



GLOBAL ELECTRICITY DSO PROFILES REPORT 2020

I am pleased to inform you that **Global Transmission** is working on and will soon release the **Global Electricity DSO Profiles Report**. The report will provide detailed profiles of around 250 distribution system operators (DSOs) or distribution utilities operating in over 75 countries in six regions - North America, Latin America, Asia, Europe, the Middle East and Africa. There will also be a country profile for each of the 75 countries.

The report will have seven distinct sections.

Part 1 will provide the executive summary of the report.

Part 2 of the report will discuss the key trends in the global electricity distribution sector. It will analyse the past growth in electricity sales and network, evaluate the operational and financial performance of DSOs, examine past and future trends in capital expenditure, and highlight the major initiatives and key focus areas of leading DSOs.

Part 3 of the report will compare the growth in distribution line length, number of substations, electricity sales and customer base of leading DSOs from 2014 to 2019.

Part 4 of the report will compare the operational and financial performance of leading DSOs. The performance of DSOs will be compared on parameters such as distribution losses, SAIFI, SAIDI, revenue from distribution sales and net profit.

Part 5 of the report will analyse the past and future capital expenditure programmes of leading DSOs.

Part 6 of the report will comprise detailed profiles of leading 250 DSOs across the globe. These DSOs own and operate a major share in the distribution market (in terms of electricity sales) in their respective countries.

The section will also comprise country profiles of over 75 countries - two in North America, 14 in Latin America, 18 in Asia, 25 in Europe, six in the Middle East and 11 in Africa.

The report will release in mid-November 2020. It will be available in PDF and Excel formats.

The report is priced at USD 5,000. **There is a special "early bird" discount. The price of the report is USD 3,750 (25 per cent discount) for orders and payments received on or before October 15, 2020 and USD 4,375 (12.5 per cent discount) for orders and payments received on or before November 12, 2020.**

Americas

Yasmeen Chopra

Mobile: +1 905 228 6419

E-mail: Yasmeen.Chopra@globaltransmission.info

For further inquiries, please contact:

Website: www.globaltransmission.info

Rest of the world

Shruti Kumar

Mobile: +91 8447528984

E-mail: Shruti.Kumar@globaltransmission.info

Each DSO profile will have the following information and data:

- Size and growth of the distribution network (2014-19)
- Growth in electricity sales and customer base (2014-19)
- Trends in operational performance (2014-19)
 - Distribution losses
 - SAIFI/SAIDI indices
- Trends in financial performance (2014-19)
 - Revenues from electricity distribution
 - Net profit/net income from electricity distribution
 - Capex/investment in the distribution network
- Forecast and projections
 - Network plans and targets
 - Expected capex/investment trends
 - Major focus areas

Each country profile will provide:

- A snapshot of recent growth trends in the electricity sector
- An overview of the institutional and regulatory structure and key players
- Data on the expected growth in future consumption

Part 7 will be an appendix and comprise the sources, methodology and a list of abbreviations.

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PART 1: EXECUTIVE SUMMARY

PART 2: KEY GLOBAL TRENDS

- Growth in electricity sales
- Growth in network
- Trends in operational and financial performance
- Trends in capital expenditure
- Key initiatives and focus areas
- Trends in future consumption/sales

PART 3: INTER-DSO COMPARISON: NETWORK SIZE AND SALES

- Growth in the distribution network, 2014-19
 - Line length
 - Number of substations
- Growth in electricity sales, 2014-19
- Growth in the customer base, 2014-19

PART 4: INTER-DSO COMPARISON: OPERATIONAL AND FINANCIAL PERFORMANCE

- Operational performance
 - Distribution losses
 - SAIFI
 - SAIDI
- Financial performance
 - Revenue from electricity sales
 - Net profit

PART 5: INTER-DSO COMPARISON: PAST AND FUTURE CAPEX

- Trend in capital expenditure, 2014-19
- Expected trends in capex/investment

PART 6: DSO AND COUNTRY PROFILES (~250 DSOs and ~75 COUNTRIES) (indicative list)

Each DSO profile will have information and data on:

- Size and growth in the distribution network (2014-19)
- Growth in electricity sales and customer base (2014-19)
- Trends in operational performance (2014-19)
 - Distribution losses
 - SAIFI/SAIDI indices
- Trends in financial performance (2014-19)
 - Revenue from electricity distribution
 - Net profit/net income from electricity distribution
 - Capex/Investment in the distribution network
- Forecast and projections
 - Network plans and targets
 - Expected capex/investment trends
 - Major focus areas

Each country profile will have information and data on:

- Past growth in generation and consumption
- Institutional and regulatory structure, and key players
- Expected growth in consumption

6.1 North America

6.1.1 Canada

- BC Hydro
- ENMAX Power Corporation
- FortisAlberta

- Hydro One
- Hydro-Québec
- Manitoba Hydro
- NB Power Corporation
- Nova Scotia Power Incorporated
- SaskPower

6.1.2 USA

- Alabama Power
- Arizona Public Service
- City of San Antonio
- Commonwealth Edison
- Consolidated Edison Company of New York
- Consumers Energy
- Dominion Energy South Carolina
- DTE Electric Company
- Duke Energy Carolinas
- Duke Energy Florida
- Duke Energy Indiana
- Duke Energy Progress
- Entergy Arkansas
- Entergy Louisiana
- Entergy Texas
- Florida Power & Light
- Georgia Power
- Kentucky Utilities
- Los Angeles Department of Water & Power
- MidAmerican Energy
- Nevada Power
- Northern Indiana Public Service
- Oklahoma Gas & Electric
- Pacific Gas & Electric
- PacifiCorp
- Portland General Electric
- Public Service Company of Colorado
- Public Service Company of Oklahoma
- Public Service Electric & Gas
- Puget Sound Energy
- San Diego Gas & Electric
- Southern California Edison
- Tampa Electric
- Union Electric
- Virginia Electric & Power
- Wisconsin Electric Power

6.2 Latin America

6.2.1 Argentina

- Empresa Distribuidora y Comercializadora Norte S.A. (EDENOR)
- Electricidad Distribuidora Sur (EDESUR)
- Empresa Provincial de Energía de Santa Fé (EPE SF)
- Empresa Provincial de Energía de Córdoba (EPEC)

6.2.2 Bolivia

- CRE (A.Integrada)

6.2.3 Brazil

- Cemig Distribuição SA (CEMIG-D)
- Companhia de Eletricidade do Estado da Bahia (COELBA)
- Companhia Energética de Pernambuco (CELPE)
- Companhia Energetica do Ceara (ENEL CE)
- Companhia Paulista de Força E Luz (CPFL-PAULISTA)

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- Copel Distribuicao SA (COPEL-DIS)
- Eletropaulo Metropolitana Eletricidade de São Paulo SA (ELETROPAULO)
- Light Serviços de Eletricidade SA (LIGHT)
- 6.2.4 Chile**
 - CGE Distribución S.A.(CGED)
 - Chilquinta Energía S.A. (CHILQUINTA)
 - Enel Distribución Chile S.A.
- 6.2.5 Colombia**
 - CODENSA S.A.
 - Electrificadora Del Caribe S.A. E.S.P (Electricaribe)
 - Empresas Públicas De Medellín E.S.P (EPM)
- 6.2.6 Costa Rica**
 - Compañía Nacional de Fuerza y Luz (CNFL)
 - Instituto Costarricense de Electricidad (ICE)
- 6.2.7 Dominican Republic**
 - Empresa Distribuidora de Electricidad del Este. S.A. (EdeEste)
 - EdeNorte Dominicana, S.A. (EdeNorte)
 - EdeSur Dominicana, S.A. (EdeSur)
- 6.2.8 Ecuador**
 - CNEL-Guayaquil
 - E.E. Quito
- 6.2.9 Guatemala**
 - Empresa Eléctrica de Guatemala, Sociedad Anónima (EEGSA)
- 6.2.10 Honduras**
 - Empresa Nacional de Energía Eléctrica (ENEE)
- 6.2.11 Mexico**
 - Comision Federal de Electricidad (CFE)
- 6.2.12 Panama**
 - Empresa de Distribución Eléctrica Metro Oeste, S.A. (EDEMET)
 - Elektra Noreste, S.A. (ENSA)
- 6.2.13 Peru**
 - Enel Distribución Perú
 - Luz del Sur
- 6.2.14 Uruguay**
 - La Administración Nacional de Usinasy Trasmisiones Eléctricas (UTE)
- 6.3 Asia Pacific**
 - 6.3.1 Australia**
 - Ausgrid
 - AusNet (D)
 - Endeavour Energy
 - Energex
 - Ergon Energy
 - Essential Energy
 - Powercor Australia
 - SA Power Networks
 - United Energy
 - Western Power
 - 6.3.2 Bangladesh**
 - Bangladesh Power Distribution Board (BPDB)
 - 6.3.3 Cambodia**
 - Electricité du Cambodge (EDC)
 - 6.3.4 China**
 - China Southern Power Grid Company (CSG)
 - State Grid Corporation of China (SGCC)
 - 6.3.5 India**
 - Assam Power Distribution Company Limited (APDCL)
 - Eastern Power Distribution Company of Andhra Pradesh Limited (APEPDCL)
 - Andhra Pradesh Southern Power Distribution Company Limited (APSPDCL)
 - Bangalore Electricity Supply Company Limited (BESCOM)
 - Chhattisgarh State Power Distribution Company Limited (CSPDCL)
 - Kerala State Electricity Board Limited (KSEBL)
 - Madhya Pradesh Paschim Kshetra Vidyut Vitaran Company Limited (MP Paschim)
 - Madhya Pradesh Poorv Kshetra Vidyut Vitaran Company Limited (MP Poorv)
 - Maharashtra State Electricity Distribution Company Limited (MSEDCL)
 - Madhyanchal Vidyut Vitaran Nigam Limited (MUVNL)
 - North Bihar Power Distribution Company Limited (NBPDCCL)
 - Paschim Gujarat Vij Company Limited (PGVCL)
 - Punjab State Power Corporation Limited (PSPCL)
 - Purvanchal Vidyut Vitaran Nigam Limited (PuVVNL)
 - Pashchimanchal Vidyut Vitran Nigam Limited (PVVNL)
 - South Bihar Power Distribution Company Limited (SBPDCL)
 - Tamil Nadu Generation and Distribution Corporation Limited (TANGEDCO)
 - Telangana State Northern Power Distribution Company Limited (TSNPDCL)
 - Telangana State Southern Power Distribution Company Limited (TSSPDCL)
 - West Bengal State Electricity Distribution Company Limited (WBSEDCL)
 - 6.3.6 Indonesia**
 - PT PLN (Persero)
 - 6.3.7 Japan**
 - Chubu Electric Power Company (Chubu EPCo)
 - Chugoku Electric Power Company (Chugoku EPCo)
 - Hokkaido Electric Power Company (Hokkaido EPCo)
 - Hokuriku Electric Power Company (Hokuriku EPCo)
 - Kansai Electric Power Company (Kansai EPCo)
 - Kyushu Electric Power Company (Kyushu EPCo)
 - Shikoku Electric Power Company (Shikoku EPCo)
 - Tohoku Electric Power Company (Tohoku EPCo)
 - Tokyo Electric Power Company (Tokyo EPCo)
 - 6.3.8 Malaysia**
 - Sabah Electricity Sdn. Bhd. (SESB)
 - Sarawak Energy Berhad (SEB)
 - Tenaga Nasional Berhad (TNB)
 - 6.3.9 Myanmar**
 - Electric Supply Enterprise (ESE)
 - Yangon City Electricity Supply (YESC)
 - 6.3.10 Nepal**
 - Neal Electricity Authority (NEA)
 - 6.3.11 New Zealand**
 - Powerco
 - Vector Limited

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6.3.12 Pakistan

- Faisalabad Electric Supply Company (FESCO)
- Gujranwala Electric Power Company (GEPCO)
- Lahore Electric Supply Company (LESCO)
- Multan Electric Power Company (MEPCO)
- Peshawar Electric Supply Company (PESCO)

6.3.13 Philippines

- Davao Light and Power Company (DLPC)
- Manila Electric Company (MERALCO)
- Visayan Electric Company, Inc. (VECO)

6.3.14 Singapore

- SP Power

6.3.15 South Korea

- KEPCO

6.3.16 Sri Lanka

- Ceylon Electricity Board (CEB)

6.3.17 Thailand

- Metropolitan Electricity Authority (MEA)
- Provincial Electricity Authority (PEA)

6.3.18 Vietnam

- Central Power Corporation (EVNCPC)
- Hanoi City Power Corporation (EVNHANOI)
- Ho Chi Minh City Power Corporation (EVNHCMC)
- Northern Power Corporation (EVNNPC)
- Southern Power Corporation (EVNSPC)

6.4 Europe

6.4.1 Austria

- Energiesetze Steiermark GmbH
- EVN AG
- Wien Energie

6.4.2 Belgium

- ORES
- RESA
- Sibelga

6.4.3 Croatia

- HEP Operator Distribucijskog Sustava (HEP-ODS)

6.4.4 Czech Republic

- CEZ Distribuce
- PRE Distribuce

6.4.5 Denmark

- Cerius

6.4.6 Estonia

- Elektrilevi

6.4.7 Finland

- Caruna Networks Oy
- Elenia Oy
- Helen Electricity Network

6.4.8 France

- Enedis

6.4.9 Germany

- E.ON
- Entega AG
- EWE Netz (EWE AG)
- Innogy (RWE)
- Netze BW (EnBW)
- Rheinische NETZGesellschaft mbH
- Stadtwerke München (SWM)
- Stromnetz Berlin GmbH (Vattenfall)
- Westnetz

6.4.10 Greece

- Hellenic Electricity Distribution Network Operator (HENDO)

6.4.11 Ireland

- ESB Networks

6.4.12 Italy

- Enel

6.4.13 Latvia

- Sadalestikls

6.4.14 Lithuania

- Energijos Skirstymo Operatorius (ESO)

6.4.15 Netherlands

- Alliander
- Enexis
- Stedin

6.4.16 Norway

- Agder Energi Nett AS
- BKK Nett AS
- Eidsiva Nett AS
- Hafslund Nett AS
- Skagerak Nett AS

6.4.17 Poland

- ENEA Operator Sp. Z.o.o
- ENERGA-Operator S.A
- innogy Steon Operator Sp. Z.o.o.
- PGE Dystrybucja S.A
- TAURON Dystrybucja S.A

6.4.18 Portugal

- EDP

6.4.19 Romania

- Electrica SA
- ENEL

6.4.20 Russia

- PJSC Rosseti

6.4.21 Spain

- Electra de Llobregat Energía, S.L
- ENDESA

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- Iberdrola Distribución Eléctrica, SAU
- Unión Fenosa Distribución

6.4.22 Sweden

- E.ON
- Ellevio
- Vattenfall

6.4.23 Turkey

- Akdeniz Electricity Distribution
- Ayedas Electricity Distribution
- Basskent Electricity Distribution
- Bogazici Electricity Distribution
- GDZ Electricity Distribution
- Meram Electricity Distribution
- Toroslar Electricity Distribution
- Uludag Electricity Distribution
- Yesilirmak Electricity Distribution

6.4.24 United Kingdom

- Eastern Power Networks
- Electricity North West
- London Power Networks
- Northern Powergrid (Northeast)
- Northern Powergrid (Yorkshire)
- SP Distribution
- SP Manweb
- South Eastern Power Networks
- Southern Electric Power Distribution
- Scottish Hydro Electric Power Distribution
- Western Power Distribution (South Wales)
- Western Power Distribution (South West)
- Western Power Distribution (East Midlands)
- Western Power Distribution (West Midlands)

6.4.25 Ukraine

- DTEK Networks

6.5 Middle East

6.5.1 Bahrain

- Electricity and Water Authority (EWA)

6.5.2 Kuwait

- Ministry of Electricity and Water (MEW)

6.5.3 Oman

- Majan Electricity Company
- Muscat Electricity Distribution Company
- Mazoon Electricity Company

6.5.4 Qatar

- Qatar Electricity and Water Company (KAHAARMA)

6.5.5 Saudi Arabia

- Saudi Electricity Company (SEC)

6.5.6 United Arab Emirates

- Abu Dhabi Distribution Company (ADDC)
- Al Ain Distribution Company (AADC)
- Dubai Electricity and Water Authority (DEWA)

- Federal Electricity and Water Authority (FEWA)
- Sharjah Electricity and Water Authority (SEWA)

6.6 Africa

6.6.1 Algeria

- Société Nationale de l'Electricité et du Gaz (Sonelgaz)

6.6.2 Cameroon

- ENEO

6.6.3 Egypt

- Egyptian Electricity Holding Company (EEHC)

6.6.4 Ghana

- Electricity Company of Ghana (ECG)

6.6.5 Ivory Coast

- Compagnie Ivoirienne d' Electricité (CIE)

6.6.6 Kenya

- Kenya Power

6.6.7 Morocco

- Lyonnaise des Eaux de Casablanca (LYDEC)
- Office National de l'Electricité et de l'Eau Potable (ONEE)

6.6.8 South Africa

- Eskom

6.6.9 Tanzania

- TANESCO

6.6.10 Tunisia

- SocieteTunisienne de l'Electricite et du Gaz (STEG)

6.6.11 Uganda

- UMEME

PART 7: APPENDIX

7.1 Sources and methodology

7.2 List of abbreviations

Sources and Methodology

Global Transmission Research's industry analysts will utilise various primary and secondary research sources in preparing this report. The primary sources include information obtained through questionnaires sent to various utilities, distribution companies, distribution system operators, regulatory agencies and industry associations. Our analysts and research associates will conduct extensive secondary research. The 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 in this report.

These primary and secondary research sources, combined with our industry expertise, will be synthesised to prepare this report. For this report, we will track the distribution sectors of over 75 countries across six regions - North America, Latin America, Asia, Europe, the Middle East and Africa.

The 250 DSOs to be profiled in the report have been selected based on their electricity sales. These DSOs own and operate a major share of the distribution market (in terms of electricity sales) in their respective countries.

Great care will be taken to ensure that the analysis is well supported by facts. Where facts were not available and assumptions were made, we will explain 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. 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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Contact Details

Americas

Yasmeen Chopra

Mobile: +1 905 228 6419

E-mail: Yasmeen.Chopra@globaltransmission.info

Rest of the world

Shruti Kumar

Mobile: +91 8447528984

E-mail: Shruti.Kumar@globaltransmission.info

Website: www.globaltransmission.info