The electricity transmission sector in the US is set for very significant growth. The federal government has announced ambitious targets of achieving 100 per cent carbon-free electricity by 2035 and 30 GW of offshore wind energy by 2030. Expansion and modernisation of the nation's aging and integration of the regionally siloed electric transmission system will be critical to accommodate increasing levels of renewable energy. The federal government’s recent legislation and funding support to modernise electricity grids, reduce congestion, and fast-track permitting will help create the needed grid infrastructure. Utilities are also gearing up to meet the clean energy challenge by formulating plans to improve the system resilience, security, and hardening to withstand adverse weather.

The Electricity Transmission in the US Report released in June 2022 analyses the historical network growth and future network development and investment plans. It provides an overview of the industry structure and discusses the policy and regulatory developments impacting grid investments, including offshore wind energy. The report profiles the leading transmission players, compares their financial performance and discusses their growth plans. It also includes a detailed and up-to-date database of upcoming transmission projects in the US.

The report has five distinct sections.

Part 1 is the executive summary.

Part 2 analyses the performance of the US’ electric transmission industry over the five years (2017–21) and presents investment forecasts and expected network growth for 2022–26. It assesses the key policy and regulatory developments and trends shaping the sector. It covers the following topics:

- Industry structure and key players
- Sector size and growth
- Policy and regulatory developments
- Network growth and investment outlook
- Focus on offshore wind transmission

Part 3 provides the detailed profiles of the top 30 transmission players and compares their network growth and financial performance. Each TSO profile includes:

- Size and growth in the transmission network, 2017–21
- Key operational indicators, 2017–21
- Key financial indicators, 2017–21
- Future plans and investment, 2022–26
- Key planned projects
- Recent contracts
- Key contacts

Part 4 consists of a database of key upcoming transmission projects (~160 projects). This section also analyses the project database in terms of voltage level, technology, type and status. For each project, the following information is provided:

- Description
- Developer(s)
- Route
- Rated voltage (kV)
- Technology (AC or DC)
- Type of project (new build, upgrade, expansion, extension)
- Line length (km)
- Substation capacity (MVA)
- Estimated cost
- Current status (announced/under development/under contractor selection/under construction)
- Key contractors
- Scheduled completion
- Contact details

Part 5 comprises the appendix. It includes a note on sources and methodology and list of abbreviations.

This report and database are indispensable for any organisation interested in the US’ 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 PDF format and database in Excel.

The package is priced at USD3,000. There is also an 'early bird' discount – the price is USD2,700 (10 per cent discount) for orders and payments received on or before July 15, 2022.

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# Table of Contents

## PART 1 EXECUTIVE SUMMARY

## PART 2 SECTOR TRENDS, GROWTH AND INVESTMENT ANALYSIS

### 2.1 Industry structure and key players
- Industry structure
- Regulatory framework and key institutions
- Jurisdictional roles in electricity industry
- Key industry associations
- Transmission market structure and key players

### 2.2 Sector size and growth
- Industry structure
- Line length by voltage (kV)
- Line length by technology (AC and DC)
- Growth in capital expenditure, 2017–21

### 2.3 Policy and regulatory developments
- Overview of key policy and regulatory announcements
- Climate goals and net zero emissions targets
- Federal-level initiatives for grid expansion
- Key RTO/ISO-level initiatives for transmission

### 2.4 Network growth and investment outlook
- Key growth drivers
- Future demand and expected generation mix, by 2026
- Expected transmission network expansion
- Transmission line length addition, 2022–26
- Forecasted investment in the transmission network, 2022–26
- Investment plans of leading TSOs

### 2.5 Focus on offshore wind transmission
- Offshore wind plans and targets
- Policy and regulatory announcements at federal level
- Offshore wind and transmission developments in key states
- Upcoming offshore wind capacity and transmission projects

## PART 3 KEY TRANSMISSION PLAYERS AND THEIR PERFORMANCE (TOP 30 TSOs)

### 3.1 Trends in performance of leading TSOs
- Overview
- Growth in transmission network Line length
- Financial performance
  - Revenue
  - Net profits
  - Return on equity
  - Debt to equity ratio
  - Profit margin
  - Trends in past capex

### 3.2 TSO Profiles
- Ameren Corporation
- American Electric Power (AEP)
- American Transmission Company (ATC)
- Bonneville Power Administration (BPA)
- CentrePoint Energy
- Consolidated Edison (Con Edison)
- Dominion Energy
- Duke Energy
- Entergy Corporation
- Evergy Incorporated
- Exelon Corporation
- FirstEnergy Corporation
- ITC Holdings
- MidAmerican Energy Company
- National Grid USA
- New York Power Authority (NYPA)
- NextEra Energy
- NorthWestern Energy
- NV Energy
- Oklahoma Gas and Electric Company (OG&E)
- Oncor Electric Delivery
Table of Contents

- Pacific Gas and Electric Corporation (PG&E) 148
- PacifiCorp 151
- PNM Resources 155
- PPL Corporation 157
- Public Service Electric & Gas (PSE&G) 160
- Southern California Edison (SCE) 163
- Southern Company 166
- Tennessee Valley Authority (TVA) 169
- Xcel Energy 172

Each TSO profile includes:
- Size and growth in the transmission network, 2017–21
- Key operational indicators, 2017–21
- Key financial indicators, 2017–21
- Future plans and investment, 2022–26
- Key planned projects
- Recent contracts
- Key contacts

PART 4   UPCOMING TRANSMISSION PROJECTS (~160 PROJECTS)175

4.1 Analysis of upcoming project pipeline 176
- Overview 177
- Project pipeline analysis 178
  - by voltage level 179
  - by technology 180
  - by type of project 181
  - by type of line 182
  - by status 183

4.2 Upcoming projects database (Excel format)

The database provides detailed information on high-voltage transmission line and substation projects expected to come up in the US over the next decade. For each project, the following information will be provided:
- Description
- Developer (s)
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, regional transmission operators, state utility commissions, regulators and industry associations. 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, agencies and associations. 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 the government. 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.

To ensure comparability of financial ratios across utilities, we have adopted specific formulae for estimating these ratios for all utilities. Hence, the financial ratios estimated in the report may not match with those mentioned by utilities in their annual/financial reports. In some cases, totals may not match due to data being rounded off.

Please note that our data may have a ±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.

About the Publishers

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. 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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