

# Global Residential Solar Energy Storage Competitive Landscape Professional Research Report 2025

<https://marketpublishers.com/r/R704FD0F2E12EN.html>

Date: June 2025

Pages: 165

Price: US\$ 3,500.00 (Single User License)

ID: R704FD0F2E12EN

## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global Residential Solar Energy Storage market size will reach 4,902.20 Million USD in 2025 and is projected to reach 34,815.25 Million USD by 2032, with a CAGR of 32.32% (2025-2032). Notably, the China Residential Solar Energy Storage market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

### Research Summary

Residential solar energy storage involves the use of energy storage systems, typically batteries, to store excess electricity generated by solar panels on residential properties. These storage solutions enable homeowners to store surplus solar energy during times of high solar production, such as during the day, and use it later when the sun is not shining or during periods of higher electricity demand. By integrating energy storage with residential solar systems, homeowners can increase their energy independence, reduce reliance on the grid, and have a more consistent and reliable power supply, even during grid outages. This technology allows homeowners to optimize their solar energy utilization, enhance energy efficiency, and potentially lower electricity costs by relying on stored solar power during peak-demand periods or when solar production is limited. Residential solar energy storage contributes to the advancement of sustainable and resilient energy solutions for homeowners.

The major global manufacturers of Residential Solar Energy Storage include Tesla, LG Chem, East Penn Manufacturing, Sonnen, A123 Systems, Panasonic, Electriq Power,

Enphase Energy, E-On Batteries, Exide Technologies, Samsung SDI, Saft, HOPPECKE Batterien, BYD, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Residential Solar Energy Storage. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Residential Solar Energy Storage market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Residential Solar Energy Storage market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Residential Solar Energy Storage industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Residential Solar Energy Storage Include:

Tesla

LG Chem

East Penn Manufacturing

Sonnen

A123 Systems

Panasonic

Electriq Power

Enphase Energy

E-On Batteries

Exide Technologies

Samsung SDI

Saft

HOPPECKE Batterien

BYD

Residential Solar Energy Storage Product Segment Include:

Li-Ion Energy Storage

Lead-Acid Energy Storage

Residential Solar Energy Storage Product Application Include:

Collective House

Detached House

## **Chapter Scope**

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

Chapter 2: Global Residential Solar Energy Storage Industry PESTEL Analysis

Chapter 3: Global Residential Solar Energy Storage Industry Porter's Five Forces Analysis

Chapter 4: Global Residential Solar Energy Storage Major Regional Market Size (Revenue, Sales, Price) and Forecast Analysis

Chapter 5: Global Residential Solar Energy Storage Market Size and Forecast by Type and Application Analysis

Chapter 6: North America Residential Solar Energy Storage Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 7: Europe Residential Solar Energy Storage Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 8: China Residential Solar Energy Storage Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 9: APAC (Excl. China) Residential Solar Energy Storage Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 10: Latin America Residential Solar Energy Storage Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 11: Middle East and Africa Residential Solar Energy Storage Competitive

Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 12: Global Residential Solar Energy Storage Competitive Analysis of Key Manufacturers (Sales, Revenue, Market Share, Price, Regional Distribution and Industry Concentration)

Chapter 13: Key Company Profiles (Product Portfolio, Sales, Revenue, Price and Gross Margin)

Chapter 14: Industrial Chain Analysis, Include Raw Material Suppliers, Distributors and Customers

Chapter 15: Research Findings and Conclusion

Chapter 16: Methodology and Data Sources

## Contents

### **1 RESIDENTIAL SOLAR ENERGY STORAGE MARKET OVERVIEW**

- 1.1 Product Definition and Statistical Scope
- 1.2 Residential Solar Energy Storage Product by Type
  - 1.2.1 Li-Ion Energy Storage
  - 1.2.2 Lead-Acid Energy Storage
- 1.3 Residential Solar Energy Storage Product by Application
  - 1.3.1 Collective House
  - 1.3.2 Detached House
- 1.4 Global Residential Solar Energy Storage Market Revenue and Sales Analysis
  - 1.4.1 Global Residential Solar Energy Storage Revenue Market Size Analysis (2020-2032)
  - 1.4.2 Global Residential Solar Energy Storage Sales Market Size Analysis (2020-2032)
  - 1.4.3 Global Residential Solar Energy Storage Market Sales Price Trend Analysis (2020-2032)
- 1.5 Residential Solar Energy Storage Industry Trends and Innovation
  - 1.5.1 Residential Solar Energy Storage Industry Trends and Innovation
  - 1.5.2 Residential Solar Energy Storage Market Drivers and Challenges

### **2 RESIDENTIAL SOLAR ENERGY STORAGE MARKET PESTEL ANALYSIS**

- 2.1 Political Factors Analysis
- 2.2 Economic Factors Analysis
- 2.3 Social Factors Analysis
- 2.4 Technological Factors Analysis
- 2.5 Environmental Factors Analysis
- 2.6 Legal Factors Analysis

### **3 RESIDENTIAL SOLAR ENERGY STORAGE MARKET PORTER'S FIVE FORCES ANALYSIS**

- 3.1 Competitive Rivalry
- 3.2 Threat of New Entrants
- 3.3 Bargaining Power of Suppliers
- 3.4 Bargaining Power of Buyers
- 3.5 Threat of Substitutes

## **4 GLOBAL RESIDENTIAL SOLAR ENERGY STORAGE MARKET ANALYSIS BY REGIONS**

- 4.1 Residential Solar Energy Storage Overall Market: 2024 VS 2025 VS 2032
- 4.2 Global Residential Solar Energy Storage Revenue and Forecast Analysis (2020-2032)
  - 4.2.1 Global Residential Solar Energy Storage Revenue and Market Share by Region (2020-2025)
  - 4.2.2 Global Residential Solar Energy Storage Revenue and Market Share Forecast by Region (2026-2032)
- 4.3 Global Residential Solar Energy Storage Sales and Forecast Analysis (2020-2032)
  - 4.3.1 Global Residential Solar Energy Storage Sales and Market Share by Region (2020-2025)
  - 4.3.2 Global Residential Solar Energy Storage Sales and Market Share Forecast by Region (2026-2032)
- 4.4 Global Residential Solar Energy Storage Sales Price Trend Analysis (2020-2032)

## **5 GLOBAL RESIDENTIAL SOLAR ENERGY STORAGE MARKET SIZE BY TYPE AND APPLICATION**

- 5.1 Global Residential Solar Energy Storage Market Size by Type
  - 5.1.1 Global Residential Solar Energy Storage Revenue and Forecast Analysis by Type (2020-2032)
  - 5.1.2 Global Residential Solar Energy Storage Sales and Forecast Analysis by Type (2020-2032)
- 5.2 Global Residential Solar Energy Storage Market Size by Application
  - 5.2.1 Global Residential Solar Energy Storage Revenue and Forecast Analysis by Application (2020-2032)
  - 5.2.2 Global Residential Solar Energy Storage Sales and Forecast Analysis by Application (2020-2032)

## **6 NORTH AMERICA**

- 6.1 North America Residential Solar Energy Storage Market Size and Growth Rate Analysis (2020-2032)
- 6.2 North America Key Manufacturers Analysis
- 6.3 North America Residential Solar Energy Storage Market Size by Type
  - 6.3.1 North America Residential Solar Energy Storage Sales by Type (2020-2032)

- 6.3.2 North America Residential Solar Energy Storage Revenue by Type (2020-2032)
- 6.4 North America Residential Solar Energy Storage Market Size by Application
  - 6.4.1 North America Residential Solar Energy Storage Sales by Application (2020-2032)
  - 6.4.2 North America Residential Solar Energy Storage Revenue by Application (2020-2032)
- 6.5 North America Residential Solar Energy Storage Market Size by Country
  - 6.5.1 US
  - 6.5.2 Canada

## **7 EUROPE**

- 7.1 Europe Residential Solar Energy Storage Market Size and Growth Rate Analysis (2020-2032)
- 7.2 Europe Key Manufacturers Analysis
- 7.3 Europe Residential Solar Energy Storage Market Size by Type
  - 7.3.1 Europe Residential Solar Energy Storage Sales by Type (2020-2032)
  - 7.3.2 Europe Residential Solar Energy Storage Revenue by Type (2020-2032)
- 7.4 Europe Residential Solar Energy Storage Market Size by Application
  - 7.4.1 Europe Residential Solar Energy Storage Sales by Application (2020-2032)
  - 7.4.2 Europe Residential Solar Energy Storage Revenue by Application (2020-2032)
- 7.5 Europe Residential Solar Energy Storage Market Size by Country
  - 7.5.1 Germany
  - 7.5.2 France
  - 7.5.3 United Kingdom
  - 7.5.4 Italy
  - 7.5.5 Spain
  - 7.5.6 Benelux

## **8 CHINA**

- 8.1 China Residential Solar Energy Storage Market Size and Growth Rate Analysis (2020-2032)
- 8.2 China Key Manufacturers Analysis
- 8.3 China Residential Solar Energy Storage Market Size by Type
  - 8.3.1 China Residential Solar Energy Storage Sales by Type (2020-2032)
  - 8.3.2 China Residential Solar Energy Storage Revenue by Type (2020-2032)
- 8.4 China Residential Solar Energy Storage Market Size by Application
  - 8.4.1 China Residential Solar Energy Storage Sales by Application (2020-2032)

#### 8.4.2 China Residential Solar Energy Storage Revenue by Application (2020-2032)

### **9 APAC (EXCL. CHINA)**

#### 9.1 APAC (excl. China) Residential Solar Energy Storage Market Size and Growth Rate Analysis (2020-2032)

#### 9.2 APAC (excl. China) Key Manufacturers Analysis

#### 9.3 APAC (excl. China) Residential Solar Energy Storage Market Size by Type

##### 9.3.1 APAC (excl. China) Residential Solar Energy Storage Sales by Type (2020-2032)

##### 9.3.2 APAC (excl. China) Residential Solar Energy Storage Revenue by Type (2020-2032)

#### 9.4 APAC (excl. China) Residential Solar Energy Storage Market Size by Application

##### 9.4.1 APAC (excl. China) Residential Solar Energy Storage Sales by Application (2020-2032)

##### 9.4.2 APAC (excl. China) Residential Solar Energy Storage Revenue by Application (2020-2032)

#### 9.5 APAC (excl. China) Residential Solar Energy Storage Market Size by Country

##### 9.5.1 Japan

##### 9.5.2 South Korea

##### 9.5.3 India

##### 9.5.4 Australia

##### 9.5.5 Southeast Asia

### **10 LATIN AMERICA**

#### 10.1 Latin America Residential Solar Energy Storage Market Size and Growth Rate Analysis (2020-2032)

#### 10.2 Latin America Key Manufacturers Analysis

#### 10.3 Latin America Residential Solar Energy Storage Market Size by Type

##### 10.3.1 Latin America Residential Solar Energy Storage Sales by Type (2020-2032)

##### 10.3.2 Latin America Residential Solar Energy Storage Revenue by Type (2020-2032)

#### 10.4 Latin America Residential Solar Energy Storage Market Size by Application

##### 10.4.1 Latin America Residential Solar Energy Storage Sales by Application (2020-2032)

##### 10.4.2 Latin America Residential Solar Energy Storage Revenue by Application (2020-2032)

#### 10.5 Latin America Residential Solar Energy Storage Market Size by Country

#### 10.6 Latin America Residential Solar Energy Storage Market Size by Country

10.6.1 Mexico

10.6.2 Brazil

## **11 MIDDLE EAST & AFRICA**

11.1 Middle East & Africa Residential Solar Energy Storage Market Size and Growth Rate Analysis (2020-2032)

11.2 Middle East & Africa Key Manufacturers Analysis

11.3 Middle East & Africa Residential Solar Energy Storage Market Size by Type

11.3.1 Middle East & Africa Residential Solar Energy Storage Sales by Type (2020-2032)

11.3.2 Middle East & Africa Residential Solar Energy Storage Revenue by Type (2020-2032)

11.4 Middle East & Africa Residential Solar Energy Storage Market Size by Application

11.4.1 Middle East & Africa Residential Solar Energy Storage Sales by Application (2020-2032)

11.4.2 Middle East & Africa Residential Solar Energy Storage Revenue by Application (2020-2032)

11.5 Middle East Residential Solar Energy Storage Market Size by Country

11.5.1 Saudi Arabia

11.5.2 South Africa

## **12 COMPETITION BY MANUFACTURERS**

12.1 Global Residential Solar Energy Storage Market Sales, Revenue and Price by Key Manufacturers (2021-2025)

12.1.1 Global Residential Solar Energy Storage Market Sales by Key Manufacturers (2021-2025)

12.1.2 Global Residential Solar Energy Storage Market Revenue by Key Manufacturers (2021-2025)

12.1.3 Global Residential Solar Energy Storage Average Sales Price by Manufacturers (2021-2025)

12.2 Residential Solar Energy Storage Competitive Landscape Analysis and Market Dynamic

12.2.1 Residential Solar Energy Storage Competitive Landscape Analysis

12.2.2 Global Key Manufacturers Headquarter Location and Key Area Sales

12.2.3 Market Dynamic

## **13 KEY COMPANIES ANALYSIS**

## 13.1 Tesla

13.1.1 Tesla Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.1.2 Tesla Residential Solar Energy Storage Product Portfolio

13.1.3 Tesla Residential Solar Energy Storage Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

## 13.2 LG Chem

13.2.1 LG Chem Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.2.2 LG Chem Residential Solar Energy Storage Product Portfolio

13.2.3 LG Chem Residential Solar Energy Storage Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

## 13.3 East Penn Manufacturing

13.3.1 East Penn Manufacturing Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.3.2 East Penn Manufacturing Residential Solar Energy Storage Product Portfolio

13.3.3 East Penn Manufacturing Residential Solar Energy Storage Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

## 13.4 Sonnen

13.4.1 Sonnen Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.4.2 Sonnen Residential Solar Energy Storage Product Portfolio

13.4.3 Sonnen Residential Solar Energy Storage Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

## 13.5 A123 Systems

13.5.1 A123 Systems Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.5.2 A123 Systems Residential Solar Energy Storage Product Portfolio

13.5.3 A123 Systems Residential Solar Energy Storage Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

## 13.6 Panasonic

13.6.1 Panasonic Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.6.2 Panasonic Residential Solar Energy Storage Product Portfolio

13.6.3 Panasonic Residential Solar Energy Storage Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

## 13.7 Electriq Power

13.7.1 Electriq Power Basic Company Profile (Employees, Areas Service, Competitors

and Contact Information)

13.7.2 Electriq Power Residential Solar Energy Storage Product Portfolio

13.7.3 Electriq Power Residential Solar Energy Storage Market Data Analysis  
(Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.8 Enphase Energy

13.8.1 Enphase Energy Basic Company Profile (Employees, Areas Service,  
Competitors and Contact Information)

13.8.2 Enphase Energy Residential Solar Energy Storage Product Portfolio

13.8.3 Enphase Energy Residential Solar Energy Storage Market Data Analysis  
(Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.9 E-On Batteries

13.9.1 E-On Batteries Basic Company Profile (Employees, Areas Service, Competitors  
and Contact Information)

13.9.2 E-On Batteries Residential Solar Energy Storage Product Portfolio

13.9.3 E-On Batteries Residential Solar Energy Storage Market Data Analysis  
(Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.10 Exide Technologies

13.10.1 Exide Technologies Basic Company Profile (Employees, Areas Service,  
Competitors and Contact Information)

13.10.2 Exide Technologies Residential Solar Energy Storage Product Portfolio

13.10.3 Exide Technologies Residential Solar Energy Storage Market Data Analysis  
(Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.11 Samsung SDI

13.11.1 Samsung SDI Basic Company Profile (Employees, Areas Service,  
Competitors and Contact Information)

13.11.2 Samsung SDI Residential Solar Energy Storage Product Portfolio

13.11.3 Samsung SDI Residential Solar Energy Storage Market Data Analysis  
(Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.12 Saft

13.12.1 Saft Basic Company Profile (Employees, Areas Service, Competitors and  
Contact Information)

13.12.2 Saft Residential Solar Energy Storage Product Portfolio

13.12.3 Saft Residential Solar Energy Storage Market Data Analysis (Revenue, Sales,  
Price, Gross Margin and Market Share) (2021-2025)

13.13 HOPPECKE Batterien

13.13.1 HOPPECKE Batterien Basic Company Profile (Employees, Areas Service,  
Competitors and Contact Information)

13.13.2 HOPPECKE Batterien Residential Solar Energy Storage Product Portfolio

13.13.3 HOPPECKE Batterien Residential Solar Energy Storage Market Data Analysis

(Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

#### 13.14 BYD

13.14.1 BYD Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.14.2 BYD Residential Solar Energy Storage Product Portfolio

13.14.3 BYD Residential Solar Energy Storage Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

### **14 INDUSTRY CHAIN ANALYSIS**

14.1 Residential Solar Energy Storage Industry Chain Analysis

14.2 Residential Solar Energy Storage Industry Raw Material and Suppliers Analysis

14.2.1 Residential Solar Energy Storage Key Raw Material Supply Analysis

14.2.2 Raw Material Suppliers and Contact Information

14.3 Residential Solar Energy Storage Typical Downstream Customers

14.4 Residential Solar Energy Storage Sales Channel Analysis

### **15 RESEARCH FINDINGS AND CONCLUSION**

### **16 METHODOLOGY AND DATA SOURCE**

16.1 Methodology/Research Approach

16.2 Research Scope

16.3 Benchmarks and Assumptions

16.4 Data Source

16.4.1 Primary Sources

16.4.2 Secondary Sources

16.5 Data Cross Validation

16.6 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1: Global Residential Solar Energy Storage Market Size Growth Rate by Type, 2024 VS 2025 VS 2032 (US\$ Million)

Table 2: Global Residential Solar Energy Storage Market Size Growth Rate by Application, 2024 VS 2025 VS 2032 (US\$ Million)

Table 3: Residential Solar Energy Storage Industry Development Status

Table 4: Residential Solar Energy Storage Industry Development Trends

Table 5: Global Residential Solar Energy Storage Market Size by Region in US\$ Million: 2024 VS 2025 VS 2032

Table 6: Global Residential Solar Energy Storage Revenue by Region (2020-2025) & (US\$ Million)

Table 7: Global Residential Solar Energy Storage Revenue Market Share by Region (2020-2025)

Table 8: Global Residential Solar Energy Storage Revenue Forecast by Region (2026-2032) & (US\$ Million)

Table 9: Global Residential Solar Energy Storage Revenue Market Share Forecast by Region (2026-2032)

Table 10: Global Residential Solar Energy Storage Sales by Region (2020-2025) & (MWh)

Table 11: Global Residential Solar Energy Storage Sales Market Share by Region (2020-2025)

Table 12: Global Residential Solar Energy Storage Sales Forecast by Region (2026-2032) & (MWh)

Table 13: Global Residential Solar Energy Storage Sales Market Share Forecast by Region (2026-2032)

Table 14: Global Residential Solar Energy Storage Revenue Analysis by Type (2020-2025) & (US\$ Million)

Table 15: Global Residential Solar Energy Storage Revenue Analysis Forecast by Type (2026-2032) & (US\$ Million)

Table 16: Global Residential Solar Energy Storage Sales Analysis by Type (2020-2025) & (MWh)

Table 17: Global Residential Solar Energy Storage Sales Analysis Forecast by Type (2026-2032) & (MWh)

Table 18: Global Residential Solar Energy Storage Revenue Analysis by Application (2020-2025) & (US\$ Million)

Table 19: Global Residential Solar Energy Storage Revenue Analysis Forecast by Application (2026-2032) & (US\$ Million)

Table 20: Global Residential Solar Energy Storage Sales Analysis by Application (2020-2025) & (MWh)

Table 21: Global Residential Solar Energy Storage Sales Analysis Forecast by Application (2026-2032) & (MWh)

Table 22: Key Residential Solar Energy Storage Players in North America

Table 23: North America Residential Solar Energy Storage Sales by Type (2020-2025) & (MWh)

Table 24: North America Residential Solar Energy Storage Sales by Type (2026-2032) & (MWh)

Table 25: North America Residential Solar Energy Storage Revenue by Type (2020-2025) & (US\$ Million)

Table 26: North America Residential Solar Energy Storage Revenue by Type (2026-2032) & (US\$ Million)

Table 27: North America Residential Solar Energy Storage Sales by Application (2020-2025) & (MWh)

Table 28: North America Residential Solar Energy Storage Sales by Application (2026-2032) & (MWh)

Table 29: North America Residential Solar Energy Storage Revenue by Application (2020-2025) & (US\$ Million)

Table 30: North America Residential Solar Energy Storage Revenue by Application (2026-2032) & (US\$ Million)

Table 31: North America Residential Solar Energy Storage Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 32: North America Residential Solar Energy Storage Revenue Market Size by Country (2026-2032) & (US\$ Million)

Table 33: North America Residential Solar Energy Storage Sales Market Size by Country (2020-2025) & (MWh)

Table 34: North America Residential Solar Energy Storage Sales Market Size by Country (2026-2032) & (MWh)

Table 35: Key Residential Solar Energy Storage Players in Europe

Table 36: Europe Residential Solar Energy Storage Sales by Type (2020-2025) & (MWh)

Table 37: Europe Residential Solar Energy Storage Sales by Type (2026-2032) & (MWh)

Table 38: Europe Residential Solar Energy Storage Revenue by Type (2020-2025) & (US\$ Million)

Table 39: Europe Residential Solar Energy Storage Revenue by Type (2026-2032) & (US\$ Million)

Table 40: Europe Residential Solar Energy Storage Sales by Application (2020-2025) &

(MWh)

Table 41: Europe Residential Solar Energy Storage Sales by Application (2026-2032) & (MWh)

Table 42: Europe Residential Solar Energy Storage Revenue by Application (2020-2025) & (US\$ Million)

Table 43: Europe Residential Solar Energy Storage Revenue by Application (2026-2032) & (US\$ Million)

Table 44: Europe Residential Solar Energy Storage Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 45: Europe Residential Solar Energy Storage Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 46: Europe Residential Solar Energy Storage Sales Market Size by Country (2020-2025) & (MWh)

Table 47: Europe Residential Solar Energy Storage Sales Market Size Forecast by Country (2026-2032) & (MWh)

Table 48: Key Residential Solar Energy Storage Players in China

Table 49: China Residential Solar Energy Storage Sales by Type (2020-2025) & (MWh)

Table 50: China Residential Solar Energy Storage Sales by Type (2026-2032) & (MWh)

Table 51: China Residential Solar Energy Storage Revenue by Type (2020-2025) & (US\$ Million)

Table 52: China Residential Solar Energy Storage Revenue by Type (2026-2032) & (US\$ Million)

Table 53: China Residential Solar Energy Storage Sales by Application (2020-2025) & (MWh)

Table 54: China Residential Solar Energy Storage Sales by Application (2026-2032) & (MWh)

Table 55: China Residential Solar Energy Storage Revenue by Application (2020-2025) & (US\$ Million)

Table 56: China Residential Solar Energy Storage Revenue by Application (2026-2032) & (US\$ Million)

Table 57: Key Residential Solar Energy Storage Players in APAC (excl. China)

Table 58: APAC (excl. China) Residential Solar Energy Storage Sales by Type (2020-2025) & (MWh)

Table 59: APAC (excl. China) Residential Solar Energy Storage Sales by Type (2026-2032) & (MWh)

Table 60: APAC (excl. China) Residential Solar Energy Storage Revenue by Type (2020-2025) & (US\$ Million)

Table 61: APAC (excl. China) Residential Solar Energy Storage Revenue by Type (2026-2032) & (US\$ Million)

Table 62: APAC (excl. China) Residential Solar Energy Storage Sales by Application (2020-2025) & (MWh)

Table 63: APAC (excl. China) Residential Solar Energy Storage Sales by Application (2026-2032) & (MWh)

Table 64: APAC (excl. China) Residential Solar Energy Storage Revenue by Application (2020-2025) & (US\$ Million)

Table 65: APAC (excl. China) Residential Solar Energy Storage Revenue by Application (2026-2032) & (US\$ Million)

Table 66: APAC (excl. China) Residential Solar Energy Storage Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 67: APAC (excl. China) Residential Solar Energy Storage Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 68: APAC (excl. China) Residential Solar Energy Storage Sales Market Size by Country (2020-2025) & (MWh)

Table 69: APAC (excl. China) Residential Solar Energy Storage Sales Market Size Forecast by Country (2026-2032) & (MWh)

Table 70: Key Residential Solar Energy Storage Players in Latin America

Table 71: Latin America Residential Solar Energy Storage Sales by Type (2020-2025) & (MWh)

Table 72: Latin America Residential Solar Energy Storage Sales by Type (2026-2032) & (MWh)

Table 73: Latin America Residential Solar Energy Storage Revenue by Type (2020-2025) & (US\$ Million)

Table 74: Latin America Residential Solar Energy Storage Revenue by Type (2026-2032) & (US\$ Million)

Table 75: Latin America Residential Solar Energy Storage Sales by Application (2020-2025) & (MWh)

Table 76: Latin America Residential Solar Energy Storage Sales by Application (2026-2032) & (MWh)

Table 77: Latin America Residential Solar Energy Storage Revenue by Application (2020-2025) & (US\$ Million)

Table 78: Latin America Residential Solar Energy Storage Revenue by Application (2026-2032) & (US\$ Million)

Table 79: Latin America Residential Solar Energy Storage Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 80: Latin America Residential Solar Energy Storage Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 81: Latin America Residential Solar Energy Storage Sales Market Size by Country (2020-2025) & (MWh)

Table 82: Latin America Residential Solar Energy Storage Sales Market Size Forecast by Country (2026-2032) & (MWh)

Table 83: Key Residential Solar Energy Storage Players in Middle East & Africa

Table 84: Middle East & Africa Residential Solar Energy Storage Sales by Type (2020-2025) & (MWh)

Table 85: Middle East & Africa Residential Solar Energy Storage Sales by Type (2026-2032) & (MWh)

Table 86: Middle East & Africa Residential Solar Energy Storage Revenue by Type (2020-2025) & (US\$ Million)

Table 87: Middle East & Africa Residential Solar Energy Storage Revenue by Type (2026-2032) & (US\$ Million)

Table 88: Middle East & Africa Residential Solar Energy Storage Sales by Application (2020-2025) & (MWh)

Table 89: Middle East & Africa Residential Solar Energy Storage Sales by Application (2026-2032) & (MWh)

Table 90: Middle East & Africa Residential Solar Energy Storage Revenue by Application (2020-2025) & (US\$ Million)

Table 91: Middle East & Africa Residential Solar Energy Storage Revenue by Application (2026-2032) & (US\$ Million)

Table 92: Middle East & Africa Residential Solar Energy Storage Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 93: Middle East & Africa Residential Solar Energy Storage Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 94: Middle East & Africa Residential Solar Energy Storage Sales Market Size by Country (2020-2025) & (MWh)

Table 95: Middle East & Africa Residential Solar Energy Storage Sales Market Size Forecast by Country (2026-2032) & (MWh)

Table 96: Global Residential Solar Energy Storage Market Sales by Key Manufacturers (2021-2025) & (MWh)

Table 97: Global Residential Solar Energy Storage Sales Market Share by Key Manufacturers (2021-2025)

Table 98: Global Residential Solar Energy Storage Market Revenue by Key Manufacturers (2021-2025) & (US\$ Million)

Table 99: Global Residential Solar Energy Storage Revenue Market Share by Key Manufacturers (2021-2025)

Table 100: Global Average Sales Price by Manufacturers (2021-2025) & (USD/KWh)

Table 101: Global Key Manufacturers Headquarter Location and Key Area Sales

Table 102: Market Mergers & Acquisitions, Expansion

Table 103: Tesla Basic Company Profile (Employees, Areas Service, Competitors and

Contact Information)

Table 104: Tesla Residential Solar Energy Storage Product Portfolio

Table 105: Tesla Residential Solar Energy Storage Revenue (US\$ Million), Sales (MWh), Price (USD/KWh), Gross Margin and Market Share (2021-2025)

Table 106: LG Chem Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 107: LG Chem Residential Solar Energy Storage Product Portfolio

Table 108: LG Chem Residential Solar Energy Storage Revenue (US\$ Million), Sales (MWh), Price (USD/KWh), Gross Margin and Market Share (2021-2025)

Table 109: East Penn Manufacturing Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 110: East Penn Manufacturing Residential Solar Energy Storage Product Portfolio

Table 111: East Penn Manufacturing Residential Solar Energy Storage Revenue (US\$ Million), Sales (MWh), Price (USD/KWh), Gross Margin and Market Share (2021-2025)

Table 112: Sonnen Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 113: Sonnen Residential Solar Energy Storage Product Portfolio

Table 114: Sonnen Residential Solar Energy Storage Revenue (US\$ Million), Sales (MWh), Price (USD/KWh), Gross Margin and Market Share (2021-2025)

Table 115: A123 Systems Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 116: A123 Systems Residential Solar Energy Storage Product Portfolio

Table 117: A123 Systems Residential Solar Energy Storage Revenue (US\$ Million), Sales (MWh), Price (USD/KWh), Gross Margin and Market Share (2021-2025)

Table 118: Panasonic Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 119: Panasonic Residential Solar Energy Storage Product Portfolio

Table 120: Panasonic Residential Solar Energy Storage Revenue (US\$ Million), Sales (MWh), Price (USD/KWh), Gross Margin and Market Share (2021-2025)

Table 121: Electriq Power Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 122: Electriq Power Residential Solar Energy Storage Product Portfolio

Table 123: Electriq Power Residential Solar Energy Storage Revenue (US\$ Million), Sales (MWh), Price (USD/KWh), Gross Margin and Market Share (2021-2025)

Table 124: Enphase Energy Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 125: Enphase Energy Residential Solar Energy Storage Product Portfolio

Table 126: Enphase Energy Residential Solar Energy Storage Revenue (US\$ Million), Sales (MWh), Price (USD/KWh), Gross Margin and Market Share (2021-2025)

- Table 127: E-On Batteries Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)
- Table 128: E-On Batteries Residential Solar Energy Storage Product Portfolio
- Table 129: E-On Batteries Residential Solar Energy Storage Revenue (US\$ Million), Sales (MWh), Price (USD/KWh), Gross Margin and Market Share (2021-2025)
- Table 130: Exide Technologies Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)
- Table 131: Exide Technologies Residential Solar Energy Storage Product Portfolio
- Table 132: Exide Technologies Residential Solar Energy Storage Revenue (US\$ Million), Sales (MWh), Price (USD/KWh), Gross Margin and Market Share (2021-2025)
- Table 133: Samsung SDI Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)
- Table 134: Samsung SDI Residential Solar Energy Storage Product Portfolio
- Table 135: Samsung SDI Residential Solar Energy Storage Revenue (US\$ Million), Sales (MWh), Price (USD/KWh), Gross Margin and Market Share (2021-2025)
- Table 136: Saft Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)
- Table 137: Saft Residential Solar Energy Storage Product Portfolio
- Table 138: Saft Residential Solar Energy Storage Revenue (US\$ Million), Sales (MWh), Price (USD/KWh), Gross Margin and Market Share (2021-2025)
- Table 139: HOPPECKE Batterien Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)
- Table 140: HOPPECKE Batterien Residential Solar Energy Storage Product Portfolio
- Table 141: HOPPECKE Batterien Residential Solar Energy Storage Revenue (US\$ Million), Sales (MWh), Price (USD/KWh), Gross Margin and Market Share (2021-2025)
- Table 142: BYD Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)
- Table 143: BYD Residential Solar Energy Storage Product Portfolio
- Table 144: BYD Residential Solar Energy Storage Revenue (US\$ Million), Sales (MWh), Price (USD/KWh), Gross Margin and Market Share (2021-2025)
- Table 145: Upstream Key Raw Material Price List
- Table 146: Residential Solar Energy Storage Raw Material Suppliers and Contact Information
- Table 147: Residential Solar Energy Storage Typical Customer List
- Table 148: Residential Solar Energy Storage Distributors List

## List Of Figures

### LIST OF FIGURES

Figure 1: Residential Solar Energy Storage Product Pictures

Figure 2: Li-Ion Energy Storage Picture Scope

Figure 3: Lead-Acid Energy Storage Picture Scope

Figure 4: Collective House Picture Scope

Figure 5: Detached House Picture Scope

Figure 6: Global Residential Solar Energy Storage Market Size Analysis: 2024 VS 2025 VS 2032 (US\$ Million)

Figure 7: Global Residential Solar Energy Storage Market Revenue and Growth Rate Analysis: (2020-2032) & (US\$ Million)

Figure 8: Global Residential Solar Energy Storage Market Sales and Growth Rate Analysis (2020-2032) & (MWh)

Figure 9: Global Residential Solar Energy Storage Market Price Trend Analysis (2020-2032) & (USD/KWh)

Figure 10: Global Residential Solar Energy Storage Market Size by Region (2020-2032) & (US\$ Million)

Figure 11: Global Residential Solar Energy Storage Market Share Scenario by Region in Percentage: 2025 Versus 2032

Figure 12: Global Residential Solar Energy Storage Sales Price by Region (2020-2032) & (MWh)

Figure 13: North America Residential Solar Energy Storage Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 14: North America Residential Solar Energy Storage Revenue Market Share by Players in 2024

Figure 15: North America Residential Solar Energy Storage Sales Market Share by Type (2020-2032)

Figure 16: North America Residential Solar Energy Storage Revenue Market Share by Type (2020-2032)

Figure 17: North America Residential Solar Energy Storage Sales Market Share by Application (2020-2032)

Figure 18: North America Residential Solar Energy Storage Revenue Market Share by Application (2020-2032)

Figure 19: US Residential Solar Energy Storage Revenue (2020-2032) & (US\$ Million)

Figure 20: Canada Residential Solar Energy Storage Revenue (2020-2032) & (US\$ Million)

Figure 21: Europe Residential Solar Energy Storage Market Size and Growth Rate

(2020-2032) & (US\$ Million)

Figure 22:Europe Residential Solar Energy Storage Revenue Market Share by Players in 2024

Figure 23:Europe Residential Solar Energy Storage Sales Market Share by Type (2020-2032)

Figure 24:Europe Residential Solar Energy Storage Revenue Market Share by Type (2020-2032)

Figure 25:Europe Residential Solar Energy Storage Sales Market Share by Application (2020-2032)

Figure 26:Europe Residential Solar Energy Storage Revenue Market Share by Application (2020-2032)

Figure 27:Germany Residential Solar Energy Storage Revenue (2020-2032) & (US\$ Million)

Figure 28:France Residential Solar Energy Storage Revenue (2020-2032) & (US\$ Million)

Figure 29:United Kingdom Residential Solar Energy Storage Revenue (2020-2032) & (US\$ Million)

Figure 30:Italy Residential Solar Energy Storage Revenue (2020-2032) & (US\$ Million)

Figure 31:Spain Residential Solar Energy Storage Revenue (2020-2032) & (US\$ Million)

Figure 32:Benelux Residential Solar Energy Storage Revenue (2020-2032) & (US\$ Million)

Figure 33:China Residential Solar Energy Storage Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 34:China Residential Solar Energy Storage Revenue Market Share by Players in 2024

Figure 35:China Residential Solar Energy Storage Sales Market Share by Type (2020-2032)

Figure 36:China Residential Solar Energy Storage Revenue Market Share by Type (2020-2032)

Figure 37:China Residential Solar Energy Storage Sales Market Share by Application (2020-2032)

Figure 38:China Residential Solar Energy Storage Revenue Market Share by Application (2020-2032)

Figure 39:APAC (excl. China) Residential Solar Energy Storage Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 40:APAC (excl. China) Residential Solar Energy Storage Revenue Market Share by Players in 2024

Figure 41:APAC (excl. China) Residential Solar Energy Storage Sales Market Share by

Type (2020-2032)

Figure 42:APAC (excl. China) Residential Solar Energy Storage Revenue Market Share by Type (2020-2032)

Figure 43:APAC (excl. China) Residential Solar Energy Storage Sales Market Share by Application (2020-2032)

Figure 44:APAC (excl. China) Residential Solar Energy Storage Revenue Market Share by Application (2020-2032)

Figure 45:Japan Residential Solar Energy Storage Revenue (2020-2032) & (US\$ Million)

Figure 46:South Korea Residential Solar Energy Storage Revenue (2020-2032) & (US\$ Million)

Figure 47:India Residential Solar Energy Storage Revenue (2020-2032) & (US\$ Million)

Figure 48:Australia Residential Solar Energy Storage Revenue (2020-2032) & (US\$ Million)

Figure 49:Southeast Asia Residential Solar Energy Storage Revenue (2020-2032) & (US\$ Million)

Figure 50:Latin America Residential Solar Energy Storage Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 51:Latin America Residential Solar Energy Storage Revenue Market Share by Players in 2024

Figure 52:Latin America Residential Solar Energy Storage Sales Market Share by Type (2020-2032)

Figure 53:Latin America Residential Solar Energy Storage Revenue Market Share by Type (2020-2032)

Figure 54:Latin America Residential Solar Energy Storage Sales Market Share by Application (2020-2032)

Figure 55:Latin America Residential Solar Energy Storage Revenue Market Share by Application (2020-2032)

Figure 56:Mexico Residential Solar Energy Storage Revenue (2020-2032) & (US\$ Million)

Figure 57:Brazil Residential Solar Energy Storage Revenue (2020-2032) & (US\$ Million)

Figure 58:Middle East & Africa Residential Solar Energy Storage Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 59:Middle East & Africa Residential Solar Energy Storage Revenue Market Share by Players in 2024

Figure 60:Middle East & Africa Residential Solar Energy Storage Sales Market Share by Type (2020-2032)

Figure 61:Middle East & Africa Residential Solar Energy Storage Revenue Market

Share by Type (2020-2032)

Figure 62: Middle East & Africa Residential Solar Energy Storage Sales Market Share by Application (2020-2032)

Figure 63: Middle East & Africa Residential Solar Energy Storage Revenue Market Share by Application (2020-2032)

Figure 64: Saudi Arabia Residential Solar Energy Storage Revenue (2020-2032) & (US\$ Million)

Figure 65: South Africa Residential Solar Energy Storage Revenue (2020-2032) & (US\$ Million)

Figure 66: Global Residential Solar Energy Storage Sales Market Share by Key Manufacturers in 2024

Figure 67: Global Residential Solar Energy Storage Revenue Market Share by Key Manufacturers in 2024

Figure 68: Global Residential Solar Energy Storage Industry Competition Landscape

Figure 69: Residential Solar Energy Storage Industry Chain Analysis

Figure 70: Bottom-Up and Top-Down Research Methods

Figure 71: Key Interview Objectives

Figure 72: Data Cross Validation

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