

Global Bio-based Advanced Phase Change Materials (PCM) Market Research Report 2025(Status and Outlook)

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Abstracts

Report Overview

Bio-based Advanced Phase Change Materials (PCM) are a type of material that can store and release large amounts of energy during the process of melting and solidifying. These materials are derived from renewable resources such as plants and have gained significant attention due to their environmentally friendly nature and potential for reducing carbon footprint. Bio-based Advanced PCMs have a wide range of applications, including thermal energy storage in buildings, textiles, electronics, and transportation, making them a versatile and sustainable solution for various industries.

The market for Bio-based Advanced Phase Change Materials is experiencing steady growth driven by increasing awareness of environmental issues and the growing demand for sustainable solutions across industries. The market trend shows a shift towards eco-friendly alternatives in response to stringent regulations on carbon emissions and energy efficiency standards. In addition, the rising focus on energy conservation and the need for efficient thermal management systems are driving the adoption of Bio-based Advanced PCMs in various applications. With ongoing research and development efforts to enhance the performance and cost-effectiveness of these materials, the market is expected to witness further growth in the coming years.

This report provides a deep insight into the global Bio-based Advanced Phase Change Materials (PCM) market covering all its essential aspects. This ranges from a macro overview of the market to micro details of the market size, competitive landscape, development trend, niche market, key market drivers and challenges, SWOT analysis, value chain analysis, etc.

The analysis helps the reader to shape the competition within the industries and strategies for the competitive environment to enhance the potential profit. Furthermore, it provides a simple framework for evaluating and accessing the position of the business organization. The report structure also focuses on the competitive landscape of the Global Bio-based Advanced Phase Change Materials (PCM) Market, this report introduces in detail the market share, market performance, product situation, operation situation, etc. of the main players, which helps the readers in the industry to identify the main competitors and deeply understand the competition pattern of the market.

In a word, this report is a must-read for industry players, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the Bio-based Advanced Phase Change Materials (PCM) market in any manner.

Global Bio-based Advanced Phase Change Materials (PCM) Market: Market Segmentation Analysis

The research report includes specific segments by region (country), manufacturers, Type, and Application. Market segmentation creates subsets of a market based on product type, end-user or application, Geographic, and other factors. By understanding the market segments, the decision-maker can leverage this targeting in the product, sales, and marketing strategies. Market segments can power your product development cycles by informing how you create product offerings for different segments.

Key Company

Henkel AG & Company

Honeywell

Croda International

Sasol Germany GmbH

Microtek Laboratories Inc

DuPont and Dow

Parker

Laird PLC

Phase Change Energy Solutions

Cryopak

SGL Carbon

Rubitherm Technologies GmbH

Cold Chain Technologies

Inc

PLUSS Advanced Technologies

Outlast Technologies

Market Segmentation (by Type)

Metallic Material

Non-metallic Material

Market Segmentation (by Application)

Building & Construction

Refrigeration

Consumer Goods

Other

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Bio-based Advanced Phase Change Materials (PCM) Market

Overview of the regional outlook of the Bio-based Advanced Phase Change Materials (PCM) Market:

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value (USD Billion) data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Bio-based Advanced Phase Change Materials (PCM) Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 10 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 11 provides a quantitative analysis of the market size and development potential of each market segment (product type and application) in the next five years.

Chapter 12 is the main points and conclusions of the report.

Contents

Table of Contents

1 Research Methodology and Statistical Scope

1.1 Market Definition and Statistical Scope of Bio-based Advanced Phase Change Materials (PCM)

1.2 Key Market Segments

1.2.1 Bio-based Advanced Phase Change Materials (PCM) Segment by Type

1.2.2 Bio-based Advanced Phase Change Materials (PCM) Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 Bio-based Advanced Phase Change Materials (PCM) Market Overview

2.1 Global Market Overview

2.1.1 Global Bio-based Advanced Phase Change Materials (PCM) Market Size (M USD) Estimates and Forecasts (2020-2033)

2.1.2 Global Bio-based Advanced Phase Change Materials (PCM) Sales Estimates and Forecasts (2020-2033)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 Bio-based Advanced Phase Change Materials (PCM) Market Competitive Landscape

3.1 Company Assessment Quadrant

3.2 Global Bio-based Advanced Phase Change Materials (PCM) Product Life Cycle

3.3 Global Bio-based Advanced Phase Change Materials (PCM) Sales by Manufacturers (2020-2025)

3.4 Global Bio-based Advanced Phase Change Materials (PCM) Revenue Market Share by Manufacturers (2020-2025)

3.5 Bio-based Advanced Phase Change Materials (PCM) Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global Bio-based Advanced Phase Change Materials (PCM) Average Price by Manufacturers (2020-2025)

3.7 Manufacturers Bio-based Advanced Phase Change Materials (PCM) Manufacturing Sites, Area Served, Product Type

3.8 Bio-based Advanced Phase Change Materials (PCM) Market Competitive Situation and Trends

3.8.1 Bio-based Advanced Phase Change Materials (PCM) Market Concentration Rate

3.8.2 Global 5 and 10 Largest Bio-based Advanced Phase Change Materials (PCM) Players Market Share by Revenue	
3.8.3 Mergers & Acquisitions, Expansion	
4 Bio-based Advanced Phase Change Materials (PCM) Industry Chain Analysis	
4.1 Bio-based Advanced Phase Change Materials (PCM) Industry Chain Analysis	
4.2 Market Overview of Key Raw Materials	
4.3 Midstream Market Analysis	
4.4 Downstream Customer Analysis	
5 The Development and Dynamics of Bio-based Advanced Phase Change Materials (PCM) Market	
5.1 Key Development Trends	
5.2 Driving Factors	
5.3 Market Challenges	
5.4 Industry News	
5.4.1 New Product Developments	
5.4.2 Mergers & Acquisitions	
5.4.3 Expansions	
5.4.4 Collaboration/Supply Contracts	
5.5 PEST Analysis	
5.5.1 Industry Policies Analysis	
5.5.2 Economic Environment Analysis	
5.5.3 Social Environment Analysis	
5.5.4 Technological Environment Analysis	
5.6 Global Bio-based Advanced Phase Change Materials (PCM) Market Porter's Five Forces Analysis	
5.6.1 Global Trade Frictions	
5.6.2 Global Trade Frictions and Their Impacts to Bio-based Advanced Phase Change Materials (PCM) Market	
5.7 ESG Ratings of Leading Companies	
6 Bio-based Advanced Phase Change Materials (PCM) Market Segmentation by Type	
6.1 Evaluation Matrix of Segment Market Development Potential (Type)	
6.2 Global Bio-based Advanced Phase Change Materials (PCM) Sales Market Share by Type (2020-2025)	
6.3 Global Bio-based Advanced Phase Change Materials (PCM) Market Size Market Share by Type (2020-2025)	
6.4 Global Bio-based Advanced Phase Change Materials (PCM) Price by Type (2020-2025)	
7 Bio-based Advanced Phase Change Materials (PCM) Market Segmentation by Application	

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Bio-based Advanced Phase Change Materials (PCM) Market Sales by Application (2020-2025)
- 7.3 Global Bio-based Advanced Phase Change Materials (PCM) Market Size (M USD) by Application (2020-2025)
- 7.4 Global Bio-based Advanced Phase Change Materials (PCM) Sales Growth Rate by Application (2020-2025)
- 8 Bio-based Advanced Phase Change Materials (PCM) Market Sales by Region
 - 8.1 Global Bio-based Advanced Phase Change Materials (PCM) Sales by Region
 - 8.1.1 Global Bio-based Advanced Phase Change Materials (PCM) Sales by Region
 - 8.1.2 Global Bio-based Advanced Phase Change Materials (PCM) Sales Market Share by Region
 - 8.2 Global Bio-based Advanced Phase Change Materials (PCM) Market Size by Region
 - 8.2.1 Global Bio-based Advanced Phase Change Materials (PCM) Market Size by Region
 - 8.2.2 Global Bio-based Advanced Phase Change Materials (PCM) Market Size Market Share by Region
 - 8.3 North America
 - 8.3.1 North America Bio-based Advanced Phase Change Materials (PCM) Sales by Country
 - 8.3.2 North America Bio-based Advanced Phase Change Materials (PCM) Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview
 - 8.4 Europe
 - 8.4.1 Europe Bio-based Advanced Phase Change Materials (PCM) Sales by Country
 - 8.4.2 Europe Bio-based Advanced Phase Change Materials (PCM) Market Size by Country
 - 8.4.3 Germany Market Overview
 - 8.4.4 France Market Overview
 - 8.4.5 U.K. Market Overview
 - 8.4.6 Italy Market Overview
 - 8.4.7 Spain Market Overview
 - 8.5 Asia Pacific
 - 8.5.1 Asia Pacific Bio-based Advanced Phase Change Materials (PCM) Sales by Region
 - 8.5.2 Asia Pacific Bio-based Advanced Phase Change Materials (PCM) Market Size by Region

- 8.5.3 China Market Overview
- 8.5.4 Japan Market Overview
- 8.5.5 South Korea Market Overview
- 8.5.6 India Market Overview
- 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America Bio-based Advanced Phase Change Materials (PCM) Sales by Country
 - 8.6.2 South America Bio-based Advanced Phase Change Materials (PCM) Market Size by Country
 - 8.6.3 Brazil Market Overview
 - 8.6.4 Argentina Market Overview
 - 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
 - 8.7.1 Middle East and Africa Bio-based Advanced Phase Change Materials (PCM) Sales by Region
 - 8.7.2 Middle East and Africa Bio-based Advanced Phase Change Materials (PCM) Market Size by Region
 - 8.7.3 Saudi Arabia Market Overview
 - 8.7.4 UAE Market Overview
 - 8.7.5 Egypt Market Overview
 - 8.7.6 Nigeria Market Overview
 - 8.7.7 South Africa Market Overview
- 9 Bio-based Advanced Phase Change Materials (PCM) Market Production by Region
 - 9.1 Global Production of Bio-based Advanced Phase Change Materials (PCM) by Region(2020-2025)
 - 9.2 Global Bio-based Advanced Phase Change Materials (PCM) Revenue Market Share by Region (2020-2025)
 - 9.3 Global Bio-based Advanced Phase Change Materials (PCM) Production, Revenue, Price and Gross Margin (2020-2025)
 - 9.4 North America Bio-based Advanced Phase Change Materials (PCM) Production
 - 9.4.1 North America Bio-based Advanced Phase Change Materials (PCM) Production Growth Rate (2020-2025)
 - 9.4.2 North America Bio-based Advanced Phase Change Materials (PCM) Production, Revenue, Price and Gross Margin (2020-2025)
 - 9.5 Europe Bio-based Advanced Phase Change Materials (PCM) Production
 - 9.5.1 Europe Bio-based Advanced Phase Change Materials (PCM) Production Growth Rate (2020-2025)
 - 9.5.2 Europe Bio-based Advanced Phase Change Materials (PCM) Production,

Revenue, Price and Gross Margin (2020-2025)

9.6 Japan Bio-based Advanced Phase Change Materials (PCM) Production (2020-2025)

9.6.1 Japan Bio-based Advanced Phase Change Materials (PCM) Production Growth Rate (2020-2025)

9.6.2 Japan Bio-based Advanced Phase Change Materials (PCM) Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Bio-based Advanced Phase Change Materials (PCM) Production (2020-2025)

9.7.1 China Bio-based Advanced Phase Change Materials (PCM) Production Growth Rate (2020-2025)

9.7.2 China Bio-based Advanced Phase Change Materials (PCM) Production, Revenue, Price and Gross Margin (2020-2025)

10 Key Companies Profile

10.1 Henkel AG and Company

10.1.1 Henkel AG and Company Basic Information

10.1.2 Henkel AG and Company Bio-based Advanced Phase Change Materials (PCM) Product Overview

10.1.3 Henkel AG and Company Bio-based Advanced Phase Change Materials (PCM) Product Market Performance

10.1.4 Henkel AG and Company Business Overview

10.1.5 Henkel AG and Company SWOT Analysis

10.1.6 Henkel AG and Company Recent Developments

10.2 Honeywell

10.2.1 Honeywell Basic Information

10.2.2 Honeywell Bio-based Advanced Phase Change Materials (PCM) Product Overview

10.2.3 Honeywell Bio-based Advanced Phase Change Materials (PCM) Product Market Performance

10.2.4 Honeywell Business Overview

10.2.5 Honeywell SWOT Analysis

10.2.6 Honeywell Recent Developments

10.3 Croda International

10.3.1 Croda International Basic Information

10.3.2 Croda International Bio-based Advanced Phase Change Materials (PCM) Product Overview

10.3.3 Croda International Bio-based Advanced Phase Change Materials (PCM) Product Market Performance

10.3.4 Croda International Business Overview

10.3.5 Croda International SWOT Analysis

10.3.6 Croda International Recent Developments

10.4 Sasol Germany GmbH

10.4.1 Sasol Germany GmbH Basic Information

10.4.2 Sasol Germany GmbH Bio-based Advanced Phase Change Materials (PCM)

Product Overview

10.4.3 Sasol Germany GmbH Bio-based Advanced Phase Change Materials (PCM)

Product Market Performance

10.4.4 Sasol Germany GmbH Business Overview

10.4.5 Sasol Germany GmbH Recent Developments

10.5 Microtek Laboratories Inc

10.5.1 Microtek Laboratories Inc Basic Information

10.5.2 Microtek Laboratories Inc Bio-based Advanced Phase Change Materials (PCM)

Product Overview

10.5.3 Microtek Laboratories Inc Bio-based Advanced Phase Change Materials (PCM)

Product Market Performance

10.5.4 Microtek Laboratories Inc Business Overview

10.5.5 Microtek Laboratories Inc Recent Developments

10.6 DuPont and Dow

10.6.1 DuPont and Dow Basic Information

10.6.2 DuPont and Dow Bio-based Advanced Phase Change Materials (PCM) Product Overview

10.6.3 DuPont and Dow Bio-based Advanced Phase Change Materials (PCM) Product Market Performance

10.6.4 DuPont and Dow Business Overview

10.6.5 DuPont and Dow Recent Developments

10.7 Parker

10.7.1 Parker Basic Information

10.7.2 Parker Bio-based Advanced Phase Change Materials (PCM) Product Overview

10.7.3 Parker Bio-based Advanced Phase Change Materials (PCM) Product Market Performance

10.7.4 Parker Business Overview

10.7.5 Parker Recent Developments

10.8 Laird PLC

10.8.1 Laird PLC Basic Information

10.8.2 Laird PLC Bio-based Advanced Phase Change Materials (PCM) Product Overview

10.8.3 Laird PLC Bio-based Advanced Phase Change Materials (PCM) Product Market Performance

10.8.4 Laird PLC Business Overview

10.8.5 Laird PLC Recent Developments

10.9 Phase Change Energy Solutions

10.9.1 Phase Change Energy Solutions Basic Information

10.9.2 Phase Change Energy Solutions Bio-based Advanced Phase Change Materials (PCM) Product Overview

10.9.3 Phase Change Energy Solutions Bio-based Advanced Phase Change Materials (PCM) Product Market Performance

10.9.4 Phase Change Energy Solutions Business Overview

10.9.5 Phase Change Energy Solutions Recent Developments

10.10 Cryopak

10.10.1 Cryopak Basic Information

10.10.2 Cryopak Bio-based Advanced Phase Change Materials (PCM) Product Overview

10.10.3 Cryopak Bio-based Advanced Phase Change Materials (PCM) Product Market Performance

10.10.4 Cryopak Business Overview

10.10.5 Cryopak Recent Developments

10.11 SGL Carbon

10.11.1 SGL Carbon Basic Information

10.11.2 SGL Carbon Bio-based Advanced Phase Change Materials (PCM) Product Overview

10.11.3 SGL Carbon Bio-based Advanced Phase Change Materials (PCM) Product Market Performance

10.11.4 SGL Carbon Business Overview

10.11.5 SGL Carbon Recent Developments

10.12 Rubitherm Technologies GmbH

10.12.1 Rubitherm Technologies GmbH Basic Information

10.12.2 Rubitherm Technologies GmbH Bio-based Advanced Phase Change Materials (PCM) Product Overview

10.12.3 Rubitherm Technologies GmbH Bio-based Advanced Phase Change Materials (PCM) Product Market Performance

10.12.4 Rubitherm Technologies GmbH Business Overview

10.12.5 Rubitherm Technologies GmbH Recent Developments

10.13 Cold Chain Technologies

10.13.1 Cold Chain Technologies Basic Information

10.13.2 Cold Chain Technologies Bio-based Advanced Phase Change Materials (PCM) Product Overview

10.13.3 Cold Chain Technologies Bio-based Advanced Phase Change Materials (PCM) Product Market Performance

- 10.13.4 Cold Chain Technologies Business Overview
- 10.13.5 Cold Chain Technologies Recent Developments
- 10.14 Inc
 - 10.14.1 Inc Basic Information
 - 10.14.2 Inc Bio-based Advanced Phase Change Materials (PCM) Product Overview
 - 10.14.3 Inc Bio-based Advanced Phase Change Materials (PCM) Product Market Performance
 - 10.14.4 Inc Business Overview
 - 10.14.5 Inc Recent Developments
- 10.15 PLUSS Advanced Technologies
 - 10.15.1 PLUSS Advanced Technologies Basic Information
 - 10.15.2 PLUSS Advanced Technologies Bio-based Advanced Phase Change Materials (PCM) Product Overview
 - 10.15.3 PLUSS Advanced Technologies Bio-based Advanced Phase Change Materials (PCM) Product Market Performance
 - 10.15.4 PLUSS Advanced Technologies Business Overview
 - 10.15.5 PLUSS Advanced Technologies Recent Developments
- 10.16 Outlast Technologies
 - 10.16.1 Outlast Technologies Basic Information
 - 10.16.2 Outlast Technologies Bio-based Advanced Phase Change Materials (PCM) Product Overview
 - 10.16.3 Outlast Technologies Bio-based Advanced Phase Change Materials (PCM) Product Market Performance
 - 10.16.4 Outlast Technologies Business Overview
 - 10.16.5 Outlast Technologies Recent Developments
- 11 Bio-based Advanced Phase Change Materials (PCM) Market Forecast by Region
 - 11.1 Global Bio-based Advanced Phase Change Materials (PCM) Market Size Forecast
 - 11.2 Global Bio-based Advanced Phase Change Materials (PCM) Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe Bio-based Advanced Phase Change Materials (PCM) Market Size Forecast by Country
 - 11.2.3 Asia Pacific Bio-based Advanced Phase Change Materials (PCM) Market Size Forecast by Region
 - 11.2.4 South America Bio-based Advanced Phase Change Materials (PCM) Market Size Forecast by Country
 - 11.2.5 Middle East and Africa Forecasted Sales of Bio-based Advanced Phase Change Materials (PCM) by Country
- 12 Forecast Market by Type and by Application (2026-2033)

12.1 Global Bio-based Advanced Phase Change Materials (PCM) Market Forecast by Type (2026-2033)

12.1.1 Global Forecasted Sales of Bio-based Advanced Phase Change Materials (PCM) by Type (2026-2033)

12.1.2 Global Bio-based Advanced Phase Change Materials (PCM) Market Size Forecast by Type (2026-2033)

12.1.3 Global Forecasted Price of Bio-based Advanced Phase Change Materials (PCM) by Type (2026-2033)

12.2 Global Bio-based Advanced Phase Change Materials (PCM) Market Forecast by Application (2026-2033)

12.2.1 Global Bio-based Advanced Phase Change Materials (PCM) Sales (K MT) Forecast by Application

12.2.2 Global Bio-based Advanced Phase Change Materials (PCM) Market Size (M USD) Forecast by Application (2026-2033)

13 Conclusion and Key FindingsList of Tables

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Market Size (M USD) Segment Executive Summary

Table 4. Bio-based Advanced Phase Change Materials (PCM) Market Size Comparison by Region (M USD)

Table 5. Global Bio-based Advanced Phase Change Materials (PCM) Sales (K MT) by Manufacturers (2020-2025)

Table 6. Global Bio-based Advanced Phase Change Materials (PCM) Sales Market Share by Manufacturers (2020-2025)

Table 7. Global Bio-based Advanced Phase Change Materials (PCM) Revenue (M USD) by Manufacturers (2020-2025)

Table 8. Global Bio-based Advanced Phase Change Materials (PCM) Revenue Share by Manufacturers (2020-2025)

Table 9. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Bio-based Advanced Phase Change Materials (PCM) as of 2024)

Table 10. Global Market Bio-based Advanced Phase Change Materials (PCM) Average Price (USD/MT) of Key Manufacturers (2020-2025)

Table 11. Manufacturers Bio-based Advanced Phase Change Materials (PCM) Manufacturing Sites and Area Served

Table 12. Manufacturers Bio-based Advanced Phase Change Materials (PCM) Product Type

Table 13. Global Bio-based Advanced Phase Change Materials (PCM) Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 14. Mergers & Acquisitions, Expansion Plans

Table 15. Market Overview of Key Raw Materials

Table 16. Midstream Market Analysis

Table 17. Downstream Customer Analysis

Table 18. Key Development Trends

Table 19. Driving Factors

Table 20. Bio-based Advanced Phase Change Materials (PCM) Market Challenges

Table 21. Goldman Sachs' forecast real GDP growth rate for 2024-2026

Table 22. S&P Global ' Forecast Real GDP Growth Rate For 2024-2027

Table 23. World Bank ' Forecast Real GDP Growth Rate For 2024-2026

Table 24. Global Bio-based Advanced Phase Change Materials (PCM) Sales by Type (K MT)

Table 25. Global Bio-based Advanced Phase Change Materials (PCM) Market Size by Type (M USD)

Table 26. Global Bio-based Advanced Phase Change Materials (PCM) Sales (K MT) by Type (2020-2025)

Table 27. Global Bio-based Advanced Phase Change Materials (PCM) Sales Market Share by Type (2020-2025)

Table 28. Global Bio-based Advanced Phase Change Materials (PCM) Market Size (M USD) by Type (2020-2025)

Table 29. Global Bio-based Advanced Phase Change Materials (PCM) Market Size Share by Type (2020-2025)

Table 30. Global Bio-based Advanced Phase Change Materials (PCM) Price (USD/MT) by Type (2020-2025)

Table 31. Global Bio-based Advanced Phase Change Materials (PCM) Sales (K MT) by Application

Table 32. Global Bio-based Advanced Phase Change Materials (PCM) Market Size by Application

Table 33. Global Bio-based Advanced Phase Change Materials (PCM) Sales by Application (2020-2025) & (K MT)

Table 34. Global Bio-based Advanced Phase Change Materials (PCM) Sales Market Share by Application (2020-2025)

Table 35. Global Bio-based Advanced Phase Change Materials (PCM) Market Size by Application (2020-2025) & (M USD)

Table 36. Global Bio-based Advanced Phase Change Materials (PCM) Market Share by Application (2020-2025)

Table 37. Global Bio-based Advanced Phase Change Materials (PCM) Sales Growth Rate by Application (2020-2025)

Table 38. Global Bio-based Advanced Phase Change Materials (PCM) Sales by Region (2020-2025) & (K MT)

Table 39. Global Bio-based Advanced Phase Change Materials (PCM) Sales Market Share by Region (2020-2025)

Table 40. Global Bio-based Advanced Phase Change Materials (PCM) Market Size by Region (2020-2025) & (M USD)

Table 41. Global Bio-based Advanced Phase Change Materials (PCM) Market Size Market Share by Region (2020-2025)

Table 42. North America Bio-based Advanced Phase Change Materials (PCM) Sales by Country (2020-2025) & (K MT)

Table 43. North America Bio-based Advanced Phase Change Materials (PCM) Market Size by Country (2020-2025) & (M USD)

Table 44. Europe Bio-based Advanced Phase Change Materials (PCM) Sales by Country (2020-2025) & (K MT)

Table 45. Europe Bio-based Advanced Phase Change Materials (PCM) Market Size by Country (2020-2025) & (M USD)

Table 46. Asia Pacific Bio-based Advanced Phase Change Materials (PCM) Sales by Region (2020-2025) & (K MT)

Table 47. Asia Pacific Bio-based Advanced Phase Change Materials (PCM) Market Size by Region (2020-2025) & (M USD)

Table 48. South America Bio-based Advanced Phase Change Materials (PCM) Sales by Country (2020-2025) & (K MT)

Table 49. South America Bio-based Advanced Phase Change Materials (PCM) Market Size by Country (2020-2025) & (M USD)

Table 50. Middle East and Africa Bio-based Advanced Phase Change Materials (PCM) Sales by Region (2020-2025) & (K MT)

Table 51. Middle East and Africa Bio-based Advanced Phase Change Materials (PCM) Market Size by Region (2020-2025) & (M USD)

Table 52. Global Bio-based Advanced Phase Change Materials (PCM) Production (K MT) by Region(2020-2025)

Table 53. Global Bio-based Advanced Phase Change Materials (PCM) Revenue (US\$ Million) by Region (2020-2025)

Table 54. Global Bio-based Advanced Phase Change Materials (PCM) Revenue Market Share by Region (2020-2025)

Table 55. Global Bio-based Advanced Phase Change Materials (PCM) Production (K MT), Revenue (US\$ Million), Price (USD/MT) and Gross Margin (2020-2025)

Table 56. North America Bio-based Advanced Phase Change Materials (PCM) Production (K MT), Revenue (US\$ Million), Price (USD/MT) and Gross Margin (2020-2025)

Table 57. Europe Bio-based Advanced Phase Change Materials (PCM) Production (K MT), Revenue (US\$ Million), Price (USD/MT) and Gross Margin (2020-2025)

Table 58. Japan Bio-based Advanced Phase Change Materials (PCM) Production (K MT), Revenue (US\$ Million), Price (USD/MT) and Gross Margin (2020-2025)

Table 59. China Bio-based Advanced Phase Change Materials (PCM) Production (K MT), Revenue (US\$ Million), Price (USD/MT) and Gross Margin (2020-2025)

Table 60. Henkel AG and Company Basic Information

Table 61. Henkel AG and Company Bio-based Advanced Phase Change Materials (PCM) Product Overview

Table 62. Henkel AG and Company Bio-based Advanced Phase Change Materials (PCM) Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2020-2025)

Table 63. Henkel AG and Company Business Overview

Table 64. Henkel AG and Company SWOT Analysis

Table 65. Henkel AG and Company Recent Developments

Table 66. Honeywell Basic Information

Table 67. Honeywell Bio-based Advanced Phase Change Materials (PCM) Product Overview

Table 68. Honeywell Bio-based Advanced Phase Change Materials (PCM) Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2020-2025)

Table 69. Honeywell Business Overview

Table 70. Honeywell SWOT Analysis

Table 71. Honeywell Recent Developments

Table 72. Croda International Basic Information

Table 73. Croda International Bio-based Advanced Phase Change Materials (PCM) Product Overview

Table 74. Croda International Bio-based Advanced Phase Change Materials (PCM) Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2020-2025)

Table 75. Croda International Business Overview

Table 76. Croda International SWOT Analysis

Table 77. Croda International Recent Developments

Table 78. Sasol Germany GmbH Basic Information

Table 79. Sasol Germany GmbH Bio-based Advanced Phase Change Materials (PCM) Product Overview

Table 80. Sasol Germany GmbH Bio-based Advanced Phase Change Materials (PCM) Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2020-2025)

Table 81. Sasol Germany GmbH Business Overview

Table 82. Sasol Germany GmbH Recent Developments

Table 83. Microtek Laboratories Inc Basic Information

Table 84. Microtek Laboratories Inc Bio-based Advanced Phase Change Materials (PCM) Product Overview

Table 85. Microtek Laboratories Inc Bio-based Advanced Phase Change Materials (PCM) Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2020-2025)

Table 86. Microtek Laboratories Inc Business Overview

Table 87. Microtek Laboratories Inc Recent Developments

Table 88. DuPont and Dow Basic Information

Table 89. DuPont and Dow Bio-based Advanced Phase Change Materials (PCM) Product Overview

Table 90. DuPont and Dow Bio-based Advanced Phase Change Materials (PCM) Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2020-2025)

Table 91. DuPont and Dow Business Overview

Table 92. DuPont and Dow Recent Developments

Table 93. Parker Basic Information

Table 94. Parker Bio-based Advanced Phase Change Materials (PCM) Product Overview

Table 95. Parker Bio-based Advanced Phase Change Materials (PCM) Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2020-2025)

Table 96. Parker Business Overview

Table 97. Parker Recent Developments

Table 98. Laird PLC Basic Information

Table 99. Laird PLC Bio-based Advanced Phase Change Materials (PCM) Product Overview

Table 100. Laird PLC Bio-based Advanced Phase Change Materials (PCM) Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2020-2025)

Table 101. Laird PLC Business Overview

Table 102. Laird PLC Recent Developments

Table 103. Phase Change Energy Solutions Basic Information

Table 104. Phase Change Energy Solutions Bio-based Advanced Phase Change Materials (PCM) Product Overview

Table 105. Phase Change Energy Solutions Bio-based Advanced Phase Change Materials (PCM) Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2020-2025)

Table 106. Phase Change Energy Solutions Business Overview

Table 107. Phase Change Energy Solutions Recent Developments

Table 108. Cryopak Basic Information

Table 109. Cryopak Bio-based Advanced Phase Change Materials (PCM) Product Overview

Table 110. Cryopak Bio-based Advanced Phase Change Materials (PCM) Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2020-2025)

Table 111. Cryopak Business Overview

Table 112. Cryopak Recent Developments

Table 113. SGL Carbon Basic Information

Table 114. SGL Carbon Bio-based Advanced Phase Change Materials (PCM) Product Overview

Table 115. SGL Carbon Bio-based Advanced Phase Change Materials (PCM) Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2020-2025)

Table 116. SGL Carbon Business Overview

Table 117. SGL Carbon Recent Developments

Table 118. Rubitherm Technologies GmbH Basic Information

Table 119. Rubitherm Technologies GmbH Bio-based Advanced Phase Change Materials (PCM) Product Overview

Table 120. Rubitherm Technologies GmbH Bio-based Advanced Phase Change Materials (PCM) Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2020-2025)

Table 121. Rubitherm Technologies GmbH Business Overview

Table 122. Rubitherm Technologies GmbH Recent Developments

Table 123. Cold Chain Technologies Basic Information

Table 124. Cold Chain Technologies Bio-based Advanced Phase Change Materials (PCM) Product Overview

Table 125. Cold Chain Technologies Bio-based Advanced Phase Change Materials (PCM) Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2020-2025)

Table 126. Cold Chain Technologies Business Overview

Table 127. Cold Chain Technologies Recent Developments

Table 128. Inc Basic Information

Table 129. Inc Bio-based Advanced Phase Change Materials (PCM) Product Overview

Table 130. Inc Bio-based Advanced Phase Change Materials (PCM) Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2020-2025)

Table 131. Inc Business Overview

Table 132. Inc Recent Developments

Table 133. PLUSS Advanced Technologies Basic Information

Table 134. PLUSS Advanced Technologies Bio-based Advanced Phase Change Materials (PCM) Product Overview

Table 135. PLUSS Advanced Technologies Bio-based Advanced Phase Change Materials (PCM) Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2020-2025)

Table 136. PLUSS Advanced Technologies Business Overview

Table 137. PLUSS Advanced Technologies Recent Developments

Table 138. Outlast Technologies Basic Information

Table 139. Outlast Technologies Bio-based Advanced Phase Change Materials (PCM) Product Overview

Table 140. Outlast Technologies Bio-based Advanced Phase Change Materials (PCM) Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2020-2025)

Table 141. Outlast Technologies Business Overview

Table 142. Outlast Technologies Recent Developments

Table 143. Global Bio-based Advanced Phase Change Materials (PCM) Sales Forecast by Region (2026-2033) & (K MT)

Table 144. Global Bio-based Advanced Phase Change Materials (PCM) Market Size Forecast by Region (2026-2033) & (M USD)

Table 145. North America Bio-based Advanced Phase Change Materials (PCM) Sales Forecast by Country (2026-2033) & (K MT)

Table 146. North America Bio-based Advanced Phase Change Materials (PCM) Market Size Forecast by Country (2026-2033) & (M USD)

Table 147. Europe Bio-based Advanced Phase Change Materials (PCM) Sales Forecast by Country (2026-2033) & (K MT)

Table 148. Europe Bio-based Advanced Phase Change Materials (PCM) Market Size Forecast by Country (2026-2033) & (M USD)

Table 149. Asia Pacific Bio-based Advanced Phase Change Materials (PCM) Sales Forecast by Region (2026-2033) & (K MT)

Table 150. Asia Pacific Bio-based Advanced Phase Change Materials (PCM) Market Size Forecast by Region (2026-2033) & (M USD)

Table 151. South America Bio-based Advanced Phase Change Materials (PCM) Sales Forecast by Country (2026-2033) & (K MT)

Table 152. South America Bio-based Advanced Phase Change Materials (PCM) Market Size Forecast by Country (2026-2033) & (M USD)

Table 153. Middle East and Africa Bio-based Advanced Phase Change Materials (PCM) Sales Forecast by Country (2026-2033) & (Units)

Table 154. Middle East and Africa Bio-based Advanced Phase Change Materials (PCM) Market Size Forecast by Country (2026-2033) & (M USD)

Table 155. Global Bio-based Advanced Phase Change Materials (PCM) Sales Forecast by Type (2026-2033) & (K MT)

Table 156. Global Bio-based Advanced Phase Change Materials (PCM) Market Size Forecast by Type (2026-2033) & (M USD)

Table 157. Global Bio-based Advanced Phase Change Materials (PCM) Price Forecast by Type (2026-2033) & (USD/MT)

Table 158. Global Bio-based Advanced Phase Change Materials (PCM) Sales (K MT) Forecast by Application (2026-2033)

Table 159. Global Bio-based Advanced Phase Change Materials (PCM) Market Size Forecast by Application (2026-2033) & (M USD)

List of Figures

Figure 1. Product Picture of Bio-based Advanced Phase Change Materials (PCM)

Figure 2. Data Triangulation

Figure 3. Key Caveats

Figure 4. Global Bio-based Advanced Phase Change Materials (PCM) Market Size (M USD), 2024-2033

Figure 5. Global Bio-based Advanced Phase Change Materials (PCM) Market Size (M USD) (2020-2033)

Figure 6. Global Bio-based Advanced Phase Change Materials (PCM) Sales (K MT) & (2020-2033)

Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)

Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 9. Evaluation Matrix of Regional Market Development Potential

Figure 10. Bio-based Advanced Phase Change Materials (PCM) Market Size by Country (M USD)

Figure 11. Company Assessment Quadrant

Figure 12. Global Bio-based Advanced Phase Change Materials (PCM) Product Life Cycle

Figure 13. Bio-based Advanced Phase Change Materials (PCM) Sales Share by Manufacturers in 2024

Figure 14. Global Bio-based Advanced Phase Change Materials (PCM) Revenue Share by Manufacturers in 2024

Figure 15. Bio-based Advanced Phase Change Materials (PCM) Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2024

Figure 16. Global Market Bio-based Advanced Phase Change Materials (PCM) Average Price (USD/MT) of Key Manufacturers in 2024

Figure 17. The Global 5 and 10 Largest Players: Market Share by Bio-based Advanced Phase Change Materials (PCM) Revenue in 2024

Figure 18. Industry Chain Map of Bio-based Advanced Phase Change Materials (PCM)

Figure 19. Global Bio-based Advanced Phase Change Materials (PCM) Market PEST Analysis

Figure 20. Global Bio-based Advanced Phase Change Materials (PCM) Market Porter's Five Forces Analysis

Figure 21. Global Merchandise Trade as a Percentage Of GDP

Figure 22. US - Imports of Goods by Country

Figure 23. China Exports by Country

Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers

- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Bio-based Advanced Phase Change Materials (PCM) Market Share by Type
- Figure 27. Sales Market Share of Bio-based Advanced Phase Change Materials (PCM) by Type (2020-2025)
- Figure 28. Sales Market Share of Bio-based Advanced Phase Change Materials (PCM) by Type in 2024
- Figure 29. Market Size Share of Bio-based Advanced Phase Change Materials (PCM) by Type (2020-2025)
- Figure 30. Market Size Share of Bio-based Advanced Phase Change Materials (PCM) by Type in 2024
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Bio-based Advanced Phase Change Materials (PCM) Market Share by Application
- Figure 33. Global Bio-based Advanced Phase Change Materials (PCM) Sales Market Share by Application (2020-2025)
- Figure 34. Global Bio-based Advanced Phase Change Materials (PCM) Sales Market Share by Application in 2024
- Figure 35. Global Bio-based Advanced Phase Change Materials (PCM) Market Share by Application (2020-2025)
- Figure 36. Global Bio-based Advanced Phase Change Materials (PCM) Market Share by Application in 2024
- Figure 37. Global Bio-based Advanced Phase Change Materials (PCM) Sales Growth Rate by Application (2020-2025)
- Figure 38. Global Bio-based Advanced Phase Change Materials (PCM) Sales Market Share by Region (2020-2025)
- Figure 39. Global Bio-based Advanced Phase Change Materials (PCM) Market Size Market Share by Region (2020-2025)
- Figure 40. North America Bio-based Advanced Phase Change Materials (PCM) Sales and Growth Rate (2020-2025) & (K MT)
- Figure 41. North America Bio-based Advanced Phase Change Materials (PCM) Sales and Growth Rate (2020-2025) & (K MT)
- Figure 42. North America Bio-based Advanced Phase Change Materials (PCM) Sales Market Share by Country in 2024
- Figure 43. North America Bio-based Advanced Phase Change Materials (PCM) Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America Bio-based Advanced Phase Change Materials (PCM) Market Size Market Share by Country in 2024
- Figure 45. U.S. Bio-based Advanced Phase Change Materials (PCM) Sales and Growth

Rate (2020-2025) & (K MT)

Figure 46. U.S. Bio-based Advanced Phase Change Materials (PCM) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Bio-based Advanced Phase Change Materials (PCM) Sales (K MT) and Growth Rate (2020-2025)

Figure 48. Canada Bio-based Advanced Phase Change Materials (PCM) Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Bio-based Advanced Phase Change Materials (PCM) Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Bio-based Advanced Phase Change Materials (PCM) Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Bio-based Advanced Phase Change Materials (PCM) Sales and Growth Rate (2020-2025) & (K MT)

Figure 52. Europe Bio-based Advanced Phase Change Materials (PCM) Sales Market Share by Country in 2024

Figure 53. Europe Bio-based Advanced Phase Change Materials (PCM) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Bio-based Advanced Phase Change Materials (PCM) Market Size Market Share by Country in 2024

Figure 55. Germany Bio-based Advanced Phase Change Materials (PCM) Sales and Growth Rate (2020-2025) & (K MT)

Figure 56. Germany Bio-based Advanced Phase Change Materials (PCM) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Bio-based Advanced Phase Change Materials (PCM) Sales and Growth Rate (2020-2025) & (K MT)

Figure 58. France Bio-based Advanced Phase Change Materials (PCM) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Bio-based Advanced Phase Change Materials (PCM) Sales and Growth Rate (2020-2025) & (K MT)

Figure 60. U.K. Bio-based Advanced Phase Change Materials (PCM) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Bio-based Advanced Phase Change Materials (PCM) Sales and Growth Rate (2020-2025) & (K MT)

Figure 62. Italy Bio-based Advanced Phase Change Materials (PCM) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Bio-based Advanced Phase Change Materials (PCM) Sales and Growth Rate (2020-2025) & (K MT)

Figure 64. Spain Bio-based Advanced Phase Change Materials (PCM) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Bio-based Advanced Phase Change Materials (PCM) Sales and Growth Rate (K MT)

Figure 66. Asia Pacific Bio-based Advanced Phase Change Materials (PCM) Sales Market Share by Region in 2024

Figure 67. Asia Pacific Bio-based Advanced Phase Change Materials (PCM) Market Size Market Share by Region in 2024

Figure 68. China Bio-based Advanced Phase Change Materials (PCM) Sales and Growth Rate (2020-2025) & (K MT)

Figure 69. China Bio-based Advanced Phase Change Materials (PCM) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Bio-based Advanced Phase Change Materials (PCM) Sales and Growth Rate (2020-2025) & (K MT)

Figure 71. Japan Bio-based Advanced Phase Change Materials (PCM) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Bio-based Advanced Phase Change Materials (PCM) Sales and Growth Rate (2020-2025) & (K MT)

Figure 73. South Korea Bio-based Advanced Phase Change Materials (PCM) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Bio-based Advanced Phase Change Materials (PCM) Sales and Growth Rate (2020-2025) & (K MT)

Figure 75. India Bio-based Advanced Phase Change Materials (PCM) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Bio-based Advanced Phase Change Materials (PCM) Sales and Growth Rate (2020-2025) & (K MT)

Figure 77. Southeast Asia Bio-based Advanced Phase Change Materials (PCM) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Bio-based Advanced Phase Change Materials (PCM) Sales and Growth Rate (K MT)

Figure 79. South America Bio-based Advanced Phase Change Materials (PCM) Sales Market Share by Country in 2024

Figure 80. South America Bio-based Advanced Phase Change Materials (PCM) Market Size and Growth Rate (M USD)

Figure 81. South America Bio-based Advanced Phase Change Materials (PCM) Market Size Market Share by Country in 2024

Figure 82. Brazil Bio-based Advanced Phase Change Materials (PCM) Sales and Growth Rate (2020-2025) & (K MT)

Figure 83. Brazil Bio-based Advanced Phase Change Materials (PCM) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Bio-based Advanced Phase Change Materials (PCM) Sales and

Growth Rate (2020-2025) & (K MT)

Figure 85. Argentina Bio-based Advanced Phase Change Materials (PCM) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Bio-based Advanced Phase Change Materials (PCM) Sales and Growth Rate (2020-2025) & (K MT)

Figure 87. Columbia Bio-based Advanced Phase Change Materials (PCM) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Bio-based Advanced Phase Change Materials (PCM) Sales and Growth Rate (K MT)

Figure 89. Middle East and Africa Bio-based Advanced Phase Change Materials (PCM) Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Bio-based Advanced Phase Change Materials (PCM) Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Bio-based Advanced Phase Change Materials (PCM) Market Size Market Share by Region in 2024

Figure 92. Saudi Arabia Bio-based Advanced Phase Change Materials (PCM) Sales and Growth Rate (2020-2025) & (K MT)

Figure 93. Saudi Arabia Bio-based Advanced Phase Change Materials (PCM) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Bio-based Advanced Phase Change Materials (PCM) Sales and Growth Rate (2020-2025) & (K MT)

Figure 95. UAE Bio-based Advanced Phase Change Materials (PCM) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Bio-based Advanced Phase Change Materials (PCM) Sales and Growth Rate (2020-2025) & (K MT)

Figure 97. Egypt Bio-based Advanced Phase Change Materials (PCM) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Bio-based Advanced Phase Change Materials (PCM) Sales and Growth Rate (2020-2025) & (K MT)

Figure 99. Nigeria Bio-based Advanced Phase Change Materials (PCM) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Bio-based Advanced Phase Change Materials (PCM) Sales and Growth Rate (2020-2025) & (K MT)

Figure 101. South Africa Bio-based Advanced Phase Change Materials (PCM) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Bio-based Advanced Phase Change Materials (PCM) Production Market Share by Region (2020-2025)

Figure 103. North America Bio-based Advanced Phase Change Materials (PCM) Production (K MT) Growth Rate (2020-2025)

Figure 104. Europe Bio-based Advanced Phase Change Materials (PCM) Production (K MT) Growth Rate (2020-2025)

Figure 105. Japan Bio-based Advanced Phase Change Materials (PCM) Production (K MT) Growth Rate (2020-2025)

Figure 106. China Bio-based Advanced Phase Change Materials (PCM) Production (K MT) Growth Rate (2020-2025)

Figure 107. Global Bio-based Advanced Phase Change Materials (PCM) Sales Forecast by Volume (2020-2033) & (K MT)

Figure 108. Global Bio-based Advanced Phase Change Materials (PCM) Market Size Forecast by Value (2020-2033) & (M USD)

Figure 109. Global Bio-based Advanced Phase Change Materials (PCM) Sales Market Share Forecast by Type (2026-2033)

Figure 110. Global Bio-based Advanced Phase Change Materials (PCM) Market Share Forecast by Type (2026-2033)

Figure 111. Global Bio-based Advanced Phase Change Materials (PCM) Sales Forecast by Application (2026-2033)

Figure 112. Global Bio-based Advanced Phase Change Materials (PCM) Market Share Forecast by Application (2026-2033)

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