

The EurObserv'ER barometer

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ADEME



Data comparison between Eurostat and EurObserv'ER

January 2012



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 January 2012 and covers 2009 figures : the following slides compare the most updated figures provided by Eurostat on RES at that time (for year 2009) and the data for the same year published in the 2010 EurObserv'ER barometers (thematic and overview)

The Eurostat statistics used in the following tables correspond to the aggregation of countries in the EU 27, EU 25, EU 15 and EU 10.

EU 10 corresponds to the 10 new member countries introduced in 2005 (Czech Republic, Estonia, Cyprus, Latvia, Lithuania, Hungary, Malta, Poland, Slovenia and Slovakia)



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



Remarks about the 2012 comparison

In January 2012 data about solar thermal capacity installed in European Union were not available on the Eurostat online database. In the past years this indicator was available and included into the comparison with EurObserv'ER figures.

In 2010, EurObserv'ER program published for the first time its own evaluation for the RES share in the gross final energy consumption for 2009 situation. These indicators are added to our annual comparison

Capacity installed

- Windpower
- PV
- Small hydropower plants
- Geothermal electricity generation

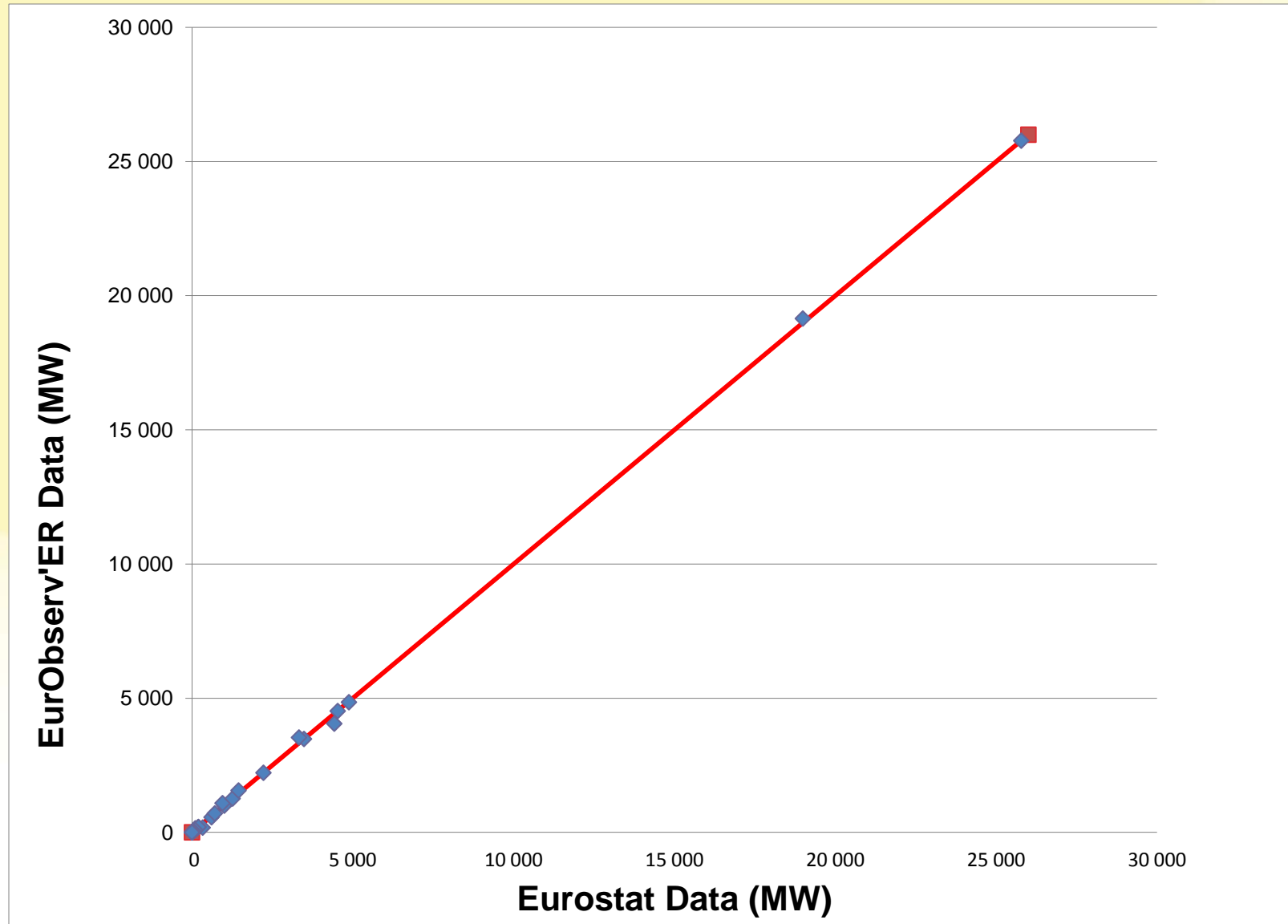
Windpower capacity installed (in MW) in 2009

	Eurostat	EurObserv'ER
EU 27	74 779	74 800
EU 25	74 431	74 609
EU 15	73 092	73 238
EU 10	1 339	1 370

0,03 %

Details of the comparison

Windpower capacity installed

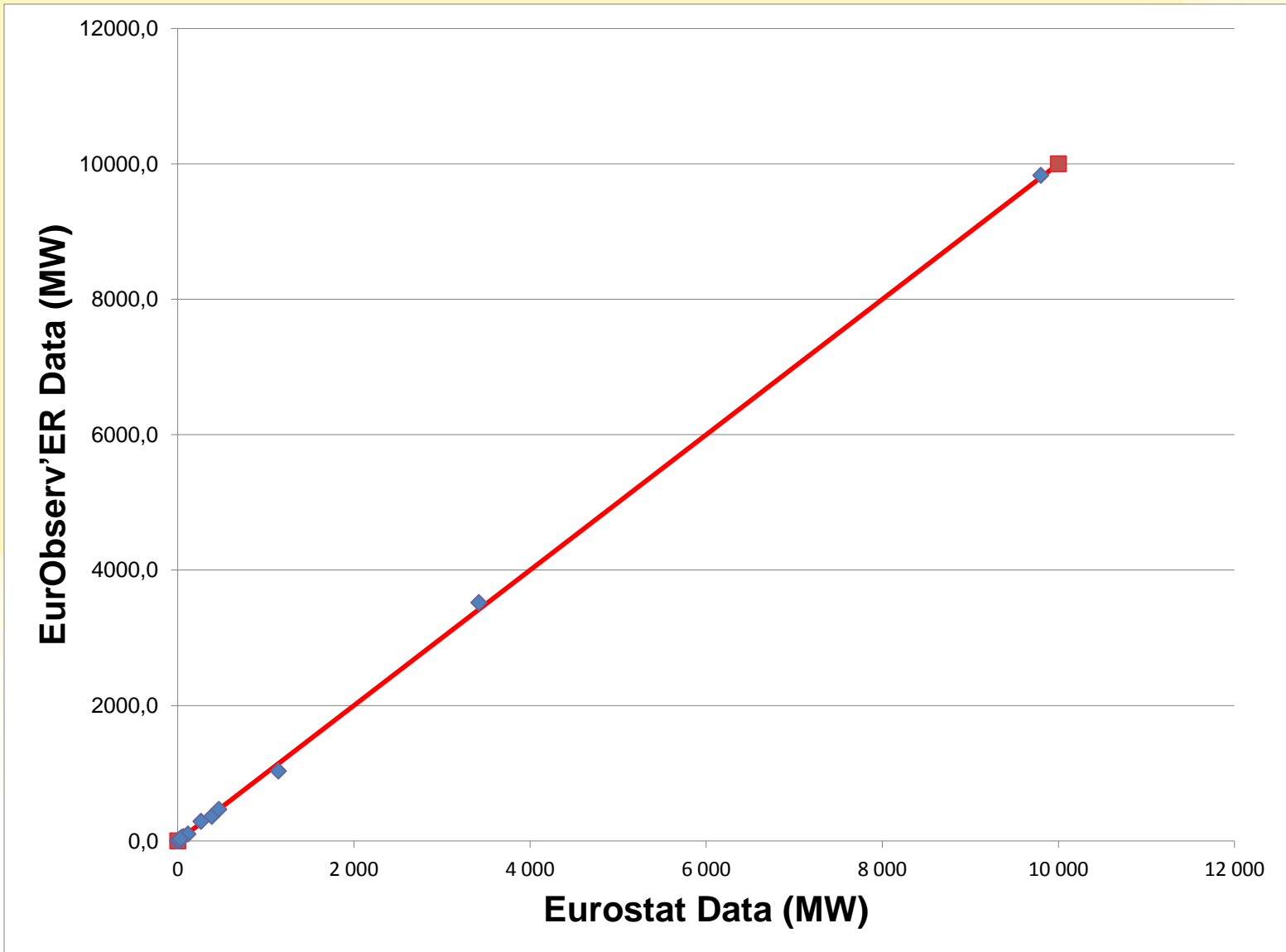


PV capacity installed (in MW) in 2009

	Eurostat	EurObserv'ER
EU 27	15 836	15 861
EU 25	15 833	15 854
EU 15	15 359	15 373
EU 10	474	481

0,1 %

PV capacity installed

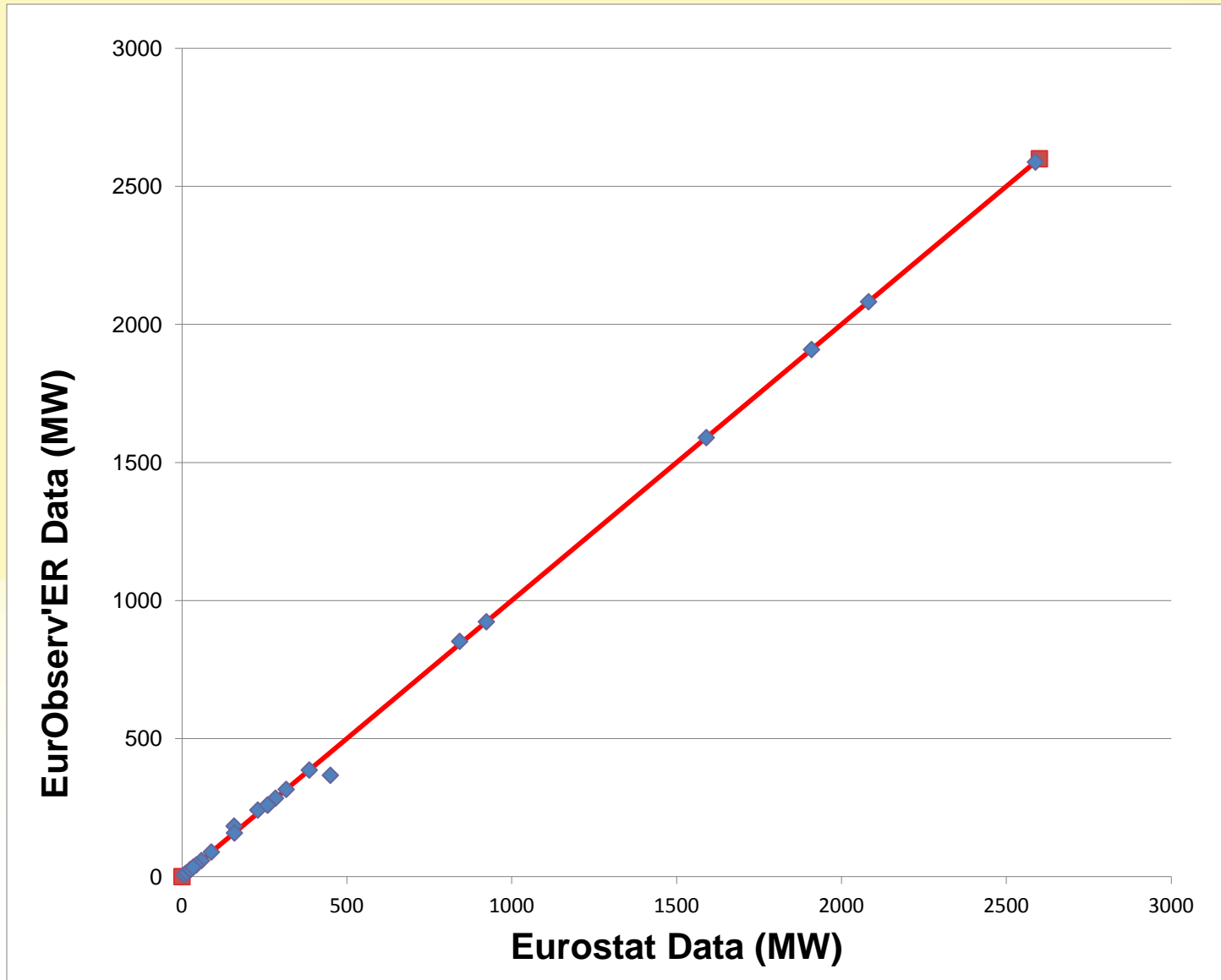


Small hydropower plants capacity installed (in MW) in 2009

	Eurostat	EurObserv'ER	
EU 27	12 702	12 742	0,3%
EU 25	12 094	12 062	
EU 15	11 198	11 231	
EU 10	864	863	

Details of the comparison

Small hydropower plants capacity installed



Geothermal installed capacity for electricity generation (in MW) in 2009

	Eurostat	EurObserv'ER
EU 27	731	744
EU 25	731	744
EU 15	731	744
EU 10	0	0

1,7 %

Data for France in overseas departments are not taken into account by Eurostat

Energy production

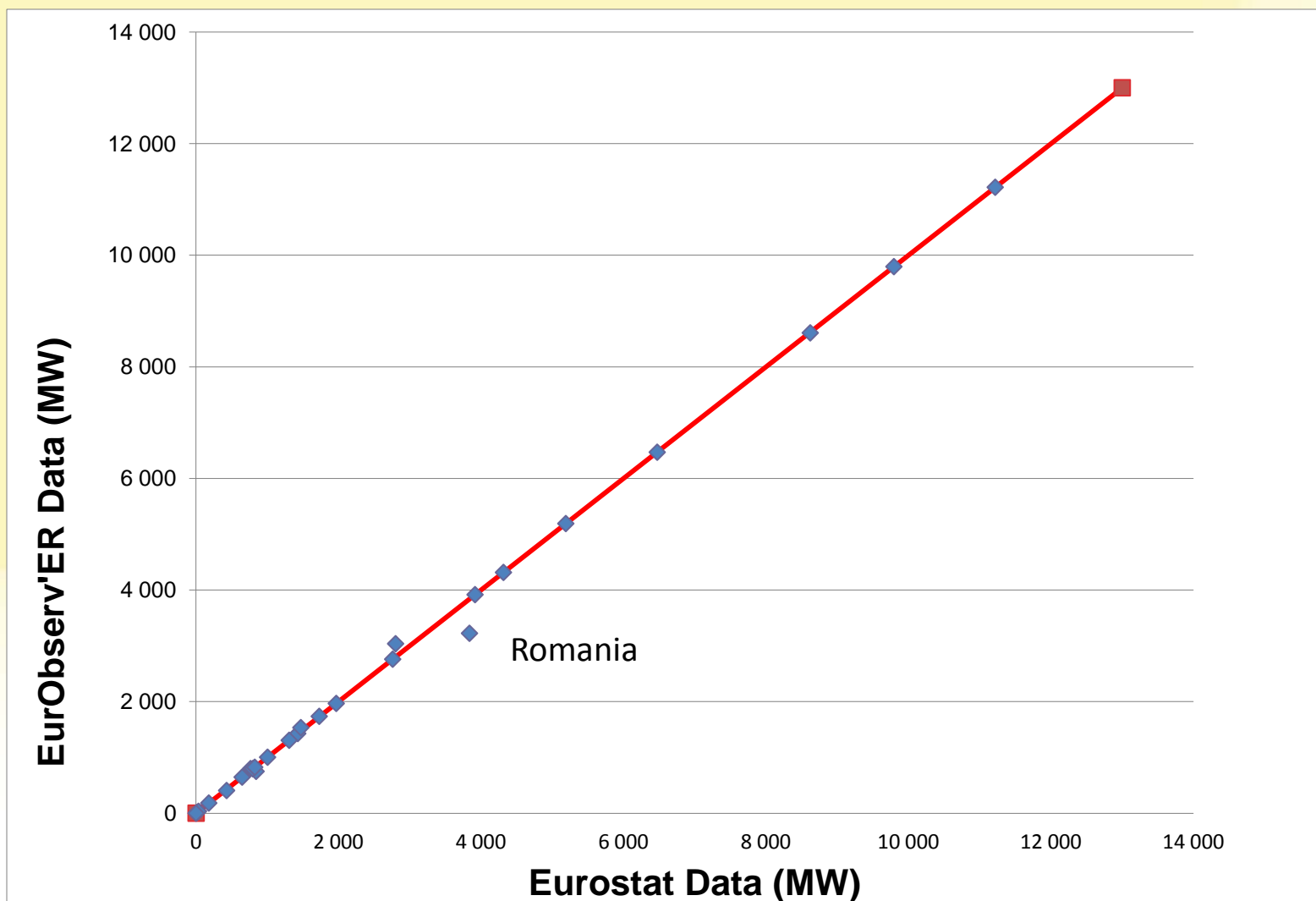
- **Primary energy from biomass**
 - From solid biomass
 - From renewable municipal wastes
 - From biogas
- **Biofuels production**
- **Primary energy from geothermal sector**
- **Electricity generation from windpower**
- **Electricity generation from hydropower**
- **Primary energy from RES**

Primary energy from solid biomass (ktoe) in 2009

	Eurostat	EurObserv'ER	
EU 27	73 164	72 767	0,5 %
EU 25	68 560	68 743	
EU 15	55 450	55 673	
EU 10	13 100	13 070	

Details of the comparison

Primary energy from solid biomass



- Figures collected for Romania was underestimated

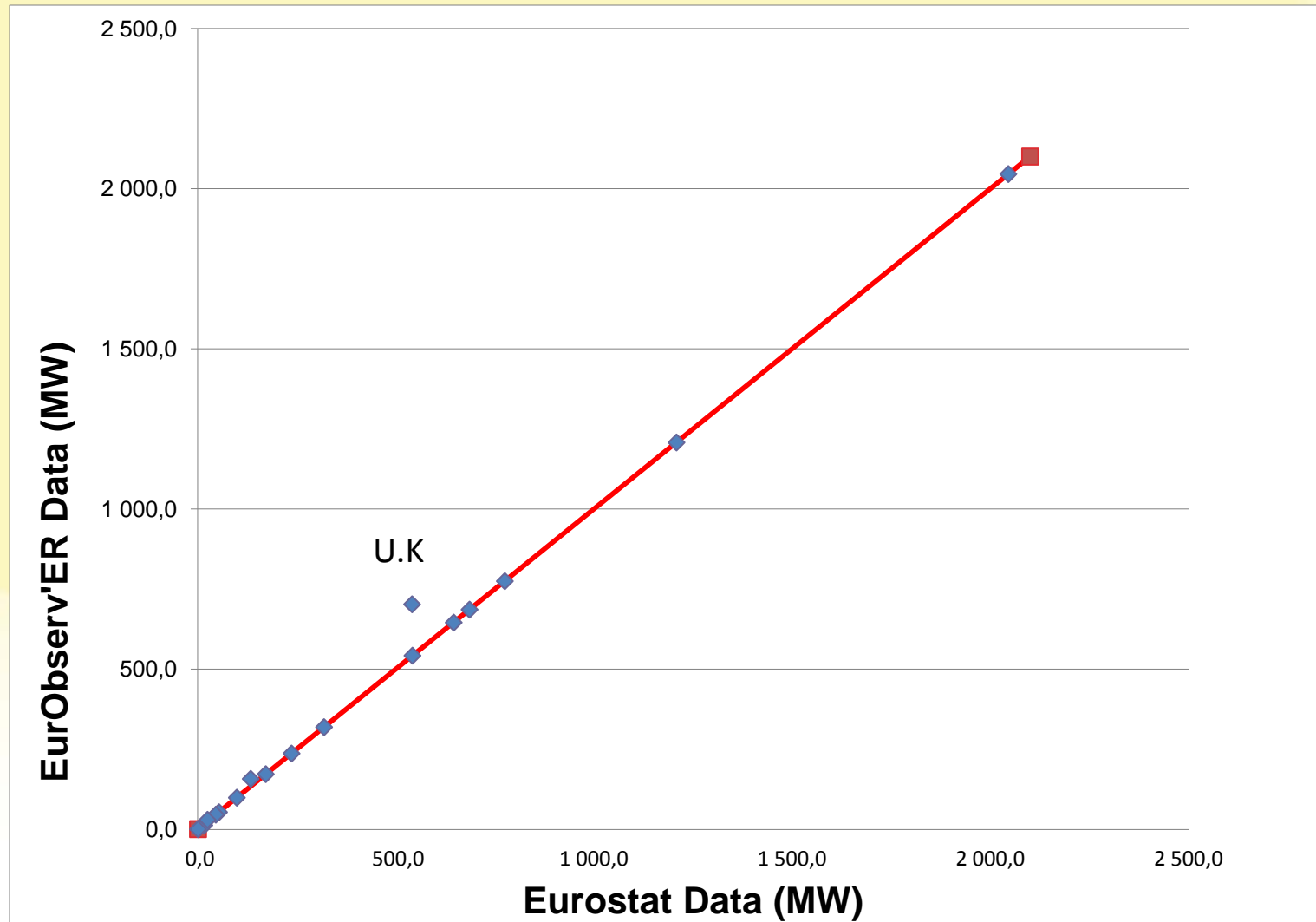
Primary energy from waste (ktoe) in 2009

	Eurostat (only renewable municipal waste)	EurObserv'ER (only renewable municipal waste)
EU 27	7 552	7 738
EU 25	7 552	7 738
EU 15	7 426	7 608
EU 10	126	130

2,5 %

Details of the comparison

Primary energy from renewable municipal wastes



- First set of data for UK sent by DECC was overestimated.

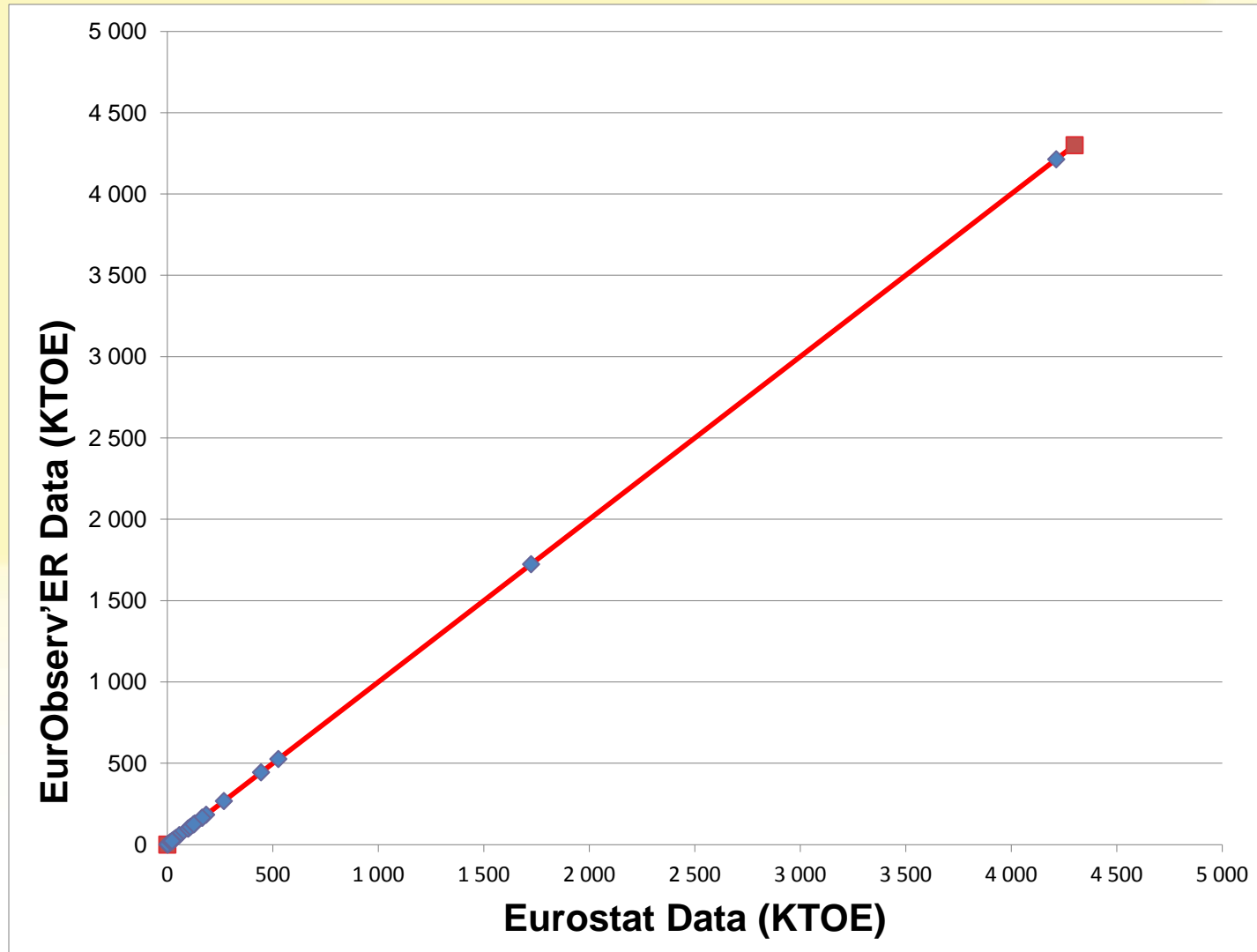
Primary energy from biogas (ktoe) in 2009

	Eurostat	EurObserv'ER
EU 27	8 344	8 346
EU 25	8 343	8 344
EU 15	8 028	8 029
EU 10	315	314

0,02 %

Details of the comparison

Primary energy from biogas



Biofuels consumption (in ktoe) in 2009

	Eurostat Cons. for transport	EurObserv'ER
EU 27	11 870	12 092
EU 25	11 703	11 940
EU 15	10 453	10 703
EU 10	1 250	1 237

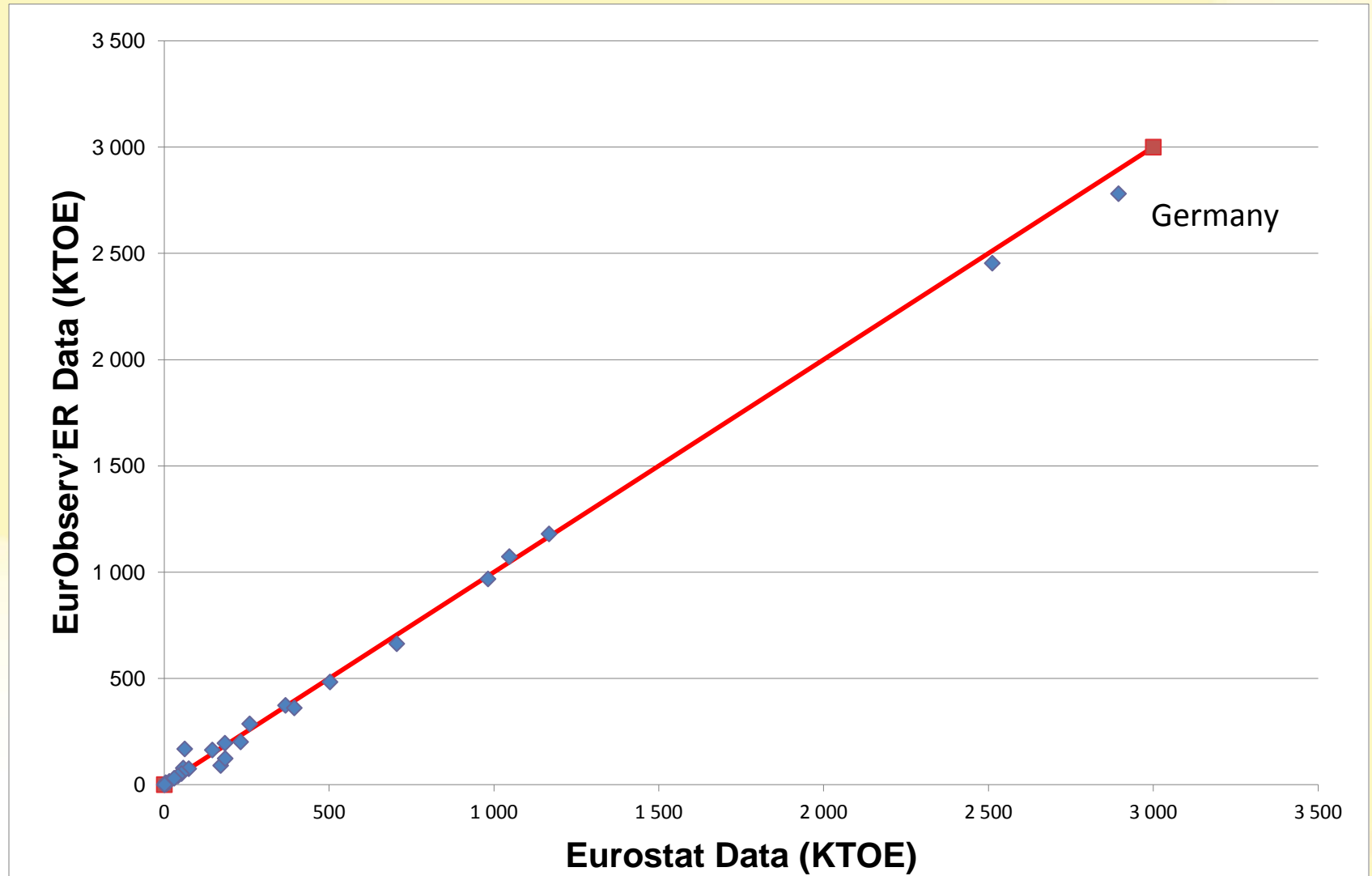
1,8 %

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



Electricity from geothermal sector (GWh) in 2009

	Eurostat	EurObserv'ER
EU 27	5 547	5 596
EU 25	5 547	5 596
EU 15	5 547	5 596
EU 10	0	0

0,9 %

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

Electricity generation from windpower (GWh) in 2009

	Eurostat	EurObserv'ER
EU 27	132 823	128 504
EU 25	132 577	128 127
EU 15	130 472	125 844
EU 10	2 105	2 283

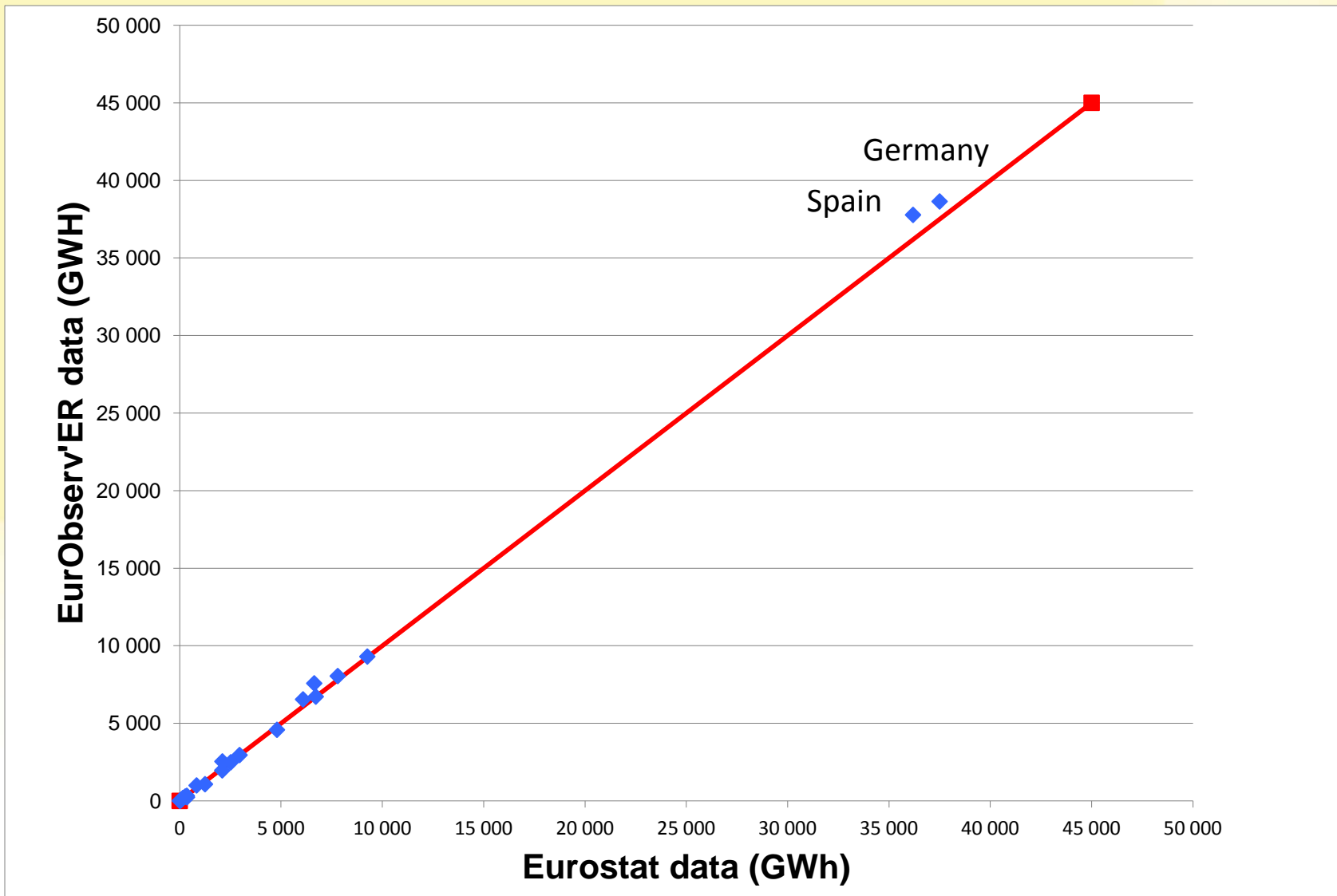
3,2 %

- Data for electricity production from windpower in Germany and Spain were not available when EurObserv'ER published its figures. EurObserv'ER data for those two countries were estimates.

Details of the comparison



Electricity generation from windpower

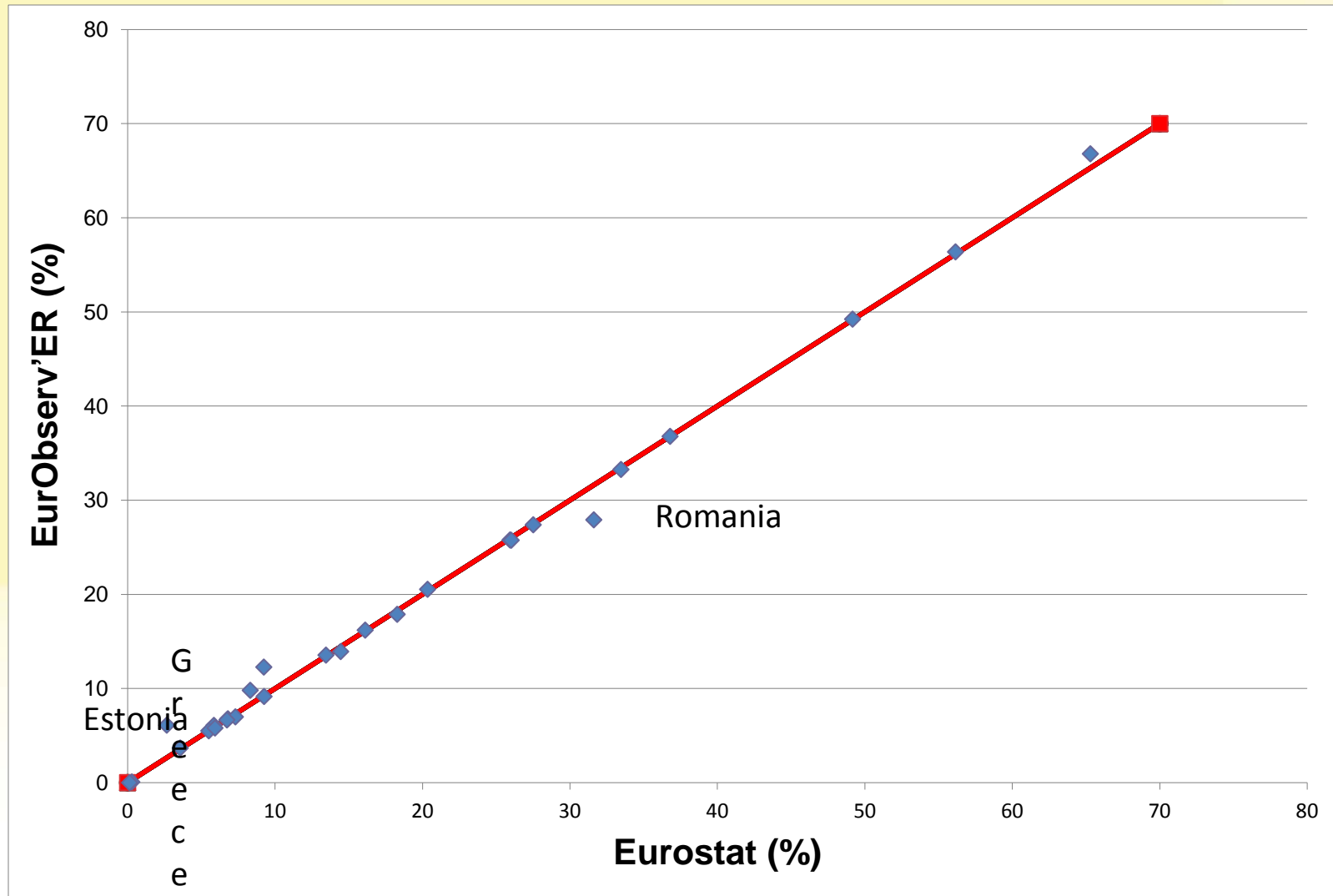


RES-E in gross electricity consumption (in %) in 2009

	Eurostat	EurObserv'ER
EU 27	18,2 %	18,2 %

Details of the comparison

RES-E in gross electricity consumption (in %) in 2009



- For Romania EurObserv'ER underestimated the total electricity production in 2009
- For Estonia and Greece EurObserv'ER overestimated the total electricity production in 2009

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

	Eurostat	EurObserv'ER
EU 27	9 %	9,4 %

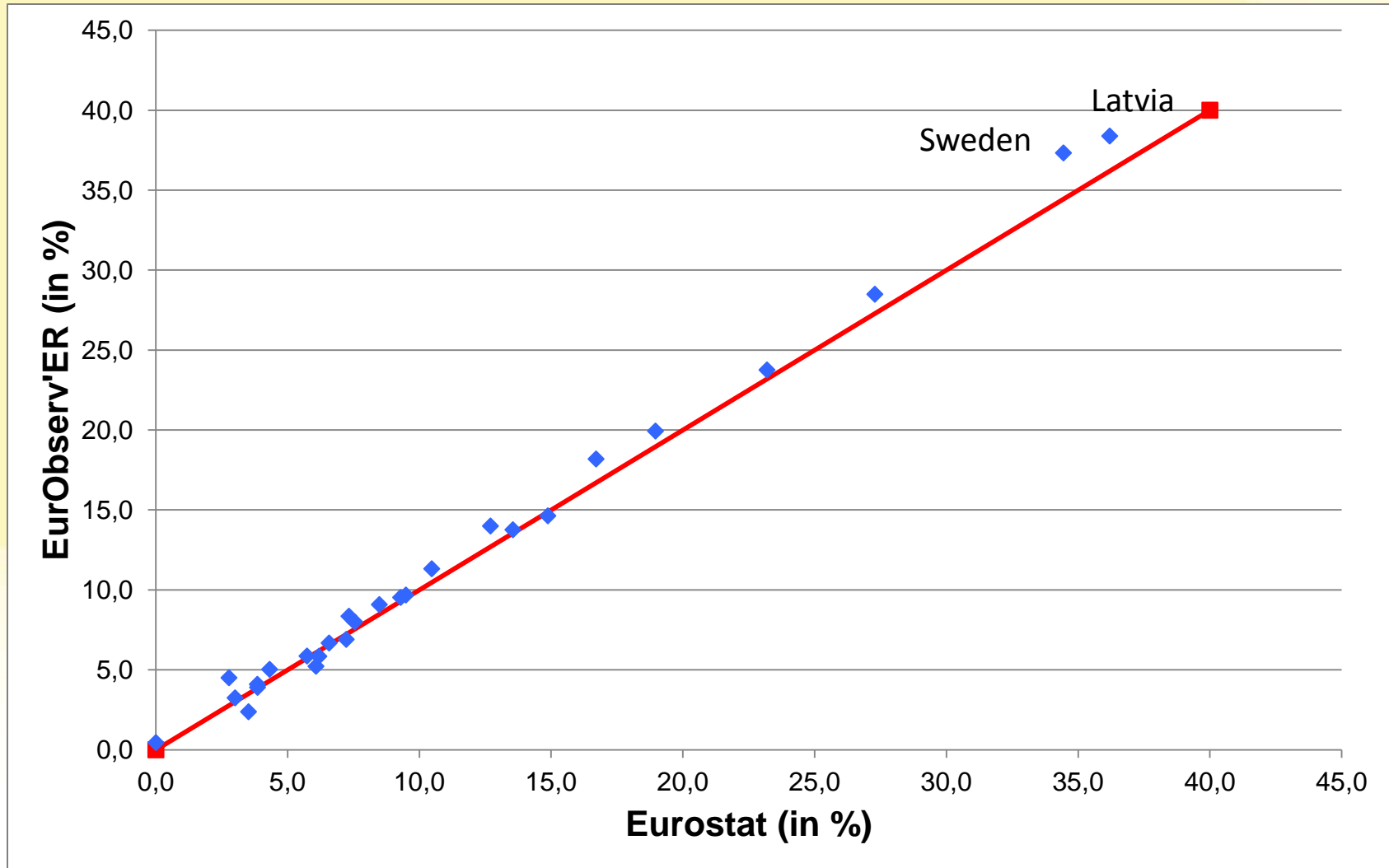
4 %

- EurObserv'ER data has included pumped storage in its calculation in order to compare with the "white paper" objective, which explains the difference.

Note that the EurObserv'ER methodology has changed in 2011 (2010 data) and excludes now pumped storage of their indicator (as Eurostat did).

Details of the comparison

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



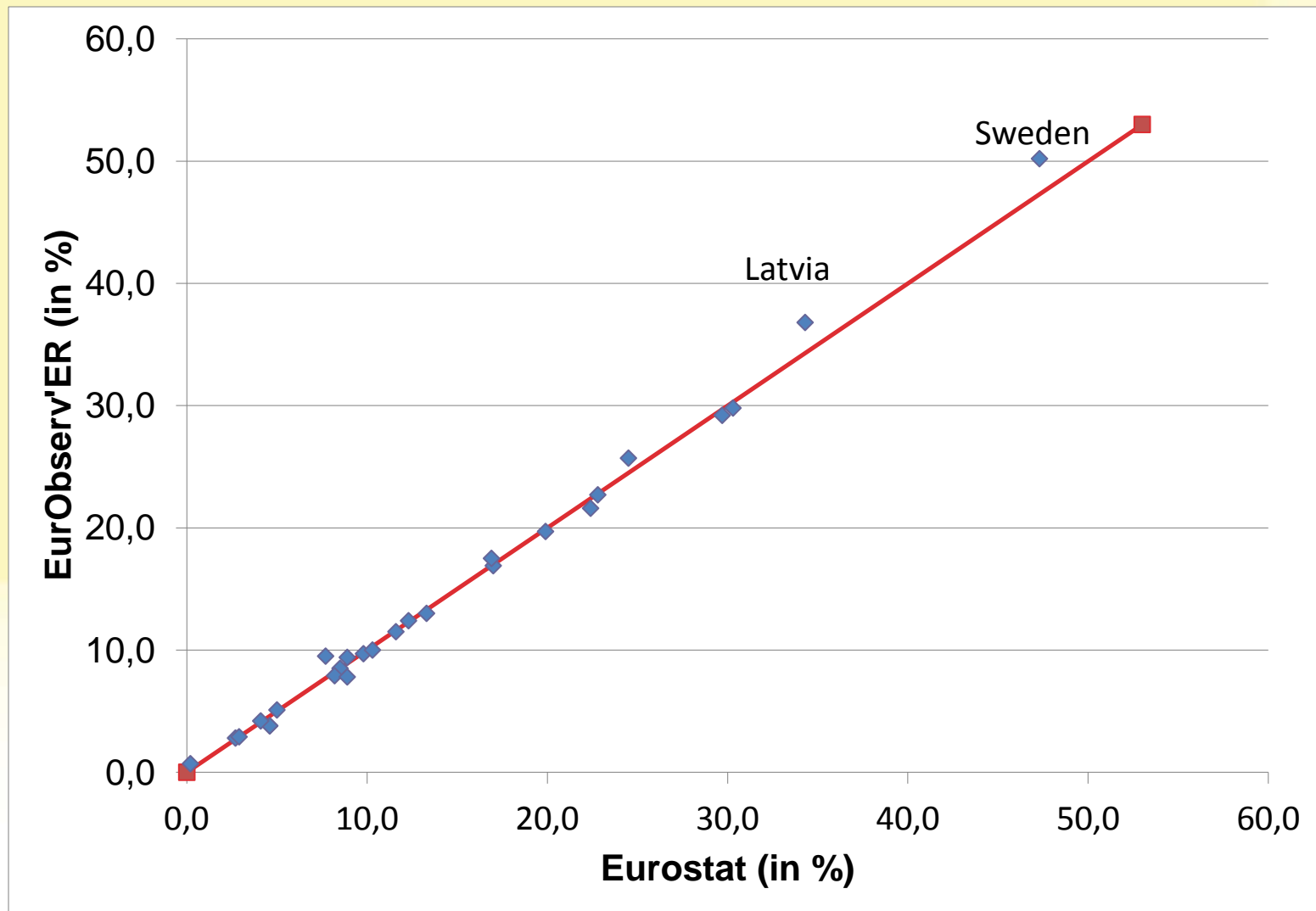
- For Latvia and Sweden EurObserv'ER underestimated the gross inland energy consumption in 2009

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

	Eurostat	EurObserv'ER	
EU 27	11,7 %	11,6 %	0,9 %

Details of the comparison

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



- For Latvia and Sweden EurObserv'ER underestimated the gross final energy consumption in 2009