

Global Nano Battery Market Size study & Forecast, by Technology (Nano Phosphate, Nano Pore, Lithium-ion), by Application (Consumer Electronics, Military, Power Tools & Industrial, Renewables & Grid Energy, Transport, Others) and Regional Analysis, 2022-2029

<https://marketpublishers.com/r/G964429D7BD1EN.html>

Date: December 2022

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: G964429D7BD1EN

Abstracts

Global Nano Battery Market is valued at approximately USD 16.83 billion in 2021 and is anticipated to grow with a healthy growth rate of more than 18.6% over the forecast period 2022-2029. Nanobatteries are batteries that are created using nanoscale materials and parts that are less than 100 nanometers in size. Due to their smaller size and weight, nanobatteries are used to power many portable electronic devices, including mobile phones, digital cameras, computers, electric cars, military equipment, and more. Li-ion, nanopore, and nano phosphate technologies are some of the battery types used in the development of nanobatteries. The key factor driving the market growth is increasing need for energy storage systems across a variety of industries, including electronics, electric vehicles, military equipment, and others. Additionally, the use of nanomaterials to maintain the battery's liquids and electrodes separate extends the battery's shelf life, which is expected to enhance demand for nanobatteries. Also, another factor driving the market growth is rising adoption of nano batteries in consumer electronics which create lucrative demand for the market during forecast period.

According to Statista, in 2015, the global revenue of consumer electronics market was USD 879.33 billion and the number is anticipated to reach USD 1135.72 billion by 2026. As a result, rising consumer electronics industry would influence the demand for nano batteries owing to increasing adoption of nano batteries in consumer electronics. Also, increasing investment and R&D towards nano scale components in battery technology would create lucrative opportunities for the market during forecast period. However, the difficulties associated with manufacturing nano materials used in batteries stifle market

growth throughout the forecast period of 2022-2029.

The key regions considered for the Global Nano Battery Market study include Asia Pacific, North America, Europe, Latin America, and Rest of the World. North America is the dominating region across the world in terms of market share, owing to presence of huge consumer base and the existence of major market players in the region. Whereas Europe is also anticipated to exhibit the highest growth rate over the forecast period, owing to factors such as rising growth of military, renewable energy, and electric vehicle in the region which would create lucrative growth prospects for the Nano Battery market across European region.

Major market players included in this report are:

3M Company

Front Edge Technology

mPhase Technologies Inc.

Altair Nanotechnologies Inc.

Evonik Industries AG

Sony Corporation

Next Alternative Inc.

Toshiba

Sinlion Battery Tech

Valence

Recent Developments in the Market:

In 2019, Airbus Defense and Space partnered with Amprius Technologies. This partnership accelerated the development of batteries of a new generation using silicon nanowire anode technology.

In 2020, the University of California San Diego together with Zpower constructed a rechargeable battery that is deemed to be having 5 to 10 times greater areal power density. This could be used in soft robots and wearable electronics.

Global Nano Battery Market Report Scope:

Historical Data 2019-2020-2021

Base Year for Estimation 2021

Forecast period 2022-2029

Report Coverage Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered Technology, Application, Region

Regional Scope North America; Europe; Asia Pacific; Latin America; Rest of the World

Customization Scope Free report customization (equivalent up to 8 analyst's working

hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Technology:

Nano Phosphate

Nano Pore

Lithium-ion

By Application:

Consumer Electronics

Military

Power Tools & Industrial

Renewables & Grid Energy

Transport

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India
Japan
Australia
South Korea
RoAPAC
Latin America
Brazil
Mexico
ROLA
Rest of the World

Contents

CHAPTER 1. EXECUTIVE SUMMARY

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2019-2029 (USD Billion)
 - 1.2.1. Nano Battery Market, by Region, 2019-2029 (USD Billion)
 - 1.2.2. Nano Battery Market, by Technology, 2019-2029 (USD Billion)
 - 1.2.3. Nano Battery Market, by Application, 2019-2029 (USD Billion)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

CHAPTER 2. GLOBAL NANO BATTERY MARKET DEFINITION AND SCOPE

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
 - 2.2.1. Scope of the Study
 - 2.2.2. Industry Evolution
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

CHAPTER 3. GLOBAL NANO BATTERY MARKET DYNAMICS

- 3.1. Nano Battery Market Impact Analysis (2019-2029)
 - 3.1.1. Market Drivers
 - 3.1.1.1. Rising adoption of nano batteries in consumer electronics
 - 3.1.1.2. Advantages associated with nanotechnology in the manufacturing of batteries
 - 3.1.2. Market Challenges
 - 3.1.2.1. Difficulties associated with manufacturing of nano materials used in batteries
 - 3.1.3. Market Opportunities
 - 3.1.3.1. Increasing investment and R&D towards nano scale components in battery technology

CHAPTER 4. GLOBAL NANO BATTERY MARKET INDUSTRY ANALYSIS

- 4.1. Porter's 5 Force Model
 - 4.1.1. Bargaining Power of Suppliers

- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.2. Futuristic Approach to Porter's 5 Force Model (2019-2029)
- 4.3. PEST Analysis
 - 4.3.1. Political
 - 4.3.2. Economical
 - 4.3.3. Social
 - 4.3.4. Technological
- 4.4. Top investment opportunity
- 4.5. Top winning strategies
- 4.6. Industry Experts Prospective
- 4.7. Analyst Recommendation & Conclusion

CHAPTER 5. RISK ASSESSMENT: COVID-19 IMPACT

- 5.1. Assessment of the overall impact of COVID-19 on the industry
- 5.2. Pre COVID-19 and post COVID-19 Market scenario

CHAPTER 6. GLOBAL NANO BATTERY MARKET, BY TECHNOLOGY

- 6.1. Market Snapshot
- 6.2. Global Nano Battery Market by Technology, Performance - Potential Analysis
- 6.3. Global Nano Battery Market Estimates & Forecasts by Technology 2019-2029 (USD Billion)
- 6.4. Nano Battery Market, Sub Segment Analysis
 - 6.4.1. Nano Phosphate
 - 6.4.2. Nano Pore
 - 6.4.3. Lithium-ion

CHAPTER 7. GLOBAL NANO BATTERY MARKET, BY APPLICATION

- 7.1. Market Snapshot
- 7.2. Global Nano Battery Market by Application, Performance - Potential Analysis
- 7.3. Global Nano Battery Market Estimates & Forecasts by Application 2019-2029 (USD Billion)
- 7.4. Nano Battery Market, Sub Segment Analysis
 - 7.4.1. Consumer Electronics

- 7.4.2. Military
- 7.4.3. Power Tools & Industrial
- 7.4.4. Renewables & Grid Energy
- 7.4.5. Transport
- 7.4.6. Others

CHAPTER 8. GLOBAL NANO BATTERY MARKET, REGIONAL ANALYSIS

- 8.1. Nano Battery Market, Regional Market Snapshot
- 8.2. North America Nano Battery Market
 - 8.2.1. U.S. Nano Battery Market
 - 8.2.1.1. Technology breakdown estimates & forecasts, 2019-2029
 - 8.2.1.2. Application breakdown estimates & forecasts, 2019-2029
 - 8.2.2. Canada Nano Battery Market
- 8.3. Europe Nano Battery Market Snapshot
 - 8.3.1. U.K. Nano Battery Market
 - 8.3.2. Germany Nano Battery Market
 - 8.3.3. France Nano Battery Market
 - 8.3.4. Spain Nano Battery Market
 - 8.3.5. Italy Nano Battery Market
 - 8.3.6. Rest of Europe Nano Battery Market
- 8.4. Asia-Pacific Nano Battery Market Snapshot
 - 8.4.1. China Nano Battery Market
 - 8.4.2. India Nano Battery Market
 - 8.4.3. Japan Nano Battery Market
 - 8.4.4. Australia Nano Battery Market
 - 8.4.5. South Korea Nano Battery Market
 - 8.4.6. Rest of Asia Pacific Nano Battery Market
- 8.5. Latin America Nano Battery Market Snapshot
 - 8.5.1. Brazil Nano Battery Market
 - 8.5.2. Mexico Nano Battery Market
 - 8.5.3. Rest of Latin America Nano Battery Market
- 8.6. Rest of The World Nano Battery Market

CHAPTER 9. COMPETITIVE INTELLIGENCE

- 9.1. Top Market Strategies
- 9.2. Company Profiles
 - 9.2.1. 3M Company

- 9.2.1.1. Key Information
- 9.2.1.2. Overview
- 9.2.1.3. Financial (Subject to Data Availability)
- 9.2.1.4. Product Summary
- 9.2.1.5. Recent Developments
- 9.2.2. Front Edge Technology
- 9.2.3. mPhase Technologies Inc.
- 9.2.4. Altair Nanotechnologies Inc.
- 9.2.5. Evonik Industries AG
- 9.2.6. Sony Corporation
- 9.2.7. Next Alternative Inc.
- 9.2.8. Toshiba
- 9.2.9. Sinlion Battery Tech
- 9.2.10. Valence

CHAPTER 10. RESEARCH PROCESS

- 10.1. Research Process
 - 10.1.1. Data Mining
 - 10.1.2. Analysis
 - 10.1.3. Market Estimation
 - 10.1.4. Validation
 - 10.1.5. Publishing
- 10.2. Research Attributes
- 10.3. Research Assumption

List Of Tables

LIST OF TABLES

TABLE 1. Global Nano Battery Market, report scope

TABLE 2. Global Nano Battery Market estimates & forecasts by Region 2019-2029
(USD Billion)

TABLE 3. Global Nano Battery Market estimates & forecasts by Technology 2019-2029
(USD Billion)

TABLE 4. Global Nano Battery Market estimates & forecasts by Application 2019-2029
(USD Billion)

TABLE 5. Global Nano Battery Market by segment, estimates & forecasts, 2019-2029
(USD Billion)

TABLE 6. Global Nano Battery Market by region, estimates & forecasts, 2019-2029
(USD Billion)

TABLE 7. Global Nano Battery Market by segment, estimates & forecasts, 2019-2029
(USD Billion)

TABLE 8. Global Nano Battery Market by region, estimates & forecasts, 2019-2029
(USD Billion)

TABLE 9. Global Nano Battery Market by segment, estimates & forecasts, 2019-2029
(USD Billion)

TABLE 10. Global Nano Battery Market by region, estimates & forecasts, 2019-2029
(USD Billion)

TABLE 11. Global Nano Battery Market by segment, estimates & forecasts, 2019-2029
(USD Billion)

TABLE 12. Global Nano Battery Market by region, estimates & forecasts, 2019-2029
(USD Billion)

TABLE 13. Global Nano Battery Market by segment, estimates & forecasts, 2019-2029
(USD Billion)

TABLE 14. Global Nano Battery Market by region, estimates & forecasts, 2019-2029
(USD Billion)

TABLE 15. U.S. Nano Battery Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 16. U.S. Nano Battery Market estimates & forecasts by segment 2019-2029
(USD Billion)

TABLE 17. U.S. Nano Battery Market estimates & forecasts by segment 2019-2029
(USD Billion)

TABLE 18. Canada Nano Battery Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 19. Canada Nano Battery Market estimates & forecasts by segment 2019-2029

(USD Billion)

TABLE 20. Canada Nano Battery Market estimates & forecasts by segment 2019-2029

(USD Billion)

TABLE 21. UK Nano Battery Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 22. UK Nano Battery Market estimates & forecasts by segment 2019-2029

(USD Billion)

TABLE 23. UK Nano Battery Market estimates & forecasts by segment 2019-2029

(USD Billion)

TABLE 24. Germany Nano Battery Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 25. Germany Nano Battery Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 26. Germany Nano Battery Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 27. France Nano Battery Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 28. France Nano Battery Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 29. France Nano Battery Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 30. Italy Nano Battery Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 31. Italy Nano Battery Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 32. Italy Nano Battery Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 33. Spain Nano Battery Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 34. Spain Nano Battery Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 35. Spain Nano Battery Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 36. RoE Nano Battery Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 37. RoE Nano Battery Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 38. RoE Nano Battery Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 39. China Nano Battery Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 40. China Nano Battery Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 41. China Nano Battery Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 42. India Nano Battery Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 43. India Nano Battery Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 44. India Nano Battery Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 45. Japan Nano Battery Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 46. Japan Nano Battery Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 47. Japan Nano Battery Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 48. South Korea Nano Battery Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 49. South Korea Nano Battery Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 50. South Korea Nano Battery Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 51. Australia Nano Battery Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 52. Australia Nano Battery Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 53. Australia Nano Battery Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 54. RoAPAC Nano Battery Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 55. RoAPAC Nano Battery Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 56. RoAPAC Nano Battery Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 57. Brazil Nano Battery Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 58. Brazil Nano Battery Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 59. Brazil Nano Battery Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 60. Mexico Nano Battery Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 61. Mexico Nano Battery Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 62. Mexico Nano Battery Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 63. RoLA Nano Battery Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 64. RoLA Nano Battery Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 65. RoLA Nano Battery Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 66. Row Nano Battery Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 67. Row Nano Battery Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 68. Row Nano Battery Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 69. List of secondary sources, used in the study of global Nano Battery Market

TABLE 70. List of primary sources, used in the study of global Nano Battery Market

TABLE 71. Years considered for the study

TABLE 72. Exchange rates considered

List of tables and figures and dummy in nature, final lists may vary in the final deliverable

List Of Figures

LIST OF FIGURES

- FIG 1. Global Nano Battery Market, research methodology
 - FIG 2. Global Nano Battery Market, Market estimation techniques
 - FIG 3. Global Market size estimates & forecast methods
 - FIG 4. Global Nano Battery Market, key trends 2021
 - FIG 5. Global Nano Battery Market, growth prospects 2022-2029
 - FIG 6. Global Nano Battery Market, porters 5 force model
 - FIG 7. Global Nano Battery Market, pest analysis
 - FIG 8. Global Nano Battery Market, value chain analysis
 - FIG 9. Global Nano Battery Market by segment, 2019 & 2029 (USD Billion)
 - FIG 10. Global Nano Battery Market by segment, 2019 & 2029 (USD Billion)
 - FIG 11. Global Nano Battery Market by segment, 2019 & 2029 (USD Billion)
 - FIG 12. Global Nano Battery Market by segment, 2019 & 2029 (USD Billion)
 - FIG 13. Global Nano Battery Market by segment, 2019 & 2029 (USD Billion)
 - FIG 14. Global Nano Battery Market, regional snapshot 2019 & 2029
 - FIG 15. North America Nano Battery Market 2019 & 2029 (USD Billion)
 - FIG 16. Europe Nano Battery Market 2019 & 2029 (USD Billion)
 - FIG 17. Asia Pacific Nano Battery Market 2019 & 2029 (USD Billion)
 - FIG 18. Latin America Nano Battery Market 2019 & 2029 (USD Billion)
 - FIG 19. Global Nano Battery Market, company Market share analysis (2021)
- List of tables and figures and dummy in nature, final lists may vary in the final deliverable

I would like to order

Product name: Global Nano Battery Market Size study & Forecast, by Technology (Nano Phosphate, Nano Pore, Lithium-ion), by Application (Consumer Electronics, Military, Power Tools & Industrial, Renewables & Grid Energy, Transport, Others) and Regional Analysis, 2022-2029

Product link: <https://marketpublishers.com/r/G964429D7BD1EN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G964429D7BD1EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below
and fax the completed form to +44 20 7900 3970