

Global Off-grid Photovoltaic Systems Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Off-grid Photovoltaic Systems market size is expected to reach \$ 17254 million by 2032, rising at a market growth of 9.3% CAGR during the forecast period (2026-2032).

Off-grid photovoltaic systems are standalone solar power generation systems that operate independently of the main utility grid, consisting of solar panels, charge controllers, battery storage, and inverters to convert DC power to AC for standard appliances. Unlike grid-tied systems, off-grid systems require battery storage to provide power during nighttime or low-sunlight periods, making them essential for remote locations where grid extension is impractical or cost-prohibitive. System sizes range from small pico-solar systems (1-10W) for lighting and phone charging to large solar home systems (50-500W) and village-level mini-grids (>1kW). From a value chain perspective, upstream includes silicon wafer and solar cell manufacturers, battery cell producers (lead-acid, lithium-ion), power electronics suppliers (MPPT controllers, inverters), and balance-of-system component makers; midstream involves system design, component sourcing, assembly, distribution, and installation services; downstream demand spans rural electrification in developing regions (Sub-Saharan Africa, South Asia), remote industrial applications (telecom towers, monitoring stations), disaster relief and emergency preparedness, recreational vehicles and marine applications, and off-grid commercial facilities (safari lodges, research stations). In 2025, the average selling price is approximately US\$723 per system, global sales volume is about 12.50 million units, and gross margins generally range from 10% to 25%, driven by solar panel costs, battery technology choices, balance-of-system component expenses, and installation complexity.

The off-grid photovoltaic systems market is experiencing transformative growth driven

by declining component costs, improved battery technologies, and increasing recognition of solar energy as the most cost-effective solution for rural electrification. Solar panel prices have fallen by over 85% in the past decade, making off-grid systems increasingly affordable for low-income households in developing regions. This cost reduction has enabled pay-as-you-go (PAYG) business models, where consumers make small mobile money payments to unlock system usage, dramatically expanding access to clean energy for off-grid populations.

Another significant trend is the rapid transition from lead-acid to lithium-ion battery storage. While lead-acid batteries have historically dominated the off-grid market due to lower upfront costs, lithium-ion batteries (particularly LiFePO₄) are gaining substantial market share due to longer cycle life (3,000-5,000 cycles vs. 500-1,000 cycles), higher depth of discharge (80-95% vs. 50%), and reduced maintenance requirements. The total cost of ownership for lithium-ion systems is now competitive with or lower than lead-acid in many applications, accelerating the transition.

The market is also witnessing increasing product sophistication and digitalization. Modern off-grid systems feature integrated smart controllers with Bluetooth or Wi-Fi connectivity, enabling remote monitoring via mobile applications. Users can track energy consumption, battery status, and system performance in real-time, while service providers can perform remote diagnostics and predictive maintenance. This digital layer has enabled innovative financing models and improved system reliability.

This report studies the global Off-grid Photovoltaic Systems production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Off-grid Photovoltaic Systems and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Off-grid Photovoltaic Systems that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Off-grid Photovoltaic Systems total production and demand, 2021-2032, (Units)
Global Off-grid Photovoltaic Systems total production value, 2021-2032, (USD Million)
Global Off-grid Photovoltaic Systems production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)
Global Off-grid Photovoltaic Systems consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Off-grid Photovoltaic Systems domestic production, consumption, key domestic manufacturers and share

Global Off-grid Photovoltaic Systems production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Off-grid Photovoltaic Systems production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Off-grid Photovoltaic Systems production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Off-grid Photovoltaic Systems market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Sun King (formerly Greenlight Planet) (KE), M-KOPA (KE), d.light (US/KE), BBOXX (GB), SolarNow (NL), Fenix International (Engie) (UG), Nuru (CD), Azuri Technologies (GB), Vivo Energy (NL), Schneider Electric (FR), etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Off-grid Photovoltaic Systems market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Off-grid Photovoltaic Systems Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Off-grid Photovoltaic Systems Market, Segmentation by Type:

Small DC Systems

Medium Off-grid Power Generation Systems

Large Off-grid Power Generation Systems

Global Off-grid Photovoltaic Systems Market, Segmentation by Battery Type:

Lead-Acid Battery Off-grid System

Lithium-Ion (LiFePO?) Off-grid System

Nickel-Based Battery System

Global Off-grid Photovoltaic Systems Market, Segmentation by Output Type:

DC-Only Off-grid System

AC-Capable Off-grid System (with Inverter)

DC + AC Hybrid System

Global Off-grid Photovoltaic Systems Market, Segmentation by Application:

Residential

Commercial

Others

Companies Profiled:

Sun King (formerly Greenlight Planet) (KE)

M-KOPA (KE)

d.light (US/KE)

BBOXX (GB)

SolarNow (NL)

Fenix International (Engie) (UG)

Nuru (CD)

Azuri Technologies (GB)

Vivo Energy (NL)

Schneider Electric (FR)

Huawei Technologies Co., Ltd. (CN)

Sungrow Power Supply Co., Ltd. (CN)

Growatt New Energy Co., Ltd. (CN)

JinkoSolar Holding Co., Ltd. (CN)

Trina Solar Co., Ltd. (CN)

Panasonic Corporation (JP)

Kyocera Corporation (JP)

TotalEnergies (FR)

ENGIE (FR)

Key Questions Answered:

1. How big is the global Off-grid Photovoltaic Systems market?
2. What is the demand of the global Off-grid Photovoltaic Systems market?
3. What is the year over year growth of the global Off-grid Photovoltaic Systems market?
4. What is the production and production value of the global Off-grid Photovoltaic Systems market?
5. Who are the key producers in the global Off-grid Photovoltaic Systems market?
6. What are the growth factors driving the market demand?

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