

Virtual Microgrids Market Size, Share & Trends Analysis Report By Component (Hardware, Software, Services), By Energy Source (Solar PV, Wind), By Application (Commercial & Industrial, Residential, Utility), By Region, And Segment Forecasts, 2026 - 2033

<https://marketpublishers.com/r/VD81E7647385EN.html>

Date: August 2026

Pages: 120

Price: US\$ 5,950.00 (Single User License)

ID: VD81E7647385EN

Abstracts

The global virtual microgrids market size was valued at USD 2.5 billion in 2025 and is projected to grow from USD 3.0 billion in 2026 to USD 10.2 billion by 2033, at a CAGR of 19.0% from 2026 to 2033. The market in North America dominated with a revenue share of 35.5% in 2025. The growing integration of distributed renewable energy, battery storage, and flexible loads is driving demand for virtual microgrids that can optimize decentralized power resources in real time.

Increasing focus on grid resilience, energy cost reduction, and decentralized energy management is further accelerating market adoption.

Global Virtual Microgrids Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the global virtual microgrids market report based on component, energy source, application, and region.

Component Outlook (Volume, MW; Revenue, USD Billion, 2021 - 2033)

Hardware

Software

Services

Energy Source Outlook (Volume, MW; Revenue, USD Billion, 2021 - 2033)

Solar PV

Wind

Battery Energy Storage

Diesel / Gas Generators

Hybrid Systems

Others

Application Outlook (Volume, MW; Revenue, USD Billion, 2021 - 2033)

Commercial & Industrial

Residential

Utility

Remote / Off-grid

Regional Outlook (Volume, MW; Revenue, USD Billion, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Italy

Spain

Asia Pacific

China

India

Japan

South Korea

Australia

Latin America

Brazil

Argentina

Middle East & Africa

Saudi Arabia

UAE

South Africa

This report can be delivered to the clients within 3 Business Days

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