

NRG Expert

Transmission and Distribution

Database

Edition 9, 2019

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 2023 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 2018 actual figures and forecasts for 2019-2023 in 2018 United States Dollars (USD) as broken down into the 9 sectors defined by NRG Expert: Transformers, Power Systems, Utility Automation, Cables, Switchgear, Sub-Stations, 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 2018 shows actual figures with forecasts from 2019-2023.

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 2018 actual and 2019-2023 forecast figures in 2018 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 (2018 actuals forecast to 2023 in 2018 USD) data:
- Annual Demand (2018 actuals forecast to 2023 in 2018 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 | | | | | | | | | | | | | | Grid Interconnections | | | |
|--------------------------|-------------------|------------------|-------|--------------|------------|--------|------------|--------|--------------------|---------------|-------------|--------|---------------------|---------|-----------------------|--------------------|--------------------|-------------|
| | Trans. Inst. Base | Dist. Inst. Base | Capex | Transformers | Switchgear | Cables | Insulators | Towers | Utility Automation | Power systems | Substations | Meters | Generation Capacity | Voltage | Transmission OH/UG | Distribution OH/UG | Reticulation OH/UG | Network Map |
| Afghanistan | 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 | |
| Algeria | 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 | - | * | * | - | |
| Armenia | 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 | - | |
| Austria | 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 | |
| Bahamas | o | o | o | o | o | - | - | - | o | o | - | o | - | - | - | - | - | |
| Bahrain | o | o | 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 | |
| Barbados | o | o | o | - | o | - | - | - | - | - | - | o | - | - | - | - | - | |
| Belarus | 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 | |
| Belize | o | o | o | - | o | - | - | - | - | - | - | o | - | - | - | - | - | |
| Benin | o | o | o | o | o | o | o | o | o | - | - | o | o | - | - | - | - | |
| Bermuda | 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 | o | - | - | - | - | |
| Bosnia & Herzegovina | 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 | - | |
| 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 | |
| Burkina Faso | o | o | o | - | - | - | - | o | o | o | o | o | o | - | - | - | - | |
| Burundi | o | o | - | o | o | o | o | o | o | o | o | o | o | - | - | - | - | |
| Cambodia | o | o | o | o | - | o | o | o | o | o | o | - | o | o | - | - | o | |
| Cameroon | 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 | - | - | - | - | |
| Central African Republic | o | o | o | o | o | o | o | o | o | o | o | o | o | - | - | - | - | |
| Chad | - | o | - | - | - | - | - | - | - | - | - | o | o | - | - | - | - | |



| Country | Annual Demand | | | | | | | | | | | | | | Grid Interconnections | | | |
|--------------------|-------------------|------------------|-------|--------------|------------|--------|------------|--------|--------------------|---------------|-------------|--------|---------------------|---------|-----------------------|--------------------|--------------------|-------------|
| | Trans. Inst. Base | Dist. Inst. Base | Capex | Transformers | Switchgear | Cables | Insulators | Towers | Utility Automation | Power systems | Substations | Meters | Generation Capacity | Voltage | Transmission OH/UG | Distribution OH/UG | Reticulation OH/UG | Network Map |
| Chile | 0 | 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 | - | * | * | - | - |
| 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 | 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 | 0 |
| Djibouti | 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 | 0 |
| El Salvador | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | - | - | - |
| Equatorial Guinea | - | 0 | - | - | 0 | - | - | - | - | - | 0 | 0 | - | - | - | - | - | - |
| Estonia | 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 | - | - | - | - | - |
| Eswatini | 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 | - | - | - | - | - | - |
| 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 | - | - | - | - | - |
| Georgia | 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 | - | - | - | - | - | - |
| Guinea Bissau | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | - | - | - |
| Guyana | 0 | 0 | 0 | - | - | - | - | - | 0 | - | - | 0 | - | - | - | - | - | - |



| Country | Annual Demand | | | | | | | | | | | | | | | | | |
|---------------|-------------------|------------------|-------|--------------|------------|--------|------------|--------|--------------------|---------------|-------------|--------|---------------------|---------|--------------------|--------------------|--------------------|-------------|
| | Trans. Inst. Base | Dist. Inst. Base | Capex | Transformers | Switchgear | Cables | Insulators | Towers | Utility Automation | Power systems | Substations | Meters | Generation Capacity | Voltage | Transmission OH/UG | Distribution OH/UG | Reticulation OH/UG | Network Map |
| Haïti | 0 | 0 | 0 | - | - | - | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | - |
| Honduras | 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 | - |
| Indonesia | 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 | - |
| 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 | - | - | - | - | - |
| 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 | - | - |
| Kazakhstan | 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 | - | - |
| 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 | - |
| 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 | - |
| Macau | 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 | - | - | - | - | - | - | - |
| 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 | - |
| Mauritania | - | 0 | 0 | - | 0 | - | - | - | - | - | 0 | 0 | - | - | - | - | - | - |
| Mauritius | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | - | - | - |



| Country | Annual Demand | | | | | | | | | | | | | | | | | |
|--------------------------------|-------------------|------------------|-------|--------------|------------|--------|------------|--------|--------------------|---------------|-------------|--------|---------------------|---------|--------------------|--------------------|--------------------|-------------|
| | Trans. Inst. Base | Dist. Inst. Base | Capex | Transformers | Switchgear | Cables | Insulators | Towers | Utility Automation | Power systems | Substations | Meters | Generation Capacity | Voltage | Transmission OH/UG | Distribution OH/UG | Reticulation OH/UG | Network Map |
| Mexico | 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 | 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 |
| 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 | - | - | - | - | - |
| Nepal | 0 | 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 | - | - | - | - | - | - |
| New Caledonia | 0 | 0 | 0 | - | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| New Zealand | 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 | - | * | * | - | - |
| Norway | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| North Macedonia | 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 | - | - |
| Pakistan | 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 | 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 | - | - |
| 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 | 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 | - | * | * | - | - |
| Sao Tome & Principe | 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 | | | | | | | | | | | | | | | | | | |
|---------------------------------|-------------------|------------------|-------|--------------|------------|--------|------------|--------|--------------------|---------------|-------------|--------|-----------------------|-----------|----------------------|----------------------|----------------------|---------------|-------------------------|
| | Trans. Inst. Base | Dist. Inst. Base | Capex | Transformers | Switchgear | Cables | Insulators | Towers | Utility Automation | Power systems | Substations | Meters | * Generation Capacity | o Voltage | - Transmission OH/UG | * Distribution OH/UG | * Reticulation OH/UG | o Network Map | o Grid Interconnections |
| Serbia & Montenegro | 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 | - | - | - | - | - | - |
| Sierra Leone | - | 0 | - | - | 0 | - | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - |
| Singapore | 0 | 0 | 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 | - | - | - | - | - | - |
| South Africa | 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 | 0 | 0 | - | - |
| St. Lucia | 0 | 0 | 0 | - | 0 | - | - | - | - | - | - | 0 | - | - | - | - | - | - | - |
| Sudan & South Sudan | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * | - | - | - | - | - | - |
| Suriname | 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 | - | - | - |
| Syria | 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 | - | - |
| Tajikistan | 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 | - | - |
| 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 | - | - |
| 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 | - | - | - | - | - | - |
| United Kingdom | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| United States of America | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * | - | 0 | * | * | - | - |
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