

NRG Expert Transmission and Distribution Database Edition 7, 2017

Market Intelligence

T&D networks are continuously evolving in both size and nature. They must grow in order to cope with ever rising demand. In the past where it was a matter of adding more lines, transformers and ancillary equipment, today the technology of the systems is often able to substitute increased sophistication for physical growth, or to reduce the additions required by making the system more efficient.

This NRG Expert Database allows you to make key business decisions based on our forecasts and analysis of the Electricity T&D Market. Our team of analysts, backed by the vast data we have collected, have created this industry analysis and forecasted data to 2021 for key sectors of the industry.

The Database

The database is the main focus of the product and as such contains the important forecast information and current figures. The database consists of 1 **Global Data Summary** and 9 individual **Region** Microsoft® Excel (.xlsx) files.

Global Data Summary

The **Global Data Summary** file contains three tabs:

- Annual Demand
- Line Lengths
- Capex

The *Annual Demand* tab shows a regional and by-country overview of the annual demand 2016 actual figures and forecasts for 2017-2021 in 2016 United States Dollars (USD) as broken down into the 9 sectors defined by NRG Expert: Transformers, Power Systems, Utility Automation, Cables, Switchgear, Sub-Station, Towers, Insulators, and Meters. Scroll right in the spreadsheet to access all sectors.

The *Line Lengths* tab gives a global overview of the total installed line lengths in both the Transmission and Distribution categories separately. The year 2016 shows actual figures with forecasts from 2017-2021.

The *Capex* tab follows a similar format as the Annual Demand tab and shows Capital Expenditure in the T&D industry by region and by country presenting 2016 actual and 2017-2021 forecast figures in 2016 USD.

Region Files

Each region file contains a tab with *T&D Company Listings* for that country, a breakdown of the *Annual Demand* and *Capex* figures of countries of that region (mirroring the data contained in the *Global Data Summary*) followed by individual tabs for each country in the region.

Country Profiles

NRG Expert has compiled data in the T&D Sector for **180 countries** broken down into 9 regions. The country profiles contain¹:

- Transmission² and Distribution line-length (installed KMs) data:
- Capex (2016 actuals forecast to 2021 in 2016USD) data:
- Annual Demand (2016 actuals forecast to 2021 in 2016 USD) data:
- Generation Capacity (Installed MW Capacity) data:
- Voltage Breakdown and Overhead Underground Analysis
- Network Maps
- Listings of Grid Interconnections

¹ Please see the *Countries Covered in the Database* section for more information on the data that is available for each country

² Where applicable

Countries Covered in the Database

Note: A circle (o) denotes that the data set is included. An asterisk (*) denotes that the data may be partially available or in a non-standard format. A dash (-) means that we do not have data for this category, in the country listed.

Country	Annual Demand											Generation Capacity	Voltage	Transmission OH/UG	Distribution OH/UG	Reticulation OH/UG	Network Map	Grid Interconnections	
	Trans. Inst. Base	Dist. Inst. Base	Capex	Transformers	Switchgear	Cables	Insulators	Towers	Utility Automation	Power systems	Substations								Meters
Afghanistan	o	o	o	o	o	o	o	-	o	o	o	o	o	o	-	o	o	o	-
Albania	o	o	o	o	o	o	o	o	o	o	o	o	o	o	-	o	o	o	-
Algeria	o	o	o	o	o	o	o	o	o	o	o	o	o	o	-	*	*	-	o
Angola	o	o	o	o	-	o	o	o	o	o	o	o	o	-	-	-	-	-	-
Argentina	o	o	o	o	o	o	o	o	o	o	o	o	o	o	-	*	*	-	-
Armenia	o	o	o	o	o	o	o	o	o	o	o	o	o	o	-	o	o	o	o
Australia	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	-	-
Austria	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
Azerbaijan	o	o	o	o	o	o	o	o	o	o	o	o	o	o	-	o	o	o	o
Bahamas	o	o	o	o	o	-	-	-	-	o	o	-	o	-	-	-	-	-	-
Bahrain	o	o	o	o	o	o	-	o	o	o	-	o	o	-	o	o	-	-	
Bangladesh	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	-
Barbados	o	o	o	-	o	-	-	-	-	-	-	o	-	-	-	-	-	-	-
Belarus	o	o	o	o	o	o	o	o	o	o	o	o	o	o	-	*	*	o	o
Belgium	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
Belize	o	o	o	-	o	-	-	-	-	-	-	o	-	-	-	-	-	-	-
Benin	o	o	o	o	o	o	o	o	o	-	-	o	o	-	-	-	-	-	-
Bhutan	o	o	o	-	-	-	-	-	-	-	-	o	-	-	-	-	o	-	
Bolivia	o	o	o	o	o	o	o	-	o	o	o	o	o	-	-	-	-	-	-
Bosnia & Herzegovina	o	o	o	o	o	o	o	o	o	o	o	o	o	o	-	-	o	-	-
Botswana	o	o	o	o	o	o	o	o	o	o	o	o	o	-	-	-	-	-	-
Brazil	o	o	o	o	o	o	o	o	o	o	o	o	o	o	-	o	o	-	-
Brunei	o	o	o	o	-	o	-	-	o	o	o	-	o	-	-	-	-	o	-
Bulgaria	o	o	o	o	o	o	o	o	o	o	o	o	o	o	-	o	o	o	o
Burkina Faso	o	o	o	-	-	-	-	-	o	o	o	o	o	-	-	-	-	-	-
Burundi	o	o	o	o	o	o	o	o	o	o	o	o	o	-	-	-	-	-	-
Cambodia	o	o	o	o	-	o	o	o	o	o	-	o	-	-	-	-	o	-	-
Cameroon	o	o	o	o	-	o	o	o	o	o	o	o	o	-	-	-	-	-	-
Canada	o	o	o	o	o	o	o	o	o	o	o	o	o	o	-	-	-	-	-
Central African Republic	o	o	o	o	o	o	o	o	o	o	o	o	o	-	-	-	-	-	-

Country	Annual Demand												Generation Capacity	Voltage	Transmission OH/UG	Distribution OH/UG	Reticulation OH/UG	Network Map	Grid Interconnections
	Trans. Base	Inst. Base	Capex	Transformers	Switchgear	Cables	Insulators	Towers	Utility Automation	Power systems	Substations	Meters							
Chad	0	0	0	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	
Chile	0	0	0	0	-	0	0	0	0	0	0	0	0	-	-	-	-	-	
China	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	*	*	-	
Colombia	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	
Congo	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	
Congo DR	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	
Costa Rica	0	0	0	0	0	0	0	-	0	0	0	0	0	-	-	-	-	-	
Côte d'Ivoire	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	
Croatia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	
Cuba	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	
Cyprus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Czech Republic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	
Denmark	0	0	0	0	0	0	0	0	0	0	0	0	0	*	0	0	0	0	
Djibouti	0	0	0	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	
Dominican Republic	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	
Ecuador	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	
Egypt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	-	
El Salvador	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	
Equatorial Guinea	-	0	0	-	0	-	-	-	-	-	-	0	0	-	-	-	-	-	
Estonia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	
Ethiopia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	0	
Fiji	0	0	0	-	-	0	0	-	0	0	0	-	0	-	-	-	-	-	
Finland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
France	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
French Guyana	0	0	0	-	-	-	-	-	-	-	-	0	-	-	-	-	-	-	
Gabon	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	
Gambia	0	0	0	0	-	0	0	0	0	0	0	0	0	-	-	-	-	-	
Georgia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	*	*	0	
Germany	0	0	0	0	0	0	0	0	0	0	0	0	0	*	0	0	0	0	
Ghana	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	
Greece	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Guadeloupe	0	0	0	0	0	-	-	-	-	-	0	-	0	-	-	-	-	-	
Guatemala	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	
Guinea	0	0	0	-	0	-	-	-	-	-	-	0	0	-	-	-	-	-	
Guinea Bissau	-	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	
Guyana	0	0	0	-	-	-	-	-	-	0	-	-	0	-	-	-	-	-	

Country	Annual Demand												Generation Capacity	Voltage	Transmission OH/UG	Distribution OH/UG	Reticulation OH/UG	Network Map	Grid Interconnections
	Trans. Base	Inst. Base	Dist. Base	Capex	Transformers	Switchgear	Cables	Insulators	Towers	Utility Automation	Power systems	Substations							
Haiti	0	0	0	0	-	-	0	-	-	-	0	0	0	-	-	-	-	-	
Honduras	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	
Hong Kong	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	
Hungary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	*	*	0	
Iceland	0	0	0	0	0	0	0	0	0	0	0	0	0	*	-	-	-	0	
India	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	0	
Indonesia	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	*	*	0	
Iran	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	
Iraq	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	
Ireland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Israel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	
Italy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jamaica	0	0	0	0	0	0	0	-	0	0	0	0	0	-	-	-	-	-	
Japan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jordan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	-	
Kazakhstan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	0	
Kenya	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	
Korea - North	0	0	0	0	-	0	0	0	0	0	0	0	0	-	-	-	-	0	
Korea - South	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	*	*	0	
Kuwait	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	
Kyrgyzstan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	*	*	0	
Laos	0	0	0	-	-	0	-	-	-	-	-	0	0	0	-	*	*	-	
Latvia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lebanon	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	
Lesotho	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	
Liberia	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	
Libya	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	-	
Lithuania	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Luxembourg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	
Macao	0	0	0	0	0	0	-	-	0	0	0	-	0	-	-	-	-	-	
Macedonia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	*	*	0	
Madagascar	0	0	0	0	-	0	0	0	0	0	0	0	0	-	-	-	-	-	
Malawi	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	
Malaysia	0	0	0	0	0	0	0	0	0	0	-	0	0	0	*	*	-	-	
Maldives	-	0	0	-	-	-	-	-	-	-	-	-	0	-	-	-	-	-	
Mali	0	0	0	0	-	0	0	0	0	0	0	0	0	-	-	-	-	-	
Malta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	*	*	0	

Country	Annual Demand												Generation Capacity	Voltage	Transmission OH/UG	Distribution OH/UG	Reticulation OH/UG	Network Map	Grid Interconnections
	Trans. Inst. Base	Dist. Inst. Base	Capex	Transformers	Switchgear	Cables	Insulators	Towers	Utility Automation	Power systems	Substations	Meters							
Mauritania	0	0	0	-	0	-	-	-	-	-	-	0	0	-	-	-	-	-	
Mauritius	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	
Mexico	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	*	*	-	
Moldova	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*	0	
Mongolia	0	0	0	0	0	0	0	-	0	0	0	-	0	-	-	-	-	-	
Morocco	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	0	
Mozambique	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	
Myanmar	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	
Namibia	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	
Nepal	0	0	0	-	-	0	-	-	-	0	0	0	0	-	-	-	0	-	
Netherlands	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Netherlands Antilles	0	0	0	0	0	-	-	-	-	-	0	-	0	-	-	-	-	-	
New Caledonia	0	0	0	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	
New Zealand	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	-	
Nicaragua	0	0	0	0	0	0	0	-	0	0	0	0	0	-	-	-	-	-	
Niger	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	
Nigeria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	*	*	-	
Norway	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	
Oman	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	
Pakistan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*	0	
Panama	0	0	0	0	0	0	-	-	0	0	0	0	0	-	-	-	-	-	
Papua New Guinea	0	0	0	0	0	0	0	0	0	0	0	-	0	-	-	-	-	-	
Paraguay	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	
Peru	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	
Philippines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	0	
Poland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	
Portugal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Puerto Rico	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	
Qatar	0	0	0	0	0	0	-	-	0	0	0	-	0	0	0	-	-	-	
Romania	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	*	*	0	
Russia	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	0	
Rwanda	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	
Sao Tome & Principe	0	0	0	0	-	0	0	-	0	0	0	0	0	-	-	-	-	-	
Saudi Arabia	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	-	-	0	
Senegal	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	

Country	Annual Demand												Generation Capacity	Voltage	Transmission OH/UG	Distribution OH/UG	Reticulation OH/UG	Network Map	Grid Interconnections
	Trans. Inst. Base	Dist. Inst. Base	Capex	Transformers	Switchgear	Cables	Insulators	Towers	Utility Automation	Power systems	Substations	Meters							
Serbia & Montenegro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	*	*	0	0
Seychelles	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-
Sierra Leone	0	0	0	-	0	-	-	-	-	-	-	0	0	-	-	-	-	-	-
Singapore	0	0	0	0	0	0	0	-	0	0	0	0	0	0	-	0	0	-	-
Slovakia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	0	0
Slovenia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	*	*	0	0
Solomon Islands	0	0	0	-	-	-	-	-	-	-	-	-	0	-	-	-	-	-	-
Somalia	0	0	0	-	0	-	-	-	-	-	-	0	0	-	-	-	-	-	-
South Africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	-	-
Spain	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	*	*	0	0
Sri Lanka	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-
St. Lucia	0	0	0	-	0	-	-	-	-	-	-	-	0	-	-	-	-	-	-
Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-
Suriname	0	0	0	0	0	-	-	-	-	0	0	-	0	-	-	-	-	-	-
Swaziland	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-
Sweden	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-
Switzerland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*	0	-
Syria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	0
Taiwan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	-
Tajikistan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	*	*	-	-
Tanzania	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-
Thailand	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	0	-
Togo	0	0	0	0	-	0	0	0	0	0	0	0	0	-	-	-	-	-	-
Tonga	0	0	-	-	-	-	-	-	-	-	-	-	0	-	-	-	-	-	-
Trinidad & Tobago	0	0	0	0	0	0	-	-	0	0	0	-	0	-	-	-	-	-	-
Tunisia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	0
Turkey	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	*	*	0	0
Turkmenistan	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-
Uganda	0	0	0	0	-	0	0	0	0	0	0	0	0	-	-	-	-	-	-
Ukraine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
United Arab Emirates	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-
United Kingdom	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Country	Annual Demand												Generation Capacity	Voltage	Transmission OH/UG	* Distribution OH/UG	* Reticulation OH/UG	Network Map	Grid Interconnections
	Trans. Inst. Base	Dist. Inst. Base	Capex	Transformers	Switchgear	Cables	Insulators	Towers	Utility Automation	Power systems	Substations	Meters							
United States of America	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	*	*	-	-
Uruguay	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-
Uzbekistan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	*	*	-	0
Venezuela	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-
Vietnam	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	*	*	-	-
Western Samoa	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-
Zambia	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-
Zimbabwe	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	0



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