

# Global Low-Carbon PV Encapsulation Film Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Low-Carbon PV Encapsulation Film market size is expected to reach \$ 3413 million by 2032, rising at a market growth of 11.7% CAGR during the forecast period (2026-2032).

In 2025, the global production of low-carbon PV encapsulant film was approximately 900 million square meters, with an average selling price of approximately US\$1.7 per square meter, a gross profit margin of approximately 35%, and a single production line capacity of approximately 20 million square meters per year. Low-carbon PV encapsulant film refers to PV module encapsulation materials that, while maintaining or even improving the performance of traditional PV encapsulant films (such as high light transmittance, strong adhesion, and anti-PID performance), significantly reduce their carbon footprint throughout their entire lifecycle by using green raw materials, clean energy production, and efficient processes. It is a crucial link in the PV industry chain's move towards 'green manufacturing' and achieving 'low-carbon throughout the entire lifecycle.' The upstream supply chain of low-carbon PV encapsulant film revolves around polymer materials such as POE/EPE and anti-aging additives, relying on petrochemical companies and specialty chemical suppliers. The midstream involves precision co-extrusion, casting, and curing processes to form thin film products, requiring strict cleanliness and process control. The downstream directly connects with PV module manufacturers, used to encapsulate solar cells to form a protective structural layer. The demand stems from the continuous expansion of photovoltaic power generation capacity driven by the global energy transition, exhibiting a dual-driven characteristic of 'technological upgrading' and 'capacity expansion'.

Key market drivers for low-carbon PV encapsulant film: 1. Global carbon neutrality regulations and trade barriers: Policies such as the EU's 'Carbon Border Adjustment

Mechanism' and the US 'Reduce Inflation Act' incorporate product carbon footprint into costs, directly driving rigid demand for low-carbon PV products. 2. Downstream procurement requirements for 'zero-carbon modules': International energy companies and large utility companies explicitly require modules to provide full life-cycle carbon footprint certification in their procurement, making low-carbon encapsulant films a core technological path for modules to meet this requirement. 3. The PV industry's own pursuit of sustainable development: To solidify its pure green energy image, leading PV companies are actively building differentiated competitive advantages and enhancing brand value through supply chain decarbonization. 4. Technological maturity and cost optimization: Large-scale production via bio-based and other pathways has gradually narrowed the cost premium of low-carbon encapsulant films, making commercial promotion economically feasible.

This report studies the global Low-Carbon PV Encapsulation Film production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Low-Carbon PV Encapsulation Film 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 Low-Carbon PV Encapsulation Film that contribute to its increasing demand across many markets.

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

Global Low-Carbon PV Encapsulation Film total production and demand, 2021-2032, (Sq m)

Global Low-Carbon PV Encapsulation Film total production value, 2021-2032, (USD Million)

Global Low-Carbon PV Encapsulation Film production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Sq m), (based on production site)

Global Low-Carbon PV Encapsulation Film consumption by region & country, CAGR, 2021-2032 & (Sq m)

U.S. VS China: Low-Carbon PV Encapsulation Film domestic production, consumption, key domestic manufacturers and share

Global Low-Carbon PV Encapsulation Film production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Sq m)

Global Low-Carbon PV Encapsulation Film production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Sq m)

Global Low-Carbon PV Encapsulation Film production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Sq m)

This report profiles key players in the global Low-Carbon PV Encapsulation Film 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 Hangzhou First Applied Material Co., Ltd, Jiangsu Sveck Photovoltaic Technology Co., Ltd., Shanghai HIUV New Materials Co., Ltd, Suzhou Saintyear Photovoltaic Technology Co., Ltd, Changzhou Betterial Film Technology Co., Ltd., Guangzhou Lushan New Materials Co., Ltd, Mingguan New Materials Co., Ltd., Hangzhou Xiangbang Technology Co., Ltd., Jiangxi Weike New Material Technology Co., Ltd., Suzhou Yisheng Solar Material Co., Ltd., 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 Low-Carbon PV Encapsulation Film market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Sq m) and average price (US\$/Sq m) 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 Low-Carbon PV Encapsulation Film Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Low-Carbon PV Encapsulation Film Market, Segmentation by Type:

Bio-based Film

Green Energy Production Film

Process-optimized Low-carbon Film

#### Global Low-Carbon PV Encapsulation Film Market, Segmentation by Basic Chemical Materials:

Low-carbon POE Film

Low-carbon EPE Film

Low-carbon EVA Film

#### Global Low-Carbon PV Encapsulation Film Market, Segmentation by Application:

Single-glass Module

Double-glass Module

Others

#### Companies Profiled:

Hangzhou First Applied Material Co., Ltd

Jiangsu Sveck Photovoltaic Technology Co., Ltd.

Shanghai HIUV New Materials Co., Ltd

Suzhou Saintyear Photovoltaic Technology Co., Ltd

Changzhou Betterial Film Technology Co., Ltd.

Guangzhou Lushan New Materials Co., Ltd

Mingguan New Materials Co., Ltd.

Hangzhou Xiangbang Technology Co., Ltd.

Jiangxi Weike New Material Technology Co., Ltd.

Suzhou Yisheng Solar Material Co., Ltd.

Guangdong Baojun New Material Technology Co., Ltd.

Changshu Tegu New Material Technology Co., Ltd.

### **Key Questions Answered:**

1. How big is the global Low-Carbon PV Encapsulation Film market?
2. What is the demand of the global Low-Carbon PV Encapsulation Film market?
3. What is the year over year growth of the global Low-Carbon PV Encapsulation Film market?
4. What is the production and production value of the global Low-Carbon PV Encapsulation Film market?
5. Who are the key producers in the global Low-Carbon PV Encapsulation Film market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

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

### 2 DEMAND SUMMARY

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

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World DC Brushless Motor Production Value by Manufacturer (2021-2026)

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

4.4.2 United States Based Manufacturers DC Brushless Motor Production Value (2021-2026)

4.4.3 United States Based Manufacturers DC Brushless Motor Production (2021-2026)

4.5 China Based DC Brushless Motor Manufacturers and Market Share

4.5.1 China Based DC Brushless Motor Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers DC Brushless Motor Production Value (2021-2026)

4.5.3 China Based Manufacturers DC Brushless Motor Production (2021-2026)

4.6 Rest of World Based DC Brushless Motor Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based DC Brushless Motor Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers DC Brushless Motor Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers DC Brushless Motor Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World DC Brushless Motor Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Sensored

5.2.2 Sensorless

5.3 Market Segment by Type

5.3.1 World DC Brushless Motor Production by Type (2021-2032)

5.3.2 World DC Brushless Motor Production Value by Type (2021-2032)

5.3.3 World DC Brushless Motor Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY POWER**

6.1 World DC Brushless Motor Market Size Overview by Power: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Power

6.2.1 Low-Power

6.2.2 Medium-Power

6.2.3 High-Power

6.3 Market Segment by Power

6.3.1 World DC Brushless Motor Production by Power (2021-2032)

6.3.2 World DC Brushless Motor Production Value by Power (2021-2032)

6.3.3 World DC Brushless Motor Average Price by Power (2021-2032)

## **7 MARKET ANALYSIS BY ROTOR TYPE**

7.1 World DC Brushless Motor Market Size Overview by Rotor Type: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Rotor Type

7.2.1 Surface-Mounted PM

7.2.2 Interior PM

7.3 Market Segment by Rotor Type

7.3.1 World DC Brushless Motor Production by Rotor Type (2021-2032)

7.3.2 World DC Brushless Motor Production Value by Rotor Type (2021-2032)

7.3.3 World DC Brushless Motor Average Price by Rotor Type (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World DC Brushless Motor Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Automotive

8.2.2 Home Appliances

8.2.3 Consumer Electronics

8.2.4 Industrial Equipment

8.2.5 Medical

8.2.6 Others

8.3 Market Segment by Application

8.3.1 World DC Brushless Motor Production by Application (2021-2032)

8.3.2 World DC Brushless Motor Production Value by Application (2021-2032)

8.3.3 World DC Brushless Motor Average Price by Application (2021-2032)

## **9 COMPANY PROFILES**

9.1 NIDEC

9.1.1 NIDEC Details

9.1.2 NIDEC Major Business

9.1.3 NIDEC DC Brushless Motor Product and Services

9.1.4 NIDEC DC Brushless Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 NIDEC Recent Developments/Updates

9.1.6 NIDEC Competitive Strengths & Weaknesses

9.2 Midea

- 9.2.1 Midea Details
- 9.2.2 Midea Major Business
- 9.2.3 Midea DC Brushless Motor Product and Services
- 9.2.4 Midea DC Brushless Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 Midea Recent Developments/Updates
- 9.2.6 Midea Competitive Strengths & Weaknesses
- 9.3 Johnson Electric
  - 9.3.1 Johnson Electric Details
  - 9.3.2 Johnson Electric Major Business
  - 9.3.3 Johnson Electric DC Brushless Motor Product and Services
  - 9.3.4 Johnson Electric DC Brushless Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.3.5 Johnson Electric Recent Developments/Updates
  - 9.3.6 Johnson Electric Competitive Strengths & Weaknesses
- 9.4 MinebeaMitsumi
  - 9.4.1 MinebeaMitsumi Details
  - 9.4.2 MinebeaMitsumi Major Business
  - 9.4.3 MinebeaMitsumi DC Brushless Motor Product and Services
  - 9.4.4 MinebeaMitsumi DC Brushless Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.4.5 MinebeaMitsumi Recent Developments/Updates
  - 9.4.6 MinebeaMitsumi Competitive Strengths & Weaknesses
- 9.5 Denso
  - 9.5.1 Denso Details
  - 9.5.2 Denso Major Business
  - 9.5.3 Denso DC Brushless Motor Product and Services
  - 9.5.4 Denso DC Brushless Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.5.5 Denso Recent Developments/Updates
  - 9.5.6 Denso Competitive Strengths & Weaknesses
- 9.6 Bosch
  - 9.6.1 Bosch Details
  - 9.6.2 Bosch Major Business
  - 9.6.3 Bosch DC Brushless Motor Product and Services
  - 9.6.4 Bosch DC Brushless Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.6.5 Bosch Recent Developments/Updates
  - 9.6.6 Bosch Competitive Strengths & Weaknesses

## 9.7 Wolong

### 9.7.1 Wolong Details

### 9.7.2 Wolong Major Business

### 9.7.3 Wolong DC Brushless Motor Product and Services

### 9.7.4 Wolong DC Brushless Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.7.5 Wolong Recent Developments/Updates

### 9.7.6 Wolong Competitive Strengths & Weaknesses

## 9.8 Valeo

### 9.8.1 Valeo Details

### 9.8.2 Valeo Major Business

### 9.8.3 Valeo DC Brushless Motor Product and Services

### 9.8.4 Valeo DC Brushless Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.8.5 Valeo Recent Developments/Updates

### 9.8.6 Valeo Competitive Strengths & Weaknesses

## 9.9 Suzhou Industrial Park CINDERSON Motor

### 9.9.1 Suzhou Industrial Park CINDERSON Motor Details

### 9.9.2 Suzhou Industrial Park CINDERSON Motor Major Business

### 9.9.3 Suzhou Industrial Park CINDERSON Motor DC Brushless Motor Product and Services

### 9.9.4 Suzhou Industrial Park CINDERSON Motor DC Brushless Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.9.5 Suzhou Industrial Park CINDERSON Motor Recent Developments/Updates

### 9.9.6 Suzhou Industrial Park CINDERSON Motor Competitive Strengths & Weaknesses

## 9.10 Mabuchi Motor

### 9.10.1 Mabuchi Motor Details

### 9.10.2 Mabuchi Motor Major Business

### 9.10.3 Mabuchi Motor DC Brushless Motor Product and Services

### 9.10.4 Mabuchi Motor DC Brushless Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.10.5 Mabuchi Motor Recent Developments/Updates

### 9.10.6 Mabuchi Motor Competitive Strengths & Weaknesses

## 9.11 Constar Micromotor

### 9.11.1 Constar Micromotor Details

### 9.11.2 Constar Micromotor Major Business

### 9.11.3 Constar Micromotor DC Brushless Motor Product and Services

### 9.11.4 Constar Micromotor DC Brushless Motor Production, Price, Value, Gross

## Margin and Market Share (2021-2026)

9.11.5 Constar Micromotor Recent Developments/Updates

9.11.6 Constar Micromotor Competitive Strengths & Weaknesses

## 9.12 Ningbo Jingcheng Motor

9.12.1 Ningbo Jingcheng Motor Details

9.12.2 Ningbo Jingcheng Motor Major Business

9.12.3 Ningbo Jingcheng Motor DC Brushless Motor Product and Services

9.12.4 Ningbo Jingcheng Motor DC Brushless Motor Production, Price, Value, Gross

## Margin and Market Share (2021-2026)

9.12.5 Ningbo Jingcheng Motor Recent Developments/Updates

9.12.6 Ningbo Jingcheng Motor Competitive Strengths & Weaknesses

## 9.13 Yanfeng Adient Founder Motor

9.13.1 Yanfeng Adient Founder Motor Details

9.13.2 Yanfeng Adient Founder Motor Major Business

9.13.3 Yanfeng Adient Founder Motor DC Brushless Motor Product and Services

9.13.4 Yanfeng Adient Founder Motor DC Brushless Motor Production, Price, Value,

## Gross Margin and Market Share (2021-2026)

9.13.5 Yanfeng Adient Founder Motor Recent Developments/Updates

9.13.6 Yanfeng Adient Founder Motor Competitive Strengths & Weaknesses

## 9.14 Ningbo Hengshuai

9.14.1 Ningbo Hengshuai Details

9.14.2 Ningbo Hengshuai Major Business

9.14.3 Ningbo Hengshuai DC Brushless Motor Product and Services

9.14.4 Ningbo Hengshuai DC Brushless Motor Production, Price, Value, Gross Margin

## and Market Share (2021-2026)

9.14.5 Ningbo Hengshuai Recent Developments/Updates

9.14.6 Ningbo Hengshuai Competitive Strengths & Weaknesses

## 9.15 Brose Fahrzeugteile

9.15.1 Brose Fahrzeugteile Details

9.15.2 Brose Fahrzeugteile Major Business

9.15.3 Brose Fahrzeugteile DC Brushless Motor Product and Services

9.15.4 Brose Fahrzeugteile DC Brushless Motor Production, Price, Value, Gross

## Margin and Market Share (2021-2026)

9.15.5 Brose Fahrzeugteile Recent Developments/Updates

9.15.6 Brose Fahrzeugteile Competitive Strengths & Weaknesses

## 9.16 Keli Motor

9.16.1 Keli Motor Details

9.16.2 Keli Motor Major Business

9.16.3 Keli Motor DC Brushless Motor Product and Services

- 9.16.4 Keli Motor DC Brushless Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.16.5 Keli Motor Recent Developments/Updates
- 9.16.6 Keli Motor Competitive Strengths & Weaknesses
- 9.17 Zhejiang Founder Motor
  - 9.17.1 Zhejiang Founder Motor Details
  - 9.17.2 Zhejiang Founder Motor Major Business
  - 9.17.3 Zhejiang Founder Motor DC Brushless Motor Product and Services
  - 9.17.4 Zhejiang Founder Motor DC Brushless Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.17.5 Zhejiang Founder Motor Recent Developments/Updates
  - 9.17.6 Zhejiang Founder Motor Competitive Strengths & Weaknesses
- 9.18 Regal Rexnord
  - 9.18.1 Regal Rexnord Details
  - 9.18.2 Regal Rexnord Major Business
  - 9.18.3 Regal Rexnord DC Brushless Motor Product and Services
  - 9.18.4 Regal Rexnord DC Brushless Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.18.5 Regal Rexnord Recent Developments/Updates
  - 9.18.6 Regal Rexnord Competitive Strengths & Weaknesses
- 9.19 ABB
  - 9.19.1 ABB Details
  - 9.19.2 ABB Major Business
  - 9.19.3 ABB DC Brushless Motor Product and Services
  - 9.19.4 ABB DC Brushless Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.19.5 ABB Recent Developments/Updates
  - 9.19.6 ABB Competitive Strengths & Weaknesses
- 9.20 Changzhou Haosheng Motor
  - 9.20.1 Changzhou Haosheng Motor Details
  - 9.20.2 Changzhou Haosheng Motor Major Business
  - 9.20.3 Changzhou Haosheng Motor DC Brushless Motor Product and Services
  - 9.20.4 Changzhou Haosheng Motor DC Brushless Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.20.5 Changzhou Haosheng Motor Recent Developments/Updates
  - 9.20.6 Changzhou Haosheng Motor Competitive Strengths & Weaknesses
- 9.21 Jinlong Machinery & Electronics
  - 9.21.1 Jinlong Machinery & Electronics Details
  - 9.21.2 Jinlong Machinery & Electronics Major Business

- 9.21.3 Jinlong Machinery & Electronics DC Brushless Motor Product and Services
- 9.21.4 Jinlong Machinery & Electronics DC Brushless Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.21.5 Jinlong Machinery & Electronics Recent Developments/Updates
- 9.21.6 Jinlong Machinery & Electronics Competitive Strengths & Weaknesses
- 9.22 Anhui Wannan Electric Machine
  - 9.22.1 Anhui Wannan Electric Machine Details
  - 9.22.2 Anhui Wannan Electric Machine Major Business
  - 9.22.3 Anhui Wannan Electric Machine DC Brushless Motor Product and Services
  - 9.22.4 Anhui Wannan Electric Machine DC Brushless Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.22.5 Anhui Wannan Electric Machine Recent Developments/Updates
  - 9.22.6 Anhui Wannan Electric Machine Competitive Strengths & Weaknesses
- 9.23 Maxon
  - 9.23.1 Maxon Details
  - 9.23.2 Maxon Major Business
  - 9.23.3 Maxon DC Brushless Motor Product and Services
  - 9.23.4 Maxon DC Brushless Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.23.5 Maxon Recent Developments/Updates
  - 9.23.6 Maxon Competitive Strengths & Weaknesses
- 9.24 Igarashi Electric Works
  - 9.24.1 Igarashi Electric Works Details
  - 9.24.2 Igarashi Electric Works Major Business
  - 9.24.3 Igarashi Electric Works DC Brushless Motor Product and Services
  - 9.24.4 Igarashi Electric Works DC Brushless Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.24.5 Igarashi Electric Works Recent Developments/Updates
  - 9.24.6 Igarashi Electric Works Competitive Strengths & Weaknesses
- 9.25 Jiangsu Leili
  - 9.25.1 Jiangsu Leili Details
  - 9.25.2 Jiangsu Leili Major Business
  - 9.25.3 Jiangsu Leili DC Brushless Motor Product and Services
  - 9.25.4 Jiangsu Leili DC Brushless Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.25.5 Jiangsu Leili Recent Developments/Updates
  - 9.25.6 Jiangsu Leili Competitive Strengths & Weaknesses
- 9.26 Hyoseong Electric
  - 9.26.1 Hyoseong Electric Details

- 9.26.2 Hyoseong Electric Major Business
- 9.26.3 Hyoseong Electric DC Brushless Motor Product and Services
- 9.26.4 Hyoseong Electric DC Brushless Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.26.5 Hyoseong Electric Recent Developments/Updates
- 9.26.6 Hyoseong Electric Competitive Strengths & Weaknesses
- 9.27 Changzhou 3x Motion TECHNOLOGIES
  - 9.27.1 Changzhou 3x Motion TECHNOLOGIES Details
  - 9.27.2 Changzhou 3x Motion TECHNOLOGIES Major Business
  - 9.27.3 Changzhou 3x Motion TECHNOLOGIES DC Brushless Motor Product and Services
  - 9.27.4 Changzhou 3x Motion TECHNOLOGIES DC Brushless Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.27.5 Changzhou 3x Motion TECHNOLOGIES Recent Developments/Updates
  - 9.27.6 Changzhou 3x Motion TECHNOLOGIES Competitive Strengths & Weaknesses
- 9.28 Panasonic
  - 9.28.1 Panasonic Details
  - 9.28.2 Panasonic Major Business
  - 9.28.3 Panasonic DC Brushless Motor Product and Services
  - 9.28.4 Panasonic DC Brushless Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.28.5 Panasonic Recent Developments/Updates
  - 9.28.6 Panasonic Competitive Strengths & Weaknesses
- 9.29 Mitsuba
  - 9.29.1 Mitsuba Details
  - 9.29.2 Mitsuba Major Business
  - 9.29.3 Mitsuba DC Brushless Motor Product and Services
  - 9.29.4 Mitsuba DC Brushless Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.29.5 Mitsuba Recent Developments/Updates
  - 9.29.6 Mitsuba Competitive Strengths & Weaknesses
- 9.30 Faulhaber
  - 9.30.1 Faulhaber Details
  - 9.30.2 Faulhaber Major Business
  - 9.30.3 Faulhaber DC Brushless Motor Product and Services
  - 9.30.4 Faulhaber DC Brushless Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.30.5 Faulhaber Recent Developments/Updates
  - 9.30.6 Faulhaber Competitive Strengths & Weaknesses

## 9.31 DY

### 9.31.1 DY Details

### 9.31.2 DY Major Business

### 9.31.3 DY DC Brushless Motor Product and Services

### 9.31.4 DY DC Brushless Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.31.5 DY Recent Developments/Updates

### 9.31.6 DY Competitive Strengths & Weaknesses

## 9.32 Shenzhen Zhongqu Motor

### 9.32.1 Shenzhen Zhongqu Motor Details

### 9.32.2 Shenzhen Zhongqu Motor Major Business

### 9.32.3 Shenzhen Zhongqu Motor DC Brushless Motor Product and Services

### 9.32.4 Shenzhen Zhongqu Motor DC Brushless Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.32.5 Shenzhen Zhongqu Motor Recent Developments/Updates

### 9.32.6 Shenzhen Zhongqu Motor Competitive Strengths & Weaknesses

## 9.33 Shenzhen Power Motor Industrial

### 9.33.1 Shenzhen Power Motor Industrial Details

### 9.33.2 Shenzhen Power Motor Industrial Major Business

### 9.33.3 Shenzhen Power Motor Industrial DC Brushless Motor Product and Services

### 9.33.4 Shenzhen Power Motor Industrial DC Brushless Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.33.5 Shenzhen Power Motor Industrial Recent Developments/Updates

### 9.33.6 Shenzhen Power Motor Industrial Competitive Strengths & Weaknesses

## 9.34 SHB

### 9.34.1 SHB Details

### 9.34.2 SHB Major Business

### 9.34.3 SHB DC Brushless Motor Product and Services

### 9.34.4 SHB DC Brushless Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.34.5 SHB Recent Developments/Updates

### 9.34.6 SHB Competitive Strengths & Weaknesses

## 9.35 NICHIBO

### 9.35.1 NICHIBO Details

### 9.35.2 NICHIBO Major Business

### 9.35.3 NICHIBO DC Brushless Motor Product and Services

### 9.35.4 NICHIBO DC Brushless Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.35.5 NICHIBO Recent Developments/Updates

- 9.35.6 NICHIBO Competitive Strengths & Weaknesses
- 9.36 Changzhou Xiangming Intelligent Drive System
  - 9.36.1 Changzhou Xiangming Intelligent Drive System Details
  - 9.36.2 Changzhou Xiangming Intelligent Drive System Major Business
  - 9.36.3 Changzhou Xiangming Intelligent Drive System DC Brushless Motor Product and Services
  - 9.36.4 Changzhou Xiangming Intelligent Drive System DC Brushless Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.36.5 Changzhou Xiangming Intelligent Drive System Recent Developments/Updates
  - 9.36.6 Changzhou Xiangming Intelligent Drive System Competitive Strengths & Weaknesses
- 9.37 Leggett & Platt
  - 9.37.1 Leggett & Platt Details
  - 9.37.2 Leggett & Platt Major Business
  - 9.37.3 Leggett & Platt DC Brushless Motor Product and Services
  - 9.37.4 Leggett & Platt DC Brushless Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.37.5 Leggett & Platt Recent Developments/Updates
  - 9.37.6 Leggett & Platt Competitive Strengths & Weaknesses
- 9.38 Keyang Electric Machinery
  - 9.38.1 Keyang Electric Machinery Details
  - 9.38.2 Keyang Electric Machinery Major Business
  - 9.38.3 Keyang Electric Machinery DC Brushless Motor Product and Services
  - 9.38.4 Keyang Electric Machinery DC Brushless Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.38.5 Keyang Electric Machinery Recent Developments/Updates
  - 9.38.6 Keyang Electric Machinery Competitive Strengths & Weaknesses
- 9.39 Harbin Electric Corporation Jiamusi Electric Machine
  - 9.39.1 Harbin Electric Corporation Jiamusi Electric Machine Details
  - 9.39.2 Harbin Electric Corporation Jiamusi Electric Machine Major Business
  - 9.39.3 Harbin Electric Corporation Jiamusi Electric Machine DC Brushless Motor Product and Services
  - 9.39.4 Harbin Electric Corporation Jiamusi Electric Machine DC Brushless Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.39.5 Harbin Electric Corporation Jiamusi Electric Machine Recent Developments/Updates
  - 9.39.6 Harbin Electric Corporation Jiamusi Electric Machine Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

10.1 DC Brushless Motor Industry Chain

10.2 DC Brushless Motor Upstream Analysis

10.2.1 DC Brushless Motor Core Raw Materials

10.2.2 Main Manufacturers of DC Brushless Motor Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 DC Brushless Motor Production Mode

10.6 DC Brushless Motor Procurement Model

10.7 DC Brushless Motor Industry Sales Model and Sales Channels

10.7.1 DC Brushless Motor Sales Model

10.7.2 DC Brushless Motor 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 Low-Carbon PV Encapsulation Film Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Low-Carbon PV Encapsulation Film Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Low-Carbon PV Encapsulation Film Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Low-Carbon PV Encapsulation Film Production Value Market Share by Region (2021-2026)
- Table 5. World Low-Carbon PV Encapsulation Film Production Value Market Share by Region (2027-2032)
- Table 6. World Low-Carbon PV Encapsulation Film Production by Region (2021-2026) & (Sq m)
- Table 7. World Low-Carbon PV Encapsulation Film Production by Region (2027-2032) & (Sq m)
- Table 8. World Low-Carbon PV Encapsulation Film Production Market Share by Region (2021-2026)
- Table 9. World Low-Carbon PV Encapsulation Film Production Market Share by Region (2027-2032)
- Table 10. World Low-Carbon PV Encapsulation Film Average Price by Region (2021-2026) & (US\$/Sq m)
- Table 11. World Low-Carbon PV Encapsulation Film Average Price by Region (2027-2032) & (US\$/Sq m)
- Table 12. Low-Carbon PV Encapsulation Film Major Market Trends
- Table 13. World Low-Carbon PV Encapsulation Film Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Sq m)
- Table 14. World Low-Carbon PV Encapsulation Film Consumption by Region (2021-2026) & (Sq m)
- Table 15. World Low-Carbon PV Encapsulation Film Consumption Forecast by Region (2027-2032) & (Sq m)
- Table 16. World Low-Carbon PV Encapsulation Film Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Low-Carbon PV Encapsulation Film Producers in 2025
- Table 18. World Low-Carbon PV Encapsulation Film Production by Manufacturer (2021-2026) & (Sq m)

Table 19. Production Market Share of Key Low-Carbon PV Encapsulation Film Producers in 2025

Table 20. World Low-Carbon PV Encapsulation Film Average Price by Manufacturer (2021-2026) & (US\$/Sq m)

Table 21. Global Low-Carbon PV Encapsulation Film Company Evaluation Quadrant

Table 22. World Low-Carbon PV Encapsulation Film Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Low-Carbon PV Encapsulation Film Production Site of Key Manufacturer

Table 24. Low-Carbon PV Encapsulation Film Market: Company Product Type Footprint

Table 25. Low-Carbon PV Encapsulation Film Market: Company Product Application Footprint

Table 26. Low-Carbon PV Encapsulation Film Competitive Factors

Table 27. Low-Carbon PV Encapsulation Film New Entrant and Capacity Expansion Plans

Table 28. Low-Carbon PV Encapsulation Film Mergers & Acquisitions Activity

Table 29. United States VS China Low-Carbon PV Encapsulation Film Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Low-Carbon PV Encapsulation Film Production Comparison, (2021 & 2025 & 2032) & (Sq m)

Table 31. United States VS China Low-Carbon PV Encapsulation Film Consumption Comparison, (2021 & 2025 & 2032) & (Sq m)

Table 32. United States Based Low-Carbon PV Encapsulation Film Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Low-Carbon PV Encapsulation Film Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Low-Carbon PV Encapsulation Film Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Low-Carbon PV Encapsulation Film Production (2021-2026) & (Sq m)

Table 36. United States Based Manufacturers Low-Carbon PV Encapsulation Film Production Market Share (2021-2026)

Table 37. China Based Low-Carbon PV Encapsulation Film Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Low-Carbon PV Encapsulation Film Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Low-Carbon PV Encapsulation Film Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Low-Carbon PV Encapsulation Film Production,

(2021-2026) & (Sq m)

Table 41. China Based Manufacturers Low-Carbon PV Encapsulation Film Production Market Share (2021-2026)

Table 42. Rest of World Based Low-Carbon PV Encapsulation Film Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Low-Carbon PV Encapsulation Film Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Low-Carbon PV Encapsulation Film Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Low-Carbon PV Encapsulation Film Production, (2021-2026) & (Sq m)

Table 46. Rest of World Based Manufacturers Low-Carbon PV Encapsulation Film Production Market Share (2021-2026)

Table 47. World Low-Carbon PV Encapsulation Film Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Low-Carbon PV Encapsulation Film Production by Type (2021-2026) & (Sq m)

Table 49. World Low-Carbon PV Encapsulation Film Production by Type (2027-2032) & (Sq m)

Table 50. World Low-Carbon PV Encapsulation Film Production Value by Type (2021-2026) & (USD Million)

Table 51. World Low-Carbon PV Encapsulation Film Production Value by Type (2027-2032) & (USD Million)

Table 52. World Low-Carbon PV Encapsulation Film Average Price by Type (2021-2026) & (US\$/Sq m)

Table 53. World Low-Carbon PV Encapsulation Film Average Price by Type (2027-2032) & (US\$/Sq m)

Table 54. World Low-Carbon PV Encapsulation Film Production Value by Basic Chemical Materials, (USD Million), 2021 & 2025 & 2032

Table 55. World Low-Carbon PV Encapsulation Film Production by Basic Chemical Materials (2021-2026) & (Sq m)

Table 56. World Low-Carbon PV Encapsulation Film Production by Basic Chemical Materials (2027-2032) & (Sq m)

Table 57. World Low-Carbon PV Encapsulation Film Production Value by Basic Chemical Materials (2021-2026) & (USD Million)

Table 58. World Low-Carbon PV Encapsulation Film Production Value by Basic Chemical Materials (2027-2032) & (USD Million)

Table 59. World Low-Carbon PV Encapsulation Film Average Price by Basic Chemical Materials (2021-2026) & (US\$/Sq m)

Table 60. World Low-Carbon PV Encapsulation Film Average Price by Basic Chemical Materials (2027-2032) & (US\$/Sq m)

Table 61. World Low-Carbon PV Encapsulation Film Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World Low-Carbon PV Encapsulation Film Production by Application (2021-2026) & (Sq m)

Table 63. World Low-Carbon PV Encapsulation Film Production by Application (2027-2032) & (Sq m)

Table 64. World Low-Carbon PV Encapsulation Film Production Value by Application (2021-2026) & (USD Million)

Table 65. World Low-Carbon PV Encapsulation Film Production Value by Application (2027-2032) & (USD Million)

Table 66. World Low-Carbon PV Encapsulation Film Average Price by Application (2021-2026) & (US\$/Sq m)

Table 67. World Low-Carbon PV Encapsulation Film Average Price by Application (2027-2032) & (US\$/Sq m)

Table 68. Hangzhou First Applied Material Co., Ltd Basic Information, Manufacturing Base and Competitors

Table 69. Hangzhou First Applied Material Co., Ltd Major Business

Table 70. Hangzhou First Applied Material Co., Ltd Low-Carbon PV Encapsulation Film Product and Services

Table 71. Hangzhou First Applied Material Co., Ltd Low-Carbon PV Encapsulation Film Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. Hangzhou First Applied Material Co., Ltd Recent Developments/Updates

Table 73. Hangzhou First Applied Material Co., Ltd Competitive Strengths & Weaknesses

Table 74. Jiangsu Sveck Photovoltaic Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 75. Jiangsu Sveck Photovoltaic Technology Co., Ltd. Major Business

Table 76. Jiangsu Sveck Photovoltaic Technology Co., Ltd. Low-Carbon PV Encapsulation Film Product and Services

Table 77. Jiangsu Sveck Photovoltaic Technology Co., Ltd. Low-Carbon PV Encapsulation Film Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. Jiangsu Sveck Photovoltaic Technology Co., Ltd. Recent Developments/Updates

Table 79. Jiangsu Sveck Photovoltaic Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 80. Shanghai HIUV New Materials Co., Ltd Basic Information, Manufacturing Base and Competitors

Table 81. Shanghai HIUV New Materials Co., Ltd Major Business

Table 82. Shanghai HIUV New Materials Co., Ltd Low-Carbon PV Encapsulation Film Product and Services

Table 83. Shanghai HIUV New Materials Co., Ltd Low-Carbon PV Encapsulation Film Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Shanghai HIUV New Materials Co., Ltd Recent Developments/Updates

Table 85. Shanghai HIUV New Materials Co., Ltd Competitive Strengths & Weaknesses

Table 86. Suzhou Saintyear Photovoltaic Technology Co., Ltd Basic Information, Manufacturing Base and Competitors

Table 87. Suzhou Saintyear Photovoltaic Technology Co., Ltd Major Business

Table 88. Suzhou Saintyear Photovoltaic Technology Co., Ltd Low-Carbon PV Encapsulation Film Product and Services

Table 89. Suzhou Saintyear Photovoltaic Technology Co., Ltd Low-Carbon PV Encapsulation Film Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. Suzhou Saintyear Photovoltaic Technology Co., Ltd Recent Developments/Updates

Table 91. Suzhou Saintyear Photovoltaic Technology Co., Ltd Competitive Strengths & Weaknesses

Table 92. Changzhou Betterial Film Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 93. Changzhou Betterial Film Technology Co., Ltd. Major Business

Table 94. Changzhou Betterial Film Technology Co., Ltd. Low-Carbon PV Encapsulation Film Product and Services

Table 95. Changzhou Betterial Film Technology Co., Ltd. Low-Carbon PV Encapsulation Film Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 96. Changzhou Betterial Film Technology Co., Ltd. Recent Developments/Updates

Table 97. Changzhou Betterial Film Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 98. Guangzhou Lushan New Materials Co., Ltd Basic Information, Manufacturing Base and Competitors

Table 99. Guangzhou Lushan New Materials Co., Ltd Major Business

Table 100. Guangzhou Lushan New Materials Co., Ltd Low-Carbon PV Encapsulation Film Product and Services

Table 101. Guangzhou Lushan New Materials Co., Ltd Low-Carbon PV Encapsulation Film Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 102. Guangzhou Lushan New Materials Co., Ltd Recent Developments/Updates

Table 103. Guangzhou Lushan New Materials Co., Ltd Competitive Strengths & Weaknesses

Table 104. Mingguan New Materials Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 105. Mingguan New Materials Co., Ltd. Major Business

Table 106. Mingguan New Materials Co., Ltd. Low-Carbon PV Encapsulation Film Product and Services

Table 107. Mingguan New Materials Co., Ltd. Low-Carbon PV Encapsulation Film Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 108. Mingguan New Materials Co., Ltd. Recent Developments/Updates

Table 109. Mingguan New Materials Co., Ltd. Competitive Strengths & Weaknesses

Table 110. Hangzhou Xiangbang Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 111. Hangzhou Xiangbang Technology Co., Ltd. Major Business

Table 112. Hangzhou Xiangbang Technology Co., Ltd. Low-Carbon PV Encapsulation Film Product and Services

Table 113. Hangzhou Xiangbang Technology Co., Ltd. Low-Carbon PV Encapsulation Film Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 114. Hangzhou Xiangbang Technology Co., Ltd. Recent Developments/Updates

Table 115. Hangzhou Xiangbang Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 116. Jiangxi Weike New Material Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 117. Jiangxi Weike New Material Technology Co., Ltd. Major Business

Table 118. Jiangxi Weike New Material Technology Co., Ltd. Low-Carbon PV Encapsulation Film Product and Services

Table 119. Jiangxi Weike New Material Technology Co., Ltd. Low-Carbon PV Encapsulation Film Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 120. Jiangxi Weike New Material Technology Co., Ltd. Recent Developments/Updates

Table 121. Jiangxi Weike New Material Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 122. Suzhou Yisheng Solar Material Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 123. Suzhou Yisheng Solar Material Co., Ltd. Major Business

Table 124. Suzhou Yisheng Solar Material Co., Ltd. Low-Carbon PV Encapsulation Film Product and Services

Table 125. Suzhou Yisheng Solar Material Co., Ltd. Low-Carbon PV Encapsulation Film Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 126. Suzhou Yisheng Solar Material Co., Ltd. Recent Developments/Updates

Table 127. Suzhou Yisheng Solar Material Co., Ltd. Competitive Strengths & Weaknesses

Table 128. Guangdong Baojun New Material Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 129. Guangdong Baojun New Material Technology Co., Ltd. Major Business

Table 130. Guangdong Baojun New Material Technology Co., Ltd. Low-Carbon PV Encapsulation Film Product and Services

Table 131. Guangdong Baojun New Material Technology Co., Ltd. Low-Carbon PV Encapsulation Film Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 132. Guangdong Baojun New Material Technology Co., Ltd. Recent Developments/Updates

Table 133. Guangdong Baojun New Material Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 134. Changshu Tegu New Material Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 135. Changshu Tegu New Material Technology Co., Ltd. Major Business

Table 136. Changshu Tegu New Material Technology Co., Ltd. Low-Carbon PV Encapsulation Film Product and Services

Table 137. Changshu Tegu New Material Technology Co., Ltd. Low-Carbon PV Encapsulation Film Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 138. Changshu Tegu New Material Technology Co., Ltd. Recent Developments/Updates

Table 139. Changshu Tegu New Material Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 140. Global Key Players of Low-Carbon PV Encapsulation Film Upstream (Raw Materials)

Table 141. Global Low-Carbon PV Encapsulation Film Typical Customers

Table 142. Low-Carbon PV Encapsulation Film Typical Distributors



## List Of Figures

### LIST OF FIGURES

Figure 1. Low-Carbon PV Encapsulation Film Picture

Figure 2. World Low-Carbon PV Encapsulation Film Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Low-Carbon PV Encapsulation Film Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Low-Carbon PV Encapsulation Film Production (2021-2032) & (Sq m)

Figure 5. World Low-Carbon PV Encapsulation Film Average Price (2021-2032) & (US\$/Sq m)

Figure 6. World Low-Carbon PV Encapsulation Film Production Value Market Share by Region (2021-2032)

Figure 7. World Low-Carbon PV Encapsulation Film Production Market Share by Region (2021-2032)

Figure 8. North America Low-Carbon PV Encapsulation Film Production (2021-2032) & (Sq m)

Figure 9. Europe Low-Carbon PV Encapsulation Film Production (2021-2032) & (Sq m)

Figure 10. China Low-Carbon PV Encapsulation Film Production (2021-2032) & (Sq m)

Figure 11. Japan Low-Carbon PV Encapsulation Film Production (2021-2032) & (Sq m)

Figure 12. India Low-Carbon PV Encapsulation Film Production (2021-2032) & (Sq m)

Figure 13. Southeast Asia Low-Carbon PV Encapsulation Film Production (2021-2032) & (Sq m)

Figure 14. Low-Carbon PV Encapsulation Film Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Low-Carbon PV Encapsulation Film Consumption (2021-2032) & (Sq m)

Figure 17. World Low-Carbon PV Encapsulation Film Consumption Market Share by Region (2021-2032)

Figure 18. United States Low-Carbon PV Encapsulation Film Consumption (2021-2032) & (Sq m)

Figure 19. China Low-Carbon PV Encapsulation Film Consumption (2021-2032) & (Sq m)

Figure 20. Europe Low-Carbon PV Encapsulation Film Consumption (2021-2032) & (Sq m)

Figure 21. Japan Low-Carbon PV Encapsulation Film Consumption (2021-2032) & (Sq m)

Figure 22. South Korea Low-Carbon PV Encapsulation Film Consumption (2021-2032)

& (Sq m)

Figure 23. ASEAN Low-Carbon PV Encapsulation Film Consumption (2021-2032) & (Sq m)

Figure 24. India Low-Carbon PV Encapsulation Film Consumption (2021-2032) & (Sq m)

Figure 25. Producer Shipments of Low-Carbon PV Encapsulation Film by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Low-Carbon PV Encapsulation Film Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Low-Carbon PV Encapsulation Film Markets in 2025

Figure 28. United States VS China: Low-Carbon PV Encapsulation Film Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Low-Carbon PV Encapsulation Film Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Low-Carbon PV Encapsulation Film Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Low-Carbon PV Encapsulation Film Production Market Share 2025

Figure 32. China Based Manufacturers Low-Carbon PV Encapsulation Film Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Low-Carbon PV Encapsulation Film Production Market Share 2025

Figure 34. World Low-Carbon PV Encapsulation Film Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Low-Carbon PV Encapsulation Film Production Value Market Share by Type in 2025

Figure 36. Bio-based Film

Figure 37. Green Energy Production Film

Figure 38. Process-optimized Low-carbon Film

Figure 39. World Low-Carbon PV Encapsulation Film Production Market Share by Type (2021-2032)

Figure 40. World Low-Carbon PV Encapsulation Film Production Value Market Share by Type (2021-2032)

Figure 41. World Low-Carbon PV Encapsulation Film Average Price by Type (2021-2032) & (US\$/Sq m)

Figure 42. World Low-Carbon PV Encapsulation Film Production Value by Basic Chemical Materials, (USD Million), 2021 & 2025 & 2032

Figure 43. World Low-Carbon PV Encapsulation Film Production Value Market Share by

Basic Chemical Materials in 2025

Figure 44. Low-carbon POE Film

Figure 45. Low-carbon EPE Film

Figure 46. Low-carbon EVA Film

Figure 47. World Low-Carbon PV Encapsulation Film Production Market Share by Basic Chemical Materials (2021-2032)

Figure 48. World Low-Carbon PV Encapsulation Film Production Value Market Share by Basic Chemical Materials (2021-2032)

Figure 49. World Low-Carbon PV Encapsulation Film Average Price by Basic Chemical Materials (2021-2032) & (US\$/Sq m)

Figure 50. World Low-Carbon PV Encapsulation Film Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 51. World Low-Carbon PV Encapsulation Film Production Value Market Share by Application in 2025

Figure 52. Single-glass Module

Figure 53. Double-glass Module

Figure 54. Others

Figure 55. World Low-Carbon PV Encapsulation Film Production Market Share by Application (2021-2032)

Figure 56. World Low-Carbon PV Encapsulation Film Production Value Market Share by Application (2021-2032)

Figure 57. World Low-Carbon PV Encapsulation Film Average Price by Application (2021-2032) & (US\$/Sq m)

Figure 58. Low-Carbon PV Encapsulation Film Industry Chain

Figure 59. Low-Carbon PV Encapsulation Film Procurement Model

Figure 60. Low-Carbon PV Encapsulation Film Sales Model

Figure 61. Low-Carbon PV Encapsulation Film Sales Channels, Direct Sales, and Distribution

Figure 62. Methodology

Figure 63. Research Process and Data Source

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