

# The EurObserv'ER barometer

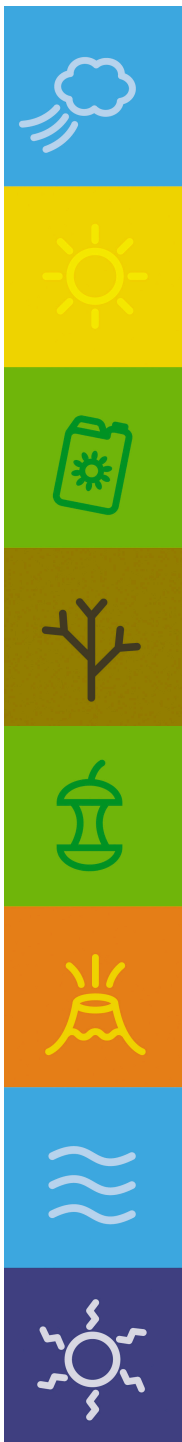
Contract N°ENER/C2/2016-487/SI2.742173

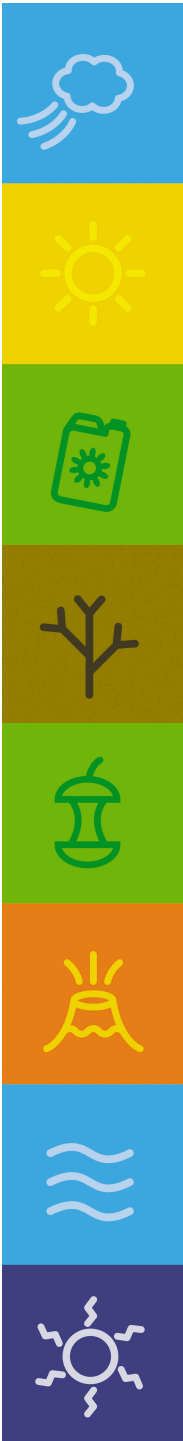
Project funded by the  
European Union



# Data comparison between Eurostat and EurObserv'ER

March 2018





## Comparison EurObserv'ER / Eurostat



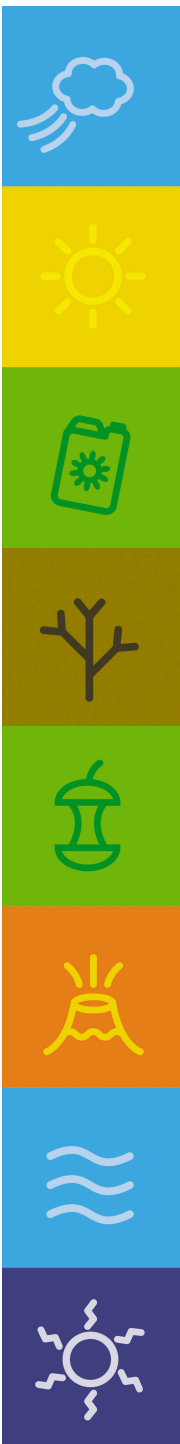
The purpose of this work is to compare two kinds of surveys:

- 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 2018 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 2016) and the data for the same year published in 2017 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.

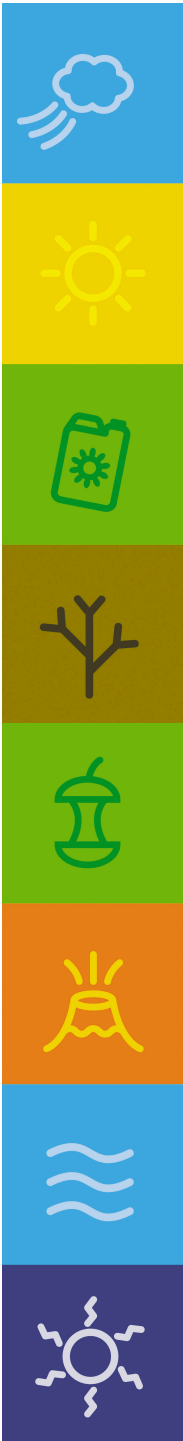
For heat and primary energy production: below a discrepancy of 5 % (for capacity installed and/or energy generated), accuracy will be considered high.

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

Some figures in Eurobserv'ER barometers come from SHARES. Therefore, there is no need for comparison. These figures are : small hydropower capacity, share of RES in gross final energy consumption, share of RES-E in gross electricity consumption.

## Capacity installed

- **Solar thermal**
- **Windpower**
- **PV**
- **Geothermal for electricity generation**



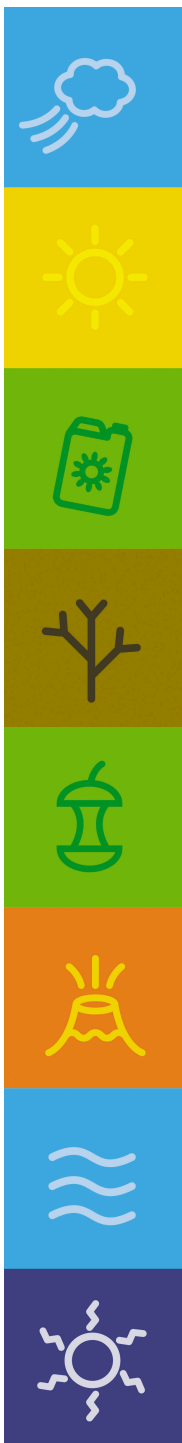
# Comparison EurObserv'ER indicators/Eurostat statistics

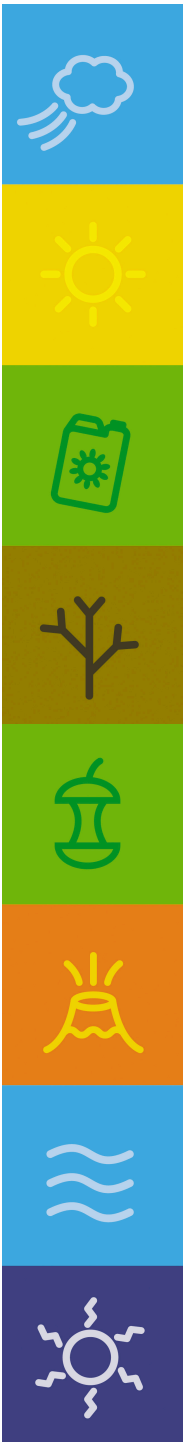


## Solar thermal capacity installed (thousand m<sup>2</sup>) in 2016

	<b>Eurostat</b>	<b>Eurobserv'ER</b>
EU 28	49 843	51 019
EU 15	44 735	45 777
EU 13	5 108	5 242

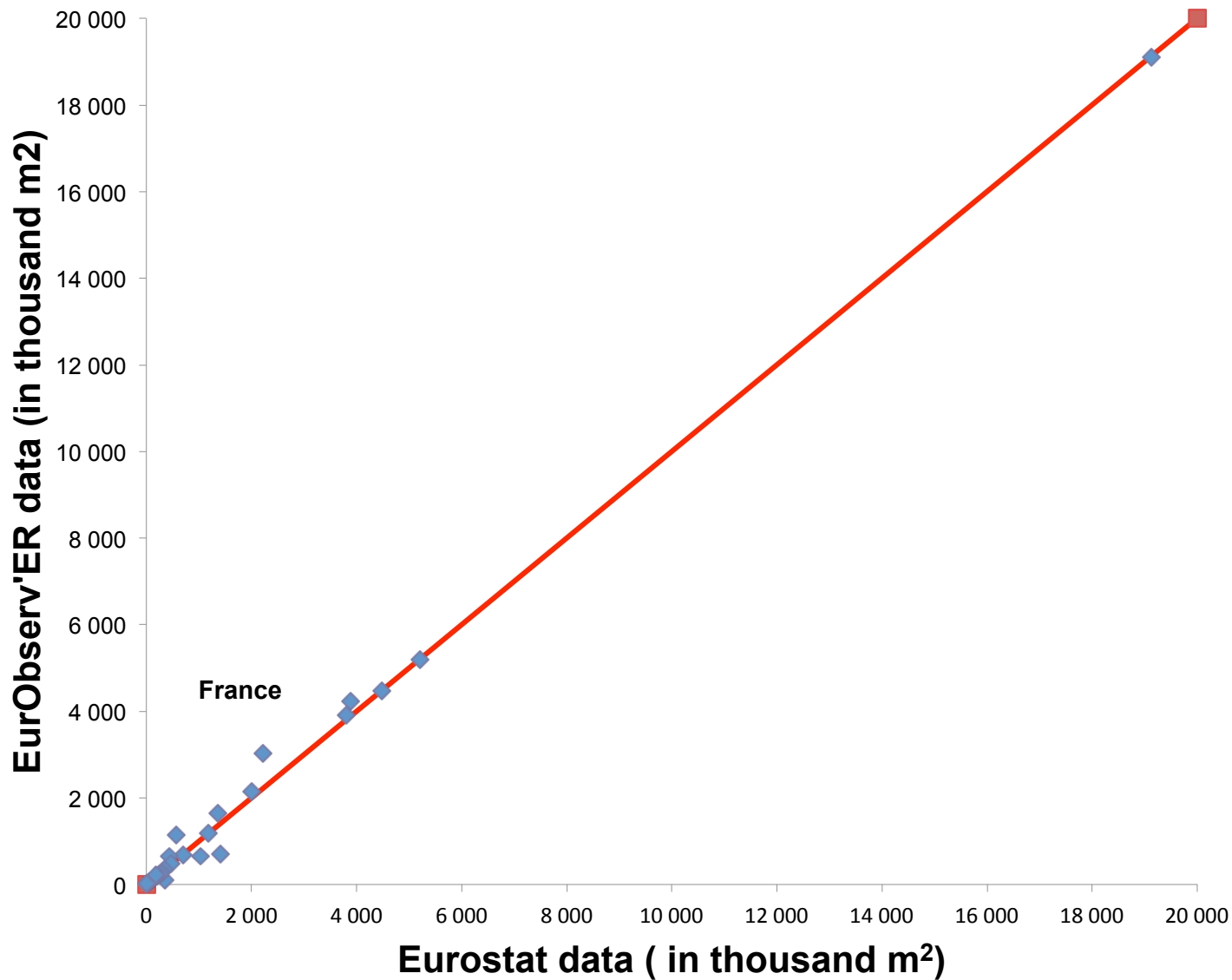
**2,3%**





## Details of the comparison

### Solar thermal capacity installed



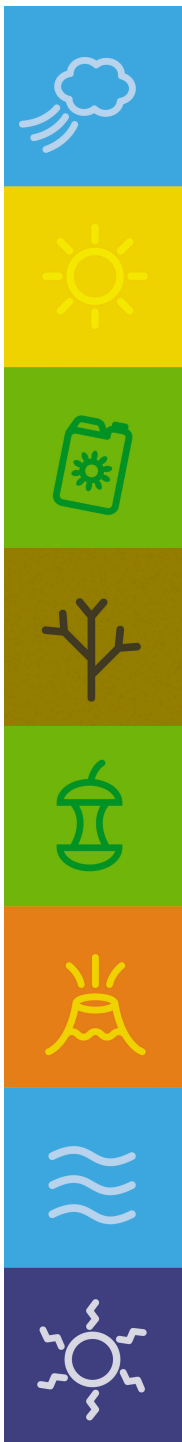
# Comparison EurObserv'ER indicators/Eurostat statistics



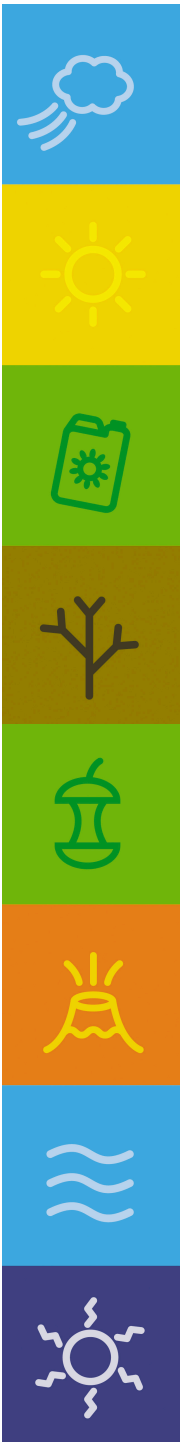
## Windpower capacity installed (MW) in 2016

	<b>Eurostat</b>	<b>Eurobserv'ER</b>
EU 28	154 325	153 602
EU 15	142 705	141 976
EU 13	11 620	11 627

**0,5%**

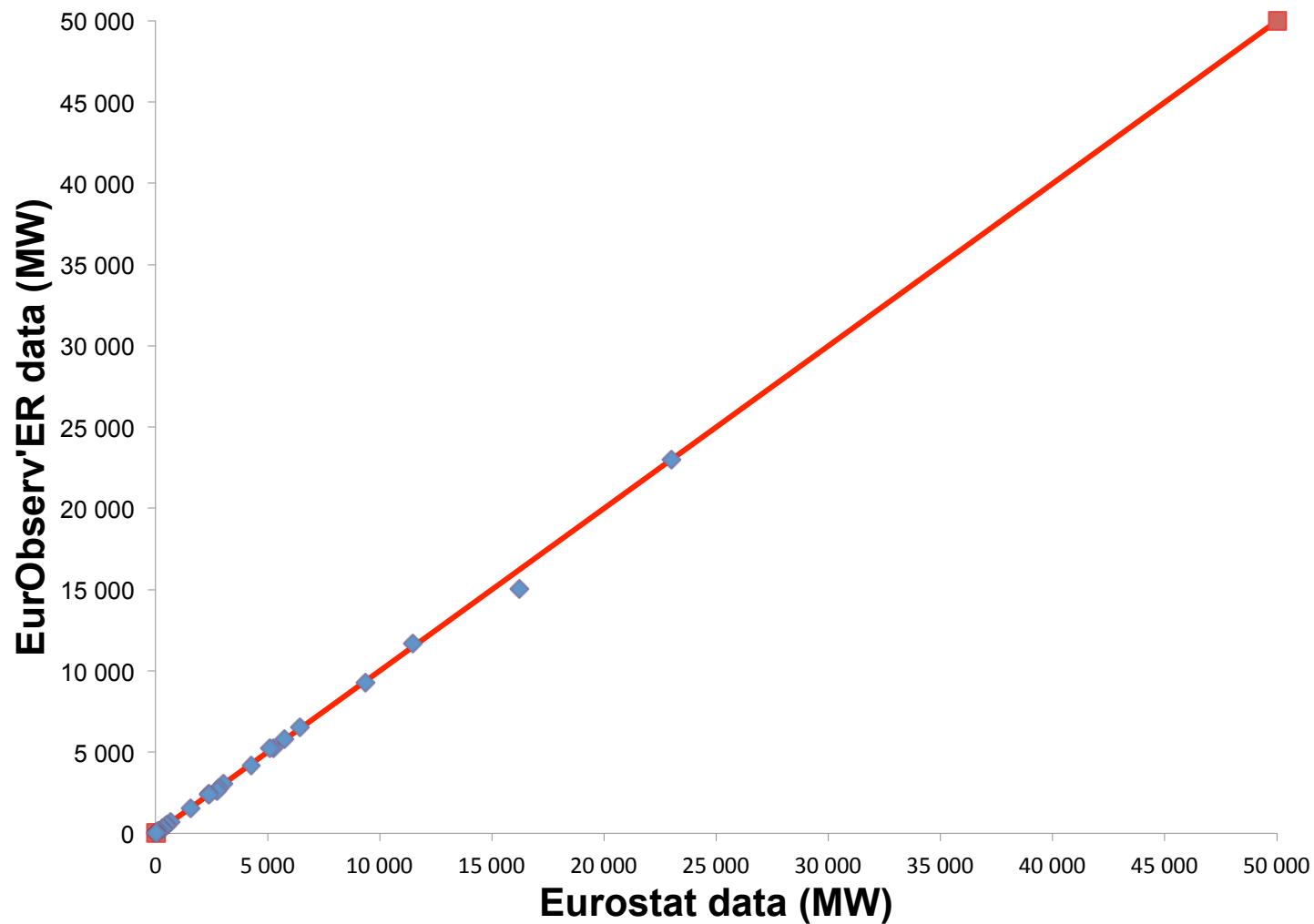






# Details of the comparison

## Windpower capacity installed

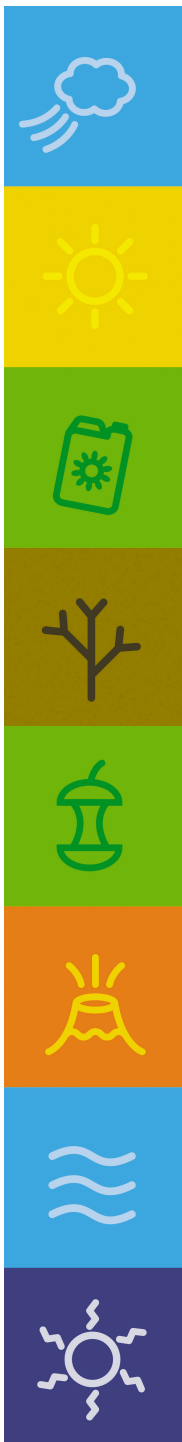


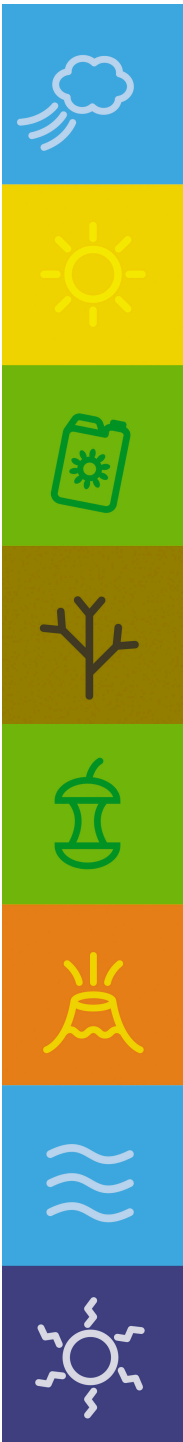
# Comparison EurObserv'ER indicators/Eurostat statistics

## PV capacity installed (MW) in 2016

	<b>Eurostat</b>	<b>Eurobserv'ER</b>
EU 28	100 812	100 935
EU 15	94 867	94 918
EU 13	5 945	6 017

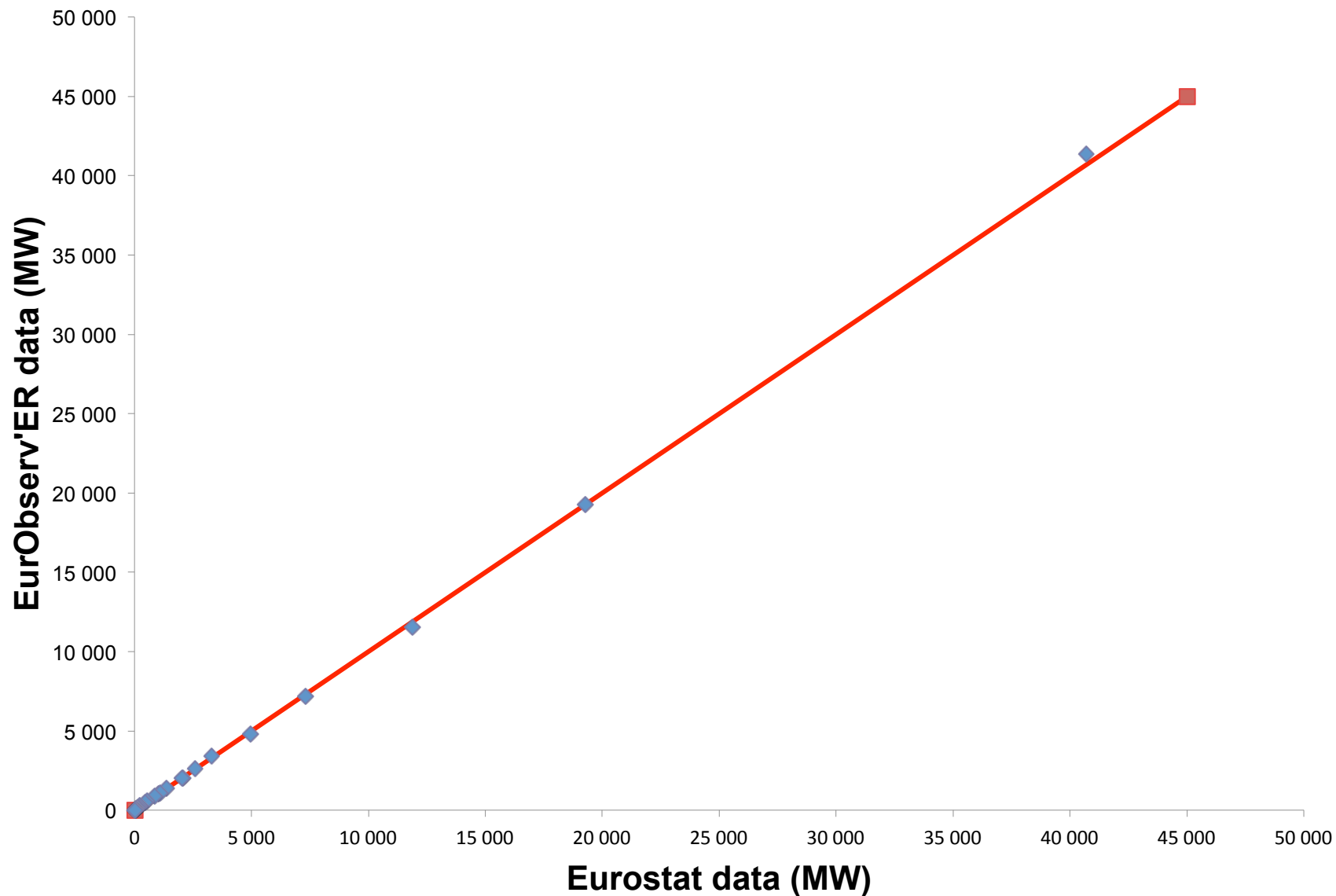
**0,1 %**





## Details of the comparison

### PV capacity installed





## Comparison EurObserv'ER indicators/Eurostat statistics



### Geothermal installed capacity for electricity generation (MW) in 2016

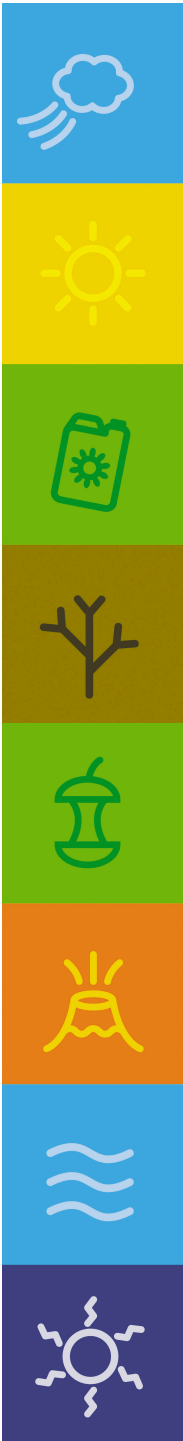
	Eurostat	Eurobserv'ER
EU 28	824	839
EU 15	824	839
EU 13	0	0

**1,9 %**

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

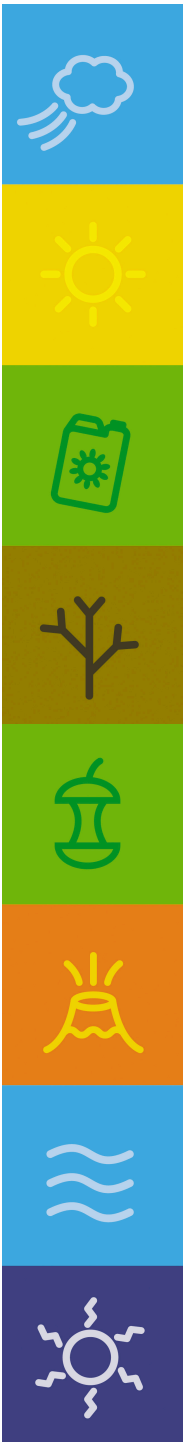


## Primary energy production from solid biomass (ktoe) in 2016

	<b>Eurostat</b>	<b>Eurobserv'ER</b>
EU 28	94 141	95 029
EU 15	70 002	70 023
EU 13	24 139	25 006

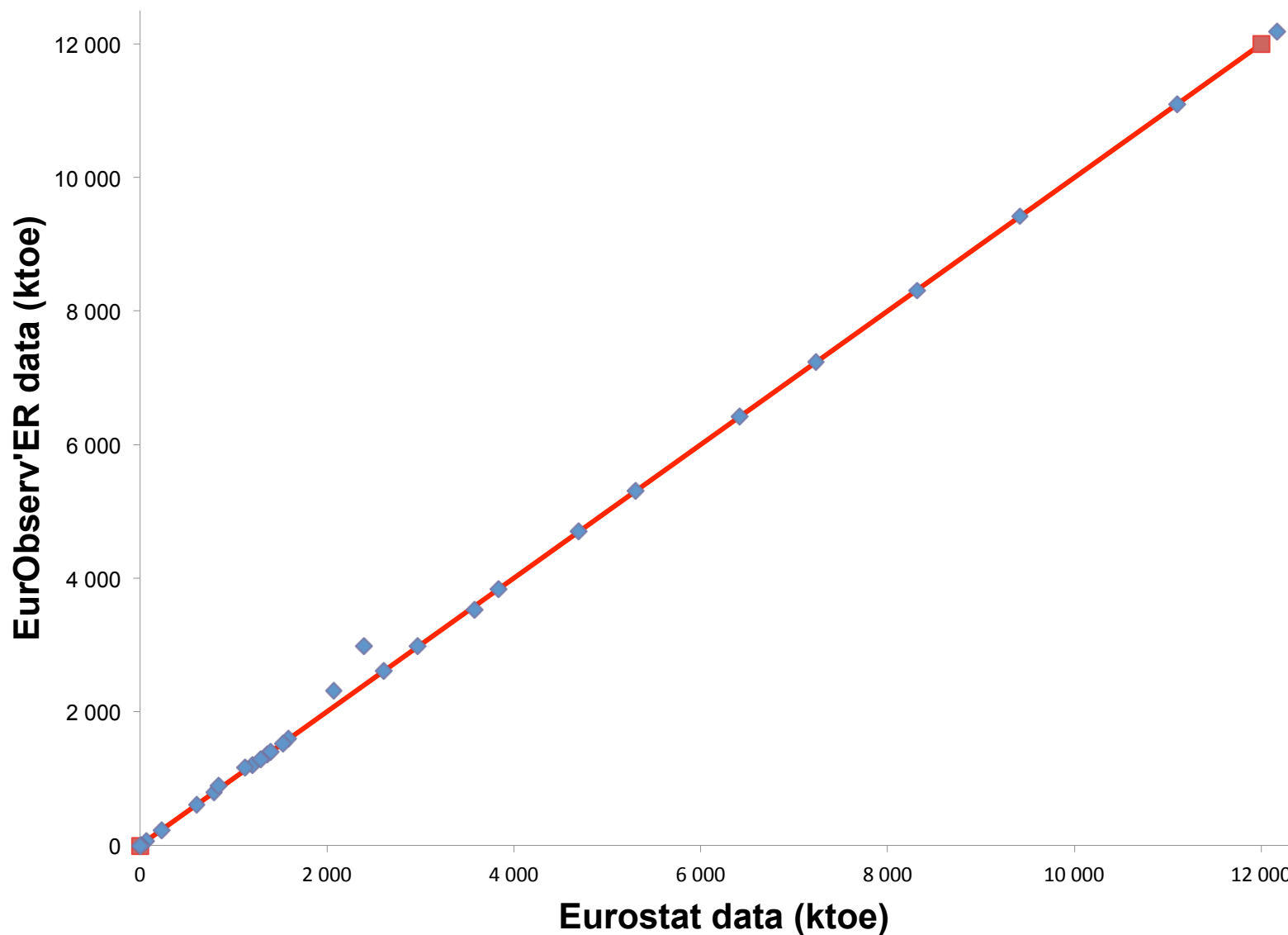
**0,9 %**

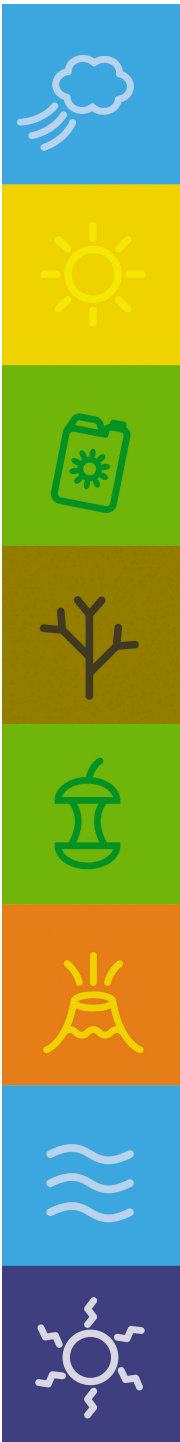
Main difference comes from Italy, EurObserv'ER use the IEA preliminary estimation because official statistics were not available in the beginning of december 2017.



## Details of the comparison

### Primary energy production from solid biomass





## Comparison EurObserv'ER indicators/Eurostat statistics

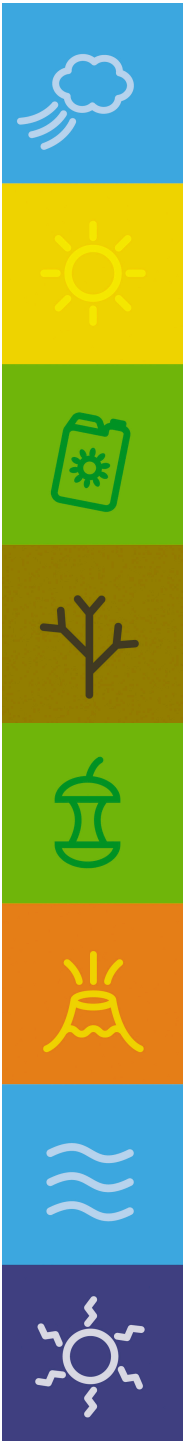


### Primary energy production from municipal waste (ktoe) in 2016

	<b>Eurostat</b>	<b>Eurobserv'ER</b>
EU 28	10 001	9 738
EU 15	9 700	9 442
EU 13	301	296

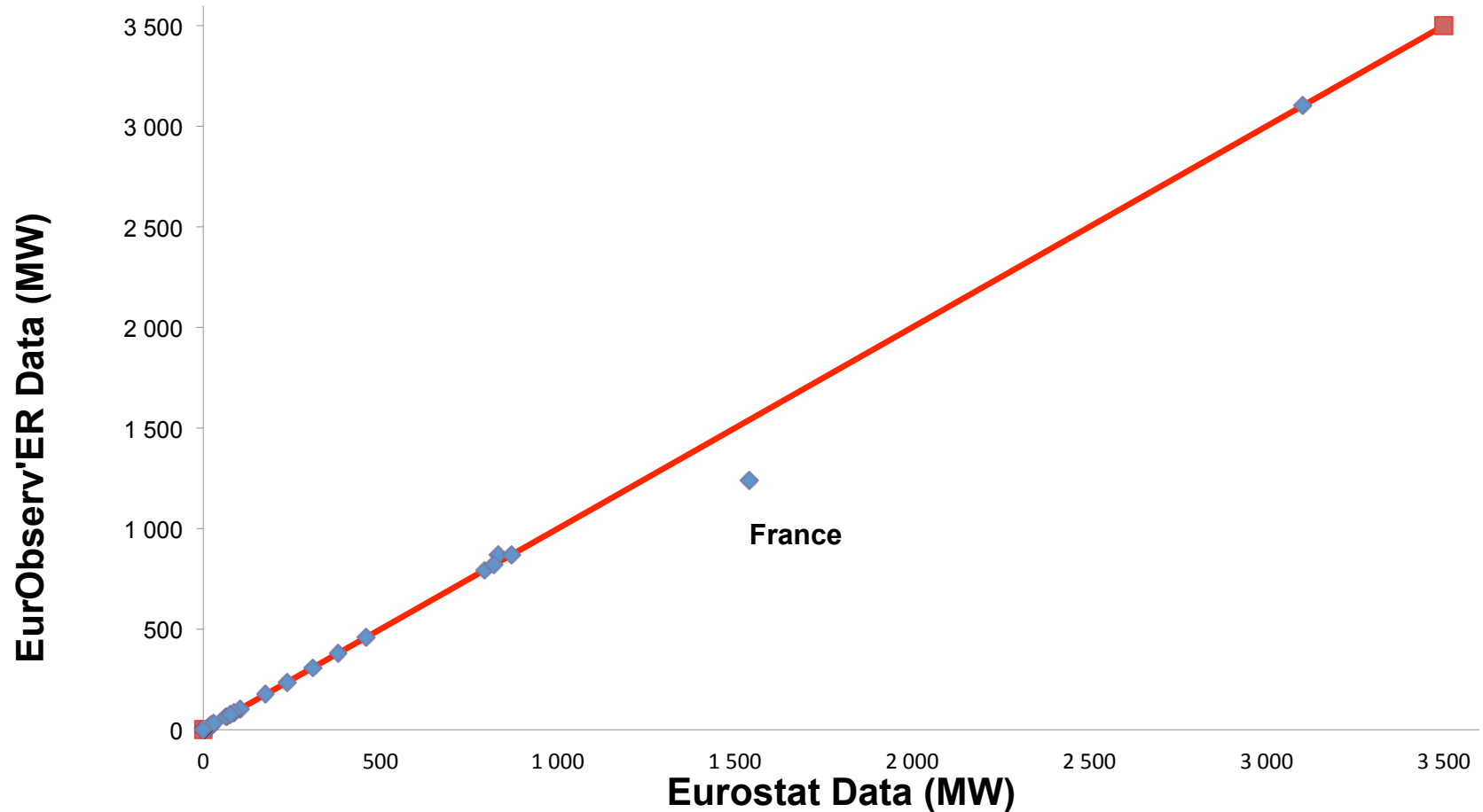
**2,7 %**





## Details of the comparison

### Primary energy production from municipal waste



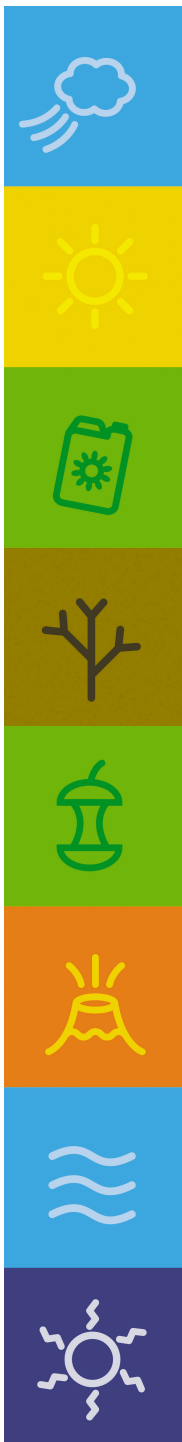
France data have been reviewed on Eurostat in the very end of 2017 after they were used in the EurObserv'ER barometer.

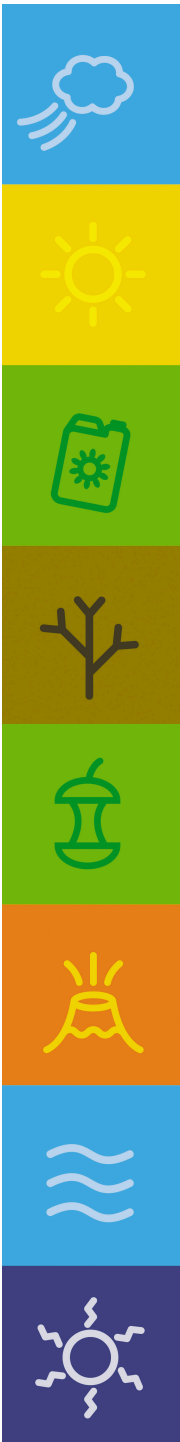
# Comparison EurObserv'ER indicators/Eurostat statistics

## Primary energy production from biogas (ktoe) in 2016

	<b>Eurostat</b>	<b>Eurobserv'ER</b>
EU 28	16 600	16 094
EU 15	15 197	14 735
EU 10	1 403	1 359

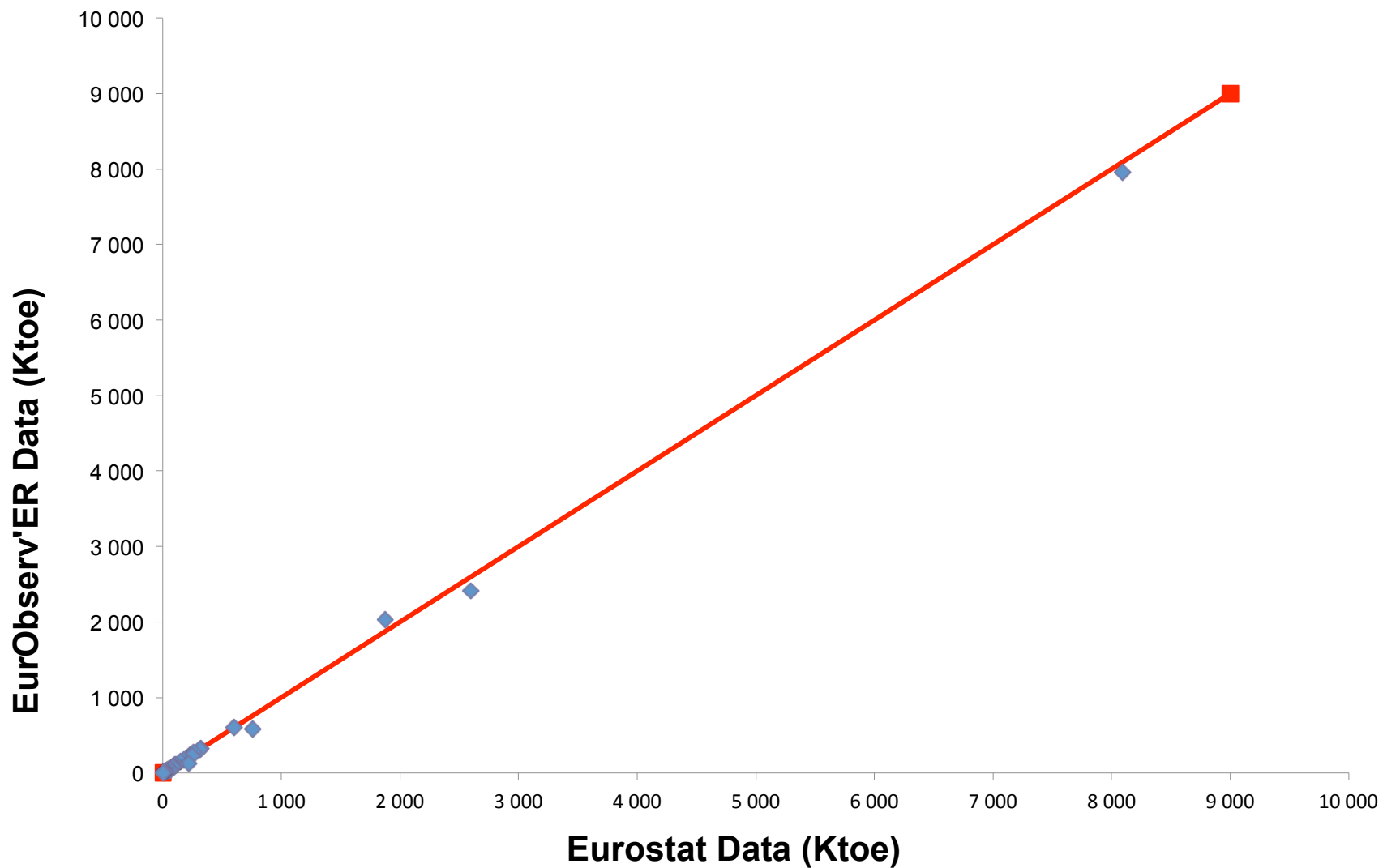
**3,1 %**





## Details of the comparison

### Primary energy production from biogas



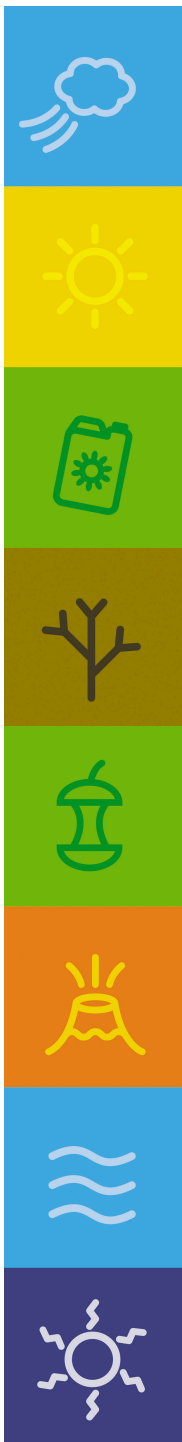
# Comparison EurObserv'ER indicators/Eurostat statistics

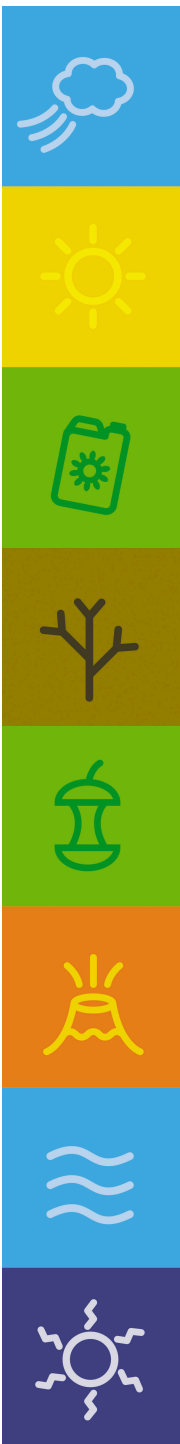


## Biofuels used for road consumption (ktoe) in 2016

	<b>Eurostat</b>	<b>Eurobserv'ER</b>
EU 28	13 648	14 387
EU 15	12 048	12 566
EU 13	1 600	1 821

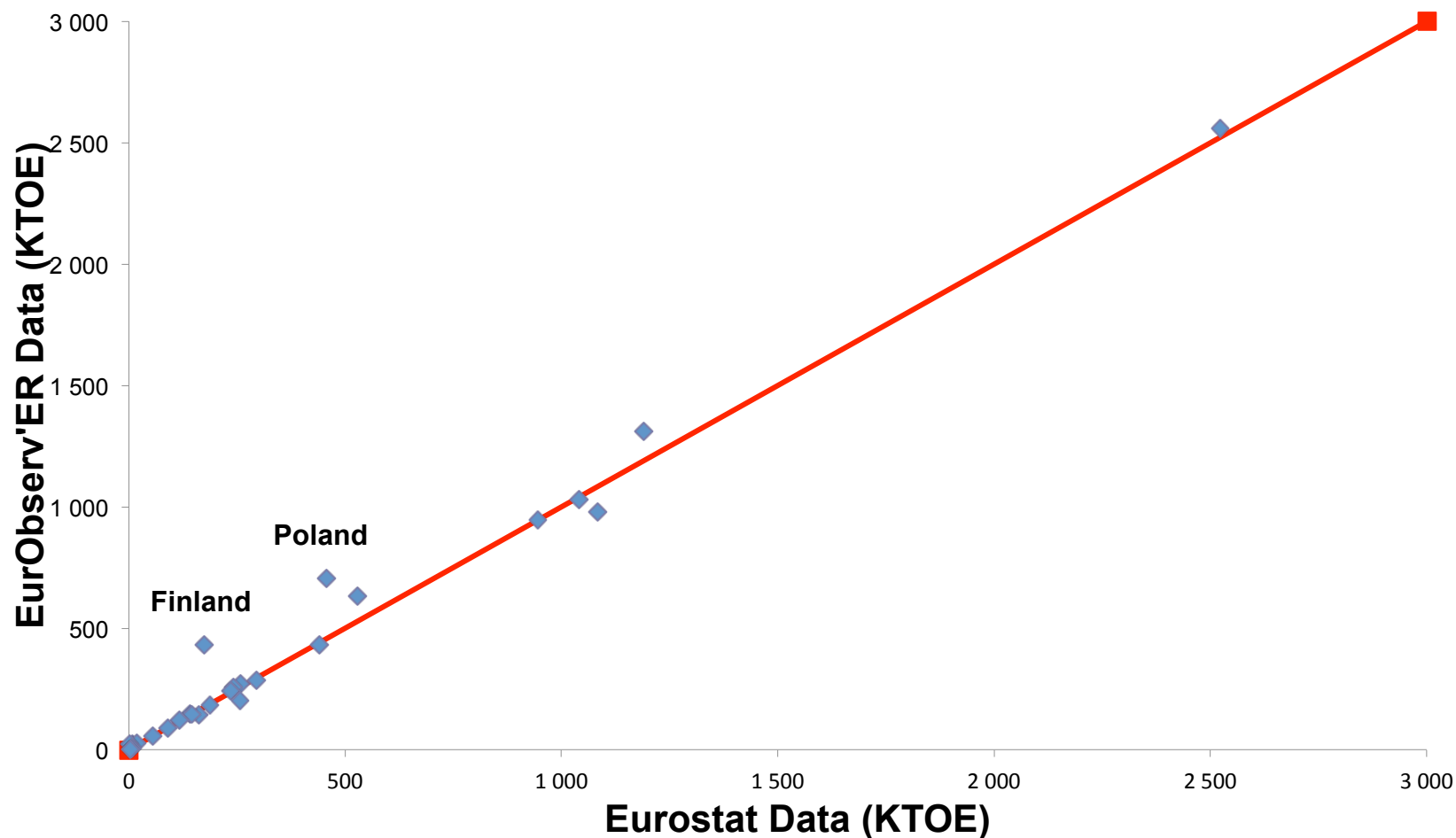
**5,1 %**





## Details of the comparison

### Biofuels consumption



As Eurobserv'ER worked early in the year on biofuels (June 2017), many figures were based on first estimation. The main differences were observed on Finland and Poland cases.

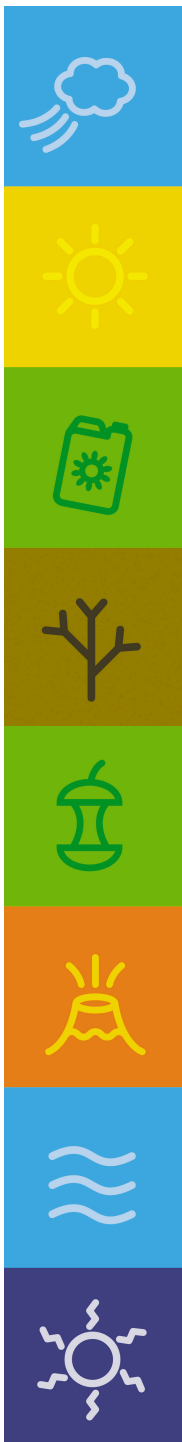
# Comparison EurObserv'ER indicators/Eurostat statistics

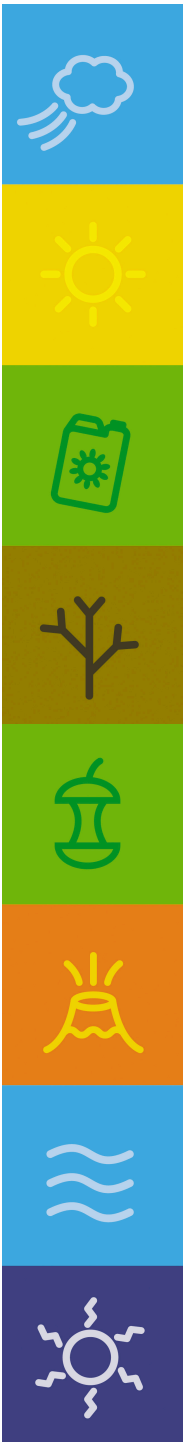


## Electricity generation from PV (GWh) in 2016

	Eurostat	Eurobserv'ER
EU 28	104 769	105 816
EU 15	97 925	99 128
EU 13	6 844	6 688

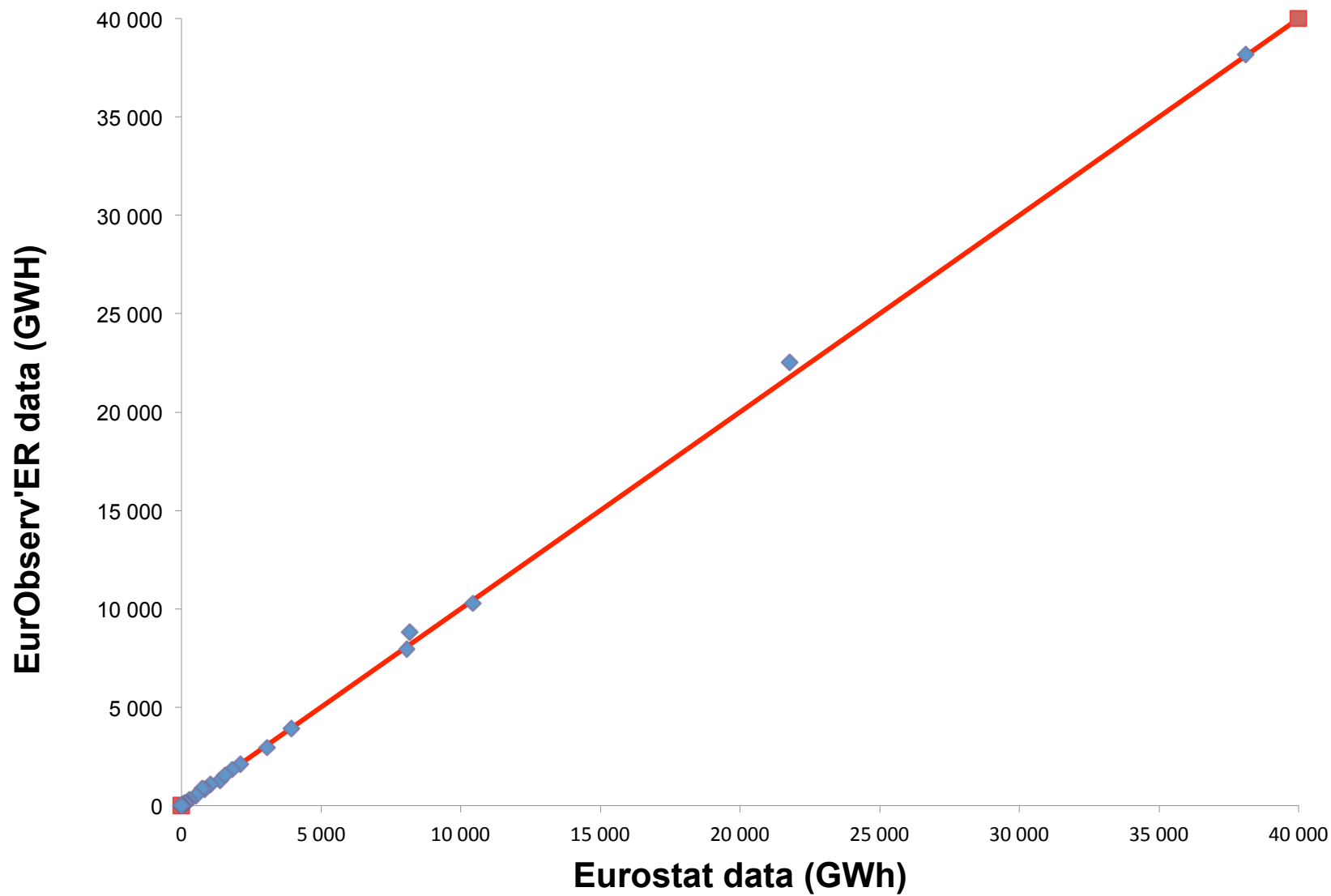
**1,0 %**





## Details of the comparison

### Electricity generation from PV



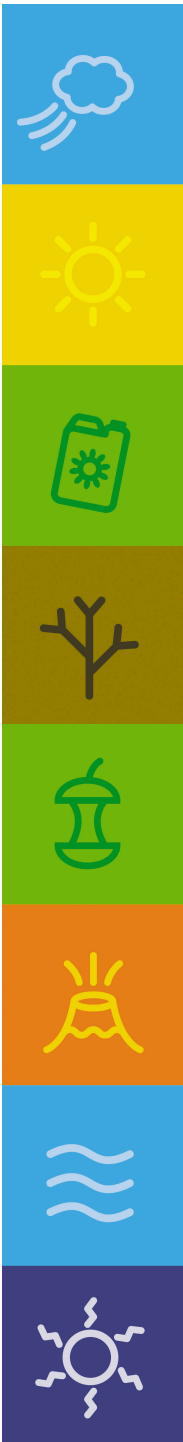
## Electricity generation from windpower (GWh) in 2016

	<b>Eurostat</b>	<b>Eurobserv'ER</b>
EU 28	302 663	301 431
EU 15	278 180	277 305
EU 13	24 483	24 126

**0,4 %**

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





## Details of the comparison

### Electricity generation from windpower

