

## Energy sector statistics

### Methodological note

Terna Rete Elettrica Nazionale (Terna S.p.A. group) is responsible for the collection of statistical data on the Italian electricity sector, as its Statistical Office is a member of [Sistan](#) (National Statistical System).

The “*Statistical Data on Electricity in Italy*” survey has taken place annually since 1963 and has been conducted in electronic form since 2000; it is a census-type survey and currently<sup>1</sup> covers about 5,200 National Electricity Operators (160 of which are distributors) who provide electricity production and consumption data. The survey sees the co-participation of the GSE Statistical Office for the entire photovoltaic sector.

The statistical data is collected in accordance with the [National Statistical Programme \(PSN\)](#) and entails an obligation to meet art.7 of [Italian Legislative Decree No. 322 of 6 September 1989](#). The survey is aligned with the articles of [Regulation \(EC\) No. 1099/2008](#) of the European Parliament and of the Council of 22 October 2008 on energy statistics and adopts the [European Statistics Code of Practice](#) and Istat [Quality Guidelines](#) as quality, process and product evaluation benchmarks.

Terna enables the communication of the above data by providing the GSTAT procedure – an Internet application available at <https://gstat.terna.it/gstat/index.xhtml> – which makes it possible to acquire electricity sector statistical data via direct upload by National Electricity Operators. This upload takes place through web pages that are accessible only by authorised GSTAT system users, who fall within the following categories:

- Electricity Operators (producers, distributors and UIG operators);
- Statistical Office internal users.

The survey data communicated by the Electricity Operators concerns:

- specific plant data:
  - *name*
  - *location*
  - *type*
  - *fuel used and relevant specific data*
  - *date of entry into operation of the plant*
  - *power data*
  - *grid connection voltage*
  - *producibility*
- production and consumption data:
  - *gross and net electricity production*
  - *auxiliary services*
  - *fuel consumption (for thermoelectric plants)*
  - *heat produced (for cogeneration plants)*
  - *self-consumption*
  - *production injected into the grid*
  - *pumping consumption (for hydroelectric pumping plants)*
  - *heat use (for cogeneration plants)*
  - *consumption (by ATECO 2007 code and province)*

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<sup>1</sup> Figures updated to December 2021

The Statistical Office staff subjects the communicated data to thorough and global validation processes (also with respect to other Terna Group information archives). Only when the data has passed all quality controls is it included, in aggregate form, in the publication “Statistical Data on Electricity in Italy”.

The publication provides, on the one hand, an overview of the size of power plants and their electricity production divided according to electricity operator type – producer or self-producer – and, on the other, a breakdown of electricity consumption by different product and geographical criteria. An extract of the aforementioned data is also part, in aggregate form, of the “[\*Italian Annual Statistical Report\*](#)” published by ISTAT.