

Global Residential Solar Energy Storage Deployments Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Residential Solar Energy Storage Deployments market size is expected to reach \$ 47205 million by 2032, rising at a market growth of 15.6% CAGR during the forecast period (2026-2032).

Residential Solar Energy Storage Deployments refer to the installation and operation of photovoltaic-linked battery storage systems in household scenarios, combining solar power absorption, electrochemical energy storage, power conversion, battery management, safety protection, and coordinated system control to improve residential energy self-consumption and backup reliability. Compared with standalone home batteries, their advantages lie in closer coordination with rooftop solar generation, more flexible capacity configuration, faster response, stronger household backup capability, and better operating value under time-of-use pricing, peak-load control, and distributed energy management. In 2025, production was approximately 66.6 million kWh and the average price was USD 250 per kWh. In 2025, the industry's capacity utilization rate was about 61% and the average gross margin was around 30%. Upstream, the core inputs include lithium-ion battery cells and photovoltaic modules, with representative suppliers such as CATL, BYD, EVE Energy, LONGi, JinkoSolar, and Trina Solar providing standardized storage and solar generation components. The midstream segment covers system configuration, battery management strategy, inverter and power conversion design, electrical integration, thermal control, software coordination, certification testing, and project delivery, turning variable photovoltaic output and site-level load demand into stable, controllable energy operation. Downstream, Solar PV Battery Storage System is mainly used in grid-connected and off-grid scenarios, where grid-connected systems improve self-consumption, peak shaving, demand management, and grid interaction, while off-grid systems support independent power supply for remote sites, outdoor facilities, backup applications, and areas with limited

grid access.

Residential Solar Energy Storage Deployments are becoming a household energy management choice shaped by rooftop solar adoption, time-of-use tariffs, backup power needs, and rising attention to electricity autonomy. In practical use, the value is reflected in storing daytime solar generation, covering evening household loads, reducing grid dependence, and improving resilience during outages. The competitive focus will shift from hardware installation volume to system efficiency, battery safety, smart control, installation standardization, and after-sales service. Providers that can simplify deployment, optimize energy scheduling, and build repeatable residential solutions will be better positioned to capture margin through integrated products and service-based differentiation.

This report studies the global Residential Solar Energy Storage Deployments production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Residential Solar Energy Storage Deployments 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 Residential Solar Energy Storage Deployments that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Residential Solar Energy Storage Deployments total production and demand, 2021-2032, (KWh)

Global Residential Solar Energy Storage Deployments total production value, 2021-2032, (USD Million)

Global Residential Solar Energy Storage Deployments production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (KWh), (based on production site)

Global Residential Solar Energy Storage Deployments consumption by region & country, CAGR, 2021-2032 & (KWh)

U.S. VS China: Residential Solar Energy Storage Deployments domestic production, consumption, key domestic manufacturers and share

Global Residential Solar Energy Storage Deployments production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (KWh)

Global Residential Solar Energy Storage Deployments production by Type, production, value, CAGR, 2021-2032, (USD Million) & (KWh)

Global Residential Solar Energy Storage Deployments production by Application, production, value, CAGR, 2021-2032, (USD Million) & (KWh)

This report profiles key players in the global Residential Solar Energy Storage Deployments 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 Tesla (USA), LG Energy Solution (South Korea), sonnen (Germany), Huawei (China), BYD (China), Panasonic (Japan), SENECA (Germany), Enphase Energy (USA), VARTA AG (Germany), E3/DC (Germany), 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 Residential Solar Energy Storage Deployments market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (KWh) and average price (US\$/KWh) 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 Residential Solar Energy Storage Deployments Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Residential Solar Energy Storage Deployments Market, Segmentation by Type:

Below 10kWh

10-19kWh

20-29kWh

Above 30kWh

Global Residential Solar Energy Storage Deployments Market, Segmentation by Coupling:

DC-Coupled Storage Battery

AC-Coupled Storage Battery

Global Residential Solar Energy Storage Deployments Market, Segmentation by Protection:

IP54

IP65

IP67

Others

Global Residential Solar Energy Storage Deployments Market, Segmentation by Application:

Off-Grid Power Supply

Grid-Tied Power Supply

Companies Profiled:

Tesla (USA)

LG Energy Solution (South Korea)

sonnen (Germany)

Huawei (China)

BYD (China)

Panasonic (Japan)

SENEC (Germany)

Enphase Energy (USA)

VARTA AG (Germany)

E3/DC (Germany)

Pylontech (China)

BMZ (Germany)

Generac (USA)

SimpliPhi Power (USA)

Solax Power (China)

Outback Power (USA)

Goodwe (China)

Key Questions Answered:

1. How big is the global Residential Solar Energy Storage Deployments market?
2. What is the demand of the global Residential Solar Energy Storage Deployments market?
3. What is the year over year growth of the global Residential Solar Energy Storage Deployments market?
4. What is the production and production value of the global Residential Solar Energy Storage Deployments market?
5. Who are the key producers in the global Residential Solar Energy Storage Deployments market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Residential Solar Energy Storage Deployments Introduction
- 1.2 World Residential Solar Energy Storage Deployments Supply & Forecast
 - 1.2.1 World Residential Solar Energy Storage Deployments Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Residential Solar Energy Storage Deployments Production (2021-2032)
 - 1.2.3 World Residential Solar Energy Storage Deployments Pricing Trends (2021-2032)
- 1.3 World Residential Solar Energy Storage Deployments Production by Region (Based on Production Site)
 - 1.3.1 World Residential Solar Energy Storage Deployments Production Value by Region (2021-2032)
 - 1.3.2 World Residential Solar Energy Storage Deployments Production by Region (2021-2032)
 - 1.3.3 World Residential Solar Energy Storage Deployments Average Price by Region (2021-2032)
 - 1.3.4 North America Residential Solar Energy Storage Deployments Production (2021-2032)
 - 1.3.5 Europe Residential Solar Energy Storage Deployments Production (2021-2032)
 - 1.3.6 China Residential Solar Energy Storage Deployments Production (2021-2032)
 - 1.3.7 Japan Residential Solar Energy Storage Deployments Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Residential Solar Energy Storage Deployments Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Residential Solar Energy Storage Deployments Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Residential Solar Energy Storage Deployments Demand (2021-2032)
- 2.2 World Residential Solar Energy Storage Deployments Consumption by Region
 - 2.2.1 World Residential Solar Energy Storage Deployments Consumption by Region (2021-2026)
 - 2.2.2 World Residential Solar Energy Storage Deployments Consumption Forecast by Region (2027-2032)
- 2.3 United States Residential Solar Energy Storage Deployments Consumption (2021-2032)

- 2.4 China Residential Solar Energy Storage Deployments Consumption (2021-2032)
- 2.5 Europe Residential Solar Energy Storage Deployments Consumption (2021-2032)
- 2.6 Japan Residential Solar Energy Storage Deployments Consumption (2021-2032)
- 2.7 South Korea Residential Solar Energy Storage Deployments Consumption (2021-2032)
- 2.8 ASEAN Residential Solar Energy Storage Deployments Consumption (2021-2032)
- 2.9 India Residential Solar Energy Storage Deployments Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Residential Solar Energy Storage Deployments Production Value by Manufacturer (2021-2026)
- 3.2 World Residential Solar Energy Storage Deployments Production by Manufacturer (2021-2026)
- 3.3 World Residential Solar Energy Storage Deployments Average Price by Manufacturer (2021-2026)
- 3.4 Residential Solar Energy Storage Deployments Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Residential Solar Energy Storage Deployments Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Residential Solar Energy Storage Deployments in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Residential Solar Energy Storage Deployments in 2025
- 3.6 Residential Solar Energy Storage Deployments Market: Overall Company Footprint Analysis
 - 3.6.1 Residential Solar Energy Storage Deployments Market: Region Footprint
 - 3.6.2 Residential Solar Energy Storage Deployments Market: Company Product Type Footprint
 - 3.6.3 Residential Solar Energy Storage Deployments Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Residential Solar Energy Storage Deployments Production Value Comparison

4.1.1 United States VS China: Residential Solar Energy Storage Deployments Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Residential Solar Energy Storage Deployments Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Residential Solar Energy Storage Deployments Production Comparison

4.2.1 United States VS China: Residential Solar Energy Storage Deployments Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Residential Solar Energy Storage Deployments Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Residential Solar Energy Storage Deployments Consumption Comparison

4.3.1 United States VS China: Residential Solar Energy Storage Deployments Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Residential Solar Energy Storage Deployments Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Residential Solar Energy Storage Deployments Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Residential Solar Energy Storage Deployments Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Residential Solar Energy Storage Deployments Production Value (2021-2026)

4.4.3 United States Based Manufacturers Residential Solar Energy Storage Deployments Production (2021-2026)

4.5 China Based Residential Solar Energy Storage Deployments Manufacturers and Market Share

4.5.1 China Based Residential Solar Energy Storage Deployments Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Residential Solar Energy Storage Deployments Production Value (2021-2026)

4.5.3 China Based Manufacturers Residential Solar Energy Storage Deployments Production (2021-2026)

4.6 Rest of World Based Residential Solar Energy Storage Deployments Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Residential Solar Energy Storage Deployments Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Residential Solar Energy Storage Deployments Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Residential Solar Energy Storage Deployments Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Residential Solar Energy Storage Deployments Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Below 10kWh

5.2.2 10-19kWh

5.2.3 20-29kWh

5.2.4 Above 30kWh

5.3 Market Segment by Type

5.3.1 World Residential Solar Energy Storage Deployments Production by Type (2021-2032)

5.3.2 World Residential Solar Energy Storage Deployments Production Value by Type (2021-2032)

5.3.3 World Residential Solar Energy Storage Deployments Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY COUPLING

6.1 World Residential Solar Energy Storage Deployments Market Size Overview by Coupling: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Coupling

6.2.1 DC-Coupled Storage Battery

6.2.2 AC-Coupled Storage Battery

6.3 Market Segment by Coupling

6.3.1 World Residential Solar Energy Storage Deployments Production by Coupling (2021-2032)

6.3.2 World Residential Solar Energy Storage Deployments Production Value by Coupling (2021-2032)

6.3.3 World Residential Solar Energy Storage Deployments Average Price by Coupling (2021-2032)

7 MARKET ANALYSIS BY PROTECTION

7.1 World Residential Solar Energy Storage Deployments Market Size Overview by Protection: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Protection

7.2.1 IP54

7.2.2 IP65

7.2.3 IP67

7.2.4 Others

7.3 Market Segment by Protection

7.3.1 World Residential Solar Energy Storage Deployments Production by Protection (2021-2032)

7.3.2 World Residential Solar Energy Storage Deployments Production Value by Protection (2021-2032)

7.3.3 World Residential Solar Energy Storage Deployments Average Price by Protection (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Residential Solar Energy Storage Deployments Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Off-Grid Power Supply

8.2.2 Grid-Tied Power Supply

8.3 Market Segment by Application

8.3.1 World Residential Solar Energy Storage Deployments Production by Application (2021-2032)

8.3.2 World Residential Solar Energy Storage Deployments Production Value by Application (2021-2032)

8.3.3 World Residential Solar Energy Storage Deployments Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Tesla (USA)

9.1.1 Tesla (USA) Details

9.1.2 Tesla (USA) Major Business

9.1.3 Tesla (USA) Residential Solar Energy Storage Deployments Product and Services

9.1.4 Tesla (USA) Residential Solar Energy Storage Deployments Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.1.5 Tesla (USA) Recent Developments/Updates
- 9.1.6 Tesla (USA) Competitive Strengths & Weaknesses
- 9.2 LG Energy Solution (South Korea)
 - 9.2.1 LG Energy Solution (South Korea) Details
 - 9.2.2 LG Energy Solution (South Korea) Major Business
 - 9.2.3 LG Energy Solution (South Korea) Residential Solar Energy Storage Deployments Product and Services
 - 9.2.4 LG Energy Solution (South Korea) Residential Solar Energy Storage Deployments Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 LG Energy Solution (South Korea) Recent Developments/Updates
 - 9.2.6 LG Energy Solution (South Korea) Competitive Strengths & Weaknesses
- 9.3 sonnen (Germany)
 - 9.3.1 sonnen (Germany) Details
 - 9.3.2 sonnen (Germany) Major Business
 - 9.3.3 sonnen (Germany) Residential Solar Energy Storage Deployments Product and Services
 - 9.3.4 sonnen (Germany) Residential Solar Energy Storage Deployments Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 sonnen (Germany) Recent Developments/Updates
 - 9.3.6 sonnen (Germany) Competitive Strengths & Weaknesses
- 9.4 Huawei (China)
 - 9.4.1 Huawei (China) Details
 - 9.4.2 Huawei (China) Major Business
 - 9.4.3 Huawei (China) Residential Solar Energy Storage Deployments Product and Services
 - 9.4.4 Huawei (China) Residential Solar Energy Storage Deployments Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Huawei (China) Recent Developments/Updates
 - 9.4.6 Huawei (China) Competitive Strengths & Weaknesses
- 9.5 BYD (China)
 - 9.5.1 BYD (China) Details
 - 9.5.2 BYD (China) Major Business
 - 9.5.3 BYD (China) Residential Solar Energy Storage Deployments Product and Services
 - 9.5.4 BYD (China) Residential Solar Energy Storage Deployments Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 BYD (China) Recent Developments/Updates
 - 9.5.6 BYD (China) Competitive Strengths & Weaknesses
- 9.6 Panasonic (Japan)

- 9.6.1 Panasonic (Japan) Details
- 9.6.2 Panasonic (Japan) Major Business
- 9.6.3 Panasonic (Japan) Residential Solar Energy Storage Deployments Product and Services
- 9.6.4 Panasonic (Japan) Residential Solar Energy Storage Deployments Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.6.5 Panasonic (Japan) Recent Developments/Updates
- 9.6.6 Panasonic (Japan) Competitive Strengths & Weaknesses
- 9.7 SENEK (Germany)
 - 9.7.1 SENEK (Germany) Details
 - 9.7.2 SENEK (Germany) Major Business
 - 9.7.3 SENEK (Germany) Residential Solar Energy Storage Deployments Product and Services
 - 9.7.4 SENEK (Germany) Residential Solar Energy Storage Deployments Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 SENEK (Germany) Recent Developments/Updates
 - 9.7.6 SENEK (Germany) Competitive Strengths & Weaknesses
- 9.8 Enphase Energy (USA)
 - 9.8.1 Enphase Energy (USA) Details
 - 9.8.2 Enphase Energy (USA) Major Business
 - 9.8.3 Enphase Energy (USA) Residential Solar Energy Storage Deployments Product and Services
 - 9.8.4 Enphase Energy (USA) Residential Solar Energy Storage Deployments Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Enphase Energy (USA) Recent Developments/Updates
 - 9.8.6 Enphase Energy (USA) Competitive Strengths & Weaknesses
- 9.9 VARTA AG (Germany)
 - 9.9.1 VARTA AG (Germany) Details
 - 9.9.2 VARTA AG (Germany) Major Business
 - 9.9.3 VARTA AG (Germany) Residential Solar Energy Storage Deployments Product and Services
 - 9.9.4 VARTA AG (Germany) Residential Solar Energy Storage Deployments Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 VARTA AG (Germany) Recent Developments/Updates
 - 9.9.6 VARTA AG (Germany) Competitive Strengths & Weaknesses
- 9.10 E3/DC (Germany)
 - 9.10.1 E3/DC (Germany) Details
 - 9.10.2 E3/DC (Germany) Major Business
 - 9.10.3 E3/DC (Germany) Residential Solar Energy Storage Deployments Product and

Services

9.10.4 E3/DC (Germany) Residential Solar Energy Storage Deployments Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 E3/DC (Germany) Recent Developments/Updates

9.10.6 E3/DC (Germany) Competitive Strengths & Weaknesses

9.11 Pylontech (China)

9.11.1 Pylontech (China) Details

9.11.2 Pylontech (China) Major Business

9.11.3 Pylontech (China) Residential Solar Energy Storage Deployments Product and Services

9.11.4 Pylontech (China) Residential Solar Energy Storage Deployments Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Pylontech (China) Recent Developments/Updates

9.11.6 Pylontech (China) Competitive Strengths & Weaknesses

9.12 BMZ (Germany)

9.12.1 BMZ (Germany) Details

9.12.2 BMZ (Germany) Major Business

9.12.3 BMZ (Germany) Residential Solar Energy Storage Deployments Product and Services

9.12.4 BMZ (Germany) Residential Solar Energy Storage Deployments Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 BMZ (Germany) Recent Developments/Updates

9.12.6 BMZ (Germany) Competitive Strengths & Weaknesses

9.13 Generac (USA)

9.13.1 Generac (USA) Details

9.13.2 Generac (USA) Major Business

9.13.3 Generac (USA) Residential Solar Energy Storage Deployments Product and Services

9.13.4 Generac (USA) Residential Solar Energy Storage Deployments Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Generac (USA) Recent Developments/Updates

9.13.6 Generac (USA) Competitive Strengths & Weaknesses

9.14 SimpliPhi Power (USA)

9.14.1 SimpliPhi Power (USA) Details

9.14.2 SimpliPhi Power (USA) Major Business

9.14.3 SimpliPhi Power (USA) Residential Solar Energy Storage Deployments Product and Services

9.14.4 SimpliPhi Power (USA) Residential Solar Energy Storage Deployments Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.14.5 SimpliPhi Power (USA) Recent Developments/Updates
- 9.14.6 SimpliPhi Power (USA) Competitive Strengths & Weaknesses
- 9.15 Solax Power (China)
 - 9.15.1 Solax Power (China) Details
 - 9.15.2 Solax Power (China) Major Business
 - 9.15.3 Solax Power (China) Residential Solar Energy Storage Deployments Product and Services
 - 9.15.4 Solax Power (China) Residential Solar Energy Storage Deployments Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 Solax Power (China) Recent Developments/Updates
 - 9.15.6 Solax Power (China) Competitive Strengths & Weaknesses
- 9.16 Outback Power (USA)
 - 9.16.1 Outback Power (USA) Details
 - 9.16.2 Outback Power (USA) Major Business
 - 9.16.3 Outback Power (USA) Residential Solar Energy Storage Deployments Product and Services
 - 9.16.4 Outback Power (USA) Residential Solar Energy Storage Deployments Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.16.5 Outback Power (USA) Recent Developments/Updates
 - 9.16.6 Outback Power (USA) Competitive Strengths & Weaknesses
- 9.17 Goodwe (China)
 - 9.17.1 Goodwe (China) Details
 - 9.17.2 Goodwe (China) Major Business
 - 9.17.3 Goodwe (China) Residential Solar Energy Storage Deployments Product and Services
 - 9.17.4 Goodwe (China) Residential Solar Energy Storage Deployments Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.17.5 Goodwe (China) Recent Developments/Updates
 - 9.17.6 Goodwe (China) Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Residential Solar Energy Storage Deployments Industry Chain
- 10.2 Residential Solar Energy Storage Deployments Upstream Analysis
 - 10.2.1 Residential Solar Energy Storage Deployments Core Raw Materials
 - 10.2.2 Main Manufacturers of Residential Solar Energy Storage Deployments Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis

10.5 Residential Solar Energy Storage Deployments Production Mode

10.6 Residential Solar Energy Storage Deployments Procurement Model

10.7 Residential Solar Energy Storage Deployments Industry Sales Model and Sales Channels

10.7.1 Residential Solar Energy Storage Deployments Sales Model

10.7.2 Residential Solar Energy Storage Deployments Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Residential Solar Energy Storage Deployments Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Residential Solar Energy Storage Deployments Production Value by Region (2021-2026) & (USD Million)

Table 3. World Residential Solar Energy Storage Deployments Production Value by Region (2027-2032) & (USD Million)

Table 4. World Residential Solar Energy Storage Deployments Production Value Market Share by Region (2021-2026)

Table 5. World Residential Solar Energy Storage Deployments Production Value Market Share by Region (2027-2032)

Table 6. World Residential Solar Energy Storage Deployments Production by Region (2021-2026) & (KWh)

Table 7. World Residential Solar Energy Storage Deployments Production by Region (2027-2032) & (KWh)

Table 8. World Residential Solar Energy Storage Deployments Production Market Share by Region (2021-2026)

Table 9. World Residential Solar Energy Storage Deployments Production Market Share by Region (2027-2032)

Table 10. World Residential Solar Energy Storage Deployments Average Price by Region (2021-2026) & (US\$/KWh)

Table 11. World Residential Solar Energy Storage Deployments Average Price by Region (2027-2032) & (US\$/KWh)

Table 12. Residential Solar Energy Storage Deployments Major Market Trends

Table 13. World Residential Solar Energy Storage Deployments Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (KWh)

Table 14. World Residential Solar Energy Storage Deployments Consumption by Region (2021-2026) & (KWh)

Table 15. World Residential Solar Energy Storage Deployments Consumption Forecast by Region (2027-2032) & (KWh)

Table 16. World Residential Solar Energy Storage Deployments Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Residential Solar Energy Storage Deployments Producers in 2025

Table 18. World Residential Solar Energy Storage Deployments Production by Manufacturer (2021-2026) & (KWh)

Table 19. Production Market Share of Key Residential Solar Energy Storage Deployments Producers in 2025
Table 20. World Residential Solar Energy Storage Deployments Average Price by Manufacturer (2021-2026) & (US\$/KWh)
Table 21. Global Residential Solar Energy Storage Deployments Company Evaluation Quadrant
Table 22. World Residential Solar Energy Storage Deployments Industry Rank of Major Manufacturers, Based on Production Value in 2025
Table 23. Head Office and Residential Solar Energy Storage Deployments Production Site of Key Manufacturer
Table 24. Residential Solar Energy Storage Deployments Market: Company Product Type Footprint
Table 25. Residential Solar Energy Storage Deployments Market: Company Product Application Footprint
Table 26. Residential Solar Energy Storage Deployments Competitive Factors
Table 27. Residential Solar Energy Storage Deployments New Entrant and Capacity Expansion Plans
Table 28. Residential Solar Energy Storage Deployments Mergers & Acquisitions Activity
Table 29. United States VS China Residential Solar Energy Storage Deployments Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China Residential Solar Energy Storage Deployments Production Comparison, (2021 & 2025 & 2032) & (KWh)
Table 31. United States VS China Residential Solar Energy Storage Deployments Consumption Comparison, (2021 & 2025 & 2032) & (KWh)
Table 32. United States Based Residential Solar Energy Storage Deployments Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers Residential Solar Energy Storage Deployments Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers Residential Solar Energy Storage Deployments Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers Residential Solar Energy Storage Deployments Production (2021-2026) & (KWh)
Table 36. United States Based Manufacturers Residential Solar Energy Storage Deployments Production Market Share (2021-2026)
Table 37. China Based Residential Solar Energy Storage Deployments Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers Residential Solar Energy Storage Deployments Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Residential Solar Energy Storage Deployments Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Residential Solar Energy Storage Deployments Production, (2021-2026) & (KWh)

Table 41. China Based Manufacturers Residential Solar Energy Storage Deployments Production Market Share (2021-2026)

Table 42. Rest of World Based Residential Solar Energy Storage Deployments Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Residential Solar Energy Storage Deployments Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Residential Solar Energy Storage Deployments Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Residential Solar Energy Storage Deployments Production, (2021-2026) & (KWh)

Table 46. Rest of World Based Manufacturers Residential Solar Energy Storage Deployments Production Market Share (2021-2026)

Table 47. World Residential Solar Energy Storage Deployments Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Residential Solar Energy Storage Deployments Production by Type (2021-2026) & (KWh)

Table 49. World Residential Solar Energy Storage Deployments Production by Type (2027-2032) & (KWh)

Table 50. World Residential Solar Energy Storage Deployments Production Value by Type (2021-2026) & (USD Million)

Table 51. World Residential Solar Energy Storage Deployments Production Value by Type (2027-2032) & (USD Million)

Table 52. World Residential Solar Energy Storage Deployments Average Price by Type (2021-2026) & (US\$/KWh)

Table 53. World Residential Solar Energy Storage Deployments Average Price by Type (2027-2032) & (US\$/KWh)

Table 54. World Residential Solar Energy Storage Deployments Production Value by Coupling, (USD Million), 2021 & 2025 & 2032

Table 55. World Residential Solar Energy Storage Deployments Production by Coupling (2021-2026) & (KWh)

Table 56. World Residential Solar Energy Storage Deployments Production by Coupling (2027-2032) & (KWh)

Table 57. World Residential Solar Energy Storage Deployments Production Value by Coupling (2021-2026) & (USD Million)

Table 58. World Residential Solar Energy Storage Deployments Production Value by

Coupling (2027-2032) & (USD Million)

Table 59. World Residential Solar Energy Storage Deployments Average Price by Coupling (2021-2026) & (US\$/KWh)

Table 60. World Residential Solar Energy Storage Deployments Average Price by Coupling (2027-2032) & (US\$/KWh)

Table 61. World Residential Solar Energy Storage Deployments Production Value by Protection, (USD Million), 2021 & 2025 & 2032

Table 62. World Residential Solar Energy Storage Deployments Production by Protection (2021-2026) & (KWh)

Table 63. World Residential Solar Energy Storage Deployments Production by Protection (2027-2032) & (KWh)

Table 64. World Residential Solar Energy Storage Deployments Production Value by Protection (2021-2026) & (USD Million)

Table 65. World Residential Solar Energy Storage Deployments Production Value by Protection (2027-2032) & (USD Million)

Table 66. World Residential Solar Energy Storage Deployments Average Price by Protection (2021-2026) & (US\$/KWh)

Table 67. World Residential Solar Energy Storage Deployments Average Price by Protection (2027-2032) & (US\$/KWh)

Table 68. World Residential Solar Energy Storage Deployments Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Residential Solar Energy Storage Deployments Production by Application (2021-2026) & (KWh)

Table 70. World Residential Solar Energy Storage Deployments Production by Application (2027-2032) & (KWh)

Table 71. World Residential Solar Energy Storage Deployments Production Value by Application (2021-2026) & (USD Million)

Table 72. World Residential Solar Energy Storage Deployments Production Value by Application (2027-2032) & (USD Million)

Table 73. World Residential Solar Energy Storage Deployments Average Price by Application (2021-2026) & (US\$/KWh)

Table 74. World Residential Solar Energy Storage Deployments Average Price by Application (2027-2032) & (US\$/KWh)

Table 75. Tesla (USA) Basic Information, Manufacturing Base and Competitors

Table 76. Tesla (USA) Major Business

Table 77. Tesla (USA) Residential Solar Energy Storage Deployments Product and Services

Table 78. Tesla (USA) Residential Solar Energy Storage Deployments Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market

Share (2021-2026)

Table 79. Tesla (USA) Recent Developments/Updates

Table 80. Tesla (USA) Competitive Strengths & Weaknesses

Table 81. LG Energy Solution (South Korea) Basic Information, Manufacturing Base and Competitors

Table 82. LG Energy Solution (South Korea) Major Business

Table 83. LG Energy Solution (South Korea) Residential Solar Energy Storage Deployments Product and Services

Table 84. LG Energy Solution (South Korea) Residential Solar Energy Storage Deployments Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. LG Energy Solution (South Korea) Recent Developments/Updates

Table 86. LG Energy Solution (South Korea) Competitive Strengths & Weaknesses

Table 87. sonnen (Germany) Basic Information, Manufacturing Base and Competitors

Table 88. sonnen (Germany) Major Business

Table 89. sonnen (Germany) Residential Solar Energy Storage Deployments Product and Services

Table 90. sonnen (Germany) Residential Solar Energy Storage Deployments Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. sonnen (Germany) Recent Developments/Updates

Table 92. sonnen (Germany) Competitive Strengths & Weaknesses

Table 93. Huawei (China) Basic Information, Manufacturing Base and Competitors

Table 94. Huawei (China) Major Business

Table 95. Huawei (China) Residential Solar Energy Storage Deployments Product and Services

Table 96. Huawei (China) Residential Solar Energy Storage Deployments Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Huawei (China) Recent Developments/Updates

Table 98. Huawei (China) Competitive Strengths & Weaknesses

Table 99. BYD (China) Basic Information, Manufacturing Base and Competitors

Table 100. BYD (China) Major Business

Table 101. BYD (China) Residential Solar Energy Storage Deployments Product and Services

Table 102. BYD (China) Residential Solar Energy Storage Deployments Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. BYD (China) Recent Developments/Updates

Table 104. BYD (China) Competitive Strengths & Weaknesses
Table 105. Panasonic (Japan) Basic Information, Manufacturing Base and Competitors
Table 106. Panasonic (Japan) Major Business
Table 107. Panasonic (Japan) Residential Solar Energy Storage Deployments Product and Services
Table 108. Panasonic (Japan) Residential Solar Energy Storage Deployments Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. Panasonic (Japan) Recent Developments/Updates
Table 110. Panasonic (Japan) Competitive Strengths & Weaknesses
Table 111. SENEK (Germany) Basic Information, Manufacturing Base and Competitors
Table 112. SENEK (Germany) Major Business
Table 113. SENEK (Germany) Residential Solar Energy Storage Deployments Product and Services
Table 114. SENEK (Germany) Residential Solar Energy Storage Deployments Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. SENEK (Germany) Recent Developments/Updates
Table 116. SENEK (Germany) Competitive Strengths & Weaknesses
Table 117. Enphase Energy (USA) Basic Information, Manufacturing Base and Competitors
Table 118. Enphase Energy (USA) Major Business
Table 119. Enphase Energy (USA) Residential Solar Energy Storage Deployments Product and Services
Table 120. Enphase Energy (USA) Residential Solar Energy Storage Deployments Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. Enphase Energy (USA) Recent Developments/Updates
Table 122. Enphase Energy (USA) Competitive Strengths & Weaknesses
Table 123. VARTA AG (Germany) Basic Information, Manufacturing Base and Competitors
Table 124. VARTA AG (Germany) Major Business
Table 125. VARTA AG (Germany) Residential Solar Energy Storage Deployments Product and Services
Table 126. VARTA AG (Germany) Residential Solar Energy Storage Deployments Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. VARTA AG (Germany) Recent Developments/Updates
Table 128. VARTA AG (Germany) Competitive Strengths & Weaknesses

Table 129. E3/DC (Germany) Basic Information, Manufacturing Base and Competitors
Table 130. E3/DC (Germany) Major Business
Table 131. E3/DC (Germany) Residential Solar Energy Storage Deployments Product and Services
Table 132. E3/DC (Germany) Residential Solar Energy Storage Deployments Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. E3/DC (Germany) Recent Developments/Updates
Table 134. E3/DC (Germany) Competitive Strengths & Weaknesses
Table 135. Pylontech (China) Basic Information, Manufacturing Base and Competitors
Table 136. Pylontech (China) Major Business
Table 137. Pylontech (China) Residential Solar Energy Storage Deployments Product and Services
Table 138. Pylontech (China) Residential Solar Energy Storage Deployments Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 139. Pylontech (China) Recent Developments/Updates
Table 140. Pylontech (China) Competitive Strengths & Weaknesses
Table 141. BMZ (Germany) Basic Information, Manufacturing Base and Competitors
Table 142. BMZ (Germany) Major Business
Table 143. BMZ (Germany) Residential Solar Energy Storage Deployments Product and Services
Table 144. BMZ (Germany) Residential Solar Energy Storage Deployments Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 145. BMZ (Germany) Recent Developments/Updates
Table 146. BMZ (Germany) Competitive Strengths & Weaknesses
Table 147. Generac (USA) Basic Information, Manufacturing Base and Competitors
Table 148. Generac (USA) Major Business
Table 149. Generac (USA) Residential Solar Energy Storage Deployments Product and Services
Table 150. Generac (USA) Residential Solar Energy Storage Deployments Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 151. Generac (USA) Recent Developments/Updates
Table 152. Generac (USA) Competitive Strengths & Weaknesses
Table 153. SimpliPhi Power (USA) Basic Information, Manufacturing Base and Competitors
Table 154. SimpliPhi Power (USA) Major Business

Table 155. SimpliPhi Power (USA) Residential Solar Energy Storage Deployments
Product and Services

Table 156. SimpliPhi Power (USA) Residential Solar Energy Storage Deployments
Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and
Market Share (2021-2026)

Table 157. SimpliPhi Power (USA) Recent Developments/Updates

Table 158. SimpliPhi Power (USA) Competitive Strengths & Weaknesses

Table 159. Solax Power (China) Basic Information, Manufacturing Base and
Competitors

Table 160. Solax Power (China) Major Business

Table 161. Solax Power (China) Residential Solar Energy Storage Deployments
Product and Services

Table 162. Solax Power (China) Residential Solar Energy Storage Deployments
Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and
Market Share (2021-2026)

Table 163. Solax Power (China) Recent Developments/Updates

Table 164. Solax Power (China) Competitive Strengths & Weaknesses

Table 165. Outback Power (USA) Basic Information, Manufacturing Base and
Competitors

Table 166. Outback Power (USA) Major Business

Table 167. Outback Power (USA) Residential Solar Energy Storage Deployments
Product and Services

Table 168. Outback Power (USA) Residential Solar Energy Storage Deployments
Production (KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and
Market Share (2021-2026)

Table 169. Outback Power (USA) Recent Developments/Updates

Table 170. Outback Power (USA) Competitive Strengths & Weaknesses

Table 171. Goodwe (China) Basic Information, Manufacturing Base and Competitors

Table 172. Goodwe (China) Major Business

Table 173. Goodwe (China) Residential Solar Energy Storage Deployments Product
and Services

Table 174. Goodwe (China) Residential Solar Energy Storage Deployments Production
(KWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market
Share (2021-2026)

Table 175. Goodwe (China) Recent Developments/Updates

Table 176. Goodwe (China) Competitive Strengths & Weaknesses

Table 177. Global Key Players of Residential Solar Energy Storage Deployments
Upstream (Raw Materials)

Table 178. Global Residential Solar Energy Storage Deployments Typical Customers

Table 179. Residential Solar Energy Storage Deployments Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Residential Solar Energy Storage Deployments Picture
- Figure 2. World Residential Solar Energy Storage Deployments Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Residential Solar Energy Storage Deployments Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Residential Solar Energy Storage Deployments Production (2021-2032) & (KWh)
- Figure 5. World Residential Solar Energy Storage Deployments Average Price (2021-2032) & (US\$/KWh)
- Figure 6. World Residential Solar Energy Storage Deployments Production Value Market Share by Region (2021-2032)
- Figure 7. World Residential Solar Energy Storage Deployments Production Market Share by Region (2021-2032)
- Figure 8. North America Residential Solar Energy Storage Deployments Production (2021-2032) & (KWh)
- Figure 9. Europe Residential Solar Energy Storage Deployments Production (2021-2032) & (KWh)
- Figure 10. China Residential Solar Energy Storage Deployments Production (2021-2032) & (KWh)
- Figure 11. Japan Residential Solar Energy Storage Deployments Production (2021-2032) & (KWh)
- Figure 12. Residential Solar Energy Storage Deployments Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World Residential Solar Energy Storage Deployments Consumption (2021-2032) & (KWh)
- Figure 15. World Residential Solar Energy Storage Deployments Consumption Market Share by Region (2021-2032)
- Figure 16. United States Residential Solar Energy Storage Deployments Consumption (2021-2032) & (KWh)
- Figure 17. China Residential Solar Energy Storage Deployments Consumption (2021-2032) & (KWh)
- Figure 18. Europe Residential Solar Energy Storage Deployments Consumption (2021-2032) & (KWh)
- Figure 19. Japan Residential Solar Energy Storage Deployments Consumption (2021-2032) & (KWh)

Figure 20. South Korea Residential Solar Energy Storage Deployments Consumption (2021-2032) & (KWh)

Figure 21. ASEAN Residential Solar Energy Storage Deployments Consumption (2021-2032) & (KWh)

Figure 22. India Residential Solar Energy Storage Deployments Consumption (2021-2032) & (KWh)

Figure 23. Producer Shipments of Residential Solar Energy Storage Deployments by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Residential Solar Energy Storage Deployments Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Residential Solar Energy Storage Deployments Markets in 2025

Figure 26. United States VS China: Residential Solar Energy Storage Deployments Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Residential Solar Energy Storage Deployments Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Residential Solar Energy Storage Deployments Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Residential Solar Energy Storage Deployments Production Market Share 2025

Figure 30. China Based Manufacturers Residential Solar Energy Storage Deployments Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Residential Solar Energy Storage Deployments Production Market Share 2025

Figure 32. World Residential Solar Energy Storage Deployments Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Residential Solar Energy Storage Deployments Production Value Market Share by Type in 2025

Figure 34. Below 10kWh

Figure 35. 10-19kWh

Figure 36. 20-29kWh

Figure 37. Above 30kWh

Figure 38. World Residential Solar Energy Storage Deployments Production Market Share by Type (2021-2032)

Figure 39. World Residential Solar Energy Storage Deployments Production Value Market Share by Type (2021-2032)

Figure 40. World Residential Solar Energy Storage Deployments Average Price by Type (2021-2032) & (US\$/KWh)

Figure 41. World Residential Solar Energy Storage Deployments Production Value by

Coupling, (USD Million), 2021 & 2025 & 2032

Figure 42. World Residential Solar Energy Storage Deployments Production Value Market Share by Coupling in 2025

Figure 43. DC-Coupled Storage Battery

Figure 44. AC-Coupled Storage Battery

Figure 45. World Residential Solar Energy Storage Deployments Production Market Share by Coupling (2021-2032)

Figure 46. World Residential Solar Energy Storage Deployments Production Value Market Share by Coupling (2021-2032)

Figure 47. World Residential Solar Energy Storage Deployments Average Price by Coupling (2021-2032) & (US\$/KWh)

Figure 48. World Residential Solar Energy Storage Deployments Production Value by Protection, (USD Million), 2021 & 2025 & 2032

Figure 49. World Residential Solar Energy Storage Deployments Production Value Market Share by Protection in 2025

Figure 50. IP54

Figure 51. IP65

Figure 52. IP67

Figure 53. Others

Figure 54. World Residential Solar Energy Storage Deployments Production Market Share by Protection (2021-2032)

Figure 55. World Residential Solar Energy Storage Deployments Production Value Market Share by Protection (2021-2032)

Figure 56. World Residential Solar Energy Storage Deployments Average Price by Protection (2021-2032) & (US\$/KWh)

Figure 57. World Residential Solar Energy Storage Deployments Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World Residential Solar Energy Storage Deployments Production Value Market Share by Application in 2025

Figure 59. Off-Grid Power Supply

Figure 60. Grid-Tied Power Supply

Figure 61. World Residential Solar Energy Storage Deployments Production Market Share by Application (2021-2032)

Figure 62. World Residential Solar Energy Storage Deployments Production Value Market Share by Application (2021-2032)

Figure 63. World Residential Solar Energy Storage Deployments Average Price by Application (2021-2032) & (US\$/KWh)

Figure 64. Residential Solar Energy Storage Deployments Industry Chain

Figure 65. Residential Solar Energy Storage Deployments Procurement Model

Figure 66. Residential Solar Energy Storage Deployments Sales Model

Figure 67. Residential Solar Energy Storage Deployments Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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