



northeast group, llc

Global Electricity Transmission and Distribution Infrastructure Dataset (2016 – 2026)

Transmission and distribution substations

Transmission and distribution power lines and equipment

Distribution Automation (DA):

Substation automation

Fault detection, isolation, and restoration (FDIR) schemes

Volt/VAR optimization (VVO)

Additional grid monitoring and control infrastructure

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Global Electricity T&D Infrastructure Dataset (2016 – 2026)

The global transmission and distribution infrastructure market currently represents \$282 billion in annual investment, split between traditional infrastructure (transmission and distribution substations and power lines) and smart infrastructure (distribution automation), as well as new and replacement equipment. Traditional infrastructure currently makes up 92% of total new annual investment, but smart infrastructure investment will rise to over 17% of total new T&D infrastructure investment by 2026 (it will make up a smaller percentage when investment in replacement infrastructure is considered). This dataset of over 80,000 data points covers 125 individual countries that comprise 98% of the global market. It projects the evolution of this market across the globe with concrete quantitative data.

France	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total substations	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X
<i>New transmission substations</i>	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X
<i>New distribution substations</i>	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X
<i>Replacement transmission substations</i>	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X
<i>Replacement distribution substations</i>	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X
Total km transmission lines	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X
<i>New km overhead transmission</i>	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X
<i>New km underground transmission</i>	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X
<i>Replacement km overhead transmission</i>	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X
<i>Replacement km underground transmission</i>	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X
Total km distribution lines	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X
<i>New km overhead distribution</i>	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X
<i>New km underground distribution</i>	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X
<i>Replacement km overhead distribution</i>	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X
<i>Replacement km underground distribution</i>	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X
Total distribution automation investment	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X
<i>Substation automation</i>	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X
<i>FDIR</i>	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X
<i>VVO</i>	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X
<i>Additional grid monitoring & control</i>	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X

Compiled from Primary Sources

This dataset was compiled from primary sources. Northeast Group compiled primary sources from each of the 125 countries in order to build a bottom-up analysis of the global market. This ensures that the data is not a top-down estimate, compiled on a regional or global basis, but rather a country-by-country and segment-by-segment analysis that provides a detailed and exhaustive picture of the global market.

Data Split by Segment

The data is broken down into several segments, including 54 total lines of data for each country:

- Transmission and distribution substations;
- Transmission and distribution power lines – split between overhead and underground;
- Distribution automation: substation automation, FDIR, Volt/VAR optimization, and additional grid monitoring and control infrastructure;
- Splits by annual and cumulative investment; and
- Splits by new and replacement infrastructure.

Forecasts to 2026

Northeast Group has projected the electricity T&D market out to 2026 for each of the 125 countries and for each segment of the market. These forecasts are compiled from primary source data run through Northeast Group’s proprietary forecasting models.

Excel Format Allowing for Customization + PowerPoint Summary

The dataset is compiled in Excel, allowing for easy data manipulation and customization by clients. An executive summary PowerPoint presentation is also included as part of the research package.

Order Form – Global Electricity T&D Infrastructure Dataset (2016-2026)

Pricing

\$9,995 Dataset in Excel + Executive Summary PowerPoint Presentation

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