

# GLOBAL ELECTRICITY TRANSMISSION REPORT, 2024

The 7th Edition of the **Global Electricity Transmission Report** released in November 2023, analyses the growth and investment opportunities in the high-voltage electricity transmission sectors of 95 countries. It includes key trends, developments, latest data, and statistics (from 2006 to 2022) and offers growth projections up to 2032. The report focuses on the high-voltage transmission segment of 110 kV and above levels.

The 765-page report has five distinct sections.

**Part 1** provides an introduction to the report and includes the Executive Summary with key findings.

**Part 2** of the report provides an analysis of the performance of the global high-voltage electricity transmission industry over the last decade and presents forecasts and expected growth for 2023-32. It assesses the developments and trends shaping the industry, examines the key growth drivers, and provides an outlook and forecast for the industry at the global and regional levels.

**Part 3** of the report comprises detailed profiles of the 95 countries. These countries are organised into six regions - North America, Latin America, Asia, Europe, the Middle East, and Africa. The report covers 2 countries in North America; 14 countries in Latin America; 18 countries in Asia; 34 countries in Europe; 19 countries in Africa; and 8 countries in the Middle East.

Each country profile has data and analysis on:

- Industry structure, institutional structure, and key players
- Existing generation capacity and production, 2006 to 2022
- Forecasted demand and addition to generation capacity by 2032

- Transmission network and capacity for 2006 to 2022
  - Line length by voltage level, technology (AC and DC), and type of line (overhead, underground, and undersea)
  - Transformer capacity
  - Number of substations/transformers
  - Line length of key transmission companies
- Forecasted growth in transmission network and capacity by 2032
  - Line length by voltage, technology (AC and DC), and type of line (overhead, underground, and undersea)
  - Transformer capacity
- Forecasted investment in the transmission network

**Part 4** of the report comprises the appendix and provides sources, methodology, and a list of abbreviations.

**Part 5** of the report comprises a database with detailed data and statistics at the global, regional, and country levels since 2006, and forecasts for the period 2023-32 in a tabular format.

Part 1-4 of the report is available in a PowerPoint format (converted to PDF) and Part 5 is an Excel database.

This report and database are 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 institutes, industry consultants, regulatory agencies, etc.

The package is priced at USD5,400.

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# Table of Contents

<b>PART 1: EXECUTIVE SUMMARY</b>	<b>13</b>	<b>3.3 Asia Pacific</b>	<b>176</b>
<b>PART 2: GLOBAL AND REGIONAL TRANSMISSION SECTOR GROWTH AND INVESTMENT ANALYSIS</b>	<b>16</b>	3.3.1 Australia	177
2.1 Introduction	17	3.3.2 Bangladesh	186
2.2 Recent trends and development	18	3.3.3 Bhutan	194
2.3 Key growth drivers	21	3.3.4 Cambodia	201
2.4 Existing state of and forecasted growth in the global transmission industry	26	3.3.5 China	208
2.5 Forecasted investment in transmission network by region	35	3.3.6 India	215
2.6 Outlook	37	3.3.7 Indonesia	224
<b>PART 3: COUNTRY-LEVEL ANALYSIS</b>	<b>41</b>	3.3.8 Japan	231
<b>3.1 North America</b>	<b>42</b>	3.3.9 Kazakhstan	239
3.1.1 Canada	43	3.3.10 Laos	246
3.1.2 USA	53	3.3.11 Malaysia	252
<b>3.2 Latin America</b>	<b>68</b>	3.3.12 Nepal	259
3.2.1 Argentina	69	3.3.13 New Zealand	267
3.2.2 Bolivia	75	3.3.14 Pakistan	273
3.2.3 Brazil	85	3.3.15 Philippines	281
3.2.4 Chile	95	3.3.16 South Korea	289
3.2.5 Colombia	103	3.3.17 Thailand	296
3.2.6 Costa Rica	111	3.3.18 Vietnam	303
3.2.7 Ecuador	118	<b>3.4 Europe</b>	<b>310</b>
3.2.8 Guatemala	125	3.4.1 Austria	311
3.2.9 Honduras	133	3.4.2 Belgium	318
3.2.10 Mexico	141	3.4.3 Bosnia and Herzegovina	325
3.2.11 Panama	148	3.4.4 Bulgaria	332
3.2.12 Paraguay	155	3.4.5 Croatia	339
3.2.13 Peru	162	3.4.6 Cyprus	346
3.2.14 Uruguay	170	3.4.7 Czech Republic	352
		3.4.8 Denmark	359
		3.4.9 Estonia	367
		3.4.10 Finland	374

# Table of Contents

3.4.11	France	381	3.5.6	Qatar	595
3.4.12	Germany	389	3.5.7	Saudi Arabia	602
3.4.13	Greece	399	3.5.8	United Arab Emirates	610
3.4.14	Hungary	406			
3.4.15	Iceland	413	<b>3.6</b>	<b>Africa</b>	<b>618</b>
3.4.16	Ireland	420	3.6.1	Algeria	619
3.4.17	Italy	427	3.6.2	Angola	627
3.4.18	Latvia	435	3.6.3	Cameroon	635
3.4.19	Lithuania	442	3.6.4	Egypt	643
3.4.20	Macedonia	449	3.6.5	Ethiopia	650
3.4.21	Montenegro	456	3.6.6	Ghana	657
3.4.22	Netherlands	462	3.6.7	Ivory Coast	664
3.4.23	Norway	469	3.6.8	Kenya	671
3.4.24	Poland	476	3.6.9	Morocco	679
3.4.25	Portugal	483	3.6.10	Mozambique	686
3.4.26	Romania	491	3.6.11	Namibia	693
3.4.27	Serbia	499	3.6.12	Nigeria	700
3.4.28	Slovakia	506	3.6.13	Rwanda	708
3.4.29	Slovenia	513	3.6.14	South Africa	715
3.4.30	Spain	520	3.6.15	Sudan	723
3.4.31	Sweden	527	3.6.16	Tanzania	730
3.4.32	Switzerland	534	3.6.17	Tunisia	737
3.4.33	Turkey	541	3.6.18	Uganda	744
3.4.34	United Kingdom	549	3.6.19	Zambia	752
			<b>PART 4: APPENDIX</b>		<b>759</b>
<b>3.5</b>	<b>Middle East</b>	<b>558</b>	<b>4.1</b>	<b>Sources and methodology</b>	<b>760</b>
3.5.1	Bahrain	559	<b>4.2</b>	<b>List of acronyms</b>	<b>761</b>
3.5.2	Israel	566			
3.5.3	Jordan	573	<b>PART 5: EXCEL DATABASE</b>		
3.5.4	Kuwait	580		Detailed data and statistics for 2006-22 and forecasts for 2023-32	
3.5.5	Oman	587		for global, regions and countries.	

## 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 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 are not 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 qualitative and quantitative analysis which has been presented in this report.

The data and statistics for the years 2006 to 2022 are actual figures obtained from the concerned utilities and ministries. In a few cases, where data is not yet available, we have used estimates based on information obtained from press reports or those based on past growth trends. For expected addition to generation and transmission capacity, we have extensively researched the plan documents of various utilities and governments. Wherever these plans are not available, we have derived the projections based on past growth trends or based on new projects planned by the utilities.

Great care has been taken to ensure that all analysis is well supported by facts. Where facts were not available and assumptions were 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](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 High Voltage Transmission Line Projects Report, Global Electricity Transmission Equipment Market Report, Global Electricity TSO Profiles Report, etc.

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