

North America Advanced Phase Change Materials Market: Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

Market Overview 2023-2028:

The North America advanced phase change materials market size reached US\$ 636 Million in 2022. Looking forward, IMARC Group expects the market to reach US\$ 1,598 Million by 2028, exhibiting a growth rate (CAGR) of 16.7% during 2023-2028.

The advanced phase change materials (PCMs) refer to the elements with a capability to store latent heat emitted during distinctive phase transitions. At a commercial level, they store latent heat released during the solid-liquid phase transition. Advanced phase change materials enhance the heat storage capacity of buildings and are highly efficient in power distribution and generation systems. They are employed for cooling electrical engines, foods and drinks, maintaining high temperatures in greenhouses and conditioning of buildings.

North America represents one of the largest advanced phase change materials market owing to the highly developed manufacturing industries for electric and electronic devices. These devices use advanced PCMs pertaining to their high latent heat of fusion, specific heat, thermal stability and thermal conductivity in both solid and liquid phases. Several initiatives by government institutions, such as Department of Energy, are taken for the assessment of costs, risks and technology performance of advanced PCMs for their wide application in the region. Availability of these materials at affordable prices and their potential to provide zero net energy buildings will continue to spur the demand in the upcoming years.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the North America advanced phase change materials market report, along with forecasts at the regional and country levels from 2023-2028. Our report has categorized the market based on type, form and application.

Key Regions Analysed

United States

Canada

Mexico

Analysis for Each Country

Market by Type

Organic PCM

Inorganic PCM

Bio-Based PCM

Market by Form

Encapsulated

Non-Encapsulated

Market by Application

Building and Construction

Packaging

HVAC

Textiles

Electronics

Others

Value Chain Analysis

Key Drivers and Challenges

Porters Five Forces Analysis

PESTEL Analysis

Government Regulations

Competitive Landscape

Competitive Structure

Key Player Profiles

Key Questions Answered in This Report:

How has the North America advanced phase change materials market performed so far and how will it perform in the coming years?

What are the key regions in the North America advanced phase change materials market?

What has been the impact of COVID-19 on the North America advanced phase change materials market?

What is the breakup of the North America advanced phase change materials market on the basis of type?

What is the breakup of the North America advanced phase change materials market on the basis of form?

What is the breakup of the North America advanced phase change materials market on the basis of application?

What are the various stages in the value chain of the North America advanced phase change materials industry?

What are the key driving factors and challenges in the North America advanced phase change materials industry?

What is the structure of the North America advanced phase change materials industry and who are the key players?

What is the degree of competition in the North America advanced phase change materials industry?

What are the profit margins in the North America advanced phase change materials industry?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

2.1 Objectives of the Study

2.2 Stakeholders

2.3 Data Sources

2.3.1 Primary Sources

2.3.2 Secondary Sources

2.4 Market Estimation

2.4.1 Bottom-Up Approach

2.4.2 Top-Down Approach

2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

4.1 Overview

4.2 Key Industry Trends

5 GLOBAL ADVANCED PHASE CHANGE MATERIALS MARKET

5.1 Market Performance

5.2 Market Breakup by Type

5.3 Market Breakup by Form

5.4 Market Breakup by Application

5.5 Market Breakup by Region

5.6 Market Forecast

6 NORTH AMERICA ADVANCED PHASE CHANGE MATERIALS MARKET

6.1 Market Performance

6.2 Impact of COVID-19

6.3 Market Forecast

7 NORTH AMERICA ADVANCED PHASE CHANGE MATERIALS MARKET:

North America Advanced Phase Change Materials Market: Industry Trends, Share, Size, Growth, Opportunity and Fo...

BREAKUP BY TYPE

- 7.1 Organic PCM
- 7.2 Inorganic PCM
- 7.3 Bio-Based PCM

8 NORTH AMERICA ADVANCED PHASE CHANGE MATERIALS MARKET: BREAKUP BY FORM

- 8.1 Encapsulated
- 8.2 Non-Encapsulated

9 NORTH AMERICA ADVANCED PHASE CHANGE MATERIALS MARKET: BREAKUP BY APPLICATION

- 9.1 Building and Construction
- 9.2 Packaging
- 9.3 HVAC
- 9.4 Textiles
- 9.5 Electronics
- 9.6 Others

10 NORTH AMERICA ADVANCED PHASE CHANGE MATERIALS MARKET: BREAKUP BY COUNTRY

- 10.1 United States
 - 10.1.1 Historical Market Trends
 - 10.1.2 Market Breakup by Type
 - 10.1.3 Market Breakup by Form
 - 10.1.4 Market Breakup by Application
 - 10.1.5 Market Forecast
- 10.2 Canada
 - 10.2.1 Historical Market Trends
 - 10.2.2 Market Breakup by Type
 - 10.2.3 Market Breakup by Form
 - 10.2.4 Market Breakup by Application
 - 10.2.5 Market Forecast
- 10.3 Mexico
 - 10.3.1 Historical Market Trends

- 10.3.3Market Breakup by Type
- 10.3.3Market Breakup by Form
- 10.3.4Market Breakup by Application
- 10.3.5Market Forecast

11 SWOT ANALYSIS

- 11.1Overview
- 11.2Strengths
- 11.3Weaknesses
- 11.4Opportunities
- 11.5Threats

12 VALUE CHAIN ANALYSIS

- 12.1Overview
- 12.2Research and Development
- 12.3Raw Material Procurement
- 12.4Manufacturing
- 12.5Distribution
- 12.6Export
- 12.7End-Use

13 PORTER'S FIVE FORCES ANALYSIS

- 13.1 Overview
- 13.2 Bargaining Power of Buyers
- 13.3 Bargaining Power of Suppliers
- 13.4 Degree of Rivalry
- 13.5 Threat of New Entrants
- 13.6 Threat of Substitutes

14 PRICE ANALYSIS

15 COMPETITIVE LANDSCAPE

- 15.1Market Structure
- 15.2Key Players
- 15.3Profiles of Key Players

List Of Tables

LIST OF TABLES

Table 1: North America: Advanced Phase Change Materials Market: Key Industry Highlights, 2022 and 2028

Table 2: North America: Advanced Phase Change Materials Market Forecast: Breakup by Type (in Million US\$), 2023-2028

Table 3: North America: Advanced Phase Change Materials Market Forecast: Breakup by Form (in Million US\$), 2023-2028

Table 4: North America: Advanced Phase Change Materials Market Forecast: Breakup by Application (in Million US\$), 2023-2028

Table 5: North America: Advanced Phase Change Materials Market Forecast: Breakup by Country (in Million US\$), 2023-2028

Table 6: North America: Advanced Phase Change Materials Market: Competitive Structure

Table 7: North America: Advanced Phase Change Materials Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: North America: Advanced Phase Change Materials Market: Major Drivers and Challenges

Figure 2: Global: Advanced Phase Change Materials Market: Sales Value (in Billion US\$), 2017-2022

Figure 3: Global: Advanced Phase Change Materials Market: Breakup by Type (in %), 2022

Figure 4: Global: Advanced Phase Change Materials Market: Breakup by Form (in %), 2022

Figure 5: Global: Advanced Phase Change Materials Market: Breakup by Application (in %), 2022

Figure 6: Global: Advanced Phase Change Materials Market: Breakup by Region (in %), 2022

Figure 7: Global: Advanced Phase Change Materials Market Forecast: Sales Value (in Billion US\$), 2023-2028

Figure 8: North America: Advanced Phase Change Materials Market: Sales Value (in Million US\$), 2017-2022

Figure 9: North America: Advanced Phase Change Materials Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 10: North America: Advanced Phase Change Materials Market: Breakup by Type (in %), 2022

Figure 11: North America: Advanced Phase Change Materials (Organic PCM) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 12: North America: Advanced Phase Change Materials (Organic PCM) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 13: North America: Advanced Phase Change Materials (Inorganic PCM) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 14: North America: Advanced Phase Change Materials (Inorganic PCM) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 15: North America: Advanced Phase Change Materials (Bio-Based PCM) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 16: North America: Advanced Phase Change Materials (Bio-Based PCM) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 17: North America: Advanced Phase Change Materials Market: Breakup by Form (in %), 2022

Figure 18: North America: Advanced Phase Change Materials (Encapsulated) Market:

Sales Value (in Million US\$), 2017 & 2022

Figure 19: North America: Advanced Phase Change Materials (Encapsulated) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 20: North America: Advanced Phase Change Materials (Non-Encapsulated) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 21: North America: Advanced Phase Change Materials (Non-Encapsulated) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 22: North America: Advanced Phase Change Materials Market: Breakup by Application (in %), 2022

Figure 23: North America: Advanced Phase Change Materials (Building and Construction) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 24: North America: Advanced Phase Change Materials (Building and Construction) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 25: North America: Advanced Phase Change Materials (Packaging) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 26: North America: Advanced Phase Change Materials (Packaging) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 27: North America: Advanced Phase Change Materials (HVAC) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 28: North America: Advanced Phase Change Materials (HVAC) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 29: North America: Advanced Phase Change Materials (Textiles) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 30: North America: Advanced Phase Change Materials (Textiles) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 31: North America: Advanced Phase Change Materials (Electronics) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 32: North America: Advanced Phase Change Materials (Electronics) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 33: North America: Advanced Phase Change Materials (Other Applications) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 34: North America: Advanced Phase Change Materials (Other Applications) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 35: North America: Advanced Phase Change Materials Market: Breakup by Country (in %), 2022

Figure 36: United States: Advanced Phase Change Materials Market: Sales Value (in Million US\$), 2017-2022

Figure 37: United States: Advanced Phase Change Materials Market: Breakup by Type (in %), 2022

Figure 38: United States: Advanced Phase Change Materials Market: Breakup by Form (in %), 2022

Figure 39: United States: Advanced Phase Change Materials Market: Breakup by Application (in %), 2022

Figure 40: United States: Advanced Phase Change Materials Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 41: Canada: Advanced Phase Change Materials Market: Sales Value (in Million US\$), 2017-2022

Figure 42: Canada: Advanced Phase Change Materials Market: Breakup by Type (in %), 2022

Figure 43: Canada: Advanced Phase Change Materials Market: Breakup by Form (in %), 2022

Figure 44: Canada: Advanced Phase Change Materials Market: Breakup by Application (in %), 2022

Figure 45: Canada: Advanced Phase Change Materials Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 46: Mexico: Advanced Phase Change Materials Market: Sales Value (in Million US\$), 2017-2022

Figure 47: Mexico: Advanced Phase Change Materials Market: Breakup by Type (in %), 2022

Figure 48: Mexico: Advanced Phase Change Materials Market: Breakup by Form (in %), 2022

Figure 49: Mexico: Advanced Phase Change Materials Market: Breakup by Application (in %), 2022

Figure 50: Mexico: Advanced Phase Change Materials Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 51: North America: Advanced Phase Change Materials Industry: SWOT Analysis

Figure 52: North America: Advanced Phase Change Materials Industry: Value Chain Analysis

Figure 53: North America: Advanced Phase Change Materials Industry: Porter's Five Forces Analysis

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