



# GLOBAL UTILITY TRANSMISSION INVESTMENT REPORT, 2021-2030

The third edition of Global Utility Transmission Investment Report released in May 2021 examines capital expenditure (capex) trends over the last ten years and provides a detailed analysis of planned capex or expected investment by 2030 in the transmission sectors of 75 countries across the globe. This analysis covers capex or investment for both new build and renovation and modernisation as well as line-related and station-related investments.

The report has four distinct sections.

**Part 1** provides the executive summary of the report

**Part 2** provides analysis of the past and future capex trends at a global level. It examines trends in utilities' past investment by type and region. It also captures the key drivers for future investment and analyse plans by type and region. It also highlights the focus areas of utility investments and discusses the impact of COVID-19 on transmission investment. The report also analyses the recent trends in transmission financing.

**Part 3** provides an analysis of the historical and future capex trends for 75 countries. These countries are organised into six regions: North America, Latin America, Asia Pacific, Europe, Middle East and Africa. Each section on the six regions begin with a regional analysis on the historical and future capex and key expected investment drivers in that region.

This report is indispensable for any organisation interested in the global high voltage transmission industry - utilities, system operators, equipment manufacturers and suppliers, EPC contractors, service and technology providers, investors/lenders, research organisations, industry consultants, regulatory agencies, development institutions, etc.

The report is available in a PPT and excel database format. It is priced at USD5,000.

Each regional and country profile contains the following analysis:

- ❖ Historical capex trends
- ❖ Expected investment by type
  - New build
  - Renovation and modernisation or rebuild
  - Line-related (conductors, towers, poles, etc.)
  - Station-related (substations, transformers, etc.)
  - Other (IT, communications, smart grid, etc.)
  - Key initiatives and programmes

**Part 4** comprises the appendix. It includes a note on sources and methodology and list of acronyms.

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## Sources and Methodology

Global Transmission Research's industry analysts have utilised various primary and secondary research sources in preparing this report.

Primary sources include data and statistics obtained through telephone and email questionnaires sent to various utilities, transmission companies, transmission system operators and industry regulators. Extensive secondary research has been conducted by our analysts and research associates. These secondary sources include, but was not be limited to, websites of utilities; annual reports and financial reports of utilities; investor presentations; analyst reports; government documents, plans and statistical databases; websites of relevant ministries and regulators; websites of relevant industry associations; internal and external proprietary databases; news articles; and press reports. Wherever applicable, all research sources are appropriately cited within this report.

These primary and secondary research sources, combined with our industry expertise, have been synthesised into the qualitative and quantitative analysis which has been presented in this report. The historical capex data are actual figures obtained from the concerned utilities and ministries. In a few cases, where this data was not available, we have used estimates based on information obtained from press/analyst reports or those based on past growth trends. For analysis of the expected investment, we have extensively researched the plan documents of various utilities and governments. Wherever these plans were not available, we have derived the projections based on past growth trends or based on projects planned by the utilities.

The future capital expenditure investment numbers include investments on both new build and renovation and modernisation projects. Also, in several countries, updated transmission plans were released in 2020 with revised investment figures. Hence the expected investment numbers mentioned in this report may vary from investment numbers mentioned in our previous reports.

Please note that our data may have a  $\pm 5\%$  error margin due to lack of clear capex or investment break-up for many utilities. In some cases, totals may not match due to data being rounded off.

Great care has been taken to ensure that all analysis is well supported by facts. Where facts are not available and assumptions are made, we have explained our assumptions and our methods of estimation.

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Global Transmission Research is a leading provider of information and analysis on the global electricity transmission industry. We publish newsletters and reports. We also organise conferences on crucial issues and topical themes relevant to the transmission industry. We publish the Global Transmission Report (a monthly newsletter) and the Global Transmission Weekly (a weekly update). We also operate the website [www.globaltransmission.info](http://www.globaltransmission.info). These products and services provide information on all the key developments, trends and issues in the sector. We have published several industry-focused research studies such as the Global Electricity Transmission Report, Global High Voltage Transmission Line Projects Report, Global Electricity Transmission Equipment Market Report, Global Electricity TSO Profiles Report, etc.

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