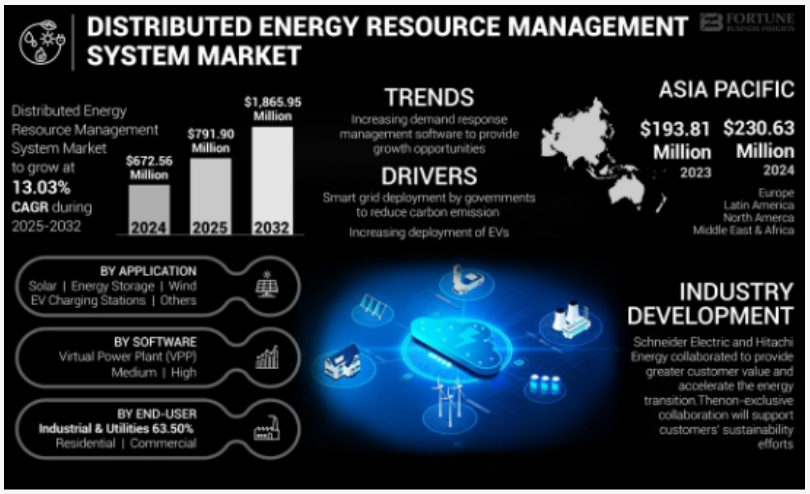
Global Distributed Energy Resource Management System Market to Grow at 13.03% CAGR till 2032

List of Top key Players in Distributed Energy Resource Management System industry are Itron, Oracle, Energy Hub, AutoGrid Systems, Opus One Solutions



The Distributed Energy Resource Management System Market

PUNE, MAHARASHTRA, INDIA, October 1, 2025 /EINPresswire.com/ -- The global distributed energy resource management system market is witnessing robust growth, primarily driven by rising integration of renewable energy resources, increasing penetration of distributed energy resources (DERs) such as solar PV, wind, storage, and EV charging, as well as the urgent need for grid modernization. DERMS acts as a digital platform enabling utilities and grid operators to monitor, control, and optimize distributed assets, thus ensuring grid reliability, efficiency, and resilience in an era of decentralization.

> Asia Pacific dominated the global market with a share of 34.29% in 2024."
>
> *Fortune Business Insights*

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Market Size and Growth Projections

The global distributed energy resource management system market size was valued at USD 672.56 million in 2024 and is projected to grow from USD 791.90 million in 2025 to USD 1,865.95 million by 2032, exhibiting a CAGR of 13.03% during the forecast period.

The global DERMS market is experiencing strong momentum as utilities and grid operators face the growing challenge of managing distributed energy resources. With the rapid adoption of

solar, wind, battery storage, and electric vehicle charging infrastructure, DERMS has emerged as a critical platform for maintaining grid stability and optimizing power flows. By enabling real-time monitoring, control, and coordination of distributed assets, DERMS supports the broader energy transition and ensures reliable, efficient, and sustainable electricity systems.

This growth trajectory underscores the pivotal role DERMS plays in enabling large-scale renewable adoption and managing the rising complexity of distributed energy ecosystems.

Key Drivers of Market Growth

Several key factors are propelling the expansion of the DERMS market:

1. Rising Renewable Energy Integration
Governments worldwide are accelerating renewable energy deployment to meet climate targets. DERMS provides critical capabilities to balance the variability of wind and solar generation, ensuring grid reliability.

2. Grid Modernization and Smart Infrastructure
Utilities are investing in digitalization to upgrade legacy infrastructure. DERMS supports real-time visibility, analytics, and automation, becoming central to the digital transformation of power systems.

3. Growth of Distributed Resources
The expansion of rooftop solar, energy storage systems, and EV charging infrastructure is creating complex power flows. DERMS enables efficient orchestration of these resources across the grid.

4. Regulatory Support and Policy Push
Supportive government policies promoting renewable energy adoption and distributed generation are driving utilities and operators to adopt DERMS to comply with grid codes and energy transition strategies.

5. Demand for Flexibility and Resilience
Rising peak demand, climate-induced disruptions, and increasing cyber and physical risks are elevating the need for resilient grids. DERMS enables flexible load management and distributed resource coordination to safeguard stability.

Future Outlook

The DERMS market is poised for substantial expansion through 2032 as digital energy platforms evolve into an indispensable part of the global energy transition. With advancements in AI, cloud computing, IoT, and predictive analytics, DERMS is expected to evolve into a more adaptive, intelligent platform capable of managing millions of distributed assets in real time.

Investments in virtual power plants (VPPs), demand response, and EV charging networks will further enhance market growth. Additionally, as regulators design market structures enabling DER participation in ancillary services, DERMS will unlock new business models for utilities and aggregators.

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Report Coverage

This report provides a comprehensive analysis of the DERMS market, covering:

- Market Size & Forecast: Detailed data on current valuation, historical trends, and future projections.
- Key Market Drivers & Restraints: Insights into opportunities and challenges shaping growth.
- Segmentation & Regional Analysis: Breakdown of the market by software, application, end-user, and geography.
- Competitive Landscape: Profiles of major players, strategies, and key developments.
- Regulatory Framework: Review of policies, mandates, and incentives impacting DERMS adoption.
- Technological Advancements: Evaluation of innovations in digital platforms, AI-driven optimization, and grid intelligence.

The Distributed Energy Resource Management System market is becoming a cornerstone of the global energy transition. As renewable integration accelerates and distributed energy assets expand, DERMS provides the intelligence and flexibility needed for modern power systems. With strong growth prospects and supportive industry trends, the DERMS market is positioned to play a central role in shaping the future of clean and resilient energy infrastructure worldwide.

The Distributed Energy Resource Management System (DERMS) market is gaining strong traction as global energy networks transition towards decentralized, cleaner, and smarter power ecosystems. DERMS are advanced software platforms designed to monitor, manage, and optimize distributed energy resources (DERs) such as solar PV, wind turbines, battery storage systems, electric vehicles, and demand response programs. These solutions help utilities, grid operators, and energy providers to integrate renewable energy into existing grids while ensuring reliability, flexibility, and efficiency.
One of the key factors driving the DERMS market is the growing penetration of renewable energy technologies. As countries implement ambitious carbon reduction goals, utilities are increasingly investing in digital platforms to maintain grid stability amid fluctuating renewable supply. The rising adoption of energy storage systems and EV charging infrastructure further accelerates the demand for DERMS, enabling real-time monitoring, predictive analytics, and automated control of distributed assets.

Segmentation Analysis

By Software
- Analytics
- Management & Control
- Virtual Power Plant (VPP) Solutions

By Application
- Solar PV
- Energy Storage
- Wind Power
- EV Charging Infrastructure
- Others

By End-User
- Residential
- Commercial & Industrial
- Utilities & Grid Operators

From a business perspective, DERMS are increasingly recognized for their ability to optimize distributed assets and reduce energy costs for both utilities and large energy consumers. Industrial and commercial enterprises are adopting DERMS to integrate rooftop solar, backup generators, and battery storage, enabling them to lower electricity expenses and enhance energy security. Meanwhile, residential demand is expanding as consumers adopt smart home energy systems and seek greater control over their consumption patterns.

LIST OF KEY COMPANIES PROFILED IN THE REPORT:

- Itron (U.S.)
- Oracle (U.S.)
- Energy Hub (U.S.)
- AutoGrid Systems (U.S.)
- Opus One Solutions (Canada)
- Blue Pillar (U.S.)
- Kitu Systems (U.S.)
- Enel (Italy)
- Open Access Technology International, Ltd. (U.S.)
- Sunverge Energy Inc. (U.S.)
- Hitachi ABB (Switzerland)

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