

India Supercapacitors Market, By End User (Consumer Electronics, Energy, Industrial, Automotive, Others), By Type (Double-Layer Capacitor, Pseudo capacitors, Hybrid Capacitors), By Capacitance (Less Than 1F, 1F to 100F, More than 100F), By Region, Competition, Forecast & Opportunities, 2018-2028.

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Abstracts

India Supercapacitors Market is anticipated to grow at a robust CAGR in the forecast period due to increase in sales of electronic products and automobiles.

Supercapacitors, also known as ultracapacitors, double layer capacitors, or electrochemical capacitors, are a type of energy storage system.

A supercapacitor electrostatically stores potential energy inside itself. High power throughput allows charging and discharging in a fraction of time. Supercapacitors have much higher power density than batteries. This makes them ideal for high energy consumption applications such as powering electric vehicles. They find themselves useful in Wind Turbines, Computers Memory System, and Digital Products. They have a long service life, do not heat much due to internal resistance, and can store and release energy. Supercapacitors can be recharged in seconds and unlike batteries, which rely on internal chemical reactions and therefore quickly deplete, supercapacitors do not degrade over time.

Use in Electric Vehicles propel the India Supercapacitors Market

Supercapacitors have a much higher power density than batteries, so they can transfer

and absorb energy from the load much faster than batteries. In EV applications, this allows EVs to be charged in minutes instead of hours and hence supercapacitors are widely used in EVs. According to India Brand Equity Foundation (IBEF), the government has been launching various schemes for early adoption of EVs in India. Faster Adoption & Manufacturing of (Hybrid &) Electric Vehicles (FAME) was launched in 2015 for promotion and adoption of EVs. In the recently presented Union Budget of 2022-2023, the government extended the scheme until 2024. Under this scheme, USD1.3 billion (Rs. 10,000 crore) were allocated for supporting more than 1 million two-wheelers, three-wheelers, passenger vehicles and buses. In 2021, Indian Government introduced Production Linked Incentive for Advanced Chemistry Cell Battery Storage (PLI-ACC) scheme for boosting India's battery infrastructure by allocating USD2.45 billion (Rs 18,100 crore). Various segments covered by this program include supercapacitors, automatic transmissions, electric power steering, sensors, sunroofs, tire pressure monitoring systems, and collision warning systems. These investments are expected to drive the India Supercapacitors Market during the forecast period.

Electronic Industry is driving the market growth of Supercapacitors

Supercapacitors are used in various electronic devices such as laptop computers, PDAs, GPS, portable media players, hand-held devices, and photovoltaic systems. In 2022, the government has approved a USD 2,357.6 million (Rs. 19,500 crore) Production Linked Incentive (PLI) scheme for photovoltaic (PV) manufacturing. The program is expected to achieve gigawatt (GW) scale production capacity of high efficiency photovoltaic modules. According to India Brand Equity Foundation (IBEF), the Indian appliances and consumer electronics industry is expected to reach USD 21.18 billion (Rs. 1.48 lakh crore) by 2025 more than double what it was in 2021. The government predicts that India's electronics manufacturing sector will reach USD 300 billion (Rs 2.25 crore) by 2024-2025. Moreover, Lenovo, who specializes in manufacturing by the company include desktop computers, laptops, tablet computers, smartphones. It has announced to expand its manufacturing industries across India in various product categories such as PCs, laptops and smartphones. This huge investment and expansion of business across the country in electronic industry is expected to boost the India Supercapacitors Market during the forecast period.

Market Segmentation

India Supercapacitors Market is segmented into end user, type, capacitance, and region. Based on end user, the market is bifurcated into consumer electronics, energy, industrial, automotive, and others. Based on type, the market is further bifurcated into

double-layer capacitor, pseudo capacitors, and hybrid capacitors. Based on capacitance, the market is further bifurcated into less than 1 farad, 1 farad to 100 farad, and more than 100 farad. Based on region, the market is bifurcated into north, south, west and east.

Market player

Major market players in the India Supercapacitors Market are AVX Corporation, Eaton Corporation Plc, Elna Co. Ltd., LS Mtron Ltd., Maxwell Technologies Inc., Murata Manufacturing Co., Ltd., Nippon Chemi-Con Corporation, Godi India Pvt Ltd., Yunasko Ltd., Cap-XX Ltd.

Report Scope:

In this report, India Supercapacitors Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

India Supercapacitors Market, By End User:

Consumer Electronics

Energy

Industrial

Automotive

Others

India Supercapacitors Market, By Type:

Double-Layer Capacitor

Pseudo capacitors

Hybrid Capacitors

India Supercapacitors Market, By Capacitance:

Less Than 1F

1F to 100F

More than 100F

India Supercapacitors Market, By Region:

North India

South India

West India

East India

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the India Supercapacitors Market.

Available Customizations:

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

Company Information

Detailed analysis and profiling of additional market players.

Contents

1. Product Overview
 - 1.1. Market Definition
 - 1.2. Scope of the Market
 - 1.3. Markets Covered
 - 1.4. Years Considered for Study
 - 1.5. Key Market Segmentations

2. RESEARCH METHODOLOGY

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

3. EXECUTIVE SUMMARY

4. IMPACT OF COVID-19 ON INDIA SUPERCAPACITORS MARKET

5. VOICE OF CUSTOMERS

6. INDIA SUPERCAPACITORS MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By End User (Consumer Electronics, Energy, Industrial, Automotive and Others)
 - 6.2.2. By Type (Double-Layer Capacitor, Pseudo capacitors, and Hybrid Capacitors)
 - 6.2.3. By Capacitance (Less Than 1F, 1F to 100F, More than 100F)
 - 6.2.4. By Region
- 6.3. By Company
- 6.4. Market Map

7. NORTH INDIA SUPERCAPACITORS MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By End User

7.2.2. By Type

7.2.3. By Capacitance

8. SOUTH INDIA SUPERCAPACITORS MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By End User

8.2.2. By Type

8.2.3. By Capacitance

9. WEST INDIA SUPERCAPACITORS MARKET OUTLOOK

9.1. Market Size & Forecast

9.1.1. By Value

9.2. Market Share & Forecast

9.2.1. By End User

9.2.2. By Type

9.2.3. By Capacitance

10. EAST INDIA SUPERCAPACITORS MARKET OUTLOOK

10.1. Market Size & Forecast

10.1.1. By Value

10.2. Market Share & Forecast

10.2.1. By End User

10.2.2. By Type

10.2.3. By Capacitance

11. MARKET DYNAMICS

11.1. Drivers

11.2. Challenges

12. MARKET TRENDS & DEVELOPMENTS

13. POLICY & REGULATORY LANDSCAPE

14. INDIA ECONOMIC PROFILE

15. COMPANY PROFILES

15.1. AVX Corporation

- 15.1.1. Business Overview
- 15.1.2. Key Revenue and Financials (If available)
- 15.1.3. Recent Developments
- 15.1.4. Key Personnel
- 15.1.5. Key Product/Services offered

15.2. Eaton Corporation Plc

- 15.2.1. Business Overview
- 15.2.2. Key Revenue and Financials (If available)
- 15.2.3. Recent Developments
- 15.2.4. Key Personnel
- 15.2.5. Key Product/Services Offered

15.3. Elna Co. Ltd.

- 15.3.1. Business Overview
- 15.3.2. Key Revenue and Financials (If available)
- 15.3.3. Recent Developments
- 15.3.4. Key Personnel
- 15.3.5. Key Product/Services Offered

15.4. LS Mtron Ltd.

- 15.4.1. Business Overview
- 15.4.2. Key Revenue and Financials (If available)
- 15.4.3. Recent Developments
- 15.4.4. Key Personnel
- 15.4.5. Key Product/Services Offered

15.5. Maxwell Technologies Inc.

- 15.5.1. Business Overview

- 15.5.2. Key Revenue and Financials (If available)
- 15.5.3. Recent Developments
- 15.5.4. Key Personnel
- 15.5.5. Key Product/Services Offered
- 15.6. Murata Manufacturing Co., Ltd.
 - 15.6.1. Business Overview
 - 15.6.2. Key Revenue and Financials (If available)
 - 15.6.3. Recent Developments
 - 15.6.4. Key Personnel
 - 15.6.5. Key Product/Services Offered
- 15.7. Nippon Chemi-Con Corporation
 - 15.7.1. Business Overview
 - 15.7.2. Key Revenue and Financials (If available)
 - 15.7.3. Recent Developments
 - 15.7.4. Key Personnel
 - 15.7.5. Key Product/Services Offered
- 15.8. Godi India Pvt Ltd.
 - 15.8.1. Business Overview
 - 15.8.2. Key Revenue and Financials (If available)
 - 15.8.3. Recent Developments
 - 15.8.4. Key Personnel
 - 15.8.5. Key Product/Services Offered
- 15.9. Yunasko Ltd
 - 15.9.1. Business Overview
 - 15.9.2. Key Revenue and Financials (If available)
 - 15.9.3. Recent Developments
 - 15.9.4. Key Personnel
 - 15.9.5. Key Product/Services Offered
- 15.10. Cap-XX Ltd.
 - 15.10.1. Business Overview
 - 15.10.2. Key Revenue and Financials (If available)
 - 15.10.3. Recent Developments
 - 15.10.4. Key Personnel
 - 15.10.5. Key Product/Services Offered

16. STRATEGIC RECOMMENDATIONS

17. ABOUT US & DISCLAIMER

(Note: The companies list can be customized based on the client requirements.)

The data given for any year represents the market during the period, i.e., 1st April of the former year to 31st March of the latter year. E.g.: For FY2024E, the data represents the period, from 1st April 2023 to 31st March 2024.

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