

Global Renewable Power Generation Market 2026 by Company, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G9C1CF55968AEN.html>

Date: September 2026

Pages: 184

Price: US\$ 3,480.00 (Single User License)

ID: G9C1CF55968AEN

Abstracts

According to our (Global Info Research) latest study, the global Renewable Power Generation market size was valued at US\$ 600461 million in 2025 and is forecast to a readjusted size of US\$ 883503 million by 2032 with a CAGR of 5.4% during review period.

Renewable power generation refers to the production of electricity from energy resources that are naturally replenished within a relevant human timescale, including solar radiation, wind, flowing or stored water, renewable biomass, geothermal heat and marine energy. These resources are converted into electricity through photovoltaic conversion, solar-thermal cycles, aerodynamic conversion, hydraulic turbines, thermal or binary-cycle generation, and other commercially established or emerging power technologies.

International energy statistics generally identify hydropower, solar, wind, bioenergy, geothermal and marine energy as the principal renewable electricity sources.

Based on our research, renewable power generation has moved beyond its earlier role as a policy-supported alternative source of electricity and is becoming a primary source of incremental supply, energy security and power-sector decarbonisation.

The IEA expects renewable generation to overtake coal-fired output in 2026 after reaching near parity in 2025, with renewable generation growing by more than 8% during the year. These figures confirm that the industry is still structurally expanding, but the commercial value of each additional megawatt will increasingly depend on location, contract design, grid availability and realised electricity prices rather than capacity

growth alone.

The supply structure is layered rather than uniformly fragmented. Large integrated utilities continue to control substantial hydropower, wind and solar portfolios, particularly in Europe, North America and several state-led electricity markets. Alongside them, specialised listed renewable generators, independent power producers and resource-focused operators have developed business models centred on long-term asset ownership and electricity sales. In China, professionally managed generation platforms such as large wind, solar and hydropower listed companies provide a more accurate competitive unit than their diversified parent groups. In Europe and North America, traditional utilities coexist with global IPPs, infrastructure-capital-backed operating platforms and specialised offshore wind or geothermal producers. India, the Middle East, Southeast Asia and Latin America rely more heavily on competitive tenders, government-supported procurement, state-linked offtakers and long-term PPAs.

Demand growth is broadening beyond conventional increases in household and industrial electricity consumption. Electrification of transport and industrial processes, greater air-conditioning and cooling requirements, manufacturing expansion, corporate decarbonisation commitments and the construction of data centres are creating new blocks of demand that can support renewable generation and long-term contracting. The IEA expects global electricity demand to grow at an average annual rate of approximately 3.6% between 2026 and 2030, while renewable generation expands more rapidly. Data-centre electricity consumption is projected to rise from around 415 TWh in 2024 to approximately 945 TWh in 2030, with the United States, China and Europe accounting for most of the increase. Renewable electricity is expected to be the fastest-growing source of supply for data centres, supported partly by PPAs signed by technology companies. Nevertheless, demand and investment remain geographically concentrated. China, the United States and the European Union accounted for 79.5% of renewable capacity added in 2025, while Africa represented only 1.6%. This disparity shows that strong demand alone is insufficient to create bankable generation growth. Developers and asset owners also require grid capacity, reliable offtakers, effective permitting, affordable finance, currency stability and predictable market rules.

From a technology perspective, solar PV has become the dominant source of new capacity and the largest contributor to incremental renewable generation, while onshore wind remains one of the lowest-cost sources of new electricity. Offshore wind, hydropower, bioenergy and geothermal play different but complementary roles: offshore wind can supply large coastal demand centres, hydropower provides energy and system flexibility, and bioenergy and geothermal can deliver more dispatchable or

stable renewable output. IRENA reported approximately 510 GW of solar capacity and 159 GW of wind capacity additions in 2025. The IEA expects renewable electricity generation to rise from 9,900 TWh in 2024 to 16,200 TWh in 2030, with solar PV contributing more than half of the increase and wind approximately 30%. As variable renewable penetration rises, competitive differentiation will shift away from resource acquisition and headline capacity growth toward financing cost, interconnection capability, lifecycle construction and operating control, forecasting, power trading, maintenance performance, storage coordination and management of curtailment and negative-price exposure. IRENA's 2025 cost assessment places the global weighted-average LCOE of new solar PV at approximately USD 44/MWh and onshore wind at USD 33/MWh, supporting continued long-term deployment. However, low generation cost does not automatically produce high equity returns.

Report Scope

This report is a detailed and comprehensive analysis for global Renewable Power Generation market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Renewable Power Generation market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Renewable Power Generation market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Renewable Power Generation market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Renewable Power Generation market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Renewable Power Generation

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Renewable Power Generation market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include China Longyuan Power Group Corporation Limited, China Three Gorges Renewables (Group) Co., Ltd., China Datang Corporation Renewable Power Co., Limited, Huaneng Renewables Corporation Limited, CGN New Energy Holdings Co., Ltd., China Power International Development Limited, China Yangtze Power Co., Ltd., Huaneng Lancang River Hydropower Inc., SDIC Power Holdings Co., Ltd., Beijing Jingneng Clean Energy Co., Limited, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Renewable Power Generation market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segmentation

Market segment by Type

Hydropower

Wind Power

Solar Power

Bioenergy Power

Geothermal Power

Marine and Other Renewable Power

Market segment by Project Configuration

Utility-scale Grid-connected Generation

Distributed Grid-connected Generation

Off-grid and Isolated Generation

Market segment by Application

Public Grid Power Supply

Commercial and Industrial Power Supply

Public and Institutional Power Supply

Residential and Community Power Supply

Remote and Off-grid Power Supply

Market segment by players, this report covers

China Longyuan Power Group Corporation Limited

China Three Gorges Renewables (Group) Co., Ltd.

China Datang Corporation Renewable Power Co., Limited

Huaneng Renewables Corporation Limited

CGN New Energy Holdings Co., Ltd.

China Power International Development Limited

China Yangtze Power Co., Ltd.

Huaneng Lancang River Hydropower Inc.

SDIC Power Holdings Co., Ltd.

Beijing Jingneng Clean Energy Co., Limited

CECEP Solar Energy Co., Ltd.

Xinyi Energy Holdings Limited

NextEra Energy, Inc.

Brookfield Renewable Partners L.P.

Clearway Energy, Inc.

Pattern Energy Group LP

Invenergy LLC

Innergex Renewable Energy Inc.

Boralex Inc.

Northland Power Inc.

Ormat Technologies, Inc.

Orsted A/S

EDP Renováveis, S.A.

Corporación Acciona Energías Renovables, S.A.

Statkraft AS

VERBUND AG

RWE Aktiengesellschaft

Scatec ASA

Voltaia SA

ERG S.p.A.

Adani Green Energy Limited

ReNew Energy Global Plc

NTPC Green Energy Limited

Tata Power Renewable Energy Limited

Greenko Group

NHPC Limited

Electric Power Development Co., Ltd.

Eurus Energy Holdings Corporation

ACEN Corporation

Sembcorp Industries Ltd.

Aboitiz Power Corporation

Energy Development Corporation

PT Barito Renewables Energy Tbk

Abu Dhabi Future Energy Company PJSC

ACWA Power Company

AXIA Energia S.A.

Kenya Electricity Generating Company PLC

Meridian Energy Limited

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe Renewable Power Generation product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Renewable Power Generation, with revenue, gross margin, and global market share of Renewable Power Generation from 2021 to 2026.

Chapter 3, the Renewable Power Generation competitive situation, revenue, and global

market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Renewable Power Generation market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Renewable Power Generation.

Chapter 13, to describe Renewable Power Generation research findings and conclusion.

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