



# **BATTERY RECYCLING CONFERENCE & EXHIBITION**

**Vigyan Bhawan, New Delhi**

**25th - 27th July 2024**

## **INTRODUCTION**

Battery recycling has emerged as a critical solution to mitigate the environmental impact associated with the disposal of used batteries. These power-packed devices, often containing heavy metals and toxic chemicals, can pose significant risks if not handled and disposed of correctly. By embracing battery recycling, we can unlock many benefits to a more sustainable and eco-friendly future.

Renewable energy is gaining momentum as a viable alternative to fossil fuels, and the importance of efficient and sustainable energy storage cannot be overstated. Batteries play a crucial role in this regard, serving as the backbone of energy storage systems that power everything from electric vehicles to solar installations. And as the demand for batteries continues to rise, so does the need for proper battery recycling.

## **WHY BATTERY RECYCLING ?**

### **ENVIRONMENTAL CONSERVATION :**

Batteries, particularly those used in electronic devices and electric vehicles, contain hazardous materials such as lead, cadmium, and mercury. Recycling batteries ensure the safe and responsible management of these hazardous materials, preventing pollution and protecting ecosystems.

### **RESOURCE CONSERVATION :**

Batteries consist of valuable resources, including metals like lithium, cobalt, and nickel. Recycling conserves natural resources and reduces the energy consumption and greenhouse gas emissions associated with the extraction and processing of raw materials.

### **WASTE REDUCTION :**

Battery recycling helps in minimizing the amount of electronic waste that ends up in landfills. By diverting batteries from landfills, we can mitigate the potential environmental and health hazards linked to their improper disposal.

### **CIRCULAR ECONOMY :**

Battery recycling plays a crucial role in establishing a circular economy by closing the loop on the battery life cycle. Instead of a linear "take-make-dispose" model, recycling allows for the recovery of valuable materials, which can be used to manufacture new batteries. This promotes a sustainable and resource-efficient approach, reducing dependency on virgin materials and minimizing waste generation.

## OVERVIEW OF BATTERY STORAGE DEPLOYMENT IN INDIA

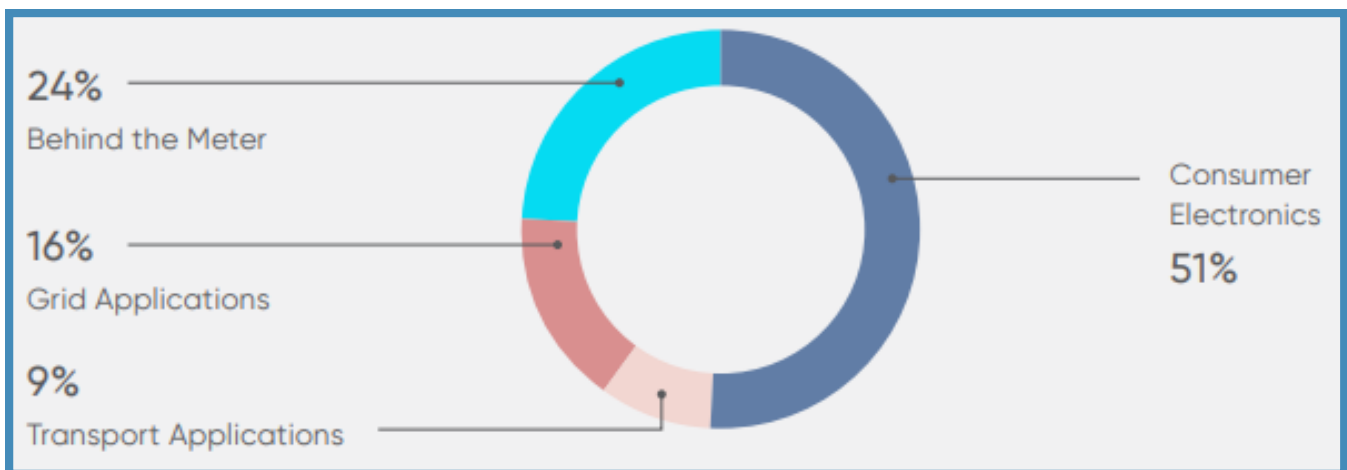
The current deployment of LIBs in India is dominated by consumer electronics, which comprises smartphones, laptops, notebooks, tablets, etc. and is further expected to grow with the digitalization of platforms and the integration of technology in our daily lives.

**IN 2021, CONSUMER ELECTRONICS ENERGY STORAGE WAS THE BIGGEST MARKET FOR LIBS, WITH A CUMULATIVE MARKET OF 11.3 GWH, THOUGH EVS ACCOUNTED FOR AROUND 9% OF THE LIB MARKET (2 GWH).**

The UPS and inverter backup market in India has also grown significantly, with total cumulative installation of around 1.7 GWh of lithium ion-based battery backup (2021); however, the overall battery energy storage capacity is more than 17 GWh, comprising the LAB segment. The IT sector, especially data centres, remain the biggest consumers of UPS. The deployment of the internet of things (IOT) in production is also booming, and that is contributing to the increase in the use of UPS.

The smartphone market in India has recorded a 10-fold expansion, from ~14.5 million shipments in 2011 to ~150 million in 2020, making it one of the most lucrative markets in the world. The next big segment is the BTM applications, which includes inverter and UPS backup, telecoms and diesel gensets. It is estimated that around 2.6 GWh of LIBs were deployed in the telecom sector till

## MARKET SHARE OF LIB'S IN INDIA



## **KEY HIGHLIGHTS OF THE EXHIBITION**

- Knowledge about current demand for electric vehicles, stringent local and state government regulations and guidelines that drive the market growth.
- Growing demand for renewable energy storage and rising adoption of lithium-ion batteries due to declining prices are the factors expected to provide lucrative market opportunities for market players.
- 350 + eminent speakers from across the world will participate in the conference with 800 + industries from PAN India overseas.
- Apart from Middle Industries and corporates, 400+ startups, unicorn and MSME's will be participating in the event.
- 6000+ Participants are expected in 3 days
- 100 + interviews will be published by various TV channels, Magazines and Newspapers.

## **WHO SHOULD ATTEND THE EXHIBITION ?**

- Assembler / Integrator
- Battery Manufacturer
- Distributor
- Government
- Engineering Consultancy
- Battery Recycling Plant Manager
- Research and Development (R&D) Engineer
- Sales and Business Development
- Battery Recycling Engineer/Technician
- Component Manufacturer

## WHY TO EXHIBIT

- Access to the newest technology across the industrial supply chain from 200+ brands.
- Explore the largest battery technology expo in India for the newest market developments.
- Gain new ideas for increased battery efficiencies and reduced manufacturing costs.
- Watch live product demos showcasing cutting-edge battery technology.
- One can meet representatives and prospective clients of different companies.
- It is also a good opportunity for professionals to exchange information, share knowledge and get inspirations
- It will allow to host meetings and secure business deals on your exhibition stand along with generating new leads for your company in a highly targeted environment.

