

# **Sodium Ion Battery Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027**

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## **Abstracts**

The global sodium ion battery market reached a value of US\$ 253.44 Million in 2021. Looking forward, IMARC Group expects the market to reach a value of US\$ 577.41 Million by 2027, exhibiting a CAGR of 13.50% during 2022-2027. Keeping in mind the uncertainties of COVID-19, we are continuously tracking and evaluating the direct as well as the indirect influence of the pandemic on different end use industries. These insights are included in the report as a major market contributor.

Sodium-ion batteries store energy by fusing electrical and chemical energy into each other. They rely on the reversible movement of ions between two electrodes with the help of electrolytes for efficient operation. They offer several benefits, such as superior environmental credentials, enhanced safety, and better raw material costs compared to lithium-ion (Li-ion) batteries. As they are made from materials that are energy dense, non-flammable, and operate well in colder temperatures, sodium-ion batteries find application in the transportation, defense, aerospace, marine, and energy industries across the globe.

### **Sodium Ion Battery Market Trends:**

Due to the growing greenhouse gas emissions, there is a rise in the demand for cleaner energy around the world. This, along with the increasing utilization of sodium-ion batteries to store electricity generated through solar or wind energy, represents one of the key factors driving the market. Moreover, the rising awareness among the masses about the benefits of sodium-ion batteries, such as high energy density, low charging time, and a high number of charging cycles, is propelling the growth of the market. In addition, governments of several countries are promoting the production of renewable energy to provide reliable power supplies and fuel diversification, which enhance energy

security, lower the risk of fuel spills, and reduce the need for imported fuels. Apart from this, key market players are extensively investing in research and development (R&D) activities to introduce enhanced stationary energy storage, which is expected to influence the market positively. Furthermore, the escalating demand for electric vehicles (EVs) due to zero tailpipe emissions of air pollutants, such as nitrogen oxides (NOx) and particles, is also projected to bolster the growth of the market.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global sodium ion battery market, along with forecasts at the global, regional and country level from 2022-2027. Our report has categorized the market based on type and application.

#### Breakup by Type:

- Sodium-Sulphur Battery
- Sodium-Salt Battery
- Sodium-Air Battery

#### Breakup by Application:

- Stationary Energy Storage
- Transportation

#### Breakup by Region:

- North America
  - United States
  - Canada
- Asia-Pacific
  - China
  - Japan
  - India
  - South Korea
- Australia
- Indonesia
- Others
- Europe
  - Germany
  - France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Altris AB, AMTE Power plc, Aquion Energy, Faradion Limited, HiNa Battery Technology Co. Ltd., Natron Energy Inc., NEI Corporation, NGK Insulators Ltd. and Tiamat Energy.

Key Questions Answered in This Report:

How has the global sodium ion battery market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global sodium ion battery market?

What are the key regional markets?

What is the breakup of the market based on the type?

What is the breakup of the market based on the application?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global sodium ion battery market and who are the key players?

What is the degree of competition in the 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 SODIUM ION BATTERY MARKET**

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

### **6 MARKET BREAKUP BY TYPE**

- 6.1 Sodium-Sulphur Battery
  - 6.1.1 Market Trends
  - 6.1.2 Market Forecast
- 6.2 Sodium-Salt Battery
  - 6.2.1 Market Trends
  - 6.2.2 Market Forecast
- 6.3 Sodium-Air Battery

6.3.1 Market Trends

6.3.2 Market Forecast

## **7 MARKET BREAKUP BY APPLICATION**

7.1 Stationary Energy Storage

7.1.1 Market Trends

7.1.2 Market Forecast

7.2 Transportation

7.2.1 Market Trends

7.2.2 Market Forecast

## **8 MARKET BREAKUP BY REGION**

8.1 North America

8.1.1 United States

8.1.1.1 Market Trends

8.1.1.2 Market Forecast

8.1.2 Canada

8.1.2.1 Market Trends

8.1.2.2 Market Forecast

8.2 Asia-Pacific

8.2.1 China

8.2.1.1 Market Trends

8.2.1.2 Market Forecast

8.2.2 Japan

8.2.2.1 Market Trends

8.2.2.2 Market Forecast

8.2.3 India

8.2.3.1 Market Trends

8.2.3.2 Market Forecast

8.2.4 South Korea

8.2.4.1 Market Trends

8.2.4.2 Market Forecast

8.2.5 Australia

8.2.5.1 Market Trends

8.2.5.2 Market Forecast

8.2.6 Indonesia

8.2.6.1 Market Trends

- 8.2.6.2 Market Forecast
- 8.2.7 Others
  - 8.2.7.1 Market Trends
  - 8.2.7.2 Market Forecast
- 8.3 Europe
  - 8.3.1 Germany
    - 8.3.1.1 Market Trends
    - 8.3.1.2 Market Forecast
  - 8.3.2 France
    - 8.3.2.1 Market Trends
    - 8.3.2.2 Market Forecast
  - 8.3.3 United Kingdom
    - 8.3.3.1 Market Trends
    - 8.3.3.2 Market Forecast
  - 8.3.4 Italy
    - 8.3.4.1 Market Trends
    - 8.3.4.2 Market Forecast
  - 8.3.5 Spain
    - 8.3.5.1 Market Trends
    - 8.3.5.2 Market Forecast
  - 8.3.6 Russia
    - 8.3.6.1 Market Trends
    - 8.3.6.2 Market Forecast
  - 8.3.7 Others
    - 8.3.7.1 Market Trends
    - 8.3.7.2 Market Forecast
- 8.4 Latin America
  - 8.4.1 Brazil
    - 8.4.1.1 Market Trends
    - 8.4.1.2 Market Forecast
  - 8.4.2 Mexico
    - 8.4.2.1 Market Trends
    - 8.4.2.2 Market Forecast
  - 8.4.3 Others
    - 8.4.3.1 Market Trends
    - 8.4.3.2 Market Forecast
- 8.5 Middle East and Africa
  - 8.5.1 Market Trends
  - 8.5.2 Market Breakup by Country

### 8.5.3 Market Forecast

## **9 SWOT ANALYSIS**

- 9.1 Overview
- 9.2 Strengths
- 9.3 Weaknesses
- 9.4 Opportunities
- 9.5 Threats

## **10 VALUE CHAIN ANALYSIS**

## **11 PORTERS FIVE FORCES ANALYSIS**

- 11.1 Overview
- 11.2 Bargaining Power of Buyers
- 11.3 Bargaining Power of Suppliers
- 11.4 Degree of Competition
- 11.5 Threat of New Entrants
- 11.6 Threat of Substitutes

## **12 PRICE ANALYSIS**

## **13 COMPETITIVE LANDSCAPE**

- 13.1 Market Structure
- 13.2 Key Players
- 13.3 Profiles of Key Players
  - 13.3.1 Altris AB
    - 13.3.1.1 Company Overview
    - 13.3.1.2 Product Portfolio
  - 13.3.2 AMTE Power plc
    - 13.3.2.1 Company Overview
    - 13.3.2.2 Product Portfolio
  - 13.3.3 Aquion Energy
    - 13.3.3.1 Company Overview
    - 13.3.3.2 Product Portfolio
  - 13.3.4 Faradion Limited
    - 13.3.4.1 Company Overview

- 13.3.4.2 Product Portfolio
- 13.3.5 HiNa Battery Technology Co. Ltd.
  - 13.3.5.1 Company Overview
  - 13.3.5.2 Product Portfolio
- 13.3.6 Natron Energy Inc.
  - 13.3.6.1 Company Overview
  - 13.3.6.2 Product Portfolio
- 13.3.7 NEI Corporation
  - 13.3.7.1 Company Overview
  - 13.3.7.2 Product Portfolio
- 13.3.8 NGK Insulators Ltd.
  - 13.3.8.1 Company Overview
  - 13.3.8.2 Product Portfolio
  - 13.3.8.3 Financials
  - 13.3.8.4 SWOT Analysis
- 13.3.9 Tiamat Energy
  - 13.3.9.1 Company Overview
  - 13.3.9.2 Product Portfolio



## List Of Tables

### LIST OF TABLES

Table 1: Global: Sodium Ion Battery Market: Key Industry Highlights, 2021 and 2027

Table 2: Global: Sodium Ion Battery Market Forecast: Breakup by Type (in Million US\$), 2022-2027

Table 3: Global: Sodium Ion Battery Market Forecast: Breakup by Application (in Million US\$), 2022-2027

Table 4: Global: Sodium Ion Battery Market Forecast: Breakup by Region (in Million US\$), 2022-2027

Table 5: Global: Sodium Ion Battery Market: Competitive Structure

Table 6: Global: Sodium Ion Battery Market: Key Players

## List Of Figures

### LIST OF FIGURES

- Figure 1: Global: Sodium Ion Battery Market: Major Drivers and Challenges
- Figure 2: Global: Sodium Ion Battery Market: Sales Value (in Million US\$), 2016-2021
- Figure 3: Global: Sodium Ion Battery Market Forecast: Sales Value (in Million US\$), 2022-2027
- Figure 4: Global: Sodium Ion Battery Market: Breakup by Type (in %), 2021
- Figure 5: Global: Sodium Ion Battery Market: Breakup by Application (in %), 2021
- Figure 6: Global: Sodium Ion Battery Market: Breakup by Region (in %), 2021
- Figure 7: Global: Sodium Ion Battery (Sodium-Sulphur Battery) Market: Sales Value (in Million US\$), 2016 & 2021
- Figure 8: Global: Sodium Ion Battery (Sodium-Sulphur Battery) Market Forecast: Sales Value (in Million US\$), 2022-2027
- Figure 9: Global: Sodium Ion Battery (Sodium-Salt Battery) Market: Sales Value (in Million US\$), 2016 & 2021
- Figure 10: Global: Sodium Ion Battery (Sodium-Salt Battery) Market Forecast: Sales Value (in Million US\$), 2022-2027
- Figure 11: Global: Sodium Ion Battery (Sodium-Air Battery) Market: Sales Value (in Million US\$), 2016 & 2021
- Figure 12: Global: Sodium Ion Battery (Sodium-Air Battery) Market Forecast: Sales Value (in Million US\$), 2022-2027
- Figure 13: Global: Sodium Ion Battery (Stationary Energy Storage) Market: Sales Value (in Million US\$), 2016 & 2021
- Figure 14: Global: Sodium Ion Battery (Stationary Energy Storage) Market Forecast: Sales Value (in Million US\$), 2022-2027
- Figure 15: Global: Sodium Ion Battery (Transportation) Market: Sales Value (in Million US\$), 2016 & 2021
- Figure 16: Global: Sodium Ion Battery (Transportation) Market Forecast: Sales Value (in Million US\$), 2022-2027
- Figure 17: North America: Sodium Ion Battery Market: Sales Value (in Million US\$), 2016 & 2021
- Figure 18: North America: Sodium Ion Battery Market Forecast: Sales Value (in Million US\$), 2022-2027
- Figure 19: United States: Sodium Ion Battery Market: Sales Value (in Million US\$), 2016 & 2021
- Figure 20: United States: Sodium Ion Battery Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 21: Canada: Sodium Ion Battery Market: Sales Value (in Million US\$), 2016 & 2021

Figure 22: Canada: Sodium Ion Battery Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 23: Asia-Pacific: Sodium Ion Battery Market: Sales Value (in Million US\$), 2016 & 2021

Figure 24: Asia-Pacific: Sodium Ion Battery Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 25: China: Sodium Ion Battery Market: Sales Value (in Million US\$), 2016 & 2021

Figure 26: China: Sodium Ion Battery Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 27: Japan: Sodium Ion Battery Market: Sales Value (in Million US\$), 2016 & 2021

Figure 28: Japan: Sodium Ion Battery Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 29: India: Sodium Ion Battery Market: Sales Value (in Million US\$), 2016 & 2021

Figure 30: India: Sodium Ion Battery Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 31: South Korea: Sodium Ion Battery Market: Sales Value (in Million US\$), 2016 & 2021

Figure 32: South Korea: Sodium Ion Battery Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 33: Australia: Sodium Ion Battery Market: Sales Value (in Million US\$), 2016 & 2021

Figure 34: Australia: Sodium Ion Battery Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 35: Indonesia: Sodium Ion Battery Market: Sales Value (in Million US\$), 2016 & 2021

Figure 36: Indonesia: Sodium Ion Battery Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 37: Others: Sodium Ion Battery Market: Sales Value (in Million US\$), 2016 & 2021

Figure 38: Others: Sodium Ion Battery Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 39: Europe: Sodium Ion Battery Market: Sales Value (in Million US\$), 2016 & 2021

Figure 40: Europe: Sodium Ion Battery Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 41: Germany: Sodium Ion Battery Market: Sales Value (in Million US\$), 2016 &

2021

Figure 42: Germany: Sodium Ion Battery Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 43: France: Sodium Ion Battery Market: Sales Value (in Million US\$), 2016 & 2021

Figure 44: France: Sodium Ion Battery Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 45: United Kingdom: Sodium Ion Battery Market: Sales Value (in Million US\$), 2016 & 2021

Figure 46: United Kingdom: Sodium Ion Battery Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 47: Italy: Sodium Ion Battery Market: Sales Value (in Million US\$), 2016 & 2021

Figure 48: Italy: Sodium Ion Battery Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 49: Spain: Sodium Ion Battery Market: Sales Value (in Million US\$), 2016 & 2021

Figure 50: Spain: Sodium Ion Battery Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 51: Russia: Sodium Ion Battery Market: Sales Value (in Million US\$), 2016 & 2021

Figure 52: Russia: Sodium Ion Battery Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 53: Others: Sodium Ion Battery Market: Sales Value (in Million US\$), 2016 & 2021

Figure 54: Others: Sodium Ion Battery Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 55: Latin America: Sodium Ion Battery Market: Sales Value (in Million US\$), 2016 & 2021

Figure 56: Latin America: Sodium Ion Battery Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 57: Brazil: Sodium Ion Battery Market: Sales Value (in Million US\$), 2016 & 2021

Figure 58: Brazil: Sodium Ion Battery Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 59: Mexico: Sodium Ion Battery Market: Sales Value (in Million US\$), 2016 & 2021

Figure 60: Mexico: Sodium Ion Battery Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 61: Others: Sodium Ion Battery Market: Sales Value (in Million US\$), 2016 & 2021

Figure 62: Others: Sodium Ion Battery Market Forecast: Sales Value (in Million US\$),

2022-2027

Figure 63: Middle East and Africa: Sodium Ion Battery Market: Sales Value (in Million US\$), 2016 & 2021

Figure 64: Middle East and Africa: Sodium Ion Battery Market: Breakup by Country (in %), 2021

Figure 65: Middle East and Africa: Sodium Ion Battery Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 66: Global: Sodium Ion Battery Industry: SWOT Analysis

Figure 67: Global: Sodium Ion Battery Industry: Value Chain Analysis

Figure 68: Global: Sodium Ion Battery Industry: Porter's Five Forces Analysis

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