



HOW TO START RECYCLING
BUSINESS OF

LITHIUM ION BATTERY

WATCH NOW 

BATTERY RECYCLING BUSINESS



AN ISO 9001 : 2015 CERTIFIED COMPANY

Introduction

A **lithium ion battery** (also known as a **Li-ion battery** or **LIB**) is a type of rechargeable battery in which lithium ions move from the negative electrode to the positive electrode during discharge and back when charging.

➤ Visit this Page for More Information: [Start a Business in E-Waste Recycling Industry](#)



Li-ion batteries use an intercalated lithium compound as one electrode material, compared to the metallic lithium used in a non-rechargeable lithium battery. The electrolyte, which allows for ionic movement,...

- *Related Feasibility Study Reports: Battery Projects, Automobile Batteries, Lead Acid Battery, Lithium Battery, Lithium-Ion (Li-Ion) Battery, Maintenance Free Rechargeable Battery, Battery Recycling, Battery Plate, Battery Separator*





...and the two electrodes are the constituent components of a lithium-ion battery cell. Besides portable electronic devices, another field in which Li-ion batteries are growing rapidly is electric vehicles.

➤ ***Read our Books Here: [Waste Management, Waste Disposal and Recycling Industry](#)***

What is Recycling of Lithium Ion Battery?



The recycling business is centred on the reprocessing of spent lithium ion batteries into fresh cells. This procedure often entails deconstructing lithium ion batteries and separating all of their various components in order to reuse them in a fresh cell.

Lithium carbonate is the main component of these batteries, and it may be converted back into a form that can be used in fresh cells. Other valuable materials, on the other hand, are frequently removed from old cells during reconditioning.

➤ **Business Plan: Recycling of Lithium Ion Battery Business**

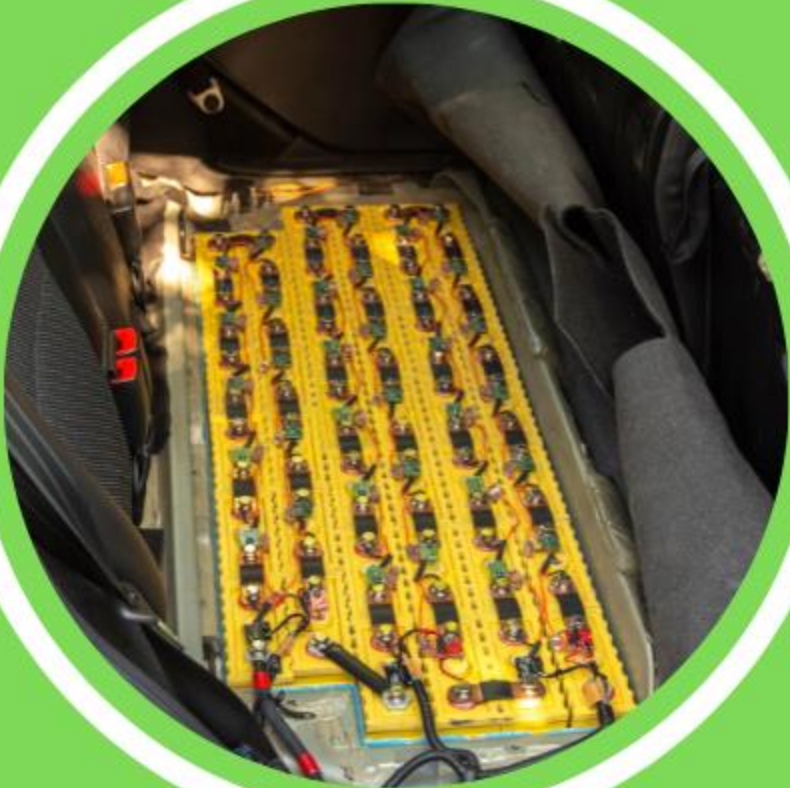


Copper cathodes, nickel foam electrolytes, aluminium foils, and even polymers are among them. Many of these elements are subsequently sold independently to other companies for use in various applications; for example,



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...electronics manufacturers frequently buy high purity aluminium straight from third-party battery recyclers because it is a less expensive choice than buying raw bauxite or scrap metal.



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The Recycling Process of Lithium Ion Battery

The recycling process for [lithium ion batteries](#) consists of several steps. First, all damaged or defective batteries are removed from circulation by separating them from functioning batteries. Next, all materials in each battery must be identified, which often requires a combination of...



...optical microscopy and inductively coupled plasma spectrometry. Most recovered cathodes can be separated into cobalt (which is used to make new electrodes), copper, iron and nickel. Separating these metals is relatively easy; they have different densities than other parts of the battery so they float to different parts of a mixture as it's heated up to melting point.



This liquid metal alloy is then poured into molds that look like small plates – usually with holes punched through their centers – and solidified into shapes that will fit inside fresh batteries. Lastly, lithium needs to be reclaimed: You mix it with mineral acids— hydrochloric acid or sulfuric acid —and electrolyze it. The electrolysis pulls out pure lithium that sell back to manufacturers.



Machinery Photographs

Belt Conveyor



Double Shaft Shredder



Material Collection System



Activated Carbon Absorption System - 1200



Benefits of Starting Lithium Ion Battery Recycling Business

The business is not regulated by any government agency, but it still serves a valuable purpose: curbing battery waste and saving money for both consumers and businesses. Many people ask about starting a business to recycle lithium ion batteries because it's an untapped market.





As more products use lithium-ion batteries, more discarded batteries are expected to become available. Not only can you make some money from recycling them, but you can also help keep potentially harmful materials out of landfills. The cost of lithium ion batteries has dropped considerably over time, and as a result, they are now widely used in consumer products.

*A typical cell phone can contain four lithium ion batteries, while a laptop may contain two or more. While these batteries still remain effective for years, many consumers recycle them when they become obsolete or damaged. You can take advantage of their growing popularity by starting your own recycling business for discarded **lithium ion cells** and packs.*





And since they are relatively simple to manufacture, replacement parts should always be available if you have any difficulties operating your new enterprise.

Cost of starting Lithium Ion Battery Recycling Business: Since lithium ion batteries are common commodities and most people simply throw them away, you will find little competition for your recycling operation.

In fact, even major corporations that use lithium ion cells in their machines (such as major manufacturers) often refuse to accept returns from consumers—or charge fees so high that it is not feasible for an average person to ship hazardous waste back to a manufacturer. With no competition, you won't need to worry about managing inventory, either.



Lithium-Ion Battery Recycling Market

The global lithium-ion battery recycling market size is expected to reach \$38.21billion by 2030, registering a CAGR of 36.0% from 2021 to 2030. As lithium-ion batteries replace other battery types, a new type of waste stream has been created. This has given rise to an industry that recycles these components and extracts metals from them to be used in other products.



After years of rising prices and shortages, lithium ion battery recycling is gaining momentum. The USGS estimated that a little over 350 million pounds were recycled in 2016. That's up significantly from 2003 when less than 50 million pounds were recycled. As we move forward, demand for lithium will grow and with it recycling rates should increase as well.



Because of its incredible efficiency, batteries are projected to make up one-third of all electricity consumed by 2050—three times what they did in 2010. They are also expected to be installed at twice their current rate, which makes recycling an important part of our future energy landscape. This massive growth isn't limited to electric vehicles or solar installations; mobile devices, computers and home electronics also require large quantities of batteries; all these products can be recycled safely and profitably through responsible channels—provided that these channels exist!

Project at a Glance

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	30.00	30.00	Capital	0.00	105.40	105.40
Buildings	0.00	77.40	77.40	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	199.41	199.41	Other Type Share Capital	0.00	0.00	0.00
Motor Vehicles	0.00	8.00	8.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	40.00	40.00	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	15.00	15.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	316.21	316.21
Preliminary& Pre-operative Exp	0.00	2.00	2.00	Debentures / Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	18.94	18.94	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	30.86	30.86				
TOTAL	0.00	421.61	421.61	TOTAL	0.00	421.61	421.61

Year	Annualised		Book Value	Debt	Dividend	Retained Earnings		Payout	Probable Market Price	P/E Ratio	Yield Price/Book Value
	EPS	CEPS				Per Share					
						%		%		No.of Times	
1-2	5.53	10.00	15.53	24.00	0.00	100.00	5.53	0.00	5.53	1.00	0.00
2-3	8.22	12.10	23.75	18.00	0.00	100.00	8.22	0.00	8.22	1.00	0.00
3-4	10.91	14.28	34.66	12.00	0.00	100.00	10.91	0.00	10.91	1.00	0.00
4-5	13.53	16.46	48.19	6.00	0.00	100.00	13.53	0.00	13.53	1.00	0.00
5-6	16.05	18.60	64.24	0.00	0.00	100.00	16.05	0.00	16.05	1.00	0.00

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 Contribu- tion	P/V Ratio		
	(Number of times)			(Number of times)	%	%	%	%	%	%	%			
Initial				3.00	3.00									
1-2	1.46	1.46		1.55	1.55	2.58		10.63%	5.81%	4.27%	356.44	26.11%	2.38	1.04
2-3	1.75	1.60		0.76	0.76	1.54		12.17%	8.13%	5.44%	412.93	25.93%	2.55	1.29
3-4	2.09	1.75	2.09	0.35	0.35	0.96		13.20%	9.77%	6.32%	471.85	25.92%	2.58	1.56
4-5	2.50	1.92		0.12	0.12	0.62		13.91%	10.93%	6.96%	530.78	25.92%	2.52	1.87
5-6	2.98	2.09		0.00	0.00	0.41		14.38%	11.75%	7.44%	589.69	25.92%	2.40	2.68

BEP**BEP - Maximum Utilisation Year****5****Cash BEP (% of Installed Capacity)****50.03%****Total BEP (% of Installed Capacity)****54.58%****IRR, PAYBACK and FACR****Internal Rate of Return .. (In %age)****26.97%****Payback Period of the Project is (In Years)****2 Years 3 Months****Fixed Assets Coverage Ratio (No. of times)****10.592**

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

5. What is the structure of the Recycling of Lithium Ion Battery Business and who are the key/major players ?
6. What is the total project cost for setting up Recycling of Lithium Ion Battery Business?
7. What are the operating costs for setting up Recycling of Lithium Ion Battery plant ?
8. What are the machinery and equipment requirements for setting up Recycling of Lithium Ion Battery plant ?

9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Recycling of Lithium Ion Battery plant ?

10. What are the requirements of raw material for setting up Recycling of Lithium Ion Battery plant ?

11. Who are the Suppliers and Manufacturers of Raw materials for setting up Recycling of Lithium Ion Battery Business?

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TAGS

#DetailedProjectReport

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#EntrepreneurIndia

#NPCSProjects

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#LithiumionbatteryRecycling #Ewaste #Ewasterecycling

#BatteryRecycling #BatteryRecyclingBusiness

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- ✓ **The report provides forecasts of key parameters which helps anticipate the industry performance and make sound business decisions**

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- NRI's
- Foreign Investors
- Non-profit Organizations, NBFC's
- Educational Institutions
- Embassies & Consulates
- Consultancies
- Industry / trade associations

Our Approach

Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation

Sectors We Cover

- Ayurvedic And Herbal Medicines, Herbal Cosmetics
- Alcoholic And Non Alcoholic Beverages, Drinks
- Adhesives, Industrial Adhesive, Sealants, Glues, Gum & Resin
- Activated Carbon & Activated Charcoal
- Aluminium And Aluminium Extrusion Profiles & Sections,
- Bio-fertilizers And Biotechnology
- Breakfast Snacks And Cereal Food
- Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling
- Bamboo And Cane Based Projects
- Building Materials And Construction Projects
- Biodegradable & Bioplastic Based Projects
- Chemicals (Organic And Inorganic)
- Confectionery, Bakery/Baking And Other Food
- Cereal Processing
- Coconut And Coconut Based Products
- Cold Storage For Fruits & Vegetables
- Coal & Coal Byproduct
- Copper & Copper Based Projects

Sectors We Cover *Cont...*

- Dairy/Milk Processing
- Disinfectants, Pesticides, Insecticides, Mosquito Repellents,
- Electrical, Electronic And Computer based Projects
- Essential Oils, Oils & Fats And Allied
- Engineering Goods
- Fibre Glass & Float Glass
- Fast Moving Consumer Goods
- Food, Bakery, Agro Processing
- Fruits & Vegetables Processing
- Ferro Alloys Based Projects
- Fertilizers & Biofertilizers
- Ginger & Ginger Based Projects
- Herbs And Medicinal Cultivation And Jatropha (Biofuel)
- Hotel & Hospitality Projects
- Hospital Based Projects
- Herbal Based Projects
- Inks, Stationery And Export Industries
- Infrastructure Projects
- Jute & Jute Based Products

Sectors We Cover *Cont...*

- Leather And Leather Based Projects
- Leisure & Entertainment Based Projects
- Livestock Farming Of Birds & Animals
- Minerals And Minerals
- Maize Processing(Wet Milling) & Maize Based Projects
- Medical Plastics, Disposables Plastic Syringe, Blood Bags
- Organic Farming, Neem Products Etc.
- Paints, Pigments, Varnish & Lacquer
- Paper And Paper Board, Paper Recycling Projects
- Printing Inks
- Packaging Based Projects
- Perfumes, Cosmetics And Flavours
- Power Generation Based Projects & Renewable Energy Based Projects
- Pharmaceuticals And Drugs
- Plantations, Farming And Cultivations
- Plastic Film, Plastic Waste And Plastic Compounds
- Plastic, PVC, PET, HDPE, LDPE Etc.

Sectors We Cover *Cont...*

- Potato And Potato Based Projects
- Printing And Packaging
- Real Estate, Leisure And Hospitality
- Rubber And Rubber Products
- Soaps And Detergents
- Stationary Products
- Spices And Snacks Food
- Steel & Steel Products
- Textile Auxiliary And Chemicals
- Township & Residential Complex
- Textiles And Readymade Garments
- Waste Management & Recycling
- Wood & Wood Products
- Water Industry(Packaged Drinking Water & Mineral Water)
- Wire & Cable

Objective

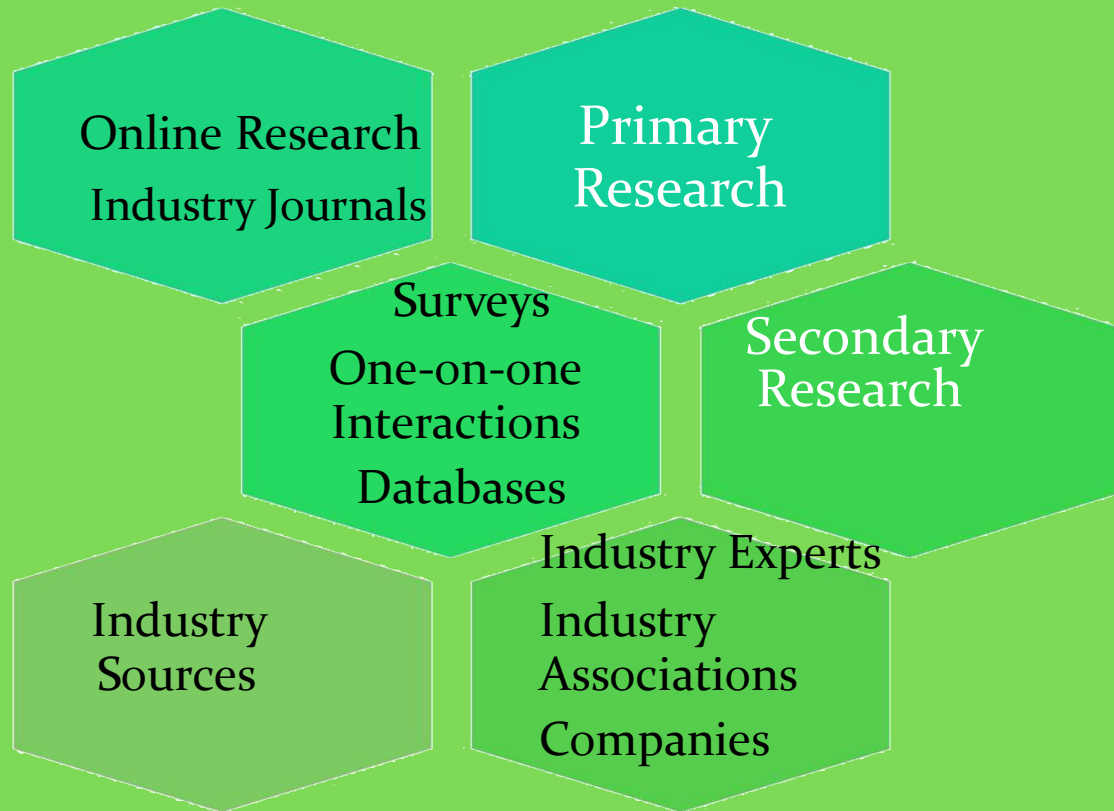
- To get a detailed scenario of the industry along with its structure and classification
- To provide a comprehensive analysis of the industry by covering aspects like:
 - Growth drivers of the industry
 - Latest market trends
 - Insights on regulatory framework
 - SWOT Analysis
 - Demand-Supply Situation
 - Foreign Trade
 - Porters 5 Forces Analysis
- To provide forecasts of key parameters which helps to anticipate the industry performance
- To help chart growth trajectory of a business by detailing the factors that affect the industry growth
- To help an entrepreneur/manager in keeping abreast with the changes in the industry
- To evaluate the competitive landscape of the industry by detailing:
 - Key players with their market shares
 - Financial comparison of present players

Clientele

- Venturist/Capitalists
- Entrepreneur/Companies
- Industry Researchers
- Investment Funds
- Foreign Investors, NRI's
- Project Consultants/Chartered Accountants
- Banks
- Corporates

[Click here for list](#)

Data Sources



Scope & Coverage



Our Team

∞ Our research team comprises of experts from various financial fields:

∞ MBA's

∞ Industry Researchers

∞ Financial Planners

∞ Research veterans with decades of experience

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A close-up photograph of a hand holding a blue fountain pen, writing the words "Thank you!" in a cursive script on a white surface. The pen is positioned at the end of the word, and the ink is a vibrant blue. The background is a soft, out-of-focus white.

Thank you!

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