

GTD Infrastructure Database 2016 Ed 1

Generation and T&D

Historical 1900 to 2015, Forecast 2016 to 2050

GTD Infrastructure Database provides information and analysis of the Infrastructure of the Generation and T&D sectors, with historical data and forecasts for all countries, with spreadsheets and charts.

- ◆ **Installed generating capacity by energy source/technology**

The development of generating capacity is charted from 1900 to the present day and forecast to 2050. It is tabulated for 1900, 1950 and annually from 1980 to 2020 provided in the Excel database. This analysis is provided globally, regionally and for 184 countries.

Installed capacity is analysed by energy source; coal, gas, oil, nuclear, hydro, wind, solar PV, solar thermal, biomass, MSW & waste, geothermal and ocean/marine. It is tabulated globally and for 8 regional totals annually from 1990 to 2020.

- ◆ **Demand for generating capacity**

Global annual demand is analysed by new and replacement installations globally, by regions and for 184 countries, in five year segments from 2016-2020 to 2031-2035. Demand is also shown with replacement as a % of total demand to 2050.

- ◆ **Transmission and distribution networks and lines**

Growth of the transmission and distribution networks is charted globally from 1900 to 2015. Installed transmission and distribution line lengths are tabulated annually. This analysis is provided globally, regionally and for 216 countries.

- ◆ **Demand for T&D lines**

Annual demand for T&D lines is analysed by new and replacement installations globally, by regions and for 216 countries, in five year segments from 2016-2020 to 2031-2035. Demand is also shown with replacement as a % of total demand to 2050.

◆ Voltage analysis

The global network base for transmission is analysed by region in four voltage groups – 35-89 kV, 90-199 kV, 200-329 kV, ≥300 kV, and subsea. Distribution is analysed by region and four groups – MV OH, MV UG, LV OH, LV UG and subsea. Transmission and distribution are not defined by voltage but by function and there are considerable variations around the world as to the point of hand-over. A table demonstrates the substantial differences in Europe.

- Global transmission lines km by regions and voltage category
- Global distribution lines km by regions and voltage category
- Voltage categories of European DSOs

◆ Analysis of utilities

There are just over 135,000 electricity, gas and water & waste utilities in the world; 11,000 electricity, 5,000 gas and 119,000 water & waste. With numbers like these the range in size is huge, especially for water. The 11,000 electrical utilities are the core of the power sector, the 124,000 gas and water & waste utilities consume a lot of energy and except for smallest water distributors they mostly generate it themselves. The 11,000 electrical utilities are the primary constituents of the power sector, the 124,000 gas and water & waste utilities are secondary. The utilities have developed in diverse ways in the regions of the world. In almost every country, whatever the utility structure, state-controlled, mixed or wholly liberalised, there are independent power producers, IPPs, generating power for sale to the grid or specific customers. The 11,000 electrical utilities are analysed by region and major country, with a breakdown of public/private ownership.

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