



# INDIA ENERGY VAULT SUMMIT 2025

29 - 30 July 2025, Bengaluru

 informa markets



**Driving Innovation, Resilience,  
Scalability & Sustainability in the  
India Energy Storage Sector**

From the Organisers of

THE **BATTERY** SHOW

INDIA

**30 31** OCT & **01** NOV 2025  
India Expo Mart, Greater Noida

**3<sup>rd</sup>**  
edition





## Event Overview

India's commitment to achieving net-zero emissions by 2070 and meeting 50% of its energy needs from renewables by 2030 requires scaling up renewable energy (RE) from the 175 GW target in 2022 to 350–500 GW by 2030. This transition presents a significant opportunity for energy storage solutions, including Battery Energy Storage Systems (BESS), hydrogen fuel, supercapacitors, compressed air energy storage (CAES), flywheels, and pumped hydro storage (PHS).

BESS is central to India's energy strategy, supporting the goal of 500 GW of variable renewable energy (VRE) by 2030. The India BESS market, valued at USD 7.8 billion in 2024, is expected to reach USD 32 billion by 2030, driven by a 27% CAGR due to increasing RE integration and government policies.

India's battery demand is set to grow 19 times, from 13 GWh in 2024 to 244 GWh by 2035. The electric vehicle battery manufacturing market, estimated at USD 0.21 billion in 2025, is projected to reach USD 0.59 billion by 2030 at a 23.17% CAGR. These developments highlight the critical role of energy storage in supporting India's clean energy and mobility ambitions.

Besides the global energy storage market valued at USD 58.9 billion in 2024, is projected to reach USD 204.8 billion by 2033 growing six-fold to more than 2 TWh by 2030. Annual deployments are expected to grow by an average of 21% per year and triple by 2030. It is expected India taking up fourth largest market positions by 2030 after China, US & Europe.

The India Energy Vault Summit highlights "Driving Innovation, resilience, scalability & sustainability in the India Energy Storage Sector ". It focuses on addressing critical challenges such as raw material supplies, regulatory & technology barriers, supply chain vulnerabilities while showcasing advancements in energy storage and manufacturing technologies and fostering industry collaboration to strengthen India's position in the global energy storage landscape.





## Key Features of event

### 16+ hours

of engaging content  
across 2 days

### 30+ Speakers

from the entire  
energy storage ecosystem

### International Speakers

from the US, Europe, and APAC

### 150+ Industry Professionals

under one roof

### 5+ hours

of Networking session

### Focus on

### Energy Storage Policies,

Standards, R&D, Technology,  
Production updates, Renewable  
Integration and also battery recycling  
covering the entire spectrum



## Key Topics

**Powering India Energy Storage Vision 2030: Regulatory Readiness & Policy Roadmap**

**Achieving Breakthrough in Cell & Battery Manufacturing and Scaling-up with India's Gigafactories**

**A Look into Current and Future Technologies for Stationary Energy Storage Systems**

**Strategising India's Clean Energy Supply Chains to aid the Energy Storage Industry for Scaling-Up and Cost-Effective Manufacturing**

**A Look into EV Battery Standards for Safety & Reliability**

**Critical Role of Stationary Energy Storage in Advancing Green Energy**

**The Rise & Growth of Battery Recycling in India**

## Why Attend

- 30+ speakers including International Speakers from US/Europe and Asia
- Speakers from both mobile and stationary storage
- Attendance from EV industry, Renewables including Solar & Wind
- Access to latest trends and innovation in market
- Network with 150+ professionals on one platform
- Focus on both EV and Stationary Storage segments
- Lab to bench and recycling focus





# Who Should Attend

## Attendee Profile: Segment

### Battery Storage

Batteries for  
2 wheelers  
3 wheelers  
Cars  
e-Bus  
Other mobility  
BESS for Renewables

### Industry/ End User

Battery Manufacturers  
Battery Pack Assembling  
R&D Institutions  
Policy Makers & Regulatory Authorities- Central & State  
Electricity Grid Companies/ Operators/ Power Distribution /Utilities  
EV manufacturers  
Bilateral agencies, Embassies & Commissions  
Charging Infrastructure  
Battery Recycling  
Charging Infrastructure

### Job Titles

C-level Executives  
Vice President  
General Manager  
Heads  
Manager  
AGM  
DGM  
Research Scientists  
Executives

### Department

R&D/Design/Technology Leader  
Strategy  
Operations  
Plant & Manufacturing  
System/Application/Product  
Mechanical/Automation  
Electronics Engineering  
Quality Control  
Product Manager  
Material Testing  
Logistics



# India Energy Vault Summit

29<sup>th</sup> & 30<sup>th</sup> July 2025 , Bangalore

Driving Innovation, Resilience, Scalability & Sustainability in the India Energy Storage Sector

Day 1- 29<sup>th</sup> July 2025, Tuesday

08:30 – 09:30

Registration & Networking



08:30 – 09:30

Breakfast



09:30 – 10:00

Opening Address by Informa Markets, India

10:00 – 10:45

**Leadership Panel: Building a Strong, Safe and Resilient Energy Storage Ecosystem for a Sustainable Future**



- Role of energy storage and its applications
- Continuous Innovation in battery & non-battery storage technologies for greater efficiency and longer life
- Encouraging R&D towards lower-carbon print-oriented energy storage solutions/ materials
- Reducing cost and facilitating infrastructure for greater adoption
- Funding Energy Storage R&D and initiatives

10:45 – 11:15

**Keynote: Powering India Energy Storage Vision 2030: Regulatory Readiness & Policy Roadmap**



11:15 - 11:35

Networking Break



11:35 – 12:05

**Fireside Chat : Achieving Breakthrough in Cell & Battery Manufacturing and Scaling-up with India's Gigafactories**



- Navigating the challenges of high cost of raw materials with government support & partnerships with resource rich nations
- Addressing technology gaps with continuous R&D
- Encouraging global partnerships and tech transfer for scale-up manufacturing
- Digital Technology to aid manufacturing
- Training & skilling labor for competency
- Managing the demand and supply equilibrium with collaborations

12:05 – 12:35

**Generative Engineering & Digital Twins for Scalable Battery Innovation and Manufacturing**

**Reserved for Sponsor**

12:35– 13:05

**Innovations in Materials and Components Critical to Battery Performance**

- Exploring innovations in anode materials
- Innovation in cathode materials
- Optimum battery management and thermal management systems

# India Energy Vault Summit

29<sup>th</sup> & 30<sup>th</sup> July 2025 , Bangalore

13:05- 13:35

**Right BMS Selection and Commissioning for Quality & Safety**

**Reserved for Sponsors**

13:35- 14:30

**Lunch & Networking Break**



14:30 – 15:00

**Establishing a Controlled Environment for Manufacturing Production Line**

- Battery manufacturing process controls and Monitoring of key dimensions
- Cleanroom atmosphere for battery production
- Preventive maintenance of key equipment
- Digital technology to enhance production

15:00 – 15:30

**Battery Life Cycle Analysis and Testing for Improved Performance and Efficient Operation**

**Reserved for Sponsors**

15:30- 16:00

**A Look into EV Battery Standards for Safety & Reliability**

- Understanding the current global regulations for EV batteries
- Battery Safety Standards in India
- Introduction of new rules

16:00 – 16:30

**Networking Break**



16:30 – 17:10

**Panel Discussion: Aligning Supply with Demand for Quality & Cost Effectiveness – Perspectives from the BESS Manufacturers and OEMs**



- Understanding the demand side priorities from OEMs including factors like high-density, range, faster charging, higher battery life and pricing
- Understanding the advantages in aligning with current battery manufacturers from India
- Challenges in matching demands from OEMs due to non-standardisation
- Upcoming battery cells in India and how they will help reach the OEM goals
- The power of collaboration/ partnerships to ensure better supply chain, standardised and efficient manufacturing and improvement in the battery eco-system

17:10 – 17:40

**Strategising India's Clean Energy Supply Chains to aid the Energy Storage Industry for Scaling-Up and Cost-Effective Manufacturing**

- Addressing the lack of critical minerals - raw material availability and ensuring continuous feedstock
- Effective battery manufacturing components sourcing – cathode, anode, electrolytes & separators
- Planning & sourcing key equipments & machinery for cell manufacturing
- Using international collaborations effectively and encouraging localization where feasible

17:40

**End of Conference Day 1**

# India Energy Vault Summit

29<sup>th</sup> & 30<sup>th</sup> July 2025 , Bangalore

Day 2- 30<sup>th</sup> July 2025, Wednesday

08:30 – 09:30

Registration & Networking



08:30 – 09:30

Breakfast



09:45 – 10:00

Opening Remarks by Informa Markets, India

10:00 – 10:45

**Panel: Leadership Panel: Overview of Stationary BESS Eco-System in Utility Projects**



- Overview of existing BESS Eco-system in Utility Projects- Current policies affecting the sector, needed policy changes, timelines, investments, incentives, and subsidies
- Energy Storage Obligation and its uptake in the industry
- How will the new policies encourage the increase in BESS manufacturing
- Current battery storage technology and future outlook – are bigger batteries catching up?

10:45 – 11:15

**Keynote: Critical Role of Stationary Energy Storage in Advancing Green Energy**



- Stationary energy storage policies in India to promote green energy
- India Smart Grid Forum (ISGF) and Energy Storage System Roadmap for India
- Renewable energy storage technologies and grid integration for stable grids
- Encouraging the new technologies in energy storage for renewables and enabling continuous R&D
- Reducing carbon footprint

11:15 - 11:35

Networking Break



11:35 – 12:05

**A Look into Current and Future Technologies for Stationary Energy Storage Systems**

- Current Technologies in battery storage- Lithium-Ion & Redox Flow
- Upcoming battery technologies and advantages in Sodium-Ion batteries and solid-state batteries
- Analysing the best possible storage system as per the project requirement

12:05 – 12:35

**Early-stage Evaluation of Safety of Battery Chemistries for Grid Applications**

**Reserved for Sponsors**



# India Energy Vault Summit

29<sup>th</sup> & 30<sup>th</sup> July 2025 , Bangalore

12:35 – 13:05

**Fireside Chat: Navigating the Challenges in Integrating BESS to the Grid**



- Ensuring grid compatibility in various regions
- Integration BESS with the grid EMS with real time information
- Meeting O&M requirements and mitigate failure risk

13:05 – 13:35

**AI and Digital Tools for Variability Control in Stationary BESS**

**Reserved for Sponsors**

13:35 – 14:30

**Lunch & Networking Break**



14:30 – 15:00

**Advancing Thermal Management for Stationary Energy Systems**

- Thermal management systems the cornerstone in the energy storage
- Air Cooling vs. Liquid Cooling vs. PCM
- Choosing the right system based on storage size and operational priorities

15:00 – 15:30

**Regulations, Standards and Safety Testing in Grid Scale Energy Storage Systems**

**Reserved for Sponsors**

16:00- 16:30

**Repurposing Second Life EV Batteries for Stationary Storage- Challenges and Opportunities**

- Applications of second-life batteries and their economics
- Predicting the lifespan of batteries and if they are fit for second life use
- Extended Producer Responsibility
- Need for distinct BMS

16:30- 17:00

**Fireside Chat: The Rise & Growth of Battery Recycling in India**



- LCA and Battery Waste Management Rules 2022 and implementation
- Recovering valuable metals such as lithium, cobalt, and nickel to make the business profitable
- Key innovations & trends in recycling
- Lead time to secure discarded batteries from the OEMs could be a challenge to the recyclers
- Addressing the challenges of non-standardized batteries, varying battery chemistries and safety concerns

17:00

**Networking and End of Conference**



## PRICING

**Standard Pricing**  
**INR 10,000 per delegate**

18% GST applicable

## CONTACT US

### FOR SPEAKING OPPORTUNITIES

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