

Global Residential PV-ESS System Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G74D15C15677EN.html>

Date: April 2026

Pages: 150

Price: US\$ 3,480.00 (Single User License)

ID: G74D15C15677EN

Abstracts

According to our (Global Info Research) latest study, the global Residential PV-ESS System market size was valued at US\$ 3614 million in 2025 and is forecast to a readjusted size of US\$ 17585 million by 2032 with a CAGR of 25.3% during review period.

A Residential PV-ESS (Photovoltaic-Energy Storage System) is a home energy solution that combines solar panels (photovoltaic or PV) with an energy storage system to generate, store, and utilize electricity for residential use. The PV system captures sunlight and converts it into electricity, which can be used to power household appliances or charge the storage system. The energy storage component, typically a battery, stores excess electricity generated during sunny periods for use during nighttime or periods of low sunlight. This integration enhances energy efficiency, reduces dependence on the grid, and can lead to cost savings on electricity bills. Additionally, it provides a backup power source in case of grid outages, contributing to greater energy resilience and sustainability. The cost of a Residential PV Energy Storage System is approximately \$1300/kW.

The upstream of Residential PV-ESS Systems mainly involves the supply of photovoltaic modules, battery cells, inverters, power electronics, and structural components. Key upstream materials include polysilicon wafers, solar cells, lithium-ion battery materials such as lithium salts, cathode and anode materials, electrolytes, battery management systems, semiconductor chips, and electronic components used in inverters and energy management systems. Midstream manufacturers integrate these components into photovoltaic panels, residential battery packs, hybrid inverters, and complete solar-plus-storage systems, often combined with monitoring software and

energy management platforms. The downstream primarily consists of residential users and installation service providers, including solar installers, distributed energy solution integrators, and energy service companies. These systems are deployed on rooftops or within residential buildings to support self-consumption of solar electricity, backup power during grid outages, and participation in distributed energy programs such as virtual power plants or grid demand response.

The Residential PV-ESS System market is experiencing rapid growth as households increasingly adopt distributed renewable energy solutions to reduce electricity costs, improve energy independence, and enhance resilience against grid instability. The expansion of rooftop solar installations and the intermittent nature of solar generation have driven demand for home battery systems that can store excess daytime energy for nighttime use or during power outages. Declining costs of photovoltaic modules and lithium-ion batteries, along with improvements in battery efficiency and smart energy management technologies, are further accelerating adoption. In addition, supportive government policies, incentives, and the rise of smart grid and virtual power plant programs are encouraging households to integrate solar and storage into comprehensive home energy systems. As a result, residential PV-ESS solutions are transitioning from niche installations to a mainstream component of distributed energy infrastructure and smart home energy management worldwide.

This report is a detailed and comprehensive analysis for global Residential PV-ESS System market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Battery 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 Residential PV-ESS System market size and forecasts, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2021-2032

Global Residential PV-ESS System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2021-2032

Global Residential PV-ESS System market size and forecasts, by Battery Type and by

Application, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2021-2032

Global Residential PV-ESS System market shares of main players, shipments in revenue (\$ Million), sales quantity (MW), and ASP (US\$/KW), 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 Residential PV-ESS System

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 Residential PV-ESS System market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Tesla, Pylontech, BYD, Huawei, LG, Alpha ESS, Sonnen, E3/DC, SENEK, Enphase Energy, etc.

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

Market Segmentation

Residential PV-ESS System market is split by Battery Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Battery Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Battery Type

LFP Battery

Ternary Lithium Battery

Others

Market segment by Type

All-in-one System

Split-type System

Market segment by System Configuration

AC-Coupled Systems

DC-Coupled Systems

Hybrid PV-Storage Systems

Market segment by Application

Below 10kWh

Above 10kWh

Major players covered

Tesla

Pylontech

BYD

Huawei

LG

Alpha ESS

Sonnen

E3/DC

SENEC

Enphase Energy

VARTA

Sofarsolar

Great Power Battery

Growatt

Gotion High Tech

Eve Energy

Sunwoda Electronic

Samsung SDI

ATL

CATL

SolaX Power

Sanjing Electric

Kstar Science & Tech...

Hiconics Eco-energy ..

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Residential PV-ESS System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Residential PV-ESS System, with price, sales quantity, revenue, and global market share of Residential PV-ESS System from 2021 to 2026.

Chapter 3, the Residential PV-ESS System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Residential PV-ESS System breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Battery Type and by Application, with sales market share and growth rate by Battery Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Residential PV-ESS System market forecast, by regions, by Battery Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Residential PV-ESS System.

Chapter 14 and 15, to describe Residential PV-ESS System sales channel, distributors, customers, research findings and conclusion.

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