

# Small wind energy in Italy – a feed-in tariff that revolutionized the Italian small wind market





Here we present the report to shed light on the new feed-in tariff reserved for small wind systems and in particular to the power between  $1 \leq 60$  kW as these fall into the category excluded from the register and benefit from a faster approval process.

In the past small wind turbines in Italy were considered those with rated power between 1 kW and 200 kW as for such systems were introduced significant incentives in the Italian Law of 24 December 2007 no. 244 and the subsequent Ministerial Decree of 18 December 2008, whether directly connected to the grid (old Feed in Tariff)



The old Feed In Tariff which started on 1 January 2008 and expired on 31 December 2012 provided a tariff of 300 € / MWh for 15 years for a power range between 1 and 200 kW and has given rise to the business of small wind turbines in Italy.

You could also connect the turbines in Net Metering (no feed in tariff)



The new Feed In Tariff started on 1 January, 2013 and will end on 31 December 2015 and its life is 20 years (no more 15 years)

The tariff is divided in classes of power from 1 kW to 5 MW

The Feed In Tariff is limited to 60 MW each year (180 MW for 2013-2015) includes wind plants with power between 1kW to 5 MW

The maximum annual spending is expected to be 5.8 billion Euros (included all other renewable energy except photovoltaic energy)

You can also connect the turbines in Net Metering (no feed in tariff)

## 2013

$1 < P \leq 20 \text{ kW}$	291 €/MWh
$20 < P \leq 200 \text{ kW}$	268 €/MWh
$200 < P \leq 1000 \text{ kW}$	149 €/MWh

## 2014

$1 < P \leq 20 \text{ kW}$	285,18 €/MWh
$20 < P \leq 200 \text{ kW}$	262,64 €/MWh
$200 < P \leq 1000 \text{ kW}$	146,02 €/MWh

## 2015

$1 < P \leq 20 \text{ kW}$	279,47 €/MWh
$20 < P \leq 200 \text{ kW}$	257,38 €/MWh
$200 < P \leq 1000 \text{ kW}$	143,09 €/MWh



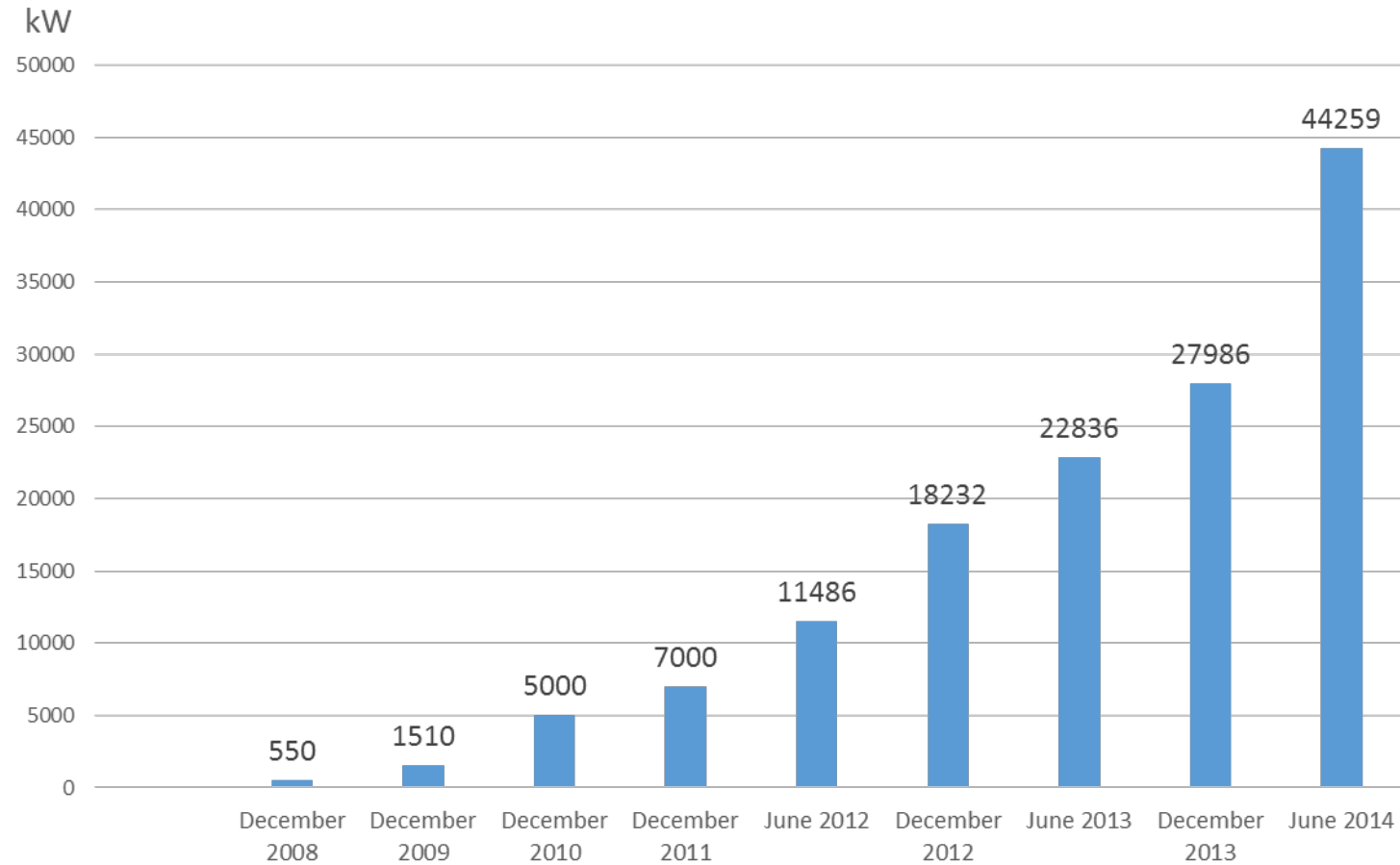
- Systems from 1kW to 60kW are easier to install because have less problems of permissions to obtain.
- Systems from 1kW to 60kW obtain the Feed In Tariff directly inside the 60MW annual capacity.
- Systems of more than 60kW have to obtain the Feed In Tariff through a register that is a sort of classification and for this reason it is impossible to obtain financing from banks if you are not in this register.



It is clear that in the new regulatory framework the major advantages are obtained in upper limit installations and in particular 20kW, 60 kW, and between 100 and 200kW, apart from the limitations of register (now already run out).

We can get an idea of how the market has moved or will move thorough analyzing the data in our possession and in particular the ASSIEME Small Wind Report Italy 2012, 2013 and 2014 together with the Report on 1° register A plant On Shore 2013 always of ASSIEME (which is the only one that contains wind turbines within the 250 kW)

## Cumulative Installed Power (Small Wind under 250 kW)





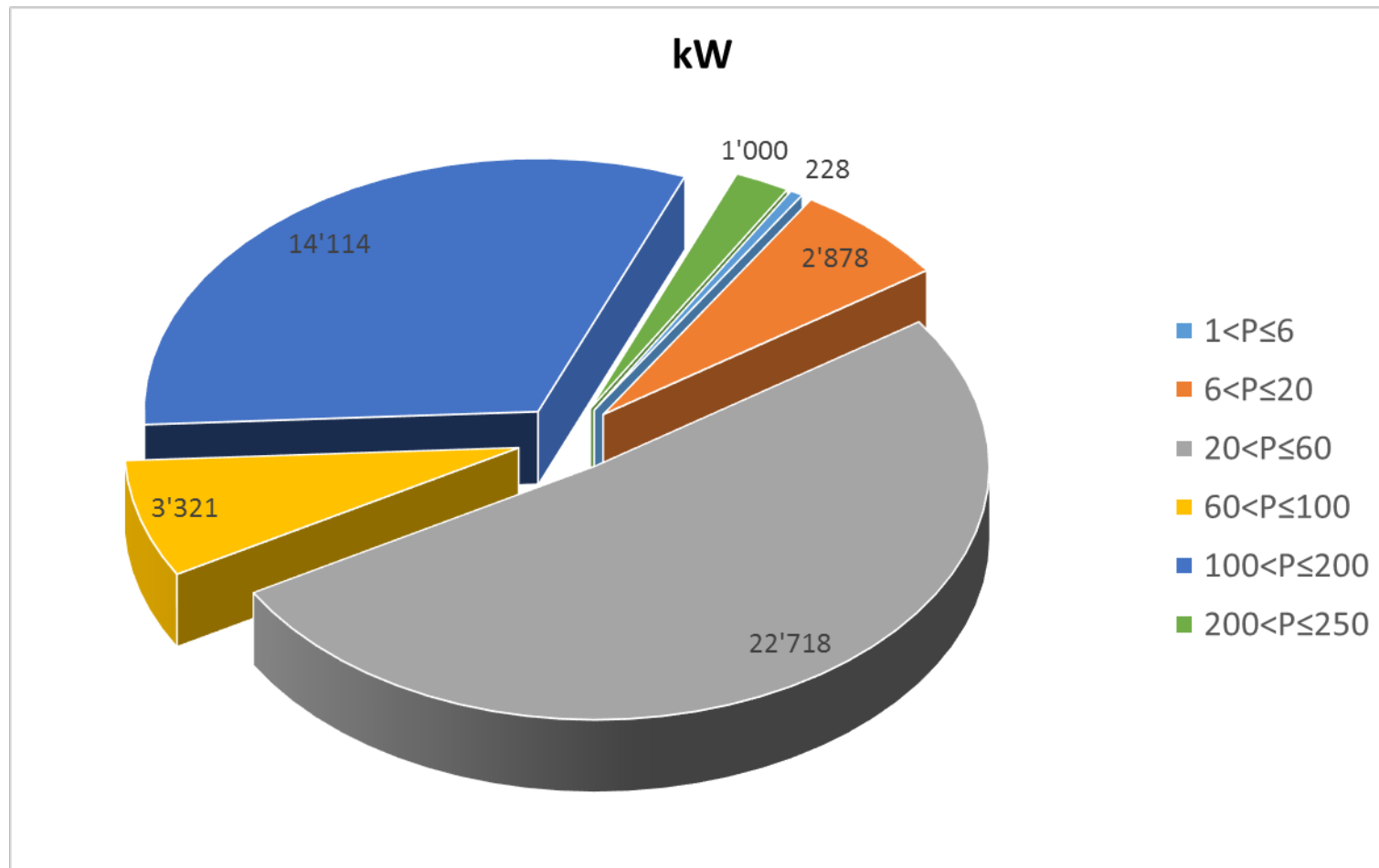


## ITALIAN SMALL WIND REPORT 06/2014

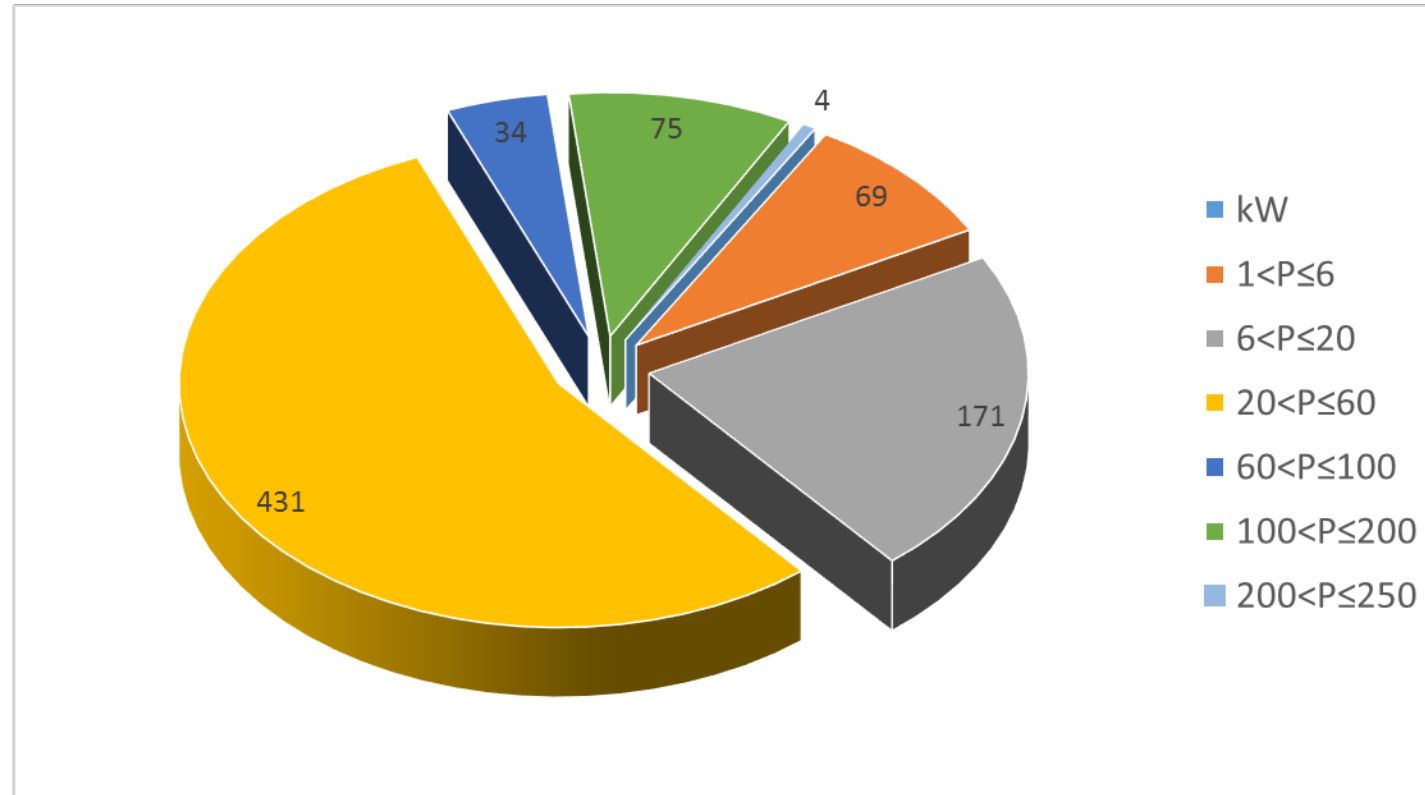
- The report presented here is taken from the latest available data from the GSE Bulletin 1st half of 2014 updated to 30 June 2014.
- It considers all wind turbines installed benefiting from incentives IAFR (Green Certificates or Feed-In Tariffs), does not count installations in stand-alone which are estimated for at least other 500 kW.
- We have divided the power classes in 6 primary ones, considering the connection voltage (single phase or three phase), division of Feed-In Tariffs, bureaucratic facilities for installation and inscriptions to the new register.
- The last classes from 60 kW to 250 kW have been added considering what was the previous Feed-In Tariffs and also considering the range over 200 kW requested by international organizations and which is not widespread in Italy.
- The plants are only the installed ones.
- The further graph also includes the number of installed plants. For clarification plants could be composed of multiple machines of lower power and not necessarily from a single machine.
- We also did a further splitting by region in order to highlight the growth from the previous report.

## INSTALLED POWER DIVIDED BY CLASS OF POWER

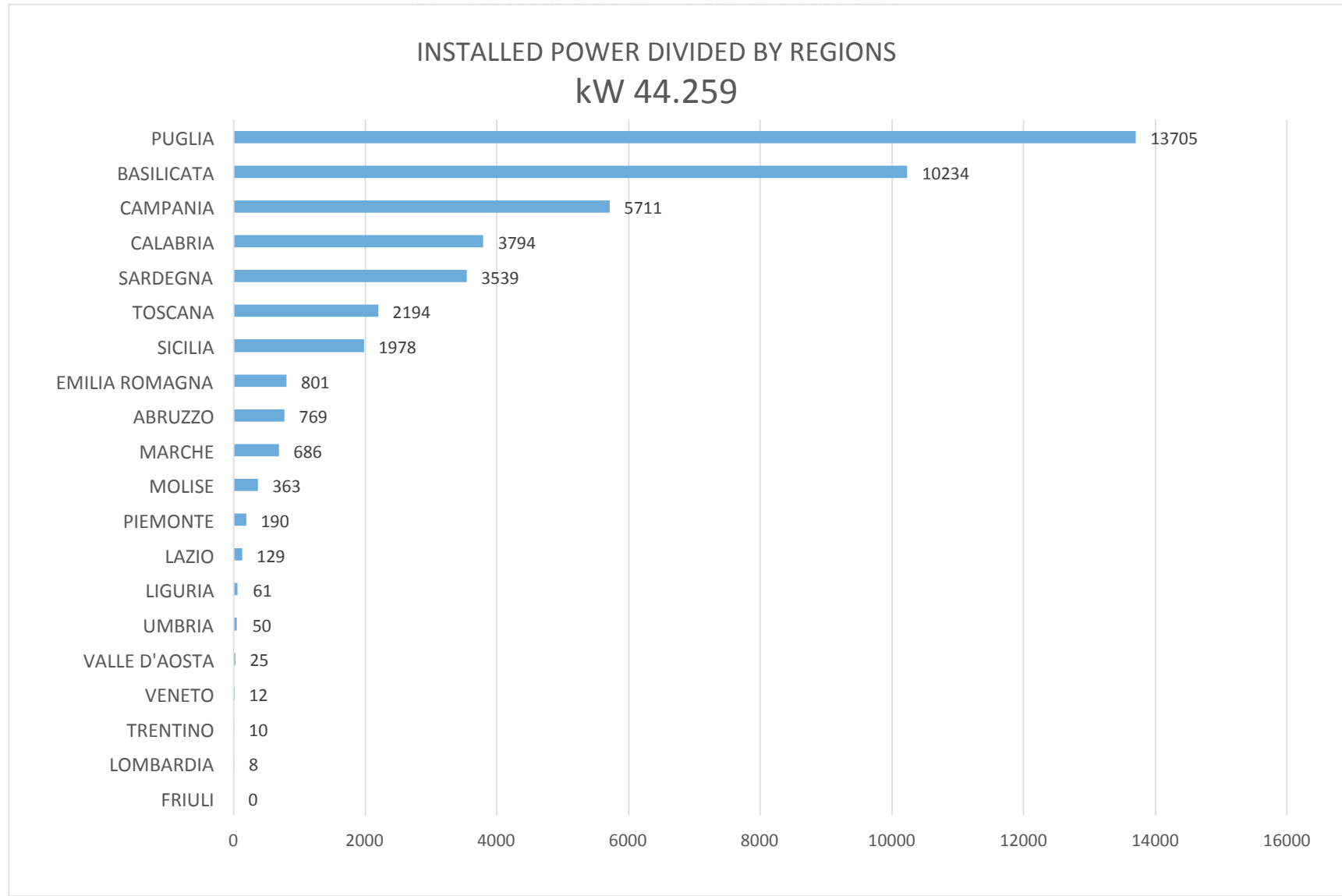
Total power 44.259 kW



## NUMBER OF PLANTS DIVIDED BY CLASS OF POWER



Total plants 784





THANK YOU

[www.assieme.eu](http://www.assieme.eu)

[info@assieme.eu](mailto:info@assieme.eu)