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Building Integrated Photovoltaics Facade Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Technology (Crystalline Silicon, Thin Film, Others), By Application (Roofs, Walls, Glass, Facade, Others), By End Use (Residential, Commercial, Industrial), By Region, and By Competition, 2018-2028

https://marketpublishers.com/r/BFC66020CB21EN.html
Date: November 2023
Pages: 180
Price: US$ 4,900.00 (Single User License)
ID: BFC66020CB21EN

Abstracts

The Global Building Integrated Photovoltaics (BIPV) Facade Market is witnessing robust growth and transformation as sustainable building practices gain momentum worldwide. BIPV facades, which seamlessly integrate solar panels into building exteriors, have become a pivotal component of modern architectural design and the renewable energy landscape. The market is characterized by several key factors driving its expansion.

Firstly, the growing global focus on sustainability and renewable energy sources is propelling BIPV facades into the mainstream. Governments, businesses, and individuals are increasingly committed to reducing carbon footprints and energy consumption, making BIPV facades an attractive solution to generate clean and on-site electricity.

Architectural integration and aesthetic appeal are crucial aspects that set BIPV facades apart. These solutions offer design flexibility, enabling architects to incorporate solar panels into buildings without compromising visual aesthetics. BIPV facades enhance building exteriors while reducing energy costs, making them a compelling choice for commercial, residential, and industrial applications.

Moreover, regulatory support and incentive programs worldwide are encouraging the

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adoption of BIPV technology. Stringent energy efficiency regulations and green building certifications require or reward the integration of renewable energy sources, further boosting market growth.

The commercial sector, with its high energy demands and a strong commitment to sustainability, has emerged as a dominant end-user, driving substantial market expansion. Iconic projects and landmark buildings that showcase the potential of BIPV technology serve as powerful examples and inspire further adoption.

As technological advancements continue to improve the efficiency and affordability of BIPV systems, the market's growth trajectory remains promising. BIPV facades are set to play a pivotal role in the construction industry's journey toward more sustainable and energy-efficient buildings, contributing significantly to the global renewable energy landscape.

Key Market Drivers

Increasing Focus on Sustainability and Renewable Energy:

The global push for sustainability and the reduction of carbon emissions is a major driver of the BIPV Facade market. As governments, businesses, and individuals seek to mitigate the impact of climate change, BIPV systems offer an attractive solution by enabling buildings to generate clean and renewable energy. This alignment with sustainability goals is driving the adoption of BIPV facades in both new construction and retrofit projects.

Energy Efficiency and Cost Savings:

Energy efficiency is a critical driver of BIPV adoption. BIPV facades not only generate electricity but also contribute to the overall energy efficiency of buildings. By harnessing solar energy, BIPV systems reduce a building's reliance on traditional grid electricity, leading to significant cost savings over the long term. This financial incentive encourages building owners and developers to invest in BIPV solutions, especially in regions with high energy costs.

Advances in BIPV Technology:

Advancements in BIPV technology are driving market growth. Solar panels integrated into building facades are becoming more efficient, durable, and aesthetically pleasing.

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Transparent solar cells, thin-film technologies, and innovative designs are expanding the possibilities for BIPV integration. These technological improvements enhance the attractiveness and viability of BIPV facades for architects, builders, and property owners, boosting market demand.

Government Incentives and Supportive Policies:

Government incentives and supportive policies play a pivotal role in accelerating the adoption of BIPV facades. Many countries offer financial incentives, tax credits, and subsidies to promote renewable energy installations, including BIPV systems. Additionally, building codes and regulations are evolving to incorporate renewable energy standards and requirements, creating a favorable regulatory environment for BIPV adoption. These incentives and policies reduce the financial barriers associated with BIPV installations, spurring market growth.

Growing Demand for Green Buildings:

The increasing demand for green and sustainable buildings is a significant driver of the BIPV Facade market. Green building certifications, such as LEED (Leadership in Energy and Environmental Design) and BREEAM (Building Research Establishment Environmental Assessment Method), encourage the use of renewable energy sources like BIPV. Building owners and developers are recognizing the value of sustainability certifications in terms of higher property value, reduced operating costs, and enhanced marketability. This demand for green building features, including BIPV facades, is driving market expansion.

Energy Independence and Resilience:

BIPV systems offer building owners a degree of energy independence and resilience. By generating on-site electricity, buildings with BIPV facades can reduce their reliance on external power sources, particularly during grid outages or emergencies. This resilience factor is particularly appealing in regions prone to extreme weather events and grid disruptions, driving the adoption of BIPV solutions.

Key Market Challenges

High Initial Costs and Return on Investment (ROI):

One of the primary challenges in the BIPV Facade market is the high initial costs

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associated with design, materials, and installation. BIPV systems often require specialized components and skilled labor, which can drive up project expenses. While BIPV offers long-term energy savings, the upfront investment can be a barrier for many building owners and developers. Calculating a compelling return on investment (ROI) is essential to overcome this challenge and convince stakeholders of the economic benefits of BIPV systems.

Aesthetics and Architectural Integration:

Integrating solar panels into building facades without compromising aesthetics remains a significant challenge. Building owners and architects seek BIPV solutions that blend seamlessly with the overall design, but achieving this can be complex. Design limitations, such as panel size, shape, and color, can constrain creativity. Balancing architectural appeal with energy generation efficiency requires innovative design approaches and customized solutions, which can increase project complexity and costs.

Technical and Performance Issues:

BIPV systems must meet rigorous technical and performance standards to ensure energy generation and durability. Technical challenges include optimizing panel orientation and tilt angles to maximize energy yield, addressing shading issues caused by nearby buildings or structures, and maintaining panel efficiency over time. Additionally, BIPV systems must withstand various environmental factors, including extreme temperatures, moisture, and UV exposure. Ensuring the long-term reliability and performance of BIPV facades is an ongoing challenge.

Limited Product Standardization:

The lack of standardized products and installation methods is a challenge in the BIPV Facade market. Unlike traditional solar panels, BIPV systems are often customized for each project, making it difficult to establish uniform industry standards. This lack of standardization can lead to inconsistencies in quality, performance, and safety across different BIPV projects. Manufacturers, industry organizations, and regulatory bodies must collaborate to develop standardized guidelines and certifications to improve the reliability and compatibility of BIPV components.

Regulatory and Permitting Hurdles:

Navigating complex regulatory and permitting processes can pose significant

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challenges for BIPV projects. Building codes, zoning regulations, and permit requirements can vary widely by region and jurisdiction. Ensuring compliance with these regulations and obtaining necessary permits can be time-consuming and costly. Streamlining the permitting process and harmonizing regulations for BIPV installations could facilitate market growth and make BIPV more accessible to a broader range of projects.

Key Market Trends

Growing Emphasis on Sustainable Construction:

One of the prominent trends in the global BIPV Facade market is the increasing emphasis on sustainable construction practices. As sustainability becomes a top priority in the building industry, BIPV facades are gaining traction as a viable solution to reduce a building's carbon footprint. Architects, developers, and building owners are incorporating BIPV facades to meet green building standards and achieve energy efficiency goals. This trend aligns with global efforts to combat climate change and promote environmentally responsible building practices.

Integration of Advanced Technologies:

The BIPV Facade market is witnessing the integration of advanced technologies to enhance energy generation and architectural aesthetics. Solar panels are becoming more efficient, durable, and aesthetically pleasing, allowing architects and designers to seamlessly incorporate them into building designs. Additionally, technologies like transparent solar cells and building-integrated energy storage systems are gaining traction, enabling buildings to generate and store energy efficiently while maintaining a visually appealing facade.

Innovative Design and Customization:

Architectural innovation and customization are driving the adoption of BIPV facades. Designers are exploring creative ways to integrate solar panels into building exteriors, transforming them into functional and visually appealing elements. Customized solutions cater to the unique requirements of each project, enabling architects to blend solar energy generation with architectural aesthetics. This trend fosters a shift from traditional solar installations to more integrated and aesthetically pleasing BIPV solutions.

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Government Incentives and Policies:

Government incentives and supportive policies play a crucial role in driving the adoption of BIPV facades. Many countries offer financial incentives, tax credits, and subsidies to encourage the installation of renewable energy systems, including BIPV. Additionally, building codes and regulations are evolving to incorporate renewable energy standards, further promoting the use of BIPV facades in construction projects. These incentives and policies contribute to the market's growth by reducing the financial barriers associated with BIPV installations.

Rising Demand in Commercial and Residential Sectors:

The commercial and residential sectors are experiencing a surge in demand for BIPV facades. Commercial buildings, including offices, retail spaces, and industrial facilities, are increasingly incorporating BIPV facades to reduce energy costs and enhance sustainability. In the residential sector, homeowners are recognizing the long-term benefits of BIPV systems in terms of energy savings and increased property value. As awareness grows and BIPV technology becomes more accessible, both sectors are expected to contribute significantly to the market's expansion.

Segmental Insights

Technology Insights

Crystalline Silicon segment dominates in the global building integrated photovoltaics facade market in 2022. Crystalline silicon solar panels are renowned for their high energy conversion efficiency. They can convert a significant portion of sunlight into electricity, ensuring optimal performance even in varying light conditions. This efficiency is particularly crucial for BIPV facades, as they are often vertically oriented and may receive indirect sunlight.

Crystalline silicon technology has a long history of development and commercialization. It is a well-established and trusted technology in the solar industry. This maturity has led to the production of high-quality, reliable crystalline silicon solar panels, which are essential for BIPV applications that require longevity and durability.

Crystalline silicon solar panels can be integrated seamlessly into building facades, offering design flexibility. They can be customized in terms of size, shape, and color to match architectural aesthetics, enabling architects to incorporate them into various

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building designs without compromising visual appeal. This aesthetic versatility is a significant advantage in the BIPV market.

Crystalline silicon solar panels come in two main forms: monocrystalline and polycrystalline. Monocrystalline panels are known for their higher efficiency, making them suitable for situations with limited space. Polycrystalline panels, on the other hand, offer a cost-effective solution with slightly lower efficiency. This versatility allows builders and designers to select the most appropriate crystalline silicon panels based on project requirements.

Application Insights

Facade segment dominates in the global building integrated photovoltaics facade market in 2022. The Fa?ade segment is dominant because it offers a seamless and visually pleasing integration of solar panels into the building's exterior design. BIPV facades blend with the architectural elements, allowing architects and designers to incorporate them as an integral part of the building's aesthetics. This capability to enhance the visual appeal of structures without compromising energy generation efficiency is a significant driver of the Fa?ade segment's dominance.

Fa?ades typically receive a significant amount of direct sunlight exposure throughout the day, making them an ideal location for solar panels. By installing BIPV systems on building facades, owners and developers can harness solar energy efficiently. This maximization of solar exposure ensures that BIPV facades generate substantial electricity, contributing significantly to the building's energy needs.

BIPV facades serve a dual purpose by generating electricity while also providing shading and thermal insulation. This additional functionality enhances the energy efficiency of buildings by reducing heat gain during hot weather and retaining warmth in colder climates. The shading effect reduces the reliance on air conditioning, further increasing the energy savings associated with BIPV facades.

Fa?ades encompass a wide range of design possibilities, from vertical walls to horizontal surfaces. This versatility allows BIPV facades to adapt to diverse architectural styles and configurations. The ability to customize the size, shape, and arrangement of solar panels on facades enables architects to create visually stunning and energy-efficient building designs, a feature that sets the Fa?ade segment apart.

Regional Insights

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Europe dominates the Global Building Integrated Photovoltaics Facade Market in 2022. European countries have been at the forefront of the global sustainability movement. Governments across Europe have set ambitious renewable energy targets and carbon reduction goals, making BIPV facades an integral part of their sustainable building strategies. This commitment to sustainability has created a conducive environment for the growth of the BIPV market.

Europe has some of the most stringent energy efficiency regulations in the world. Building codes and standards, such as the European Energy Performance of Buildings Directive (EPBD) and nearly zero-energy building (nZEB) requirements, mandate the integration of renewable energy sources like BIPV into building designs. Compliance with these regulations has driven the adoption of BIPV facades across the continent.

Many European countries offer attractive incentive programs, subsidies, and feed-in tariffs to promote the installation of BIPV systems. These financial incentives significantly reduce the upfront costs for building owners and developers, making BIPV facades an economically viable choice. Government support has played a pivotal role in the widespread adoption of BIPV technology.

Europe has been a hub for technological innovation in the BIPV sector. Research and development efforts, as well as collaborations between academia and industry, have led to advancements in BIPV materials and design. European companies have been pioneers in developing aesthetically pleasing BIPV solutions that seamlessly blend with architectural designs, enhancing their market competitiveness.

Key Market Players

Hanergy Mobile Energy Holding Group Limited

Onyx Solar

Solaria Corporation

AGC Inc.

Heliatek GmbH

Ertex Solar

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Glas Tr?sch Group

Unidomo

Belectric OPV GmbH

SolarWindow Technologies

Report Scope:

In this report, the Global Building Integrated Photovoltaics Facade Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Building Integrated Photovoltaics Facade Market, By Technology:

Crystalline Silicon

Thin Film

Others

Building Integrated Photovoltaics Facade Market, By Application:

Roofs

Walls

Glass

Facade

Others

Building Integrated Photovoltaics Facade Market, By End Use:

Residential

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Commercial

Industrial

Building Integrated Photovoltaics Facade Market, By Region:

North America

United States

Canada

Mexico

Europe

Germany

France

United Kingdom

Italy

Spain

South America

Brazil

Argentina

Colombia

Asia-Pacific

China

India

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Japan

South Korea

Australia

Middle East & Africa

Saudi Arabia

UAE

South Africa

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Building Integrated Photovoltaics Facade Market.

Available Customizations:

Global Building Integrated Photovoltaics Facade Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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Contents

1. PRODUCT OVERVIEW

1.1. Market Definition
1.2. Scope of the Market
  1.2.1. Markets Covered
  1.2.2. Years Considered for Study
  1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

2.1. Baseline Methodology
2.2. Key Industry Partners
2.3. Major Association and Secondary Sources
2.4. Forecasting Methodology
2.5. Data Triangulation & Validation
2.6. Assumptions and Limitations

3. EXECUTIVE SUMMARY

4. IMPACT OF COVID-19 ON GLOBAL BUILDING INTEGRATED PHOTOVOLTAICS FACADE MARKET

5. VOICE OF CUSTOMER

6. GLOBAL BUILDING INTEGRATED PHOTOVOLTAICS FACADE MARKET OVERVIEW

7. GLOBAL BUILDING INTEGRATED PHOTOVOLTAICS FACADE MARKET OUTLOOK

7.1. Market Size & Forecast
  7.1.1. By Value
7.2. Market Share & Forecast

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7.2.1. By Technology (Crystalline Silicon, Thin Film, Others)
7.2.2. By Application (Roofs, Walls, Glass, Facade, Others)
7.2.3. By End Use (Residential, Commercial, Industrial)
7.2.4. By Region (North America, Europe, South America, Middle East & Africa, Asia Pacific)
7.3. By Company (2022)
7.4. Market Map

8. NORTH AMERICA BUILDING INTEGRATED PHOTOVOLTAICS FACADE MARKET OUTLOOK

8.1. Market Size & Forecast
8.1.1. By Value
8.2. Market Share & Forecast
8.2.1. By Technology
8.2.2. By Application
8.2.3. By End Use
8.2.4. By Country
8.2.4.1. United States Building Integrated Photovoltaics Facade Market Outlook
8.2.4.1.1. Market Size & Forecast
8.2.4.1.1.1. By Value
8.2.4.1.2. Market Share & Forecast
8.2.4.1.2.1. By Technology
8.2.4.1.2.2. By Application
8.2.4.1.2.3. By End Use
8.2.4.2. Canada Building Integrated Photovoltaics Facade Market Outlook
8.2.4.2.1. Market Size & Forecast
8.2.4.2.1.1. By Value
8.2.4.2.2. Market Share & Forecast
8.2.4.2.2.1. By Technology
8.2.4.2.2.2. By Application
8.2.4.2.2.3. By End Use
8.2.4.3. Mexico Building Integrated Photovoltaics Facade Market Outlook
8.2.4.3.1. Market Size & Forecast
8.2.4.3.1.1. By Value
8.2.4.3.2. Market Share & Forecast
8.2.4.3.2.1. By Technology
8.2.4.3.2.2. By Application
8.2.4.3.2.3. By End Use

+44 20 8123 2220
info@marketpublishers.com

9. EUROPE BUILDING INTEGRATED PHOTOVOLTAICS FACADE MARKET OUTLOOK

9.1. Market Size & Forecast
9.1.1. By Value
9.2. Market Share & Forecast
9.2.1. By Technology
9.2.2. By Application
9.2.3. By End Use
9.2.4. By Country
9.2.4.1. Germany Building Integrated Photovoltaics Facade Market Outlook
9.2.4.1.1. Market Size & Forecast
9.2.4.1.1.1. By Value
9.2.4.1.2. Market Share & Forecast
9.2.4.1.2.1. By Technology
9.2.4.1.2.2. By Application
9.2.4.1.2.3. By End Use
9.2.4.2. France Building Integrated Photovoltaics Facade Market Outlook
9.2.4.2.1. Market Size & Forecast
9.2.4.2.1.1. By Value
9.2.4.2.2. Market Share & Forecast
9.2.4.2.2.1. By Technology
9.2.4.2.2.2. By Application
9.2.4.2.2.3. By End Use
9.2.4.3. United Kingdom Building Integrated Photovoltaics Facade Market Outlook
9.2.4.3.1. Market Size & Forecast
9.2.4.3.1.1. By Value
9.2.4.3.2. Market Share & Forecast
9.2.4.3.2.1. By Technology
9.2.4.3.2.2. By Application
9.2.4.3.2.3. By End Use
9.2.4.4. Italy Building Integrated Photovoltaics Facade Market Outlook
9.2.4.4.1. Market Size & Forecast
9.2.4.4.1.1. By Value
9.2.4.4.2. Market Share & Forecast
9.2.4.4.2.1. By Technology
9.2.4.4.2.2. By Application
9.2.4.4.2.3. By End Use

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9.2.4.5. Spain Building Integrated Photovoltaics Facade Market Outlook
9.2.4.5.1. Market Size & Forecast
9.2.4.5.1.1. By Value
9.2.4.5.2. Market Share & Forecast
9.2.4.5.2.1. By Technology
9.2.4.5.2.2. By Application
9.2.4.5.2.3. By End Use

10. SOUTH AMERICA BUILDING INTEGRATED PHOTOVOLTAICS FACADE MARKET OUTLOOK

10.1. Market Size & Forecast
10.1.1. By Value
10.2. Market Share & Forecast
10.2.1. By Technology
10.2.2. By Application
10.2.3. By End Use
10.2.4. By Country
10.2.4.1. Brazil Building Integrated Photovoltaics Facade Market Outlook
10.2.4.1.1. Market Size & Forecast
10.2.4.1.1.1. By Value
10.2.4.1.2. Market Share & Forecast
10.2.4.1.2.1. By Technology
10.2.4.1.2.2. By Application
10.2.4.1.2.3. By End Use
10.2.4.2. Colombia Building Integrated Photovoltaics Facade Market Outlook
10.2.4.2.1. Market Size & Forecast
10.2.4.2.1.1. By Value
10.2.4.2.2. Market Share & Forecast
10.2.4.2.2.1. By Technology
10.2.4.2.2.2. By Application
10.2.4.2.2.3. By End Use
10.2.4.3. Argentina Building Integrated Photovoltaics Facade Market Outlook
10.2.4.3.1. Market Size & Forecast
10.2.4.3.1.1. By Value
10.2.4.3.2. Market Share & Forecast
10.2.4.3.2.1. By Technology
10.2.4.3.2.2. By Application
10.2.4.3.2.3. By End Use

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11. MIDDLE EAST & AFRICA BUILDING INTEGRATED PHOTOVOLTAICS FACADE MARKET OUTLOOK

11.1. Market Size & Forecast
11.1.1. By Value
11.2. Market Share & Forecast
11.2.1. By Technology
11.2.2. By Application
11.2.3. By End Use
11.2.4. By Country
11.2.4.1. Saudi Arabia Building Integrated Photovoltaics Facade Market Outlook
11.2.4.1.1. Market Size & Forecast
11.2.4.1.1.1. By Value
11.2.4.1.2. Market Share & Forecast
11.2.4.1.2.1. By Technology
11.2.4.1.2.2. By Application
11.2.4.1.2.3. By End Use
11.2.4.2. UAE Building Integrated Photovoltaics Facade Market Outlook
11.2.4.2.1. Market Size & Forecast
11.2.4.2.1.1. By Value
11.2.4.2.2. Market Share & Forecast
11.2.4.2.2.1. By Technology
11.2.4.2.2.2. By Application
11.2.4.2.2.3. By End Use
11.2.4.3. South Africa Building Integrated Photovoltaics Facade Market Outlook
11.2.4.3.1. Market Size & Forecast
11.2.4.3.1.1. By Value
11.2.4.3.2. Market Share & Forecast
11.2.4.3.2.1. By Technology
11.2.4.3.2.2. By Application
11.2.4.3.2.3. By End Use

12. ASIA PACIFIC BUILDING INTEGRATED PHOTOVOLTAICS FACADE MARKET OUTLOOK

12.1. Market Size & Forecast
12.1.1. By Value
12.2. Market Size & Forecast

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12.2.1. By Technology
12.2.2. By Application
12.2.3. By End Use
12.2.4. By Country
12.2.4.1. China Building Integrated Photovoltaics Facade Market Outlook
12.2.4.1.1. Market Size & Forecast
12.2.4.1.1.1. By Value
12.2.4.1.2. Market Share & Forecast
12.2.4.1.2.1. By Technology
12.2.4.1.2.2. By Application
12.2.4.1.2.3. By End Use
12.2.4.2. India Building Integrated Photovoltaics Facade Market Outlook
12.2.4.2.1. Market Size & Forecast
12.2.4.2.1.1. By Value
12.2.4.2.2. Market Share & Forecast
12.2.4.2.2.1. By Technology
12.2.4.2.2.2. By Application
12.2.4.2.2.3. By End Use
12.2.4.3. Japan Building Integrated Photovoltaics Facade Market Outlook
12.2.4.3.1. Market Size & Forecast
12.2.4.3.1.1. By Value
12.2.4.3.2. Market Share & Forecast
12.2.4.3.2.1. By Technology
12.2.4.3.2.2. By Application
12.2.4.3.2.3. By End Use
12.2.4.4. South Korea Building Integrated Photovoltaics Facade Market Outlook
12.2.4.4.1. Market Size & Forecast
12.2.4.4.1.1. By Value
12.2.4.4.2. Market Share & Forecast
12.2.4.4.2.1. By Technology
12.2.4.4.2.2. By Application
12.2.4.4.2.3. By End Use
12.2.4.5. Australia Building Integrated Photovoltaics Facade Market Outlook
12.2.4.5.1. Market Size & Forecast
12.2.4.5.1.1. By Value
12.2.4.5.2. Market Share & Forecast
12.2.4.5.2.1. By Technology
12.2.4.5.2.2. By Application
12.2.4.5.2.3. By End Use

+44 20 8123 2220
info@marketpublishers.com

13. MARKET DYNAMICS

13.1. Drivers
13.2. Challenges

14. MARKET TRENDS AND DEVELOPMENTS

15. COMPANY PROFILES

15.1. Hanergy Mobile Energy Holding Group Limited
  15.1.1. Business Overview
  15.1.2. Key Revenue and Financials
  15.1.3. Recent Developments
  15.1.4. Key Personnel
  15.1.5. Key Product/Services Offered
15.2. Onyx Solar
  15.2.1. Business Overview
  15.2.2. Key Revenue and Financials
  15.2.3. Recent Developments
  15.2.4. Key Personnel
  15.2.5. Key Product/Services Offered
15.3. Solaria Corporation
  15.3.1. Business Overview
  15.3.2. Key Revenue and Financials
  15.3.3. Recent Developments
  15.3.4. Key Personnel
  15.3.5. Key Product/Services Offered
15.4. AGC Inc.
  15.4.1. Business Overview
  15.4.2. Key Revenue and Financials
  15.4.3. Recent Developments
  15.4.4. Key Personnel
  15.4.5. Key Product/Services Offered
15.5. Heliatek GmbH
  15.5.1. Business Overview
  15.5.2. Key Revenue and Financials
  15.5.3. Recent Developments

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info@marketpublishers.com

15.5.4. Key Personnel
15.5.5. Key Product/Services Offered
15.6. Ertex Solar
15.6.1. Business Overview
15.6.2. Key Revenue and Financials
15.6.3. Recent Developments
15.6.4. Key Personnel
15.6.5. Key Product/Services Offered
15.7. Glas Tr?sch Group
15.7.1. Business Overview
15.7.2. Key Revenue and Financials
15.7.3. Recent Developments
15.7.4. Key Personnel
15.7.5. Key Product/Services Offered
15.8. Unidomo
15.8.1. Business Overview
15.8.2. Key Revenue and Financials
15.8.3. Recent Developments
15.8.4. Key Personnel
15.8.5. Key Product/Services Offered
15.9. Belectric OPV GmbH
15.9.1. Business Overview
15.9.2. Key Revenue and Financials
15.9.3. Recent Developments
15.9.4. Key Personnel
15.9.5. Key Product/Services Offered
15.10. SolarWindow Technologies
15.10.1. Business Overview
15.10.2. Key Revenue and Financials
15.10.3. Recent Developments
15.10.4. Key Personnel
15.10.5. Key Product/Services Offered

16. STRATEGIC RECOMMENDATIONS

17. ABOUT US & DISCLAIMER

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