

Global Microgrid and Solar PV Solutions Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Microgrid and Solar PV Solutions market size was valued at US\$ 263411 million in 2025 and is forecast to a readjusted size of US\$ 447159 million by 2032 with a CAGR of 7.7% during review period.

Microgrid and Solar PV Solutions refer to integrated energy systems and service offerings that combine solar photovoltaic generation, battery energy storage, power conversion equipment, electrical distribution, microgrid controllers, energy management systems, DERMS, islanding control, black-start capability, forecasting, load management, EPC, O&M and energy-as-a-service models. The scope focuses on solution providers that can coordinate solar generation, storage assets, conventional backup generation, controllable loads and the utility grid as one controllable energy system. These solutions are deployed across commercial and industrial facilities, campuses, hospitals, data centers, mines, islands, remote communities, public infrastructure, telecom sites and utility-scale renewable power plants to improve resilience, reduce energy cost, increase renewable penetration and enable more flexible operation of distributed energy resources.

Based on our research, the market for microgrid and solar PV solutions is no longer defined by standalone solar EPC or discrete hardware sales. It is evolving into a system-level competition around power electronics, battery energy storage, microgrid control, energy management software, engineering delivery and long-term operation. Solar PV deployment remains the demand foundation, but customers increasingly seek resilient, low-carbon and dispatchable energy systems rather than simple generation assets. This shift is particularly evident in commercial and industrial facilities, campuses, hospitals,

data centers, mines, islands and remote communities, where solar generation alone cannot address outage resilience, nighttime supply, power quality or intermittency. As a result, PV-plus-storage, grid-forming inverters, BESS integration, microgrid controllers, EMS/DERMS and hybrid power systems are becoming key differentiators.

Demand growth is supported by the continuing expansion of global solar PV capacity, but the higher-value segment is shifting toward integrated solutions that combine PV, storage, load control, EV charging, backup generation and digital operation. IRENA reported that solar accounted for the majority of renewable capacity additions in 2025, while SolarPower Europe expects global annual solar installations to continue rising toward the end of the decade. At the same time, battery cost declines have improved the economics of PV-plus-storage and microgrid projects, making resilience, peak shaving, self-consumption and grid-support functions increasingly commercial rather than purely policy-driven. The market will therefore grow not only through more installed PV capacity, but also through higher storage attachment rates, smarter controls and stronger service content per project.

From a trend perspective, the competitive focus of microgrid and solar PV solutions will shift further from lowest upfront system cost to lifecycle energy performance, dispatchability, grid compliance, cybersecurity, resilience and local service capability. Chinese suppliers are likely to retain strong advantages in solar PV, energy storage, power electronics and cost-driven product iteration, while European and North American companies will continue to hold strengths in electrical safety, microgrid control, grid-code compliance, critical infrastructure projects and energy-as-a-service models. Over the next three to five years, grid-forming technology, AI-assisted forecasting and dispatch, DERMS/VPP integration, C&I solar-plus-storage-charging systems, data center power resilience, island microgrids and mining hybrid power systems are expected to become higher-value growth areas. At the same time, module price deflation, trade barriers, grid interconnection delays, project financing costs, storage safety requirements and local content rules will raise the threshold for solution providers. Companies with integrated hardware, software, engineering, financing and O&M capabilities will be better positioned than single-product suppliers, especially in projects where reliability, operating guarantees and long-term performance matter more than initial equipment pricing.

This report is a detailed and comprehensive analysis for global Microgrid and Solar PV Solutions market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing,

this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Microgrid and Solar PV Solutions market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Microgrid and Solar PV Solutions market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Microgrid and Solar PV Solutions market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Microgrid and Solar PV Solutions market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for Microgrid and Solar PV Solutions

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global Microgrid and Solar PV Solutions 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 TotalEnergies SE, EDF Group, bp p.l.c., Siemens AG, Schneider Electric SE, ENGIE SA, Enel S.p.A., Iberdrola, S.A., RWE AG, ABB Ltd, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Microgrid and Solar PV Solutions market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Energy Management Solution

Hybrid Power Solution

Other

Market segment by Technology Route

Grid-following Inverter-based

Grid-forming Inverter-based

Other

Market segment by Core Equipment Configuration

PV + Battery Configuration

PV + Battery + Generator Configuration

PV + Battery + EV Charger Configuration

PV + Battery + EMS Configuration

Other

Market segment by System Architecture

Grid-connected System

Off-grid System

Other

Market segment by Application

EV Charging Integration

Grid Support Services

Other

Market segment by players, this report covers

TotalEnergies SE

EDF Group

bp p.l.c.

Siemens AG

Schneider Electric SE

ENGIE SA

Enel S.p.A.

Iberdrola, S.A.

RWE AG

ABB Ltd

Hitachi, Ltd.

Eaton Corporation plc

GE Vernova Inc.

Honeywell International Inc.

Southern Company

The Tata Power Company Limited

EDP, S.A.

BayWa r.e. AG

RES Group

Sterling and Wilson Renewable Energy Limited

Ameresco, Inc.

Aggreko Limited

Elevion Group

JUWI GmbH

Generac Holdings Inc.

Scale Microgrids

Jakson Group

Solarvest Holdings Berhad

Cleantech Solar

Market segment by regions, regional analysis covers

Global Microgrid and Solar PV Solutions Market 2026 by Company, Regions, Type and Application, Forecast to 203...

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Microgrid and Solar PV Solutions product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Microgrid and Solar PV Solutions, with revenue, gross margin, and global market share of Microgrid and Solar PV Solutions from 2021 to 2026.

Chapter 3, the Microgrid and Solar PV Solutions competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Microgrid and Solar PV Solutions market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Microgrid and Solar PV Solutions.

Chapter 13, to describe Microgrid and Solar PV Solutions research findings and conclusion.

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