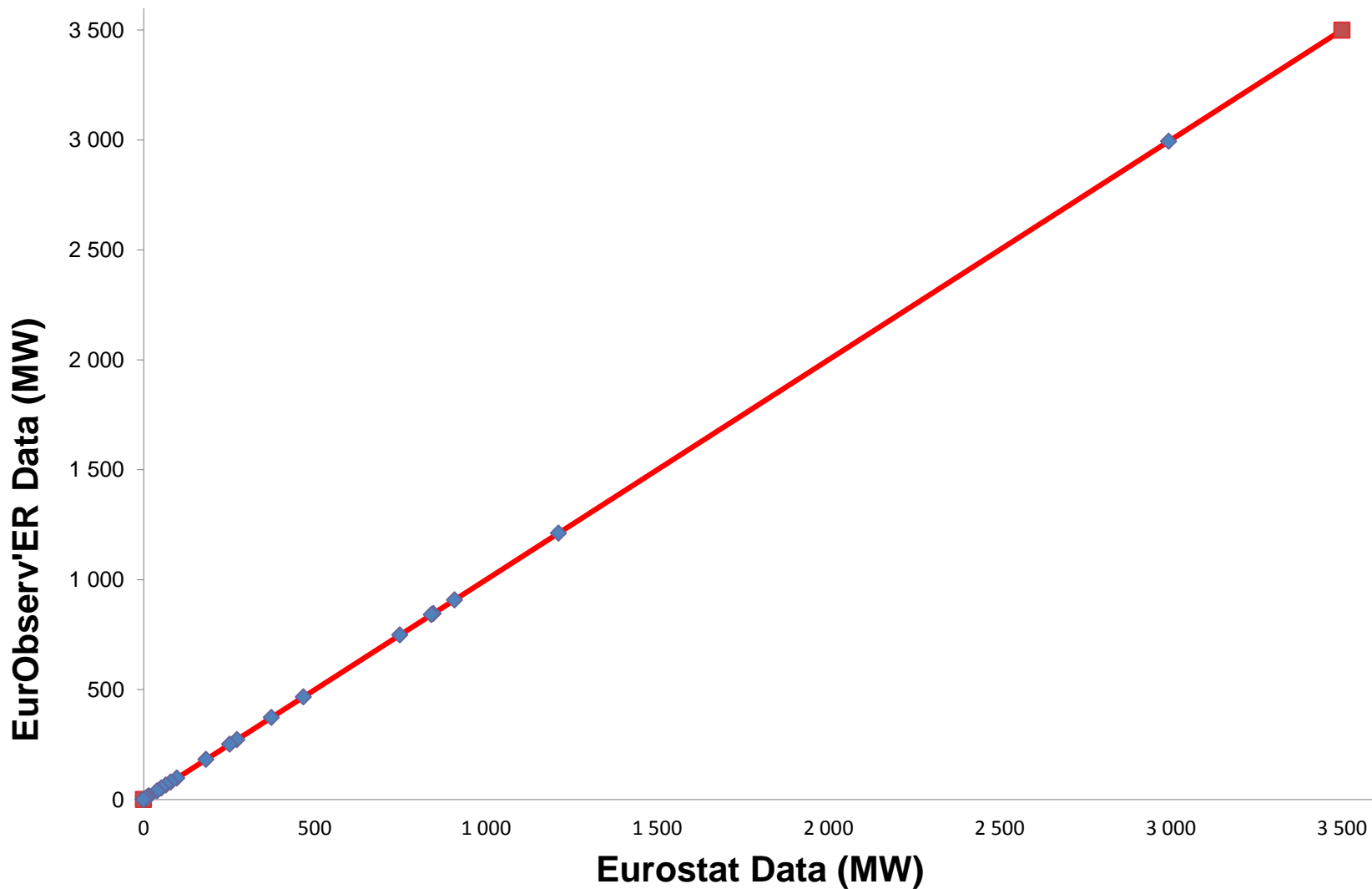
0,0 %





Details of the comparison

Primary energy production from renewable municipal waste, 2015



Comparison EurObserv'ER indicators/Eurostat statistics

Primary energy production from biogas in 2015 (ktoe)

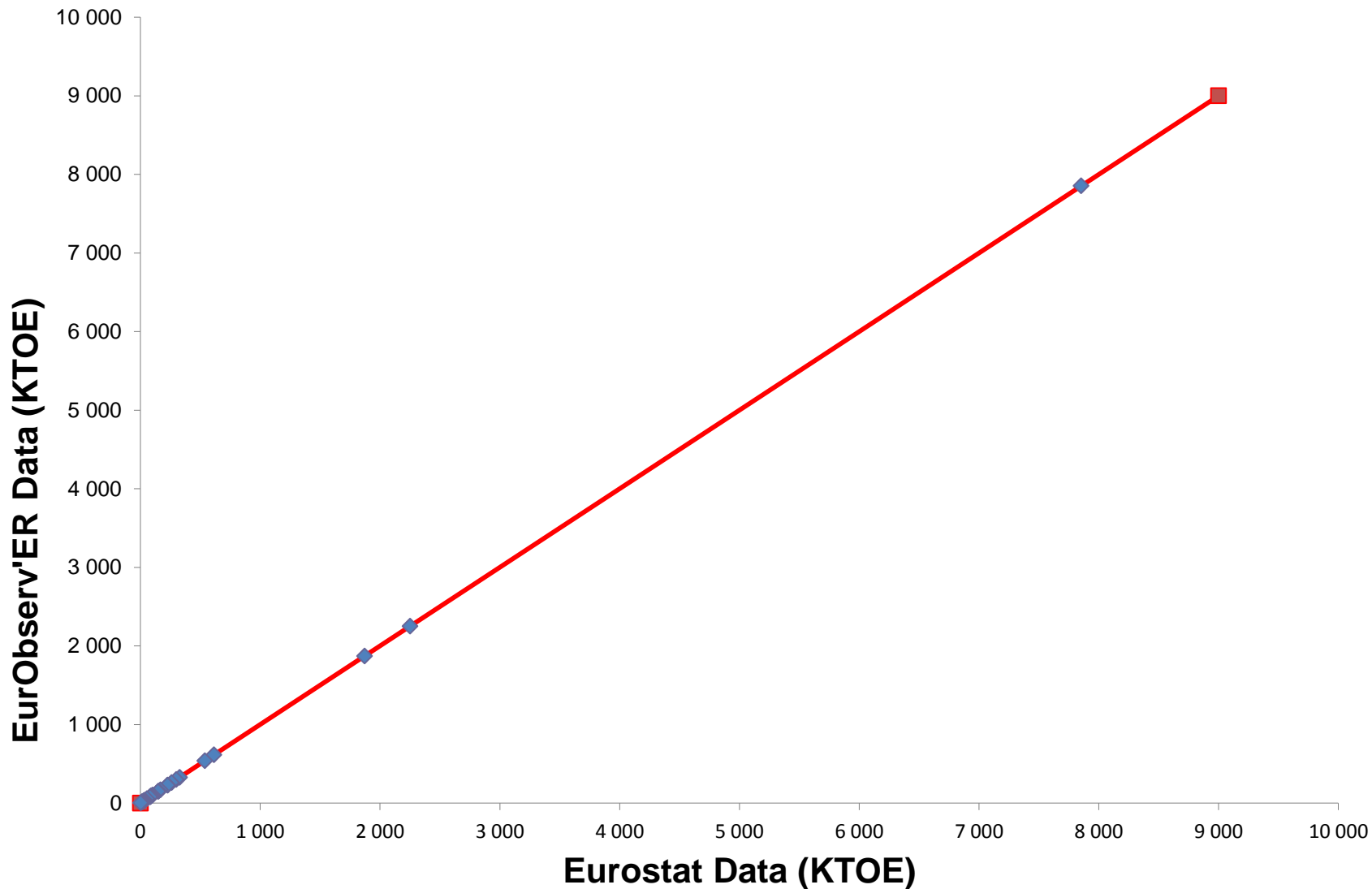
	Eurostat	Eurobserv'ER
EU 28	15 612	15 612
EU 15	14 301	14 301
EU 10	1 311	1 311

0,0 %



Details of the comparison

Primary energy production from biogas, 2015



Comparison EurObserv'ER indicators/Eurostat statistics

Biofuels used for road consumption in 2015 (in ktoe)

	Eurostat	Eurobserv'ER
EU 28	14 007	14 046
EU 15	12 091	12 151
EU 13	1 915	1 895

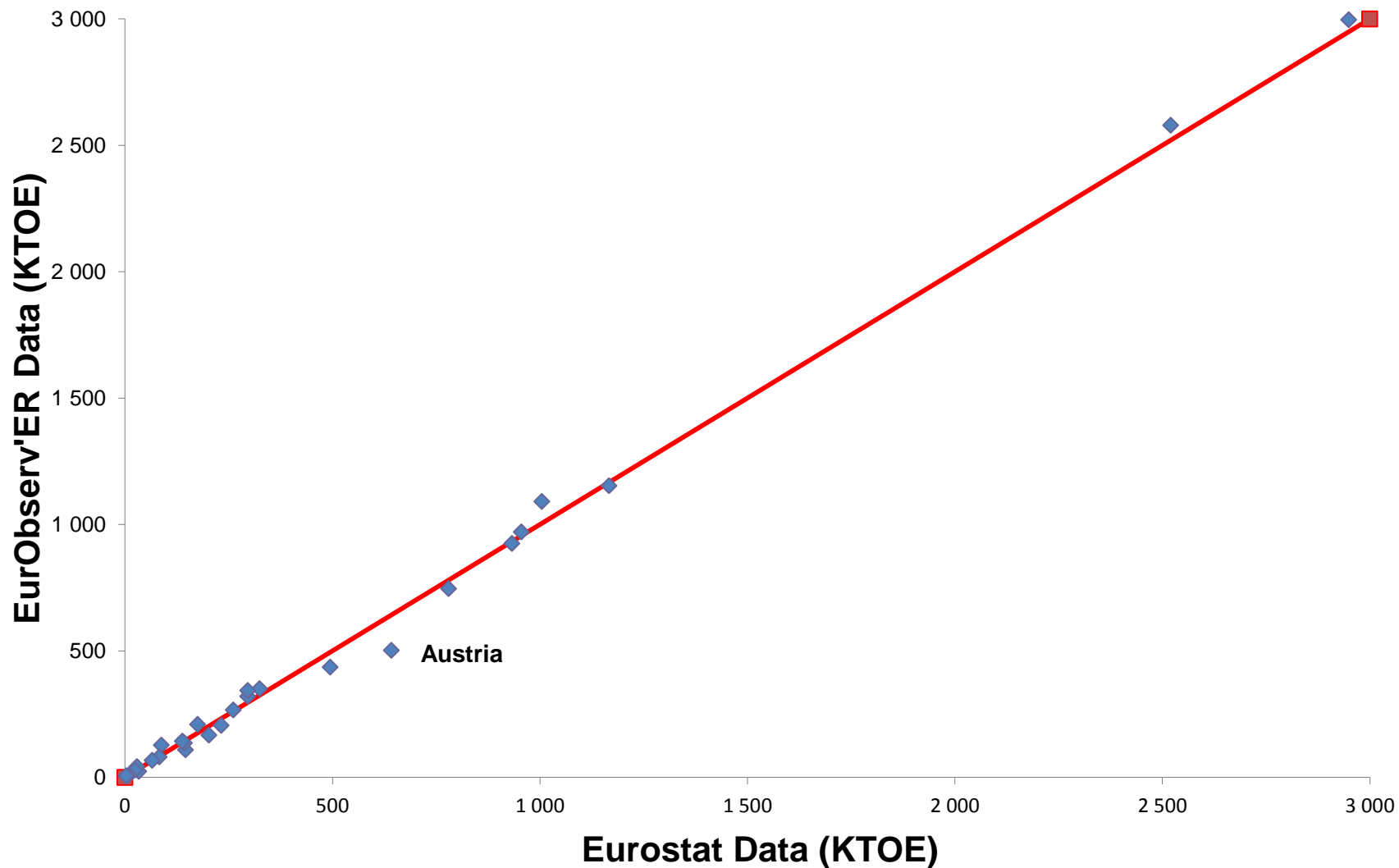
0,3 %

The difference comes from a consolidation of Statistics Austria



Details of the comparison

Biofuels consumption, 2015



Comparison EurObserv'ER indicators/Eurostat statistics

Electricity generation from PV in 2015 (GWh)

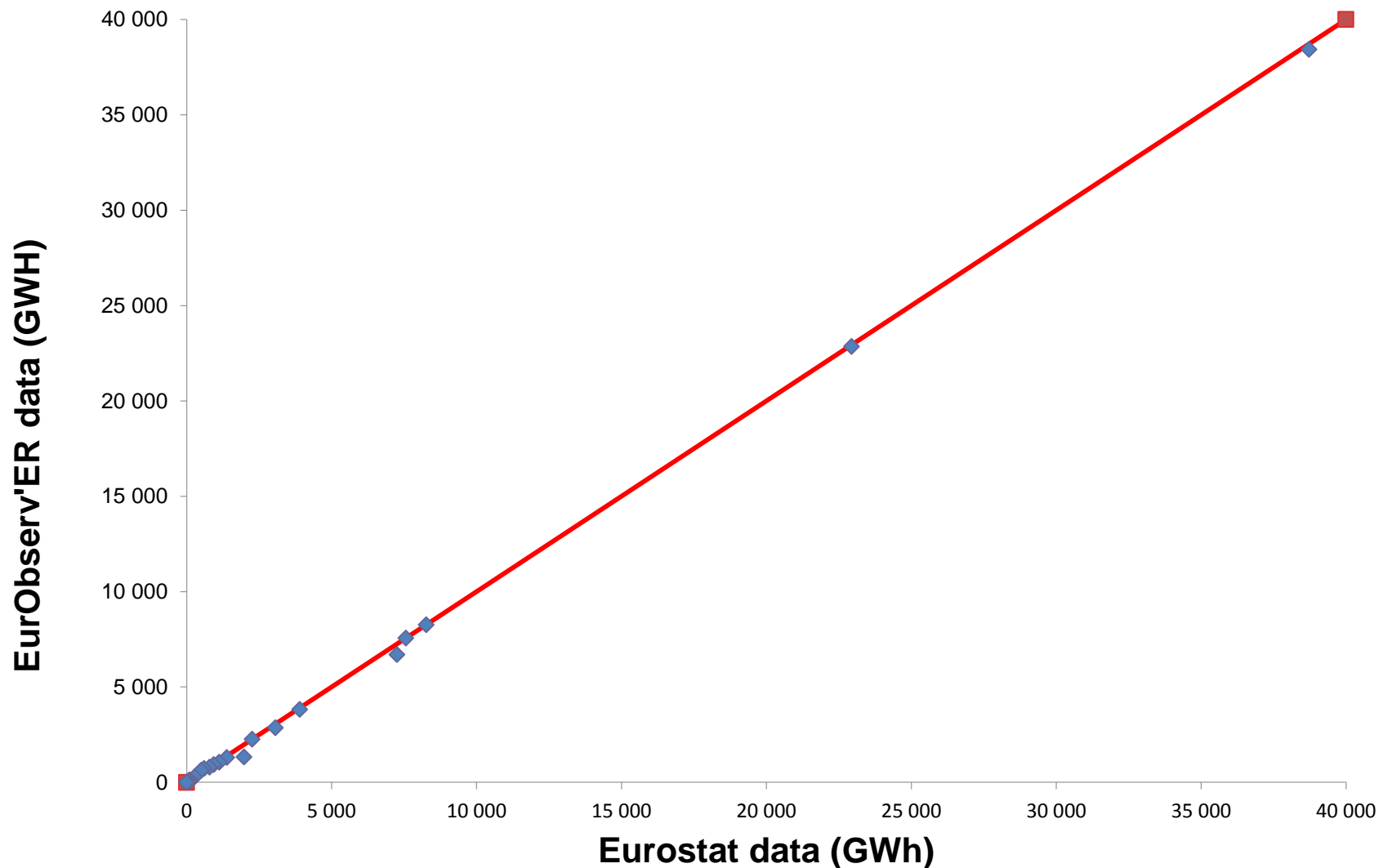
	Eurostat	Eurobserv'ER
EU 28	102 328	100 495
EU 15	95 390	94 218
EU 13	6 938	6 277

1,8 %



Details of the comparison

Electricity generation from PV



Comparison EurObserv'ER indicators/Eurostat statistics

Electricity generation from windpower in 2015 (GWh)

	Eurostat	Eurobserv'ER
EU 28	301 870	303 514
EU 15	278 530	282 761
EU 13	23 340	20 753

0,5 %

- The main difference comes from Germany: EurObserv'ER used preliminary figure from the German Ministry of Environment (AGEE Stat) and this figure was consolidated for Eurostat database



Details of the comparison

Electricity generation from windpower, 2015

