

Clean Energy Infrastructure Market By Infrastructure Type (Power Generation Facilities, Energy Storage Systems, Transmission, Distribution Networks), By End-Use (Residential, Commercial, Industrial) : Global Opportunity Analysis and Industry Forecast, 2024-2033

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Abstracts

Clean Energy Infrastructure Market

The clean energy infrastructure market was valued at \$625.2 billion in 2023 and is estimated to reach \$1,489.6 billion by 2033, exhibiting a CAGR of 9.1% from 2024 to 2033.

Clean energy infrastructure involves the development & maintenance of sustainable and renewable energy systems. It comprises of a broad range of technologies & projects designed to generate clean power and reduce greenhouse gas emissions, hence encouraging the transition from traditional fossil fuel-based energy sources to clean energy. Renewable energy solutions such as solar, hydropower, wind, geothermal, and biomass fall under the clean energy infrastructure. Furthermore, the technologies associated with these solutions for grid management, energy storage, and distribution are a significant part of the infrastructure.

Increase in investments in renewable projects acts as major driver for the clean energy infrastructure market. This is attributed to a surge in global awareness regarding the necessity for sustainable and environmentally friendly energy solutions, encouraging investors to recognize the potential and long-term viability of renewable projects. Moreover, rise in global acceptance on alleviating climate change has emboldened

countries and businesses transition toward clean energy sources. This considerably boosts the demand for clean energy infrastructure. Geothermal and renewable natural gas energy sources are anticipated trend in the portfolio of clean energy infrastructure in the future. These energy sources are expected create coordination between intermittent and baseload renewables.

However, infrastructure development involves capital-intensive projects which require significant expenses for equipment procurement, site preparation, installation, and grid integration. This remains a significant challenge in various developing nations. In addition, supply chain bottlenecks and fluctuations in the prices of raw materials & critical components have high influence on project timelines. Despite the challenges, the clean energy infrastructure market is expanding rapidly. As per the International Energy Agency, global investments in clean energy reached an extraordinary value of \$1.8 trillion in 2023. To align with the Net Zero Emissions scenario, the figure is projected increase an approximate amount of \$4.5 trillion annually by early 2030. These investments are anticipated foster the development of robust clean energy infrastructure.

Segment Review

The clean energy infrastructure market is segmented into infrastructure type, end use, and region. By infrastructure type, the market is divided into power generation facilities, energy storage systems, transmission, and distribution networks. As per end use, it is classified into residential, commercial, and industrial. Region wise, it is studied across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

By infrastructure type, the energy storage systems segment is expected to dominate the market by 2033.

As per end use, the industrial segment has high energy demands, hence leads the market.

By region, Asia-Pacific was the highest revenue generator in 2023.

Competition Analysis

The major players operating in the clean energy infrastructure market include NextEra

Energy, Inc., Enel Spa, Iberdrola, S.A, Canadian Solar., First Solar, SunPower Corporation., ACCIONA ENERGÍA, Suzlon Energy Limited, Adani Group, and Tata Power. These players have adopted various key developmental strategies such as business expansion, new product launches, and partnerships to strengthen their foothold in the market.

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Manufacturing Capacity

Investment Opportunities

Global Market Strategy

New Product Development/ Product Matrix of Key Players

Regulatory Guidelines

Additional company profiles with specific client's interest

Historic market data

Key player details (including location, contact details, supplier/vendor network etc. in excel format)

SWOT Analysis

Key Market Segments

By Infrastructure Type

Power Generation Facilities

Energy Storage Systems

Transmission

Distribution Networks

By End-Use

Residential

Commercial

Industrial

By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

Italy

Spain

UK

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

Saudi Arabia

Rest of LAMEA

Key Market Players

NextEra Energy, Inc.

Enel Spa

Iberdrola

Canadian Solar

First Solar

SunPower Corporation

ACCIONA ENERGIA

Suzlon Energy Limited

Adani Group.

Tata Power

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