

# Global Renewable Power Generation Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Renewable Power Generation market size is expected to reach \$ 883503 million by 2032, rising at a market growth of 5.4% CAGR during the forecast period (2026-2032).

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 studies the global Renewable Power Generation demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Renewable Power Generation, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Renewable Power Generation that contribute to its increasing demand across many markets.

## Highlights and key features of the study

Global Renewable Power Generation total market, 2021-2032, (USD Million)

Global Renewable Power Generation total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Renewable Power Generation total market, key domestic companies, and share, (USD Million)

Global Renewable Power Generation revenue by player, revenue and market share 2021-2026, (USD Million)

Global Renewable Power Generation total market by Type, CAGR, 2021-2032,

(USD Million)

Global Renewable Power Generation total market by Application, CAGR,  
2021-2032, (USD Million)

This report profiles major 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Renewable Power Generation market

## **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

## **Global Renewable Power Generation Market, By Region:**

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## **Market Segmentation**

### **Global Renewable Power Generation Market, Segmentation by Type:**

Hydropower

Wind Power

Solar Power

Bioenergy Power

Geothermal Power

Marine and Other Renewable Power

### **Global Renewable Power Generation Market, Segmentation by Project Configuration:**

Utility-scale Grid-connected Generation

Distributed Grid-connected Generation

Off-grid and Isolated Generation

## **Global Renewable Power Generation Market, Segmentation 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

## **Companies Profiled:**

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

## Key Questions Answered

1. How big is the global Renewable Power Generation market?

*Global Renewable Power Generation Supply, Demand and Key Producers, 2026-2032*

2. What is the demand of the global Renewable Power Generation market?
3. What is the year over year growth of the global Renewable Power Generation market?
4. What is the total value of the global Renewable Power Generation market?
5. Who are the Major Players in the global Renewable Power Generation market?
6. What are the growth factors driving the market demand?

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