

Hybrid Electric Scooter Assembling Business.

Electric Vehicles (EVs) Industry.

Business Opportunities in Electric Two-Wheelers Manufacturing Industry



Introduction

Hybrid electric vehicles (HEVs) combine the benefits of gasoline engines and electric motors and can be configured to meet different objectives such as improved fuel economy, increased power, or additional auxiliary power for electronic devices and power tools. This type of vehicle is considered to have better performance and fuel economy compared to a conventional one.



The advantages of HEVs include:

- **Oil consumption is less than that of conventional vehicles.**
- **Carbon-based emission is lower, which makes HEVs more eco-friendly. This also helps conserve non-renewable resources like petroleum products.**
- **Maintenance costs are lower than those of conventional vehicles.**
- **With the electric motor taking charge of the engine during long travels, more mileage can be achieved with HEVs compared to other types of vehicles.**

Electric scooters are two or three-wheeled vehicles powered by electricity. This power is stored in a rechargeable battery, which drives the functioning of electric motors.

Market Outlook

The global electric scooter and motorcycle market size was \$12,961.8 million in 2016, and is expected to reach \$22,192.0 million by 2025, growing at a CAGR of 6.9% during 2017-2025. The market is predominantly driven by tax concession on eco-friendly vehicles, growing concern for increasing carbon emissions, low maintenance cost of electric two-wheelers, and favorable regulatory environment.

Electric scooters and motorcycles are emerging as the need of hour, as commuters are in demand for solutions that provide innovative travelling experience with long distance coverage backup.



The electric scooters and motorcycles have been categorized into 48V, 24V, 36v and are available in even more voltages like 60V and 72V. The speed of the scooter and motorcycle range from 30 km/hr to 70 km/hr. All electric scooters and motorcycles are provided recharging by plugging into ordinary wall outlets, usually taking about eight hours to charge.

On the basis of product, the electric scooter market has been categorized into scooter and motorcycle. In terms of value, electric scooter held larger market share, accounting for more than 95% share in 2017 and is poised to continue dominating the market in the coming years as well.



Global Electric Scooter and Motorcycle Market

CAGR **7.3%**
(2018–2025)

\$13,864.0 MILLION ← 2025

\$8,483.2 MILLION ← 2025



Geographically, Asia-Pacific accounted for more than 90% of the global electric scooter and motorcycle shipments in 2016. The highest growth in shipment is expected in Europe, during the forecast period; however, the market in North America is also expected to grow at nearly the same rate. The growth of the electric scooters and motorcycles market in Asia-Pacific is due to rapid urbanization and increase in household incomes, which is attracting the consumers to replace their fuel-driven two-wheelers with the electric variant. China, India, Indonesia, Japan and S. Korea are the major electric two-wheeler markets in Asia-Pacific; other major markets in the region include Australia, and Vietnam.



The global electric scooter and motorcycle market is highly fragmented, where top five players accounted for less than 35% revenue. All of the five major players -Yadea Technology Group Co. Ltd., Zhejiang Luyuan Electric Vehicle Co. Ltd., Aima Technology Co. Ltd., Sunra Group, and Dongguan Tailing Electric Vehicle Co. Ltd., are based in China. The other players having good regional presence include Govecs Group, Amper Vehicles, Vmoto Limited, Hero Electric, Energica Motor Company S.p.A., BMW, and Mahindra GeneZe. New product launches and joint ventures have been the key strategies of these major players to expand their presence in this market.

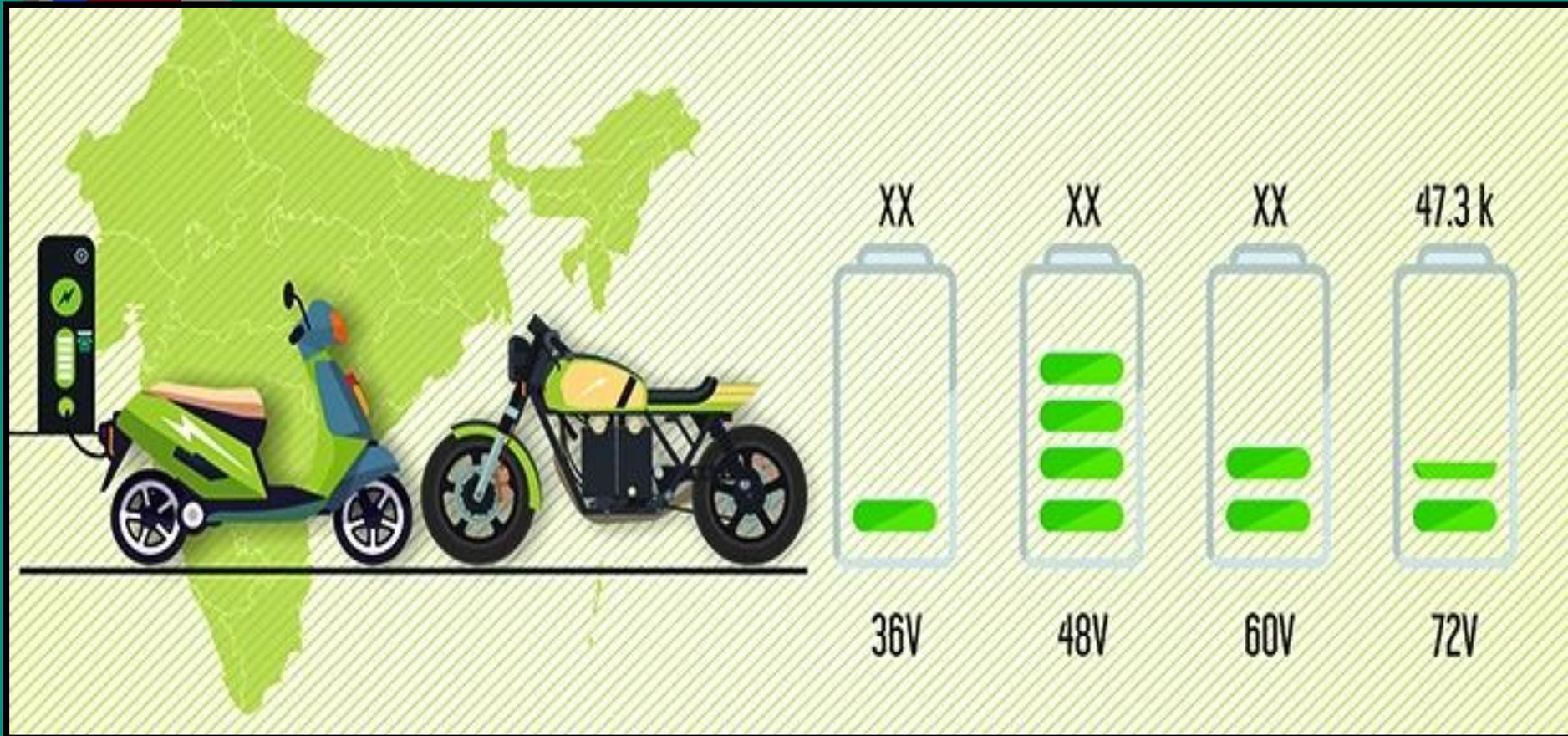


India Electric Scooters and Motorcycles Market Overview

The Indian electric scooters and motorcycles market is projected to reach 757,900 units by 2025, registering a CAGR of 42.9% during the forecast period. The market has witnessed significant growth in the recent past owing to strict norms and regulations pertaining to environmental, government incentives, and rising environmental awareness.



India Electric Scooters and Motorcycle Market, By Voltage, '000 Units (2025)



Based on battery type, the electric scooters and motorcycles market has been categorized into sealed lead acid (SLA) and lithium-ion (Li-ion). Among these, the SLA battery has been accounting for higher volume sales. However, the Li-ion category is poised to grow at a faster rate during the forecast period, owing to its declining prices, and lower environmental risk and longer life span as compared to the SLA category.

Government incentive schemes, growing distributor & dealership network, rising online sales, and increasing affordability of electric two wheelers being provided by leading automobile manufacturers are some of the other key factors that would boost demand for electric two wheelers in India. Moreover, growing research & development activities are likely to result in a wide product portfolio for electric two wheelers, thereby positively influencing the country's electric two wheeler market during the forecast period.

Some of the major companies operating in India electric two wheeler market are Hero Electric Vehicles Pvt. Ltd., Okinawa Autotech Pvt. Ltd., Electrotherm (India) Ltd., Lohia Auto Industries, Avon Cycles Ltd., Ampere Vehicles Pvt Ltd, Tunwal E-Bike India PVT. LTD, NDS Eco Motors Private Limited, Ather Energy Pvt. Ltd., Tork Motors Private Limited, etc. All these companies are well assisted by their key development teams and are strengthening their dealership network to boost their customer reach.



Machinery Photographs



Assembling Line



Material Handling Equipment

Project at a Glance

| COST OF PROJECT | | | | MEANS OF FINANCE | | | |
|---------------------|--------------|---------------|---------------|--------------------|--------------|---------------|---------------|
| Particulars | Existin g | Propose d | Total | Particulars | Existin g | Propose d | Total |
| Land & Site | | | | | | | |
| Development Exp. | 0.00 | 0.00 | 0.00 | Capital | 0.00 | 69.70 | 69.70 |
| Buildings | 0.00 | 0.00 | 0.00 | Share Premium | 0.00 | 0.00 | 0.00 |
| | | | | Other Type Share | | | |
| Plant & Machineries | 0.00 | 95.00 | 95.00 | Capital | 0.00 | 0.00 | 0.00 |
| Motor Vehicles | 0.00 | 6.00 | 6.00 | Reserves & Surplus | 0.00 | 0.00 | 0.00 |
| Office Automation | | | | | | | |
| Equipments | 0.00 | 29.25 | 29.25 | Cash Subsidy | 0.00 | 0.00 | 0.00 |
| Technical Knowhow | | | | Internal Cash | | | |
| Fees & Exp. | 0.00 | 15.00 | 15.00 | Accruals | 0.00 | 0.00 | 0.00 |
| Franchise & Other | | | | Long/Medium Term | | | |
| Deposits | 0.00 | 0.00 | 0.00 | Borrowings | 0.00 | 209.11 | 209.11 |
| Preliminary& Pre- | | | | | | | |
| operative Exp | 0.00 | 2.00 | 2.00 | Debentures / Bonds | 0.00 | 0.00 | 0.00 |
| Provision for | | | | Unsecured | | | |
| Contingencies | 0.00 | 8.50 | 8.50 | Loans/Deposits | 0.00 | 0.00 | 0.00 |
| Margin Money - | | | | | | | |
| Working Capital | 0.00 | 123.06 | 123.06 | | | | |
| TOTAL | 0.00 | 278.81 | 278.81 | TOTAL | 0.00 | 278.81 | 278.81 |

Project at a Glance

| Year | Annualised | | Book Value | Debt | Dividend | Retained Earnings | | Payout | Probable Market Price | P/E Ratio | Yield Price/Book Value |
|------|------------|-------|------------|-------|----------|-------------------|-----------|--------|-----------------------|-----------|------------------------|
| | EPS | CEPS | | | | Per Share | Per Share | | | | |
| 1-2 | 5.64 | 8.69 | 15.64 | 24.00 | 0.00 | 100.00 | 5.64 | 0.00 | 5.64 | 1.00 | 0.00 |
| 2-3 | 9.32 | 11.96 | 24.96 | 18.00 | 0.00 | 100.00 | 9.32 | 0.00 | 9.32 | 1.00 | 0.00 |
| 3-4 | 13.05 | 15.34 | 38.01 | 12.00 | 0.00 | 100.00 | 13.05 | 0.00 | 13.05 | 1.00 | 0.00 |
| 4-5 | 16.54 | 18.53 | 54.55 | 6.00 | 0.00 | 100.00 | 16.54 | 0.00 | 16.54 | 1.00 | 0.00 |
| 5-6 | 19.72 | 21.46 | 74.27 | 0.00 | 0.00 | 100.00 | 19.72 | 0.00 | 19.72 | 1.00 | 0.00 |



Project at a Glance

| Year | D. S. C. R. | | | Debt / - Deposits Debt | Equity as- Equity | Total Net Worth | Return on Net Worth | Profitability Ratio | | | | | Assets Turnover Ratio | Current Ratio |
|---------|-------------------|------------|---------|------------------------|-------------------|-----------------|---------------------|---------------------|-------|-------|------------------|-----------|-----------------------|---------------|
| | Individual | Cumulative | Overall | | | | | GPM | PBT | PAT | Net Contribution | P/V Ratio | | |
| Initial | (Number of times) | | | (Number of times) | | % | % | % | % | % | | % | | |
| 1-2 | 1.29 | 1.29 | | 3.00 | 3.00 | 9.36 | | 4.24% | 0.93% | 0.66% | 509.31 | 8.50% | 5.37 | 1.11 |
| 2-3 | 1.69 | 1.48 | | 0.72 | 0.72 | 6.37 | | 4.54% | 1.41% | 0.93% | 581.69 | 8.32% | 5.50 | 1.14 |
| 3-4 | 2.18 | 1.70 | 2.17 | 0.32 | 0.32 | 4.56 | | 4.73% | 1.77% | 1.14% | 664.49 | 8.31% | 5.47 | 1.18 |
| 4-5 | 2.75 | 1.93 | | 0.11 | 0.11 | 3.43 | | 4.86% | 2.02% | 1.28% | 747.29 | 8.31% | 5.36 | 1.23 |
| 5-6 | 3.40 | 2.17 | | 0.00 | 0.00 | 2.71 | | 4.94% | 2.17% | 1.38% | 830.09 | 8.31% | 5.22 | 1.32 |



Project at a Glance

BEP

| | |
|---|------------------|
| BEP - Maximum Utilisation Year | 5 |
| Cash BEP (% of Installed Capacity) | 72.11% |
| Total BEP (% of Installed Capacity) | 73.57% |
| IRR, PAYBACK and FACR | |
| Internal Rate of Return .. (In %age) | 33.45% |
| Payback Period of the Project is (In Years) | 2 Years 3 Months |
| Fixed Assets Coverage Ratio (No. of times) | 139.057 |

Major Queries/Questions Answered in the Report?

- 1. What is Hybrid Electric Scooter Assembling industry ?**
- 2. How has the Hybrid Electric Scooter Assembling industry performed so far and how will it perform in the coming years ?**
- 3. What is the Project Feasibility of Hybrid Electric Scooter Assembling Plant ?**
- 4. What are the requirements of Working Capital for setting up Hybrid Electric Scooter Assembling plant ?**

- 5. What is the structure of the Hybrid Electric Scooter Assembling Business and who are the key/major players ?**
- 6. What is the total project cost for setting up Hybrid Electric Scooter Assembling Business?**
- 7. What are the operating costs for setting up Hybrid Electric Scooter Assembling plant ?**
- 8. What are the machinery and equipment requirements for setting up Hybrid Electric Scooter Assembling plant ?**

- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Hybrid Electric Scooter Assembling plant ?**
- 10. What are the requirements of raw material for setting up Hybrid Electric Scooter Assembling plant ?**
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up Hybrid Electric Scooter Assembling Business?**
- 12. What is the Manufacturing Process of Hybrid Electric Scooter?**

- 13. What is the total size of land required for setting up Hybrid Electric Scooter Assembling plant ?**
- 14. What will be the income and expenditures for Hybrid Electric Scooter Assembling Business?**
- 15. What are the Projected Balance Sheets of Hybrid Electric Scooter Assembling plant ?**
- 16. What are the requirement of utilities and overheads for setting up Hybrid Electric Scooter Assembling plant?**
- 17. What is the Built up Area Requirement and cost for setting up Hybrid Electric Scooter Assembling Business?**

18. What are the Personnel (Manpower) Requirements for setting up Hybrid Electric Scooter Assembling Business?

19. What is the Plant Layout for setting up Hybrid Electric Scooter Assembling Business?

20. What is the time required to break-even of Hybrid Electric Scooter Assembling Business?

21. What is the Break-Even Analysis of Hybrid Electric Scooter Assembling plant?

22. What are the Project financials of Hybrid Electric Scooter Assembling Business?

- 23. What are the Profitability Ratios of Hybrid Electric Scooter Assembling Project?**
- 24. What is the Sensitivity Analysis-Price/Volume of Hybrid Electric Scooter Assembling plant?**
- 25. What are the Projected Pay-Back Period and IRR of Hybrid Electric Scooter Assembling plant?**
- 26. What is the Process Flow Sheet Diagram of Hybrid Electric Scooter Assembling project?**

- 27. What are the Market Opportunities for setting up Hybrid Electric Scooter Assembling plant?**
- 28. What is the Market Study and Assessment for setting up Hybrid Electric Scooter Assembling Business?**

Table of Contents of the Project Report



1. PROJECT LOCATION

- 1.1. DISTRICT PROFILE & GEOTECHNICAL SITE CHARACTERIZATION
 - 1.1.1. General
 - 1.1.2. Physical Characteristics
 - 1.1.3. Languages and Culture
 - 1.1.4. Climate & Rainfall
 - 1.1.5. Map
 - 1.1.6. Economy & Industry
 - 1.1.7. Transportation and Communications

2. INTRODUCTION

3. ADVANTAGES & DISADVANTAGES

4. BENEFITS OF PHEVS

5. CONGREGATIONS' OF PHEVS

6. PARTS OF ELECTRIC PHE SCOOTER

7. USES AND APPLICATIONS

8. B.I.S. SPECIFICATIONS

- 8.1. IS 10043~AUTOMOTIVE VEHICLES- SYMBOLS FOR CONTROLS, INDICATORS AND TELLTALES FOR SCOOTERS AND MOTORCYCLES
- 8.2. IS 10063~DIMENSIONS OF END FITTINGS OF REAR SHOCK ABSORBERS FOR SCOOTERS AND MOTORCYCLES



8.3. IS 10413~METHOD OF MEASUREMENT OF MAXIMUM SPEED OF SCOOTERS AND MOTORCYCLES

9. AUTOMOTIVE INDUSTRY STANDARDS (AIS)

10. MARKET SURVEY

11. EXPORT & IMPORT: ALL COUNTRIES

11.1. EXPORT: ALL COUNTRIES

11.2. IMPORT: ALL COUNTRIES

12. FINANCIALS & COMPARISON OF MAJOR INDIAN PLAYERS/COMPANIES

12.1. ABOUT FINANCIAL STATEMENTS OF CMIE DATABASE

12.2. PROFITS & APPROPRIATIONS

12.3. TOTAL LIABILITIES

12.4. TOTAL ASSETS

12.5. NET CASH FLOW FROM OPERATING ACTIVITIES

12.6. SECTION – I

12.6.1. Name of Company with Contact Details

12.6.2. Name of Director(S)

12.6.3. Credit Ratings

12.6.4. Plant Capacity

12.6.5. Location of Plant

12.6.6. Name of Raw Material(S) Consumed With Quantity & Cost

12.7. SECTION – II

12.6.6. Name of Raw Material(S) Consumed With Quantity & Cost

12.7. SECTION – II

12.7.3. Cost as % Ge of Sales

- 12.7.4. Forex Transactions
- 12.7.5. Growth in Assets & Liabilities
- 12.7.6. Growth in Income & Expenditure
- 12.7.7. Income & Expenditure
- 12.7.8. Liabilities
- 12.7.9. Liquidity Ratios
- 12.7.10. Profitability Ratio
- 12.7.11. Profits
- 12.7.12. Return Ratios
- 12.7.13. Structure of Assets & Liabilities (%)
- 12.7.14. Working Capital & Turnover Ratios

13. COMPANY PROFILE OF MAJOR PLAYERS

14. EXPORT & IMPORT STATISTICS OF INDIA

- 14.1. EXPORT STATISTICS FOR ELECTRIC SCOOTER
- 14.2. IMPORT STATISTICS FOR ELECTRIC SCOOTER

15. PRESENT MANUFACTURERS

16. MAIN RAW MATERIAL DETAILS

17. ASSEMBLY PROCESS OF HYBRID SCOOTER

18. PROCESS FLOW DIAGRAM

19. LICENSING REQUIREMENTS

20. SUPPLIERS OF PLANT & MACHINERY

21. SUPPLIERS OF RAW MATERIAL

22. PHOTOGRAPHS/IMAGES FOR REFERENCE

- 22.1. MACHINERY PHOTOGRAPHS
- 22.2. RAW MATERIAL PHOTOGRAPHS
- 22.3. PRODUCT PHOTOGRAPHS

Project Financials

| Project at a Glance | Annexure |
|--|-----------------|
| • Assumptions for Profitability workings | 1 |
| • Plant Economics..... | 2 |
| • Production Schedule..... | 3 |
| • Land & Building..... | 4 |
| Factory Land & Building | |
| Site Development Expenses | |

- **Plant & Machinery.....5**
 - Indigenous Machineries**
 - Other Machineries (Miscellaneous, Laboratory etc.)**

- **Other Fixed Assets.....6**
 - Furniture & Fixtures**
 - Pre-operative and Preliminary Expenses**
 - Technical Knowhow**
 - Provision of Contingencies**

- **Working Capital Requirement Per Month.....7**
 - Raw Material**
 - Packing Material**
 - Lab & ETP Chemical Cost**
 - Consumable Store**

- **Overheads Required Per Month and Per Annum.....8**
 - Utilities & Overheads (Power, Water and Fuel Expenses etc.)**
 - Royalty and Other Charges**
 - Selling and Distribution Expenses**

- **Salary and Wages9**

- **Turnover Per Annum10**

- **Share Capital.....11**
 - Equity Capital**
 - Preference Share Capital**

- **Annexure 1 :: Cost of Project and Means of Finance**
- **Annexure 2 :: Profitability and Net Cash Accruals**
 - **Revenue/Income/Realisation**
 - **Expenses/Cost of Products/Services/Items**
 - **Gross Profit**
 - **Financial Charges**
 - **Total Cost of Sales**
 - **Net Profit After Taxes**
 - **Net Cash Accruals**

• **Annexure 3 :: Assessment of Working Capital requirements**

- **Current Assets**
- **Gross Working Capital**
- **Current Liabilities**
- **Net Working Capital**
- **Working Note for Calculation of Work-in-process**

• **Annexure 4 :: Sources and Disposition of Funds**

- **Annexure 5 :: Projected Balance Sheets**

- ROI (Average of Fixed Assets)
- RONW (Average of Share Capital)
- ROI (Average of Total Assets)

- **Annexure 6 :: Profitability Ratios**

- D.S.C.R
- Earnings Per Share (EPS)
- Debt Equity Ratio

• **Annexure 7 :: Break-Even Analysis**

- **Variable Cost & Expenses**
- **Semi-Variable/Semi-Fixed Expenses**
- **Profit Volume Ratio (PVR)**
- **Fixed Expenses / Cost**
- **B.E.P**

- **Annexure 8 to 11 :: Sensitivity Analysis-Price/Volume**

- **Resultant N.P.B.T**
- **Resultant D.S.C.R**
- **Resultant PV Ratio**
- **Resultant DER**
- **Resultant ROI**
- **Resultant BEP**

- **Annexure 12 :: Shareholding Pattern and Stake Status**

- **Equity Capital**

- **Preference Share Capital**

- **Annexure 13 :: Quantitative Details-Output/Sales/Stocks**

- **Determined Capacity P.A of Products/Services**

- **Achievable Efficiency/Yield % of Products/Services/Items**

- **Net Usable Load/Capacity of Products/Services/Items**

- **Expected Sales/ Revenue/ Income of Products/ Services/ Items**

- **Annexure 14** :: **Product wise Domestic Sales Realisation**
- **Annexure 15** :: **Total Raw Material Cost**
- **Annexure 16** :: **Raw Material Cost per unit**
- **Annexure 17** :: **Total Lab & ETP Chemical Cost**
- **Annexure 18** :: **Consumables, Store etc.**
- **Annexure 19** :: **Packing Material Cost**
- **Annexure 20** :: **Packing Material Cost Per Unit**

- **Annexure 21** :: **Employees Expenses**
- **Annexure 22** :: **Fuel Expenses**
- **Annexure 23** :: **Power/Electricity Expenses**
- **Annexure 24** :: **Royalty & Other Charges**
- **Annexure 25** :: **Repairs & Maintenance Expenses**
- **Annexure 26** :: **Other Manufacturing Expenses**
- **Annexure 27** :: **Administration Expenses**
- **Annexure 28** :: **Selling Expenses**

- **Annexure 29 :: Depreciation Charges – as per Books (Total)**
- **Annexure 30 :: Depreciation Charges – as per Books (P & M)**
- **Annexure 31 :: Depreciation Charges - as per IT Act WDV (Total)**
- **Annexure 32 :: Depreciation Charges - as per IT Act WDV (P & M)**
- **Annexure 33 :: Interest and Repayment - Term Loans**
- **Annexure 34 :: Tax on Profits**
- **Annexure 35 :: Projected Pay-Back Period and IRR**

Reasons for Buying our Report:

- **This report helps you to identify a profitable project for investing or diversifying into by throwing light to crucial areas like industry size, market potential of the product and reasons for investing in the product**
- **This report provides vital information on the product like it's characteristics and segmentation**
- **This report helps you market and place the product correctly by identifying the target customer group of the product**

- **This report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials**
- **The report provides a glimpse of government regulations applicable on the industry**
- **The report provides forecasts of key parameters which helps to anticipate the industry performance and make sound business decisions**

Our Approach:

- **Our research reports broadly cover Indian markets, present analysis, outlook and forecast for a period of five years.**
- **The market forecasts are developed on the basis of secondary research and are cross-validated through interactions with the industry players**
- **We use reliable sources of information and databases. And information from such sources is processed by us and included in the report**

Scope of the Report

The report titled “Market Survey cum Detailed Techno Economic Feasibility Report on Hybrid Electric Scooter Assembling .” provides an insight into Hybrid Electric Scooter Assembling market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Hybrid Electric Scooter Assembling project. The report assesses the market sizing and growth of the Indian Hybrid Electric Scooter Assembling Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line. And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:

- **Good Present/Future Demand**
- **Export-Import Market Potential**
- **Raw Material & Manpower Availability**
- **Project Costs and Payback Period**

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in the Hybrid Electric Scooter Assembling sector in India along with its business prospects. Through this report we have identified Hybrid Electric Scooter Assembling project as a lucrative investment avenue.

Tags

#Hybrid_Electric_Scooter_Assembling, #Electric_Scooter_Project_Report_Pdf, #Hybrid_Electric_Vehicle_(HEV), Two Wheeler Hybrid Vehicle, Hybrid & Electric Scooter, Hybrid Vehicle (Scooter), Electric Scooter Assembly, Electric Scooters in India, #Production_of_Hybrid_Scooter, #How_to_Start_an_Electric_Scooter_Business_in_India? Starting an Electric Scooter Industry, Electric Scooter in India, Electric Scooter Body Manufacture in India, #Production_of_Electric_Vehicles_(Evs), How to Make an Electric Scooter, Starting an Electric Scooter Business, Electric Scooters Industry, Project Report on Hybrid Electric Scooter Assembling Industry, Detailed Project Report on Hybrid Electric Scooter Assembling, #Project_Report_on_Hybrid_Electric_Scooter_Assembling, Pre-Investment Feasibility Study on Hybrid Electric Scooter Assembling, Techno-Economic feasibility study on Hybrid Electric Scooter Assembling, Feasibility report on Hybrid Electric Scooter Assembling, Free Project Profile on Hybrid Electric Scooter Assembling, Project profile on Hybrid Electric Scooter Assembling, Download free project profile on Hybrid Electric Scooter Assembling, Electric Two Wheelers Business Opportunity in India, Electric Scooter Business, Electric Vehicle Industry in India, Hybrid & Electric Vehicle Manufacturing Industry, Manufacturing of Electric Vehicles, Hybrid Electric Vehicles and Electric Vehicles, #Hybrid_Electric_Vehicles_Production, Electric Vehicles (E-Vehicles) Business Opportunity

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NPCS is manned by engineers, planners, specialists, financial experts, economic analysts and design specialists with extensive experience in the related industries.

Our Market Survey cum Detailed Techno Economic Feasibility Report provides an insight of market in India. The report assesses the market sizing and growth of the Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line.



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The detailed project report covers all aspect of business, from analyzing the market, confirming availability of various necessities such as Manufacturing Plant, Detailed Project Report, Profile, Business Plan, Industry Trends, Market Research, Survey, Manufacturing Process, Machinery, Raw Materials, Feasibility Study, Investment Opportunities, Cost and Revenue, Plant Economics, Production Schedule,



Working Capital Requirement, uses and applications, Plant Layout, Project Financials, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis. The DPR (Detailed Project Report) is formulated by highly accomplished and experienced consultants and the market research and analysis are supported by a panel of experts and digitalized data bank.

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in India along with its business prospects.....[Read more](#)



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- *We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad*



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- *Turnkey Project Consultancy/Solutions*
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How are we different ?

- *We have two decades long experience in project consultancy and market research field*
- *We empower our customers with the prerequisite know-how to take sound business decisions*
- *We help catalyze business growth by providing distinctive and profound market analysis*
- *We serve a wide array of customers , from individual entrepreneurs to Corporations and Foreign Investors*
- *We use authentic & reliable sources to ensure business precision*



Our Approach

Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation

Contact us

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