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Distributed Energy Resource Management System Market – Global Industry Size, Share, Trends, Opportunity, and Forecast. 2018-2028FSegmented By Software (Virtual Power Plant, Management & Control, and Analytics), By Application (Solar PV, Energy Storage, Wind, EV Charging Stations, and Others), By End-User (Residential, Commercial, and Industrial), By Region

https://marketpublishers.com/r/DC7E02CB8F4CEN.html
Date: October 2023
Pages: 179
Price: US$ 4,900.00 (Single User License)
ID: DC7E02CB8F4CEN

Abstracts

Global Distributed Energy Resource Management System market is expected to grow at a robust pace in the forecast period, 2024-2028, owing to rising demand for effective energy management systems, which aid in preserving grid dependability and flexibility of the distributed energy source. Moreover, rising adoption of intermittent and erratic renewable energy sources, along with the increasing use of blockchain-based solutions, cloud-based solutions, and the attention being paid to cybersecurity, are factors driving the global distributed energy resource management system market.

Distributed Energy Resource Management Systems (DERMS) is a software programme, used to manage and regulate various Distributed Energy Resources (DERs). DERMS refers to a broad integration system or a variety of unique use cases. Many different energy sources, including solar, wind, and battery storage, are included in these DERs.

DERMS enable better grid management and lower levels of electricity waste. For both the user and the utility providers, DERMS boost efficiency and dependability. To meet particular use case scenarios, utility providers can have large number of DERMS and

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also helps in reducing consumers' carbon footprints.

Over the upcoming years, the market for distributed energy resource management systems

(DERMS) is anticipated to be driven by an increase in distributed energy resources, a change from centralized to distributed generation, and falling solar PV & energy storage costs. Grid modernization, energy transition, supportive policies, and the need for efficient energy management are driving the adoption of DERMS. DERMS enable the integration, control, and optimization of DERs, ensuring grid stability and facilitating the transition to a low-carbon energy system. They also support energy efficiency and demand response efforts. With the rise of renewable energy and the need for grid flexibility, DERMS play a crucial role in managing the complexities of a decentralized energy landscape.

The top companies in the global Distributed Energy Resource Management System (DERMS) market are offering DERMS solutions with advanced distributed energy resources (DERs) management and control capabilities such as storage, solar, and other renewable sources, demand response, grid optimization, and preventive maintenance. The top companies operating in the market are helping clients to reduce their electricity bills, identify outages, and cut their carbon footprint. These companies are also collaborating with local utilities on the deployment of DERMS, further driving the market growth.

Effective Implementation of Smart Grid Technology By the Government

There is a continuous and extensive expansion of smart grids, globally, making them a key component of national energy strategies. Energy policies in these nations prioritize efficiency enhancement and CO2 emission reduction. To expedite the replacement of outdated grid structures, governments are spending significantly in the smart grid industry. For instance, the U.S. Trade and Development Agency granted the R?gie Autonome de Distribution d'Eau et d'Electricit? de Marrakech (RADEEMA), the city's electricity and water utility in July 2022, to study the conversion of Marrakech's power infrastructure into a smart grid that would serve as a model for other Moroccan cities. Additionally, the United States government passed a new Infrastructure Investment and Jobs Act in November 2021, under which the nation made numerous significant investments for the construction of smart and distribution grids. One such investment was of USD3 million under Smart Grid Investment Matching Grant Program. Thus, the rising investments for smart grid technology are expected to drive the growth of global

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distributed energy resource management system market, for the upcoming years.

Increased EV Production to Boost Global Distributed Energy Resource Management System Market

The demand for electric vehicles has expanded globally due to the growing responsibility for environmental protection through sustainable development. According to the International Energy Agency (IEA), around 10 million Electric Vehicles (EVs) were sold in 2022 and the numbers are projected to reach 14 million in sales by the end of 2023, with a rise of 14%. Moreover, in 2021, EVs accounted for about 10% of all car sales worldwide, up from 4% in 2019. The price ranges of EVs are falling as a result of technological advancements going on in the market, leading to the growth in the demand for electric vehicle market. Moreover, governments from several countries have backed electric vehicles and implemented the necessary regulations to hasten the switch to zero-emission automobiles. These factors are expected to drive the market growth of global distributed energy resource management system market.

Growth Opportunities by Increasing Demand Response Management Software

There is a large demand for items such as electronics, construction materials, transportation equipment, medical supplies, etc. due to fast-growing population that increases the need for manufacturing activities across numerous industries. This is due to the constantly changing industrial landscape and growing urbanization. In addition, massive consumption and rising digitization have also raised the demand for raw materials, industrial capacity, and output. The industrial environment all around the world occasionally encounters high peak load conditions to meet power demands. Due to the significant need for demand response management software and systems as well as the rising development of intelligent infrastructures and higher power consumption, these factors are expected to drive the market.

Additionally, the International Energy Agency (IEA) claims that rapid development in demand-response management is necessary in order to achieve net-zero emissions targets. The ongoing expansion of renewable energy projects would require 500 GW of response capacity, by 2030. Moreover, over the next ten years, many countries, including Canada, Singapore, the European Union countries, and China, are expected to announce renewable energy targets and infrastructure development programmes for EV charging stations, significantly increasing the need for distributed energy resource management system market, globally.

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Increasing Spending on Updating Deteriorating Grid Infrastructure

The market for global distributed energy resource management systems (DERMS) is expected to experience significant expansion, due to increased investments in grid digitalization and the adoption of advanced communication technologies. This trend is exemplified by China's plan to invest USD6 trillion in infrastructure over the next decade as part of its urban development plan. Additionally, the estimated value of corporate and public investments in the UK for infrastructure urbanization amounts to USD375 billion. Consequently, these investments are anticipated to drive the growth of the global DERMS market.

IoT-Related Cybersecurity Risks are Expected to Hinder Market Growth

The Internet of things (IoT), automated control, energy storage, and demand management, are all used in distributed energy resource management systems. The system data is gathered for analysis. Cyberattacks and data breaches present a risk of data breaching. For instance, NPower, a gas and electricity provider, permanently removed their mobile app in February 2021, after hackers utilized it to access the personal data of their clients. Customers were vulnerable to fraud since the attackers gained access to their accounts using login information. The high expenditure on cybersecurity and data breach protection raises the price of management systems. Thus, adoption of distributed energy resource management is hampered by high cost, which results in the slow expansion of the market expansion.

Market Segmentation

The Global Distributed Energy Resource Management System Market is segmented based on software, application, end-user, and region. Based on software, the market is divided into virtual power plant, management & control, and analytics. Based on application, the market is fragmented into solar PV, energy storage, wind, EV charging stations, and others. Based on end-user, the market is bifurcated into residential, commercial, and industrial. Based on region, the market is further divided into North America, Asia-Pacific, Europe, South America, and Middle East & Africa.

Market players

The main market players in the Global Distributed Energy Resource Management System Market are General Electric Company, Siemens AG, ABB Ltd, Schneider Electric SE, Engie SA, AutoGrid Systems Inc., Doosan Corporation, Open Access

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Technology International Inc., Mitsubishi Electric Corporation, Emerson Electric Co.

Report Scope:

In this report, Global Distributed Energy Resource Management System market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Distributed Energy Resource Management System Market, By Software:

Virtual Power Plant

Management & Control

Analytics

Distributed Energy Resource Management System Market, By Application:

Solar PV

Energy Storage

Wind

EV Charging Stations

Others

Distributed Energy Resource Management System Market, By End-User:

Residential

Commercial

Industrial

Distributed Energy Resource Management System Market, By Region:

North America

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- United States
- Canada
- Mexico

Asia-Pacific

- India
- Japan
- South Korea
- Australia
- China

Europe

- Germany
- United Kingdom
- France
- Italy
- Spain

South America

- Brazil
- Argentina
- Colombia

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- Middle East
  - Saudi Arabia
  - South Africa
  - UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the global distributed energy resource management system market.

Available Customizations:

Global Distributed Energy Resource Management System market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

- Detailed analysis and profiling of additional market players (up to ten).

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