

Energy Information Administration (EIA)

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Summary

The U.S. Energy Information Administration (EIA) is a principal agency of the U.S. Federal Statistical System responsible for collecting, analyzing, and disseminating energy information.

The series in the International Futures System is Total Electric Capacity by the U.S. Energy Information Administration under the Energy module. The variable name is EnElecTotalCapacityEIA.

The capacity data consist of both utility and nonutility sources.

- Electric utility: A corporation, person, agency, authority, or other legal entity or instrumentality aligned with distribution facilities for delivery of electric energy for use primarily by the public. Included are investor-owned electric utilities, municipal and State utilities, Federal electric utilities, and rural electric cooperatives. A few entities that are tariff based and corporately aligned with companies that own distribution facilities are also included.
- Electricity: A form of energy characterized by the presence and motion of elementary charged particles generated by friction, induction, or chemical change.
- Generator capacity: The maximum output, commonly expressed in megawatts (MW), that generating equipment can supply to system load, adjusted for ambient conditions.

Tables In IFs

Variable	Definition	UsedInPreprocessor	UsedInPreprocessorFileName
EnElecTotalCapacityEIA	Total electricity installed capacity 1		INFRASTRUCTURE

Data Pulling Instructions

- For the EIA energy electric total capacity, the data was pulled from the EIA website (<https://www.eia.gov/cfapps/ipdbproject/IEDIndex3.cfm?tid=2&pid=2&aid=7>).
- Choose your indicator

The screenshot shows a navigation bar with 'Selected Country / Region' and tabs for 'OVERVIEW', 'DATA' (which is selected and highlighted in blue), 'ANALYSES', and 'RANKINGS'. Below the tabs is a list of energy sources and indicators:

- ◆ Petroleum and Other Liquids
- ◆ Natural Gas
- ◆ Coal and coke
- ◆ Hydrocarbon Gas Liquids
- ◆ Biofuels
- Electricity
 - ◆ Electricity capacity
 - ◆ Electricity generation
 - ◆ Electricity consumption
 - ◆ Electricity imports
 - ◆ Electricity exports
 - ◆ Electricity net imports
 - ◆ More Electricity data
- ◆ Total Energy
- ◆ Other Statistics

- Once selected you can download your data by clicking the "download options"
- The data is updated on December 31st of every year and has data points back to 1980.
- There are no conversions necessary.

Data Notes

- South Sudan is the only country that posed a problem in the data. There is no information on how the capacity should be split between Sudan and South Sudan, so for years 2011 and 2012 all the data was left blank in order to avoid any reporting mistakes. All other currently recognized countries have measurements. Historically, there are 7 countries that do not; Former Czechoslovakia, Former Serbia and Montenegro, Former Yugoslavia, East Germany, West Germany, Former U.S.S.R. Hawaiian Trade Zone.
- NOTE = For a data pull (April 2024), the values from 1980-1999 were the same between the newly pulled data and the IFsHistSeries, but 2000-2021's data values are different. This suggests a new data documentation method which can be seen here <https://www.eia.gov/electricity/data/eia860/>
- The most recent data pull was in April of 2025.
 - Use East Germany and West Germany for the earlier years of Germany's value
 - Use Former U.S.S.R. for Russia's formative years

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