

# Global C&I ESS Solution Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GF5E7EC81778EN.html>

Date: May 2026

Pages: 210

Price: US\$ 4,480.00 (Single User License)

ID: GF5E7EC81778EN

## Abstracts

The global C&I ESS Solution market size is expected to reach \$ 7846 million by 2032, rising at a market growth of 9.1% CAGR during the forecast period (2026-2032).

C&I ESS Solution refers to 'Commercial and Industrial Energy Storage System Solution,' which is designed to address the energy storage needs of businesses and industrial facilities. These systems store electricity, typically from renewable sources like solar or wind, to manage energy demand, reduce costs, and ensure energy reliability. C&I ESS solutions help optimize energy usage, support grid stability, and provide backup power during outages, making them essential for industries aiming to enhance operational efficiency and sustainability while lowering their carbon footprint.

In 2025, global C&I ESS Solution production reached approximately 14,402 MWh, with an average global market price of around US\$ 290 per kWh.

The C&I ESS Solution market has experienced significant growth in recent years due to the increasing need for reliable, efficient, and sustainable energy solutions across industries. This growth is driven by the rising demand for renewable energy integration, grid stability, and power cost management in various sectors, including manufacturing, real estate, healthcare, and data centers. Key regions driving this growth include North America, Europe, and Asia-Pacific, with North America leading due to its advanced energy infrastructure and growing regulatory support. Meanwhile, Asia-Pacific is emerging as a key player, particularly in China, Japan, South Korea, and Australia, where energy demand is soaring and there is strong governmental support for renewable energy solutions.

Market opportunities are vast, largely due to the global push towards decarbonization

and the increasing adoption of renewable energy sources like solar and wind. As more industries seek ways to reduce their carbon footprint and meet sustainability goals, the need for C&I ESS solutions to store and efficiently use renewable energy becomes increasingly apparent. ESS helps businesses mitigate the intermittent nature of renewables by storing excess energy generated during periods of high output, which can then be used during peak demand times, thereby reducing reliance on the grid and lowering energy costs. Additionally, rising electricity prices and the need for backup power in industries such as data centers, where even minimal downtime can result in significant financial losses, present strong opportunities for ESS providers. Furthermore, advancements in battery technology, particularly in lithium-ion and flow batteries, have reduced costs and increased the energy density of storage systems, further enhancing the market's growth potential.

However, the C&I ESS Solution market is not without its challenges. The high upfront costs of installation and integration of storage systems remain a significant barrier, especially for small and medium-sized enterprises (SMEs) with limited capital. Although the long-term savings from energy storage are clear, the initial investment can be prohibitive. Additionally, regulatory uncertainty in many regions hampers the development of standardized policies for ESS deployment, resulting in fragmented markets and slow adoption. In regions like the United States, energy storage policies vary significantly between states, creating complexity for ESS providers seeking to scale their solutions. Another challenge is the supply chain and raw material availability, particularly for lithium and cobalt, which are essential for many advanced battery technologies. Fluctuations in the availability and price of these materials can impact the production and cost of ESS solutions.

Looking ahead, the C&I ESS Solution market is expected to continue evolving, with several key trends shaping its future. One of the most prominent trends is the shift towards hybrid energy storage solutions, which combine various storage technologies to optimize performance and cost-efficiency. For instance, systems that integrate both lithium-ion batteries for short-term energy needs and flow batteries for longer-term storage are gaining traction. Another development trend is the increasing focus on artificial intelligence (AI) and machine learning (ML) in energy management systems, enabling smarter, real-time decision-making in energy storage and distribution, which can significantly enhance system efficiency. Additionally, the market is expected to see a growing demand for modular and scalable energy storage solutions, enabling businesses to customize their ESS according to their specific energy needs and expand capacity as demand grows. In terms of geographical development, emerging markets in Latin America, Africa, and Southeast Asia are anticipated to offer new growth

opportunities as these regions ramp up their renewable energy capacity and focus on energy independence.

Overall, the C&I ESS Solution market is positioned for robust growth, driven by the convergence of technological advancements, environmental policies, and increasing energy demands. However, addressing challenges related to cost, regulation, and material supply will be essential for the market to reach its full potential.

This report studies the global C&I ESS Solution production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for C&I ESS Solution 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 C&I ESS Solution that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global C&I ESS Solution total production and demand, 2021-2032, (MWh)

Global C&I ESS Solution total production value, 2021-2032, (USD Million)

Global C&I ESS Solution production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (MWh), (based on production site)

Global C&I ESS Solution consumption by region & country, CAGR, 2021-2032 & (MWh)

U.S. VS China: C&I ESS Solution domestic production, consumption, key domestic manufacturers and share

Global C&I ESS Solution production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (MWh)

Global C&I ESS Solution production by Type, production, value, CAGR, 2021-2032, (USD Million) & (MWh)

Global C&I ESS Solution production by Application, production, value, CAGR, 2021-2032, (USD Million) & (MWh)

This report profiles key players in the global C&I ESS Solution 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 Huawei Technologies, LG Energy Solution, Qcells, Sunwoda, ESS Tech, Alpha ESS, HyperStrong, SOFAR, Megarevo, TBB Renewable, 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 C&I ESS Solution market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (MWh) 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 C&I ESS Solution Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global C&I ESS Solution Market, Segmentation by Type:

Small-Scale C&I ESS (Up to 100 kW)

Medium-Scale C&I ESS (100 kW to 1 MW)

Large-Scale C&I ESS (1 MW to 10 MW)

Utility-Scale ESS (> 10 MW)

Global C&I ESS Solution Market, Segmentation by Battery Thermal Management Cooling Technology:

Air-Cooled C&I ESS

Liquid-Cooled C&I ESS

Immersion Cooling C&I ESS

Global C&I ESS Solution Market, Segmentation by Grid-Tied Topology Architecture:

Low-Voltage Grid-Tied ESS

High-Voltage Direct-Hanging ESS

PV-ESS Integrated Grid-Tied ESS

Global C&I ESS Solution Market, Segmentation by Application:

Commercial

Industrial

Companies Profiled:

Huawei Technologies

LG Energy Solution

Qcells

Sunwoda

ESS Tech

Alpha ESS

HyperStrong

SOFAR

Megarevo

TBB Renewable

MAGALA New Energy

LiFe-Younger

SRP

RoyPow

Sigenergy

BYD Energy

CPS North America

Ingeteam

Jinko Solar

Pylontech

Sungrow

Ningbo Deye Technology Co., Ltd.

OPTONICA LED

GoodWe

Schneider Electric

CATL

Delta Electronics

GSL Energy

SolaX

WOLONG ESS

CH Advance Tech

iBASE Energy

Dongguan Lithium Valley Energy Co. Ltd.

Contemporary Nebula Technology Energy Co.,Ltd.

Powerroad Renewable Energy

**Key Questions Answered:**

1. How big is the global C&I ESS Solution market?
2. What is the demand of the global C&I ESS Solution market?
3. What is the year over year growth of the global C&I ESS Solution market?
4. What is the production and production value of the global C&I ESS Solution market?
5. Who are the key producers in the global C&I ESS Solution market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

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

### 2 DEMAND SUMMARY

- 2.1 World C&I ESS Solution Demand (2021-2032)
- 2.2 World C&I ESS Solution Consumption by Region
  - 2.2.1 World C&I ESS Solution Consumption by Region (2021-2026)
  - 2.2.2 World C&I ESS Solution Consumption Forecast by Region (2027-2032)
- 2.3 United States C&I ESS Solution Consumption (2021-2032)
- 2.4 China C&I ESS Solution Consumption (2021-2032)
- 2.5 Europe C&I ESS Solution Consumption (2021-2032)
- 2.6 Japan C&I ESS Solution Consumption (2021-2032)
- 2.7 South Korea C&I ESS Solution Consumption (2021-2032)
- 2.8 ASEAN C&I ESS Solution Consumption (2021-2032)
- 2.9 India C&I ESS Solution Consumption (2021-2032)

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World C&I ESS Solution Production Value by Manufacturer (2021-2026)

- 3.2 World C&I ESS Solution Production by Manufacturer (2021-2026)
- 3.3 World C&I ESS Solution Average Price by Manufacturer (2021-2026)
- 3.4 C&I ESS Solution Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global C&I ESS Solution Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for C&I ESS Solution in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for C&I ESS Solution in 2025
- 3.6 C&I ESS Solution Market: Overall Company Footprint Analysis
  - 3.6.1 C&I ESS Solution Market: Region Footprint
  - 3.6.2 C&I ESS Solution Market: Company Product Type Footprint
  - 3.6.3 C&I ESS Solution 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: C&I ESS Solution Production Value Comparison
  - 4.1.1 United States VS China: C&I ESS Solution Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: C&I ESS Solution Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: C&I ESS Solution Production Comparison
  - 4.2.1 United States VS China: C&I ESS Solution Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: C&I ESS Solution Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: C&I ESS Solution Consumption Comparison
  - 4.3.1 United States VS China: C&I ESS Solution Consumption Comparison (2021 & 2025 & 2032)
  - 4.3.2 United States VS China: C&I ESS Solution Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based C&I ESS Solution Manufacturers and Market Share, 2021-2026
  - 4.4.1 United States Based C&I ESS Solution Manufacturers, Headquarters and Production Site (States, Country)

- 4.4.2 United States Based Manufacturers C&I ESS Solution Production Value (2021-2026)
- 4.4.3 United States Based Manufacturers C&I ESS Solution Production (2021-2026)
- 4.5 China Based C&I ESS Solution Manufacturers and Market Share
  - 4.5.1 China Based C&I ESS Solution Manufacturers, Headquarters and Production Site (Province, Country)
  - 4.5.2 China Based Manufacturers C&I ESS Solution Production Value (2021-2026)
  - 4.5.3 China Based Manufacturers C&I ESS Solution Production (2021-2026)
- 4.6 Rest of World Based C&I ESS Solution Manufacturers and Market Share, 2021-2026
  - 4.6.1 Rest of World Based C&I ESS Solution Manufacturers, Headquarters and Production Site (State, Country)
  - 4.6.2 Rest of World Based Manufacturers C&I ESS Solution Production Value (2021-2026)
  - 4.6.3 Rest of World Based Manufacturers C&I ESS Solution Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

- 5.1 World C&I ESS Solution Market Size Overview by Type: 2021 VS 2025 VS 2032
- 5.2 Segment Introduction by Type
  - 5.2.1 Small-Scale C&I ESS (Up to 100 kW)
  - 5.2.2 Medium-Scale C&I ESS (100 kW to 1 MW)
  - 5.2.3 Large-Scale C&I ESS (1 MW to 10 MW)
  - 5.2.4 Utility-Scale ESS (> 10 MW)
- 5.3 Market Segment by Type
  - 5.3.1 World C&I ESS Solution Production by Type (2021-2032)
  - 5.3.2 World C&I ESS Solution Production Value by Type (2021-2032)
  - 5.3.3 World C&I ESS Solution Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY BATTERY THERMAL MANAGEMENT COOLING TECHNOLOGY**

- 6.1 World C&I ESS Solution Market Size Overview by Battery Thermal Management Cooling Technology: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by Battery Thermal Management Cooling Technology
  - 6.2.1 Air-Cooled C&I ESS
  - 6.2.2 Liquid-Cooled C&I ESS
  - 6.2.3 Immersion Cooling C&I ESS
- 6.3 Market Segment by Battery Thermal Management Cooling Technology

6.3.1 World C&I ESS Solution Production by Battery Thermal Management Cooling Technology (2021-2032)

6.3.2 World C&I ESS Solution Production Value by Battery Thermal Management Cooling Technology (2021-2032)

6.3.3 World C&I ESS Solution Average Price by Battery Thermal Management Cooling Technology (2021-2032)

## **7 MARKET ANALYSIS BY GRID-TIED TOPOLOGY ARCHITECTURE**

7.1 World C&I ESS Solution Market Size Overview by Grid-Tied Topology Architecture: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Grid-Tied Topology Architecture

7.2.1 Low-Voltage Grid-Tied ESS

7.2.2 High-Voltage Direct-Hanging ESS

7.2.3 PV-ESS Integrated Grid-Tied ESS

7.3 Market Segment by Grid-Tied Topology Architecture

7.3.1 World C&I ESS Solution Production by Grid-Tied Topology Architecture (2021-2032)

7.3.2 World C&I ESS Solution Production Value by Grid-Tied Topology Architecture (2021-2032)

7.3.3 World C&I ESS Solution Average Price by Grid-Tied Topology Architecture (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World C&I ESS Solution Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Commercial

8.2.2 Industrial

8.3 Market Segment by Application

8.3.1 World C&I ESS Solution Production by Application (2021-2032)

8.3.2 World C&I ESS Solution Production Value by Application (2021-2032)

8.3.3 World C&I ESS Solution Average Price by Application (2021-2032)

## **9 COMPANY PROFILES**

9.1 Huawei Technologies

9.1.1 Huawei Technologies Details

- 9.1.2 Huawei Technologies Major Business
- 9.1.3 Huawei Technologies C&I ESS Solution Product and Services
- 9.1.4 Huawei Technologies C&I ESS Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 Huawei Technologies Recent Developments/Updates
- 9.1.6 Huawei Technologies Competitive Strengths & Weaknesses
- 9.2 LG Energy Solution
  - 9.2.1 LG Energy Solution Details
  - 9.2.2 LG Energy Solution Major Business
  - 9.2.3 LG Energy Solution C&I ESS Solution Product and Services
  - 9.2.4 LG Energy Solution C&I ESS Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.2.5 LG Energy Solution Recent Developments/Updates
  - 9.2.6 LG Energy Solution Competitive Strengths & Weaknesses
- 9.3 Qcells
  - 9.3.1 Qcells Details
  - 9.3.2 Qcells Major Business
  - 9.3.3 Qcells C&I ESS Solution Product and Services
  - 9.3.4 Qcells C&I ESS Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.3.5 Qcells Recent Developments/Updates
  - 9.3.6 Qcells Competitive Strengths & Weaknesses
- 9.4 Sunwoda
  - 9.4.1 Sunwoda Details
  - 9.4.2 Sunwoda Major Business
  - 9.4.3 Sunwoda C&I ESS Solution Product and Services
  - 9.4.4 Sunwoda C&I ESS Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.4.5 Sunwoda Recent Developments/Updates
  - 9.4.6 Sunwoda Competitive Strengths & Weaknesses
- 9.5 ESS Tech
  - 9.5.1 ESS Tech Details
  - 9.5.2 ESS Tech Major Business
  - 9.5.3 ESS Tech C&I ESS Solution Product and Services
  - 9.5.4 ESS Tech C&I ESS Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.5.5 ESS Tech Recent Developments/Updates
  - 9.5.6 ESS Tech Competitive Strengths & Weaknesses
- 9.6 Alpha ESS

- 9.6.1 Alpha ESS Details
- 9.6.2 Alpha ESS Major Business
- 9.6.3 Alpha ESS C&I ESS Solution Product and Services
- 9.6.4 Alpha ESS C&I ESS Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.6.5 Alpha ESS Recent Developments/Updates
- 9.6.6 Alpha ESS Competitive Strengths & Weaknesses
- 9.7 HyperStrong
  - 9.7.1 HyperStrong Details
  - 9.7.2 HyperStrong Major Business
  - 9.7.3 HyperStrong C&I ESS Solution Product and Services
  - 9.7.4 HyperStrong C&I ESS Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.7.5 HyperStrong Recent Developments/Updates
  - 9.7.6 HyperStrong Competitive Strengths & Weaknesses
- 9.8 SOFAR
  - 9.8.1 SOFAR Details
  - 9.8.2 SOFAR Major Business
  - 9.8.3 SOFAR C&I ESS Solution Product and Services
  - 9.8.4 SOFAR C&I ESS Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.8.5 SOFAR Recent Developments/Updates
  - 9.8.6 SOFAR Competitive Strengths & Weaknesses
- 9.9 Megarevo
  - 9.9.1 Megarevo Details
  - 9.9.2 Megarevo Major Business
  - 9.9.3 Megarevo C&I ESS Solution Product and Services
  - 9.9.4 Megarevo C&I ESS Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.9.5 Megarevo Recent Developments/Updates
  - 9.9.6 Megarevo Competitive Strengths & Weaknesses
- 9.10 TBB Renewable
  - 9.10.1 TBB Renewable Details
  - 9.10.2 TBB Renewable Major Business
  - 9.10.3 TBB Renewable C&I ESS Solution Product and Services
  - 9.10.4 TBB Renewable C&I ESS Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.10.5 TBB Renewable Recent Developments/Updates
  - 9.10.6 TBB Renewable Competitive Strengths & Weaknesses

## 9.11 MAGALA New Energy

9.11.1 MAGALA New Energy Details

9.11.2 MAGALA New Energy Major Business

9.11.3 MAGALA New Energy C&I ESS Solution Product and Services

9.11.4 MAGALA New Energy C&I ESS Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 MAGALA New Energy Recent Developments/Updates

9.11.6 MAGALA New Energy Competitive Strengths & Weaknesses

## 9.12 LiFe-Younger

9.12.1 LiFe-Younger Details

9.12.2 LiFe-Younger Major Business

9.12.3 LiFe-Younger C&I ESS Solution Product and Services

9.12.4 LiFe-Younger C&I ESS Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 LiFe-Younger Recent Developments/Updates

9.12.6 LiFe-Younger Competitive Strengths & Weaknesses

## 9.13 SRP

9.13.1 SRP Details

9.13.2 SRP Major Business

9.13.3 SRP C&I ESS Solution Product and Services

9.13.4 SRP C&I ESS Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 SRP Recent Developments/Updates

9.13.6 SRP Competitive Strengths & Weaknesses

## 9.14 RoyPow

9.14.1 RoyPow Details

9.14.2 RoyPow Major Business

9.14.3 RoyPow C&I ESS Solution Product and Services

9.14.4 RoyPow C&I ESS Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 RoyPow Recent Developments/Updates

9.14.6 RoyPow Competitive Strengths & Weaknesses

## 9.15 Sigenergy

9.15.1 Sigenergy Details

9.15.2 Sigenergy Major Business

9.15.3 Sigenergy C&I ESS Solution Product and Services

9.15.4 Sigenergy C&I ESS Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 Sigenergy Recent Developments/Updates

- 9.15.6 Sigenergy Competitive Strengths & Weaknesses
- 9.16 BYD Energy
  - 9.16.1 BYD Energy Details
  - 9.16.2 BYD Energy Major Business
  - 9.16.3 BYD Energy C&I ESS Solution Product and Services
  - 9.16.4 BYD Energy C&I ESS Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.16.5 BYD Energy Recent Developments/Updates
  - 9.16.6 BYD Energy Competitive Strengths & Weaknesses
- 9.17 CPS North America
  - 9.17.1 CPS North America Details
  - 9.17.2 CPS North America Major Business
  - 9.17.3 CPS North America C&I ESS Solution Product and Services
  - 9.17.4 CPS North America C&I ESS Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.17.5 CPS North America Recent Developments/Updates
  - 9.17.6 CPS North America Competitive Strengths & Weaknesses
- 9.18 Ingeteam
  - 9.18.1 Ingeteam Details
  - 9.18.2 Ingeteam Major Business
  - 9.18.3 Ingeteam C&I ESS Solution Product and Services
  - 9.18.4 Ingeteam C&I ESS Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.18.5 Ingeteam Recent Developments/Updates
  - 9.18.6 Ingeteam Competitive Strengths & Weaknesses
- 9.19 Jinko Solar
  - 9.19.1 Jinko Solar Details
  - 9.19.2 Jinko Solar Major Business
  - 9.19.3 Jinko Solar C&I ESS Solution Product and Services
  - 9.19.4 Jinko Solar C&I ESS Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.19.5 Jinko Solar Recent Developments/Updates
  - 9.19.6 Jinko Solar Competitive Strengths & Weaknesses
- 9.20 Pylontech
  - 9.20.1 Pylontech Details
  - 9.20.2 Pylontech Major Business
  - 9.20.3 Pylontech C&I ESS Solution Product and Services
  - 9.20.4 Pylontech C&I ESS Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.20.5 Pylontech Recent Developments/Updates
- 9.20.6 Pylontech Competitive Strengths & Weaknesses
- 9.21 Sungrow
  - 9.21.1 Sungrow Details
  - 9.21.2 Sungrow Major Business
  - 9.21.3 Sungrow C&I ESS Solution Product and Services
  - 9.21.4 Sungrow C&I ESS Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.21.5 Sungrow Recent Developments/Updates
  - 9.21.6 Sungrow Competitive Strengths & Weaknesses
- 9.22 Ningbo Deye Technology Co., Ltd.
  - 9.22.1 Ningbo Deye Technology Co., Ltd. Details
  - 9.22.2 Ningbo Deye Technology Co., Ltd. Major Business
  - 9.22.3 Ningbo Deye Technology Co., Ltd. C&I ESS Solution Product and Services
  - 9.22.4 Ningbo Deye Technology Co., Ltd. C&I ESS Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.22.5 Ningbo Deye Technology Co., Ltd. Recent Developments/Updates
  - 9.22.6 Ningbo Deye Technology Co., Ltd. Competitive Strengths & Weaknesses
- 9.23 OPTONICA LED
  - 9.23.1 OPTONICA LED Details
  - 9.23.2 OPTONICA LED Major Business
  - 9.23.3 OPTONICA LED C&I ESS Solution Product and Services
  - 9.23.4 OPTONICA LED C&I ESS Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.23.5 OPTONICA LED Recent Developments/Updates
  - 9.23.6 OPTONICA LED Competitive Strengths & Weaknesses
- 9.24 GoodWe
  - 9.24.1 GoodWe Details
  - 9.24.2 GoodWe Major Business
  - 9.24.3 GoodWe C&I ESS Solution Product and Services
  - 9.24.4 GoodWe C&I ESS Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.24.5 GoodWe Recent Developments/Updates
  - 9.24.6 GoodWe Competitive Strengths & Weaknesses
- 9.25 Schneider Electric
  - 9.25.1 Schneider Electric Details
  - 9.25.2 Schneider Electric Major Business
  - 9.25.3 Schneider Electric C&I ESS Solution Product and Services
  - 9.25.4 Schneider Electric C&I ESS Solution Production, Price, Value, Gross Margin

and Market Share (2021-2026)

9.25.5 Schneider Electric Recent Developments/Updates

9.25.6 Schneider Electric Competitive Strengths & Weaknesses

9.26 CATL

9.26.1 CATL Details

9.26.2 CATL Major Business

9.26.3 CATL C&I ESS Solution Product and Services

9.26.4 CATL C&I ESS Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.26.5 CATL Recent Developments/Updates

9.26.6 CATL Competitive Strengths & Weaknesses

9.27 Delta Electronics

9.27.1 Delta Electronics Details

9.27.2 Delta Electronics Major Business

9.27.3 Delta Electronics C&I ESS Solution Product and Services

9.27.4 Delta Electronics C&I ESS Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.27.5 Delta Electronics Recent Developments/Updates

9.27.6 Delta Electronics Competitive Strengths & Weaknesses

9.28 GSL Energy

9.28.1 GSL Energy Details

9.28.2 GSL Energy Major Business

9.28.3 GSL Energy C&I ESS Solution Product and Services

9.28.4 GSL Energy C&I ESS Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.28.5 GSL Energy Recent Developments/Updates

9.28.6 GSL Energy Competitive Strengths & Weaknesses

9.29 SolaX

9.29.1 SolaX Details

9.29.2 SolaX Major Business

9.29.3 SolaX C&I ESS Solution Product and Services

9.29.4 SolaX C&I ESS Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.29.5 SolaX Recent Developments/Updates

9.29.6 SolaX Competitive Strengths & Weaknesses

9.30 WOLONG ESS

9.30.1 WOLONG ESS Details

9.30.2 WOLONG ESS Major Business

9.30.3 WOLONG ESS C&I ESS Solution Product and Services

9.30.4 WOLONG ESS C&I ESS Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.30.5 WOLONG ESS Recent Developments/Updates

9.30.6 WOLONG ESS Competitive Strengths & Weaknesses

9.31 CH Advance Tech

9.31.1 CH Advance Tech Details

9.31.2 CH Advance Tech Major Business

9.31.3 CH Advance Tech C&I ESS Solution Product and Services

9.31.4 CH Advance Tech C&I ESS Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.31.5 CH Advance Tech Recent Developments/Updates

9.31.6 CH Advance Tech Competitive Strengths & Weaknesses

9.32 iBASE Energy

9.32.1 iBASE Energy Details

9.32.2 iBASE Energy Major Business

9.32.3 iBASE Energy C&I ESS Solution Product and Services

9.32.4 iBASE Energy C&I ESS Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.32.5 iBASE Energy Recent Developments/Updates

9.32.6 iBASE Energy Competitive Strengths & Weaknesses

9.33 Dongguan Lithium Valley Energy Co. Ltd.

9.33.1 Dongguan Lithium Valley Energy Co. Ltd. Details

9.33.2 Dongguan Lithium Valley Energy Co. Ltd. Major Business

9.33.3 Dongguan Lithium Valley Energy Co. Ltd. C&I ESS Solution Product and Services

9.33.4 Dongguan Lithium Valley Energy Co. Ltd. C&I ESS Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.33.5 Dongguan Lithium Valley Energy Co. Ltd. Recent Developments/Updates

9.33.6 Dongguan Lithium Valley Energy Co. Ltd. Competitive Strengths & Weaknesses

9.34 Contemporary Nebula Technology Energy Co.,Ltd.

9.34.1 Contemporary Nebula Technology Energy Co.,Ltd. Details

9.34.2 Contemporary Nebula Technology Energy Co.,Ltd. Major Business

9.34.3 Contemporary Nebula Technology Energy Co.,Ltd. C&I ESS Solution Product and Services

9.34.4 Contemporary Nebula Technology Energy Co.,Ltd. C&I ESS Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.34.5 Contemporary Nebula Technology Energy Co.,Ltd. Recent Developments/Updates

9.34.6 Contemporary Nebula Technology Energy Co.,Ltd. Competitive Strengths & Weaknesses

9.35 Poweroad Renewable Energy

9.35.1 Poweroad Renewable Energy Details

9.35.2 Poweroad Renewable Energy Major Business

9.35.3 Poweroad Renewable Energy C&I ESS Solution Product and Services

9.35.4 Poweroad Renewable Energy C&I ESS Solution Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.35.5 Poweroad Renewable Energy Recent Developments/Updates

9.35.6 Poweroad Renewable Energy Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

10.1 C&I ESS Solution Industry Chain

10.2 C&I ESS Solution Upstream Analysis

10.2.1 C&I ESS Solution Core Raw Materials

10.2.2 Main Manufacturers of C&I ESS Solution Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 C&I ESS Solution Production Mode

10.6 C&I ESS Solution Procurement Model

10.7 C&I ESS Solution Industry Sales Model and Sales Channels

10.7.1 C&I ESS Solution Sales Model

10.7.2 C&I ESS Solution 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 C&I ESS Solution Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World C&I ESS Solution Production Value by Region (2021-2026) & (USD Million)

Table 3. World C&I ESS Solution Production Value by Region (2027-2032) & (USD Million)

Table 4. World C&I ESS Solution Production Value Market Share by Region (2021-2026)

Table 5. World C&I ESS Solution Production Value Market Share by Region (2027-2032)

Table 6. World C&I ESS Solution Production by Region (2021-2026) & (MWh)

Table 7. World C&I ESS Solution Production by Region (2027-2032) & (MWh)

Table 8. World C&I ESS Solution Production Market Share by Region (2021-2026)

Table 9. World C&I ESS Solution Production Market Share by Region (2027-2032)

Table 10. World C&I ESS Solution Average Price by Region (2021-2026) & (US\$/KWh)

Table 11. World C&I ESS Solution Average Price by Region (2027-2032) & (US\$/KWh)

Table 12. C&I ESS Solution Major Market Trends

Table 13. World C&I ESS Solution Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (MWh)

Table 14. World C&I ESS Solution Consumption by Region (2021-2026) & (MWh)

Table 15. World C&I ESS Solution Consumption Forecast by Region (2027-2032) & (MWh)

Table 16. World C&I ESS Solution Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key C&I ESS Solution Producers in 2025

Table 18. World C&I ESS Solution Production by Manufacturer (2021-2026) & (MWh)

Table 19. Production Market Share of Key C&I ESS Solution Producers in 2025

Table 20. World C&I ESS Solution Average Price by Manufacturer (2021-2026) & (US\$/KWh)

Table 21. Global C&I ESS Solution Company Evaluation Quadrant

Table 22. World C&I ESS Solution Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and C&I ESS Solution Production Site of Key Manufacturer

Table 24. C&I ESS Solution Market: Company Product Type Footprint

Table 25. C&I ESS Solution Market: Company Product Application Footprint

- Table 26. C&I ESS Solution Competitive Factors
- Table 27. C&I ESS Solution New Entrant and Capacity Expansion Plans
- Table 28. C&I ESS Solution Mergers & Acquisitions Activity
- Table 29. United States VS China C&I ESS Solution Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
- Table 30. United States VS China C&I ESS Solution Production Comparison, (2021 & 2025 & 2032) & (MWh)
- Table 31. United States VS China C&I ESS Solution Consumption Comparison, (2021 & 2025 & 2032) & (MWh)
- Table 32. United States Based C&I ESS Solution Manufacturers, Headquarters and Production Site (States, Country)
- Table 33. United States Based Manufacturers C&I ESS Solution Production Value, (2021-2026) & (USD Million)
- Table 34. United States Based Manufacturers C&I ESS Solution Production Value Market Share (2021-2026)
- Table 35. United States Based Manufacturers C&I ESS Solution Production (2021-2026) & (MWh)
- Table 36. United States Based Manufacturers C&I ESS Solution Production Market Share (2021-2026)
- Table 37. China Based C&I ESS Solution Manufacturers, Headquarters and Production Site (Province, Country)
- Table 38. China Based Manufacturers C&I ESS Solution Production Value, (2021-2026) & (USD Million)
- Table 39. China Based Manufacturers C&I ESS Solution Production Value Market Share (2021-2026)
- Table 40. China Based Manufacturers C&I ESS Solution Production, (2021-2026) & (MWh)
- Table 41. China Based Manufacturers C&I ESS Solution Production Market Share (2021-2026)
- Table 42. Rest of World Based C&I ESS Solution Manufacturers, Headquarters and Production Site (State, Country)
- Table 43. Rest of World Based Manufacturers C&I ESS Solution Production Value, (2021-2026) & (USD Million)
- Table 44. Rest of World Based Manufacturers C&I ESS Solution Production Value Market Share (2021-2026)
- Table 45. Rest of World Based Manufacturers C&I ESS Solution Production, (2021-2026) & (MWh)
- Table 46. Rest of World Based Manufacturers C&I ESS Solution Production Market Share (2021-2026)

Table 47. World C&I ESS Solution Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World C&I ESS Solution Production by Type (2021-2026) & (MWh)

Table 49. World C&I ESS Solution Production by Type (2027-2032) & (MWh)

Table 50. World C&I ESS Solution Production Value by Type (2021-2026) & (USD Million)

Table 51. World C&I ESS Solution Production Value by Type (2027-2032) & (USD Million)

Table 52. World C&I ESS Solution Average Price by Type (2021-2026) & (US\$/KWh)

Table 53. World C&I ESS Solution Average Price by Type (2027-2032) & (US\$/KWh)

Table 54. World C&I ESS Solution Production Value by Battery Thermal Management Cooling Technology, (USD Million), 2021 & 2025 & 2032

Table 55. World C&I ESS Solution Production by Battery Thermal Management Cooling Technology (2021-2026) & (MWh)

Table 56. World C&I ESS Solution Production by Battery Thermal Management Cooling Technology (2027-2032) & (MWh)

Table 57. World C&I ESS Solution Production Value by Battery Thermal Management Cooling Technology (2021-2026) & (USD Million)

Table 58. World C&I ESS Solution Production Value by Battery Thermal Management Cooling Technology (2027-2032) & (USD Million)

Table 59. World C&I ESS Solution Average Price by Battery Thermal Management Cooling Technology (2021-2026) & (US\$/KWh)

Table 60. World C&I ESS Solution Average Price by Battery Thermal Management Cooling Technology (2027-2032) & (US\$/KWh)

Table 61. World C&I ESS Solution Production Value by Grid-Tied Topology Architecture, (USD Million), 2021 & 2025 & 2032

Table 62. World C&I ESS Solution Production by Grid-Tied Topology Architecture (2021-2026) & (MWh)

Table 63. World C&I ESS Solution Production by Grid-Tied Topology Architecture (2027-2032) & (MWh)

Table 64. World C&I ESS Solution Production Value by Grid-Tied Topology Architecture (2021-2026) & (USD Million)

Table 65. World C&I ESS Solution Production Value by Grid-Tied Topology Architecture (2027-2032) & (USD Million)

Table 66. World C&I ESS Solution Average Price by Grid-Tied Topology Architecture (2021-2026) & (US\$/KWh)

Table 67. World C&I ESS Solution Average Price by Grid-Tied Topology Architecture (2027-2032) & (US\$/KWh)

Table 68. World C&I ESS Solution Production Value by Application, (USD Million), 2021

& 2025 & 2032

Table 69. World C&I ESS Solution Production by Application (2021-2026) & (MWh)

Table 70. World C&I ESS Solution Production by Application (2027-2032) & (MWh)

Table 71. World C&I ESS Solution Production Value by Application (2021-2026) & (USD Million)

Table 72. World C&I ESS Solution Production Value by Application (2027-2032) & (USD Million)

Table 73. World C&I ESS Solution Average Price by Application (2021-2026) & (US\$/KWh)

Table 74. World C&I ESS Solution Average Price by Application (2027-2032) & (US\$/KWh)

Table 75. Huawei Technologies Basic Information, Manufacturing Base and Competitors

Table 76. Huawei Technologies Major Business

Table 77. Huawei Technologies C&I ESS Solution Product and Services

Table 78. Huawei Technologies C&I ESS Solution Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Huawei Technologies Recent Developments/Updates

Table 80. Huawei Technologies Competitive Strengths & Weaknesses

Table 81. LG Energy Solution Basic Information, Manufacturing Base and Competitors

Table 82. LG Energy Solution Major Business

Table 83. LG Energy Solution C&I ESS Solution Product and Services

Table 84. LG Energy Solution C&I ESS Solution Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. LG Energy Solution Recent Developments/Updates

Table 86. LG Energy Solution Competitive Strengths & Weaknesses

Table 87. Qcells Basic Information, Manufacturing Base and Competitors

Table 88. Qcells Major Business

Table 89. Qcells C&I ESS Solution Product and Services

Table 90. Qcells C&I ESS Solution Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Qcells Recent Developments/Updates

Table 92. Qcells Competitive Strengths & Weaknesses

Table 93. Sunwoda Basic Information, Manufacturing Base and Competitors

Table 94. Sunwoda Major Business

Table 95. Sunwoda C&I ESS Solution Product and Services

Table 96. Sunwoda C&I ESS Solution Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Sunwoda Recent Developments/Updates

Table 98. Sunwoda Competitive Strengths & Weaknesses

Table 99. ESS Tech Basic Information, Manufacturing Base and Competitors

Table 100. ESS Tech Major Business

Table 101. ESS Tech C&I ESS Solution Product and Services

Table 102. ESS Tech C&I ESS Solution Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. ESS Tech Recent Developments/Updates

Table 104. ESS Tech Competitive Strengths & Weaknesses

Table 105. Alpha ESS Basic Information, Manufacturing Base and Competitors

Table 106. Alpha ESS Major Business

Table 107. Alpha ESS C&I ESS Solution Product and Services

Table 108. Alpha ESS C&I ESS Solution Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Alpha ESS Recent Developments/Updates

Table 110. Alpha ESS Competitive Strengths & Weaknesses

Table 111. HyperStrong Basic Information, Manufacturing Base and Competitors

Table 112. HyperStrong Major Business

Table 113. HyperStrong C&I ESS Solution Product and Services

Table 114. HyperStrong C&I ESS Solution Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. HyperStrong Recent Developments/Updates

Table 116. HyperStrong Competitive Strengths & Weaknesses

Table 117. SOFAR Basic Information, Manufacturing Base and Competitors

Table 118. SOFAR Major Business

Table 119. SOFAR C&I ESS Solution Product and Services

Table 120. SOFAR C&I ESS Solution Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. SOFAR Recent Developments/Updates

Table 122. SOFAR Competitive Strengths & Weaknesses

Table 123. Megarevo Basic Information, Manufacturing Base and Competitors

Table 124. Megarevo Major Business

Table 125. Megarevo C&I ESS Solution Product and Services

Table 126. Megarevo C&I ESS Solution Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Megarevo Recent Developments/Updates

Table 128. Megarevo Competitive Strengths & Weaknesses

Table 129. TBB Renewable Basic Information, Manufacturing Base and Competitors

Table 130. TBB Renewable Major Business

Table 131. TBB Renewable C&I ESS Solution Product and Services

Table 132. TBB Renewable C&I ESS Solution Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. TBB Renewable Recent Developments/Updates

Table 134. TBB Renewable Competitive Strengths & Weaknesses

Table 135. MAGALA New Energy Basic Information, Manufacturing Base and Competitors

Table 136. MAGALA New Energy Major Business

Table 137. MAGALA New Energy C&I ESS Solution Product and Services

Table 138. MAGALA New Energy C&I ESS Solution Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. MAGALA New Energy Recent Developments/Updates

Table 140. MAGALA New Energy Competitive Strengths & Weaknesses

Table 141. LiFe-Younger Basic Information, Manufacturing Base and Competitors

Table 142. LiFe-Younger Major Business

Table 143. LiFe-Younger C&I ESS Solution Product and Services

Table 144. LiFe-Younger C&I ESS Solution Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. LiFe-Younger Recent Developments/Updates

Table 146. LiFe-Younger Competitive Strengths & Weaknesses

Table 147. SRP Basic Information, Manufacturing Base and Competitors

Table 148. SRP Major Business

Table 149. SRP C&I ESS Solution Product and Services

Table 150. SRP C&I ESS Solution Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. SRP Recent Developments/Updates

Table 152. SRP Competitive Strengths & Weaknesses

Table 153. RoyPow Basic Information, Manufacturing Base and Competitors

Table 154. RoyPow Major Business

Table 155. RoyPow C&I ESS Solution Product and Services

Table 156. RoyPow C&I ESS Solution Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. RoyPow Recent Developments/Updates

Table 158. RoyPow Competitive Strengths & Weaknesses

Table 159. Sigenergy Basic Information, Manufacturing Base and Competitors

Table 160. Sigenergy Major Business

Table 161. Sigenergy C&I ESS Solution Product and Services

Table 162. Sigenergy C&I ESS Solution Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 163. Sigenergy Recent Developments/Updates
- Table 164. Sigenergy Competitive Strengths & Weaknesses
- Table 165. BYD Energy Basic Information, Manufacturing Base and Competitors
- Table 166. BYD Energy Major Business
- Table 167. BYD Energy C&I ESS Solution Product and Services
- Table 168. BYD Energy C&I ESS Solution Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 169. BYD Energy Recent Developments/Updates
- Table 170. BYD Energy Competitive Strengths & Weaknesses
- Table 171. CPS North America Basic Information, Manufacturing Base and Competitors
- Table 172. CPS North America Major Business
- Table 173. CPS North America C&I ESS Solution Product and Services
- Table 174. CPS North America C&I ESS Solution Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 175. CPS North America Recent Developments/Updates
- Table 176. CPS North America Competitive Strengths & Weaknesses
- Table 177. Ingeteam Basic Information, Manufacturing Base and Competitors
- Table 178. Ingeteam Major Business
- Table 179. Ingeteam C&I ESS Solution Product and Services
- Table 180. Ingeteam C&I ESS Solution Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 181. Ingeteam Recent Developments/Updates
- Table 182. Ingeteam Competitive Strengths & Weaknesses
- Table 183. Jinko Solar Basic Information, Manufacturing Base and Competitors
- Table 184. Jinko Solar Major Business
- Table 185. Jinko Solar C&I ESS Solution Product and Services
- Table 186. Jinko Solar C&I ESS Solution Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 187. Jinko Solar Recent Developments/Updates
- Table 188. Jinko Solar Competitive Strengths & Weaknesses
- Table 189. Pylontech Basic Information, Manufacturing Base and Competitors
- Table 190. Pylontech Major Business
- Table 191. Pylontech C&I ESS Solution Product and Services
- Table 192. Pylontech C&I ESS Solution Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 193. Pylontech Recent Developments/Updates
- Table 194. Pylontech Competitive Strengths & Weaknesses
- Table 195. Sungrow Basic Information, Manufacturing Base and Competitors
- Table 196. Sungrow Major Business

- Table 197. Sungrow C&I ESS Solution Product and Services
- Table 198. Sungrow C&I ESS Solution Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 199. Sungrow Recent Developments/Updates
- Table 200. Sungrow Competitive Strengths & Weaknesses
- Table 201. Ningbo Deye Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
- Table 202. Ningbo Deye Technology Co., Ltd. Major Business
- Table 203. Ningbo Deye Technology Co., Ltd. C&I ESS Solution Product and Services
- Table 204. Ningbo Deye Technology Co., Ltd. C&I ESS Solution Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 205. Ningbo Deye Technology Co., Ltd. Recent Developments/Updates
- Table 206. Ningbo Deye Technology Co., Ltd. Competitive Strengths & Weaknesses
- Table 207. OPTONICA LED Basic Information, Manufacturing Base and Competitors
- Table 208. OPTONICA LED Major Business
- Table 209. OPTONICA LED C&I ESS Solution Product and Services
- Table 210. OPTONICA LED C&I ESS Solution Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 211. OPTONICA LED Recent Developments/Updates
- Table 212. OPTONICA LED Competitive Strengths & Weaknesses
- Table 213. GoodWe Basic Information, Manufacturing Base and Competitors
- Table 214. GoodWe Major Business
- Table 215. GoodWe C&I ESS Solution Product and Services
- Table 216. GoodWe C&I ESS Solution Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 217. GoodWe Recent Developments/Updates
- Table 218. GoodWe Competitive Strengths & Weaknesses
- Table 219. Schneider Electric Basic Information, Manufacturing Base and Competitors
- Table 220. Schneider Electric Major Business
- Table 221. Schneider Electric C&I ESS Solution Product and Services
- Table 222. Schneider Electric C&I ESS Solution Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 223. Schneider Electric Recent Developments/Updates
- Table 224. Schneider Electric Competitive Strengths & Weaknesses
- Table 225. CATL Basic Information, Manufacturing Base and Competitors
- Table 226. CATL Major Business
- Table 227. CATL C&I ESS Solution Product and Services
- Table 228. CATL C&I ESS Solution Production (MWh), Price (US\$/KWh), Production

Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 229. CATL Recent Developments/Updates

Table 230. CATL Competitive Strengths & Weaknesses

Table 231. Delta Electronics Basic Information, Manufacturing Base and Competitors

Table 232. Delta Electronics Major Business

Table 233. Delta Electronics C&I ESS Solution Product and Services

Table 234. Delta Electronics C&I ESS Solution Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 235. Delta Electronics Recent Developments/Updates

Table 236. Delta Electronics Competitive Strengths & Weaknesses

Table 237. GSL Energy Basic Information, Manufacturing Base and Competitors

Table 238. GSL Energy Major Business

Table 239. GSL Energy C&I ESS Solution Product and Services

Table 240. GSL Energy C&I ESS Solution Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 241. GSL Energy Recent Developments/Updates

Table 242. GSL Energy Competitive Strengths & Weaknesses

Table 243. SolaX Basic Information, Manufacturing Base and Competitors

Table 244. SolaX Major Business

Table 245. SolaX C&I ESS Solution Product and Services

Table 246. SolaX C&I ESS Solution Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 247. SolaX Recent Developments/Updates

Table 248. SolaX Competitive Strengths & Weaknesses

Table 249. WOLONG ESS Basic Information, Manufacturing Base and Competitors

Table 250. WOLONG ESS Major Business

Table 251. WOLONG ESS C&I ESS Solution Product and Services

Table 252. WOLONG ESS C&I ESS Solution Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 253. WOLONG ESS Recent Developments/Updates

Table 254. WOLONG ESS Competitive Strengths & Weaknesses

Table 255. CH Advance Tech Basic Information, Manufacturing Base and Competitors

Table 256. CH Advance Tech Major Business

Table 257. CH Advance Tech C&I ESS Solution Product and Services

Table 258. CH Advance Tech C&I ESS Solution Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 259. CH Advance Tech Recent Developments/Updates

Table 260. CH Advance Tech Competitive Strengths & Weaknesses

Table 261. iBASE Energy Basic Information, Manufacturing Base and Competitors

- Table 262. iBASE Energy Major Business
- Table 263. iBASE Energy C&I ESS Solution Product and Services
- Table 264. iBASE Energy C&I ESS Solution Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 265. iBASE Energy Recent Developments/Updates
- Table 266. iBASE Energy Competitive Strengths & Weaknesses
- Table 267. Dongguan Lithium Valley Energy Co. Ltd. Basic Information, Manufacturing Base and Competitors
- Table 268. Dongguan Lithium Valley Energy Co. Ltd. Major Business
- Table 269. Dongguan Lithium Valley Energy Co. Ltd. C&I ESS Solution Product and Services
- Table 270. Dongguan Lithium Valley Energy Co. Ltd. C&I ESS Solution Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 271. Dongguan Lithium Valley Energy Co. Ltd. Recent Developments/Updates
- Table 272. Dongguan Lithium Valley Energy Co. Ltd. Competitive Strengths & Weaknesses
- Table 273. Contemporary Nebula Technology Energy Co.,Ltd. Basic Information, Manufacturing Base and Competitors
- Table 274. Contemporary Nebula Technology Energy Co.,Ltd. Major Business
- Table 275. Contemporary Nebula Technology Energy Co.,Ltd. C&I ESS Solution Product and Services
- Table 276. Contemporary Nebula Technology Energy Co.,Ltd. C&I ESS Solution Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 277. Contemporary Nebula Technology Energy Co.,Ltd. Recent Developments/Updates
- Table 278. Contemporary Nebula Technology Energy Co.,Ltd. Competitive Strengths & Weaknesses
- Table 279. Poweroad Renewable Energy Basic Information, Manufacturing Base and Competitors
- Table 280. Poweroad Renewable Energy Major Business
- Table 281. Poweroad Renewable Energy C&I ESS Solution Product and Services
- Table 282. Poweroad Renewable Energy C&I ESS Solution Production (MWh), Price (US\$/KWh), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 283. Poweroad Renewable Energy Recent Developments/Updates
- Table 284. Poweroad Renewable Energy Competitive Strengths & Weaknesses
- Table 285. Global Key Players of C&I ESS Solution Upstream (Raw Materials)

Table 286. Global C&I ESS Solution Typical Customers

Table 287. C&I ESS Solution Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. C&I ESS Solution Picture

Figure 2. World C&I ESS Solution Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World C&I ESS Solution Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World C&I ESS Solution Production (2021-2032) & (MWh)

Figure 5. World C&I ESS Solution Average Price (2021-2032) & (US\$/KWh)

Figure 6. World C&I ESS Solution Production Value Market Share by Region (2021-2032)

Figure 7. World C&I ESS Solution Production Market Share by Region (2021-2032)

Figure 8. North America C&I ESS Solution Production (2021-2032) & (MWh)

Figure 9. Europe C&I ESS Solution Production (2021-2032) & (MWh)

Figure 10. China C&I ESS Solution Production (2021-2032) & (MWh)

Figure 11. Japan C&I ESS Solution Production (2021-2032) & (MWh)

Figure 12. C&I ESS Solution Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World C&I ESS Solution Consumption (2021-2032) & (MWh)

Figure 15. World C&I ESS Solution Consumption Market Share by Region (2021-2032)

Figure 16. United States C&I ESS Solution Consumption (2021-2032) & (MWh)

Figure 17. China C&I ESS Solution Consumption (2021-2032) & (MWh)

Figure 18. Europe C&I ESS Solution Consumption (2021-2032) & (MWh)

Figure 19. Japan C&I ESS Solution Consumption (2021-2032) & (MWh)

Figure 20. South Korea C&I ESS Solution Consumption (2021-2032) & (MWh)

Figure 21. ASEAN C&I ESS Solution Consumption (2021-2032) & (MWh)

Figure 22. India C&I ESS Solution Consumption (2021-2032) & (MWh)

Figure 23. Producer Shipments of C&I ESS Solution by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for C&I ESS Solution Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for C&I ESS Solution Markets in 2025

Figure 26. United States VS China: C&I ESS Solution Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: C&I ESS Solution Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: C&I ESS Solution Consumption Market Share

Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers C&I ESS Solution Production Market Share 2025

Figure 30. China Based Manufacturers C&I ESS Solution Production Market Share 2025

Figure 31. Rest of World Based Manufacturers C&I ESS Solution Production Market Share 2025

Figure 32. World C&I ESS Solution Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World C&I ESS Solution Production Value Market Share by Type in 2025

Figure 34. Small-Scale C&I ESS (Up to 100 kW)

Figure 35. Medium-Scale C&I ESS (100 kW to 1 MW)

Figure 36. Large-Scale C&I ESS (1 MW to 10 MW)

Figure 37. Utility-Scale ESS (> 10 MW)

Figure 38. World C&I ESS Solution Production Market Share by Type (2021-2032)

Figure 39. World C&I ESS Solution Production Value Market Share by Type (2021-2032)

Figure 40. World C&I ESS Solution Average Price by Type (2021-2032) & (US\$/KWh)

Figure 41. World C&I ESS Solution Production Value by Battery Thermal Management Cooling Technology, (USD Million), 2021 & 2025 & 2032

Figure 42. World C&I ESS Solution Production Value Market Share by Battery Thermal Management Cooling Technology in 2025

Figure 43. Air-Cooled C&I ESS

Figure 44. Liquid-Cooled C&I ESS

Figure 45. Immersion Cooling C&I ESS

Figure 46. World C&I ESS Solution Production Market Share by Battery Thermal Management Cooling Technology (2021-2032)

Figure 47. World C&I ESS Solution Production Value Market Share by Battery Thermal Management Cooling Technology (2021-2032)

Figure 48. World C&I ESS Solution Average Price by Battery Thermal Management Cooling Technology (2021-2032) & (US\$/KWh)

Figure 49. World C&I ESS Solution Production Value by Grid-Tied Topology Architecture, (USD Million), 2021 & 2025 & 2032

Figure 50. World C&I ESS Solution Production Value Market Share by Grid-Tied Topology Architecture in 2025

Figure 51. Low-Voltage Grid-Tied ESS

Figure 52. High-Voltage Direct-Hanging ESS

Figure 53. PV-ESS Integrated Grid-Tied ESS

Figure 54. World C&I ESS Solution Production Market Share by Grid-Tied Topology

Architecture (2021-2032)

Figure 55. World C&I ESS Solution Production Value Market Share by Grid-Tied Topology Architecture (2021-2032)

Figure 56. World C&I ESS Solution Average Price by Grid-Tied Topology Architecture (2021-2032) & (US\$/KWh)

Figure 57. World C&I ESS Solution Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World C&I ESS Solution Production Value Market Share by Application in 2025

Figure 59. Commercial

Figure 60. Industrial

Figure 61. World C&I ESS Solution Production Market Share by Application (2021-2032)

Figure 62. World C&I ESS Solution Production Value Market Share by Application (2021-2032)

Figure 63. World C&I ESS Solution Average Price by Application (2021-2032) & (US\$/KWh)

Figure 64. C&I ESS Solution Industry Chain

Figure 65. C&I ESS Solution Procurement Model

Figure 66. C&I ESS Solution Sales Model

Figure 67. C&I ESS Solution Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

## I would like to order

Product name: Global C&I ESS Solution Supply, Demand and Key Producers, 2026-2032

Product link: <https://marketpublishers.com/r/GF5E7EC81778EN.html>

Price: US\$ 4,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GF5E7EC81778EN.html>