

YOUR GATEWAY TO

ENERGY STORAGE, H₂ & E-MOBILITY MARKETS



Leadership Circle























IESA Members Collage- Jan 2023













BRONZE

SI-EM INDI ENERGY INFINITEX LEMENTS SINDOWER DEED OF LEAD Green Energy





GOLD







PLATINUM
→ eos
ENERGY
FLUENCE A Stemans and ARS Company

























SILVER

MACME



























Excel Industries Ltd.

Office

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PLUSS TECHNOLOGY FOR THE QUANTEN RENEN







oil India Limited OLA ELECTRIC



































TOSHIBA

























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IESA OFFERINGS

Advocacy

Policy Working Group

Business Working Group

Technology **Working Group**

India Battery Supply Chain Council (IBSCC)

IESA Communication Community

10-IESA Focus Groups

Industry Reports

Annual Stationary Energy Storage Outlook

Annual Electric Vehicle Market Overview

Emerging Technology Review Report (4)

Monthly Storage IQ Report

Knowledge Paper /Case Studies / White paper

Market **Development**

Accelerating Innovation & **Supporting Start-Ups**

Beyond Batteries Initiative (Electric, Thermal, Gravity, Hydrogen)

MICRO - Microgrid Initiative for Campus and Rural **Opportunities**

MOVE - Moving **Onward Vehicle** Electrification

Industry Resources

Storage, EV and charging Infra Tender Analysis and **Updates**

IESDB (India Energy Storage Database)

IESA Online Store

Secure Member Section

GESI (Global Energy Storage Index)

Training and Capacity Building

IESA Academy online Platform

Industry Academic Partnership

I-LAB (IESA LEAD ACID BATTERY) **FORUM**

Hands-On Trainings (Cell fabrication & Testina)

Manufacturing, Safety & Recycling

IESA Manufacturing Initiative

Manufacturing Masterclass

IESA Safety & Standards Taskforce

IRRI (IESA Recycle & Reuse Initiative)

Lead acid & Li-In Lab

Strategy & Policy Support

Conferences, **Events and Publications**

Knowledge Series Webinars

Networking Business Meets, like **ESSMEET**

Emerging Tech News Magazine and Emerging Tech Radio Podcast

> **Annual Energy** Storage Week

EV Roundtables and **Discussion Forums**













India's evolving EV & Energy Storage Policies



IESA was launched in 2012

- MOP & CEA taskforce on Integration of Large Scale renewables
- National Electric Mobility Mission Plan .
- IESA hosts's 1st Energy Storage India conference
- **Creation of Standing Committee on** energy storage by MNRE
- IESA releases report on the role of energy storage for ancillary services
- CERC roadmap for ancillary Services
- MNRE India Energy Storage Roadmap and DHI FAME - I

2017



- Launch of MOVE initiative by IESA
- Karnataka & Telangana draft EV policy
- CERC staff paper on ESS

Launch of ESS pilots by MNRE

 IESA proposes manufacturing policy for energy storage technologies to NIT Aayog

2016



2018

2019

2020

2021

- MNRE National Wind Solar Hybrid policy
- National Energy Storage Mission
- State EV Policies
 - Maharashtra, UP, Andhra Pradesh, Kerala, Uttarakhand, Delhi
- NITI Aayog MOVE Summit

- NITI Aayog's National Mission for Transformative Mobility and Advanced Battery Manufacturing
- PMP Phased Manufacturing Plan for EVs
- FAME-II scheme



PMO India @ @PMOIndia - 6h देश में ही Solar Panel की मैन्युफेक्वरिंग, Power Storage Capacity बढाने के लिए बेहतर Batteries के R&D और Manufacturing में निवेश करें। जो इस काम में ज़टे हैं. ऐसे संस्थानों की, MSMEs की Handholding करें: PM

- Peak power & RTC Hybrid RFPs from SECI
- Energy Storage recognized as **Champion Sector**
- **ACC** battery Manufacturing selected as a key sector for PLI with 50 GWh target
- National Hydrogen Mission announced
- RFP for 50 GWh ACC Battery Manufacturing*
- 5 GWh Niche ACC **Framework Creation**

Dt. 11/01/2023: Meeting with Shri Kamran Rizvi, Secretary (HI), Dr. Hanif Qureshi, Joint Secretary, Department of Heavy Industries, MHI, Shri Sudhendu J. Sinha, Adviser (Infrastructure Connectivity – Transport and Electric Mobility), NITI Aayog, IESA Leadership Members and other government officials





POLICY ADVOCACY

We have been on the forefront in discussing and raising concerns in the Energy Storage & EV space with all Central and State Nodal Agencies like MNRE, DST, MoP, MeITY, NITI to name a few. A few snapshots of events are shown below



via NaMo App



Call on Prime Minister by panelists of Pravasi



Invited by MEA & PMO to discuss the Role of Indian Diaspora in Capacity Building for Affordable Solar Power & **Energy Storage in August 2018.**

MNRE Meeting on National Energy Storage mission (2018)



Advanced Energy Storage Manufacturing





India Energy Storage Roadmap (2018)



Discussion on Lithium Resources with Bolivia Embassy (2017)



MoU signing between MeITY and IESA (2019)



Shri Arjun Ram Meghwal, speaking at IESA e-Conference





IESA Initiatives





MOVE – Moving Onward Vehicle Electrification



IESA- EV Adopters Circle (EVAC)



Innovation & start-Ups



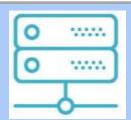
IESA Academy- Skill development Initiative





Rural Opportunities

Industry Reports & Market Survey



India Energy Storage DataBase (IESDB)



IESA Store - Online Product Portfolio)



IESA- Lead Acid Battery Forum (I-LAB)



Energy Storage Safety & Standards Taskforce



Mobility and Infrastructure with Green Hydrogen Technology (MIGHT)



IRRI
(IESA
Recycle
& Reuse
Initiative)



Beyond Batteries Initiative

(Electric, Thermal, Gravity, Hydrogen)



Global Energy Storage Index (GESI)



Make In India - IESA
Manufacturing
Initiative (IMI)



Storage
Adoptions for C&I
Consumers



IESA Start-Up Cohort



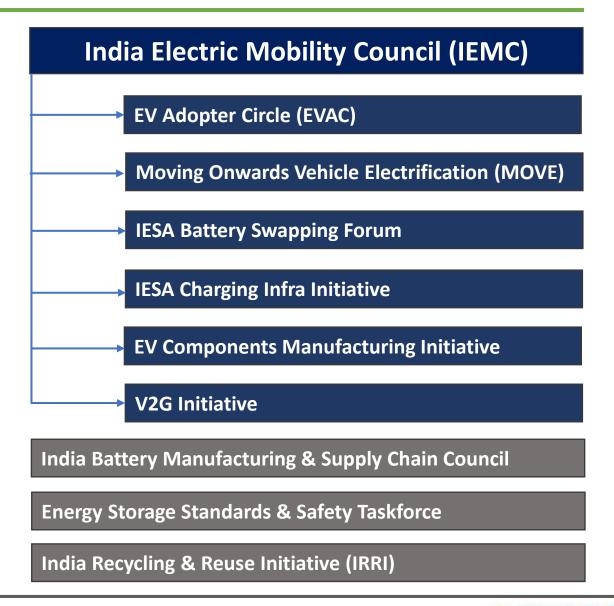
India Electric Mobility Council (IEMC)

An IESA Initiative

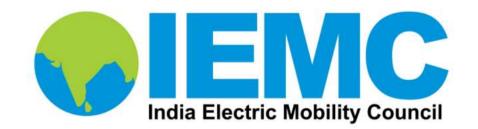


Why India Electric Mobility Council (IEMC)

IESA is focusing all its E-Mobility Initiatives under one umbrella India Electric **Mobility Council (IEMC)** and enhancing its EVAC (EV Adopter Circle) and MOVE (Moving Onwards Vehicle Electrification) activities to catalyze the industry growth.







EV Manufacturers

























EV Components & Equipment

















EV Battery Technology Companies



























Battery Swapping Companies









Charging Infrastructure













EV Fleet Operators







Work With









Other EV Related Members















Thinktanks/ Consulting Organisations







Government Support







International Organisation







Key Focus Areas for 2023

- 1. Electrification of Commercial and Heavy-Duty Vehicles
- 2. Vehicle to Grid (Create white paper and collaboration with organizations for pilot projects)
- 3. Retrofitting (partner with industry members to understand the bottleneck)
- 4. Battery Safety (organize roundtables to address industry concerns)
- **5. Battery Swapping** (continuous government interaction and industry needs)
- 6. Safety/Guidelines of Charging Station/ swapping station (Earthing, solar integrated in the system)
- 7. Urban Air Mobility (Create white papers, organize roundtable and partner with UAM companies)
- 8. EV Supply chain (helping industries to create a robust EV supply chain)
- 9. EVAC (promote and accelerate sustainable urban and rural transportation to catalyze the EV Adoption)
- 10.EV Financing / loan / taxation (collaborator with financial institutes to provide attractive incentive to member companies)



Our Activities in E-Mobility Space



December 2029

Karntaka EV
Roundtable with industry players and govt. officials (In association with Karnataka
Government)



5th June 2022

Submitted inputs on battery swapping policy



22nd October 2022

Organized 4 Global session on E-Mobility as part of WESD 2022



2020

MoU with EESL to catalyze the EV adoption in Private sector



21st June 2022

EVangelise '22: iCreate's EV Innovation Challenge (in partnership with iCreate)



21st Jan – 17th Nov 2022

UL Battery Safety master class



1st - 5th May 2022

Organized Conference on E-Mobility (India eMobility Day) as part of IESW 2022



28th Sept 2022

Submitted inputs on AIS 156 and AIS 038 (Rev 2)



12th Jan 2023 IEMC Launch

Our Activities in Battery Swapping



21st May 2020
1st Roundtable on
Need for Swapping
and Business
Models



3rd July 2020
4th Roundtable on
Final
Recommendations
on Battery
Swapping
Roadmap for India



1-3 June 2021
Training on EV
Charging Infra and
Battery Swapping
(by IESA Academy
& ARAI Academy)



3rd June 20202nd Roundtable on Technical Aspects
& Role of Standards in Battery Swapping



1-3 June 2021
Training on EV
Charging Infra and
Battery Swapping
(by IESA Academy
& ARAI Academy)



5th June 2022 Submitted inputs on battery swapping policy



18th June 2020
3rd Roundtable on
Policy Barriers and
Drivers in Battery
Swapping



28th Sept 2022 Submitted inputs on AIS 156 and AIS 038 (Rev 2)



29th November 2022 Meeting with Sun Mobility on Battery Swapping

Knowledge Hub for Electric Vehicle in India





25th May 2022
Article on The
Evolving Landscape
of Urban Air Mobility
in India



28th Sept 2022 Submitted inputs on AIS 156 and AIS 038 (Rev 2)



22nd April 2022
Launch of India
Electric Vehicle and
Components Market
Overview Report
2021-30



5th June 2022 Submitted detailed inputs on battery swapping policy



7th Oct 2022India EV Charger
Market Report 2022



18th – 20th May 2022 IESA – ARAI 3-day training program on ESS for EV



2nd Sept 2022
Published an article
on Requirement of
Electric Trucks in
Indian Market



19th Oct 2022
Workshop on
Transition from IC
engine to EV's for
Maruti Center of
Excellence

Our Events in Electric Mobility



19th May 2017 1st IESA-ICAT EV Conclave



22nd April 2020 Clean Energy & Clean Transportation: Key to fight Climate Change (In association with EarcthDay Network)



25th February 2021 6th India eMobility Conclave (IMC)



9th August 2019 3rd International EV Conclave (In association with ICAT)



^{6th} **August 2020** 5th India eMobility Conclave (IMC)



22nd **October 2022**Organized 4 session on E-Mobility as part of WESD 2022



5th February 2020 4th India eMobility Conclave (IMC)



23rd Sept 2019
India Energy Storage –
EV Technology and
R&D Forum (Supported
by DST, Govt. of India)



EV Battery safety Conference

Our Activities in Training & Capacity Building



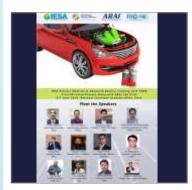
2019 Training on FAME II Certification Process (in association with ARAI)



3rd July 2020
4th Roundtable on Final
Recommendations on Battery
Swapping
Roadmap for India



1-3 June 2021
Training on EV
Charging Infra and
Battery Swapping
(by IESA Academy
& ARAI Academy)



6-7 June 2019
Electric Mobility &
Advanced Battery
Training with FAME
2 Certification
Process along with
ARAI Lab Visit



11-12 March 2020 Hands-on Li-lon Cell Fabrication Workshop (In association with CMET)



21st Jan – 17th Nov 2022 UL Battery Safety master class



18th June 2020
3rd Roundtable on
Policy Barriers and
Drivers in Battery
Swapping



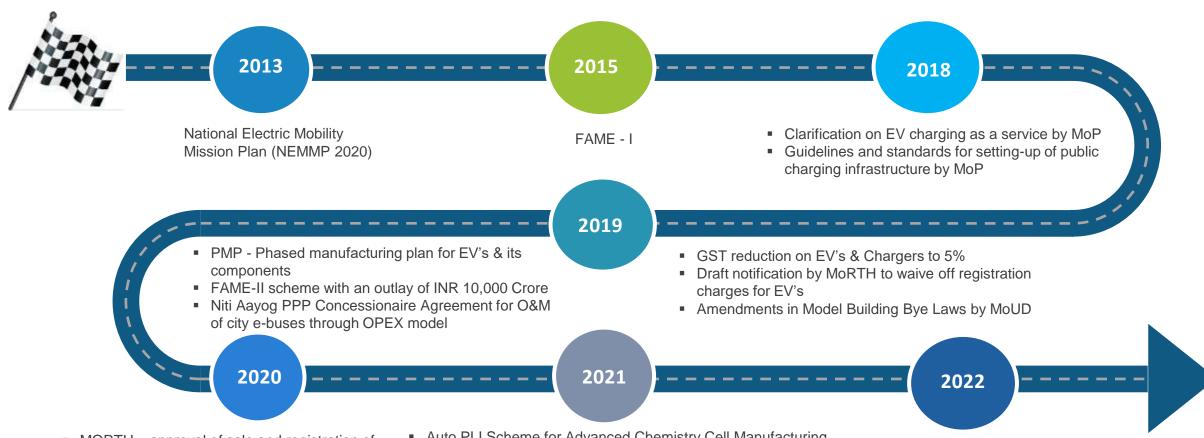
28th Sept 2022 Submitted inputs on AIS 156 and AIS 038 (Rev 2)



14th – 19th Nov 2022 Entrepreneurship Acceleration Program (EAP)



CENTRAL EV POLICY SCENARIO



- MORTH approval of sale and registration of EVs without batteries.
- Increase in BCD for EVs
- Revised PMP Program
- MoP amendment- Battery swapping considered under Public charging stations

- Auto PLI Scheme for Advanced Chemistry Cell Manufacturing.
- Amendments under FAME-2 scheme
- Extension of FAME-2 Scheme by another 2 years to 31st March 2024
- Vehicle Scrappage policy
- Auto PLI Scheme for Automobiles and Auto Components
- Exemption of EV's from fee for issue or renewal of registration certificates by MoRTH
- Revised Standards and Guidelines By MoP for setting up the EV Charging Stations
- Announcement on Battery Swapping Policy by FM in Budget 2022-23
- Amendments announced by MoRTH on battery standards AIS 156 and AIS 038
- Battery Standards announced by MHI

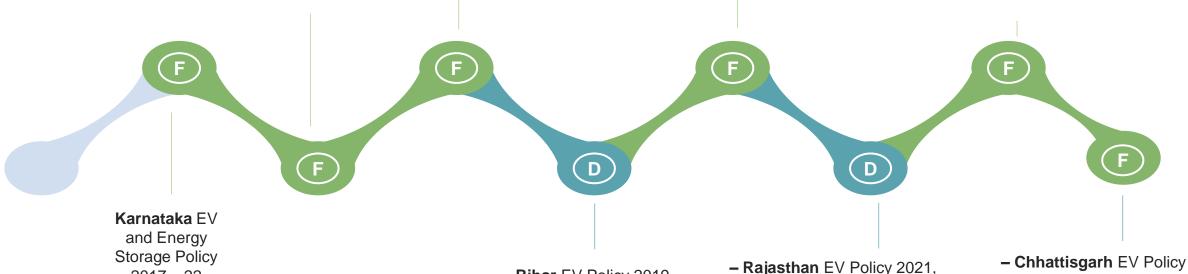


STATE LEVEL EV POLICY SCENARIO

- Andhra Pradesh Electric Mobility Policy 2018-23
- Maharashtra EV Policy 2018 - 2023
- Uttarakhand EV Policy 2018-2023

- Kerala EV Policy 2019- 22
- Tamil Nadu EV Policy 2019 -29
- Chhattisgarh inclusion of EV sector in Industrial Policy 2019-24
- Uttar Pradesh EV Manufacturing and Mobility Policy 2019 - 24
- Madhya Pradesh EV Policy 2019-24

- Delhi EV Policy 2020
- Telangana EV Policy 2020-2030
- Assam EV Policy 2021-26
- Maharashtra EV Policy 2021-25
 - Gujarat EV Policy 2021-25 - Goa EV Policy 2021-26
- Meghalaya EV Policy 2021-25
- -Odisha EV Policy 2021-25
- West Bengal EV Policy 2021-26



2017 - 22

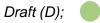
- Bihar EV Policy 2019
- Punjab EV Policy 2019 24
- draft to be approved by finance department to be approved; final document pending
 - Haryana EV policy 2021

2022-2032

Uttar Pradesh EV Policy 2022 Rajasthan EV Policy 2022-2027

Chandigarh EV Policy 2022-26 Ladakh EV Policy 2022

Color Code:



Cleared (F) policy

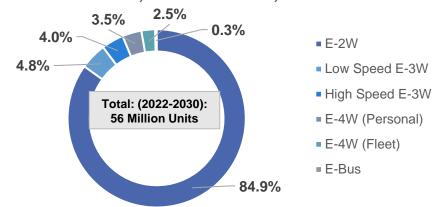


EV AND BATTERY MARKET OUTLOOK, BY 2030

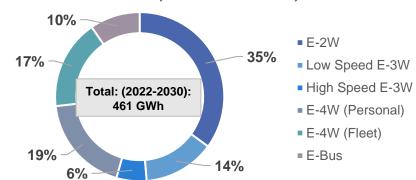
In BAU Scenario, it is predicted that the market will grow at a similar pace at which it is growing today in next couple of years. The market is expected to gain momentum rapidly after 2024-25 as upfront cost of electric vehicles are expected to achieve parity with the ICE vehicles due to drop in battery prices along with improvement in EV technology, local manufacturing & economies of scale.

As per CES analysis, the EV market is expected to grow at a CAGR of 49% between 2021- 2030 whereas the battery demand for EV's is expected to grow at a CAGR of 41% by 2030.

EV Sales Forecast, BAU Scenario, 2022-2030



EV Battery Demand Forecast, BAU Scenario, 2022-2030

























Moving Onwards Vehicle Electrification (MOVE)



MOVE Objectives

- Forward the interests of the EV and battery manufacturing sector
- Enable a platform for exchange ideas & technology to promote business
- Aid to support policy makers and implementing agencies

MOVE Highlights

- Supplier Meets for exploring business opportunities
- Regional EV Roundtables supported by state transport agencies, distribution companies, and city planners & corporations
- Annual EV conclaves with industry participants & central government bodies



EV Roundtable Karnataka (2018)



EV Roundtable Maharashtra (2018)



EV Roundtable Delhi (2019)

Activities Carried Out:

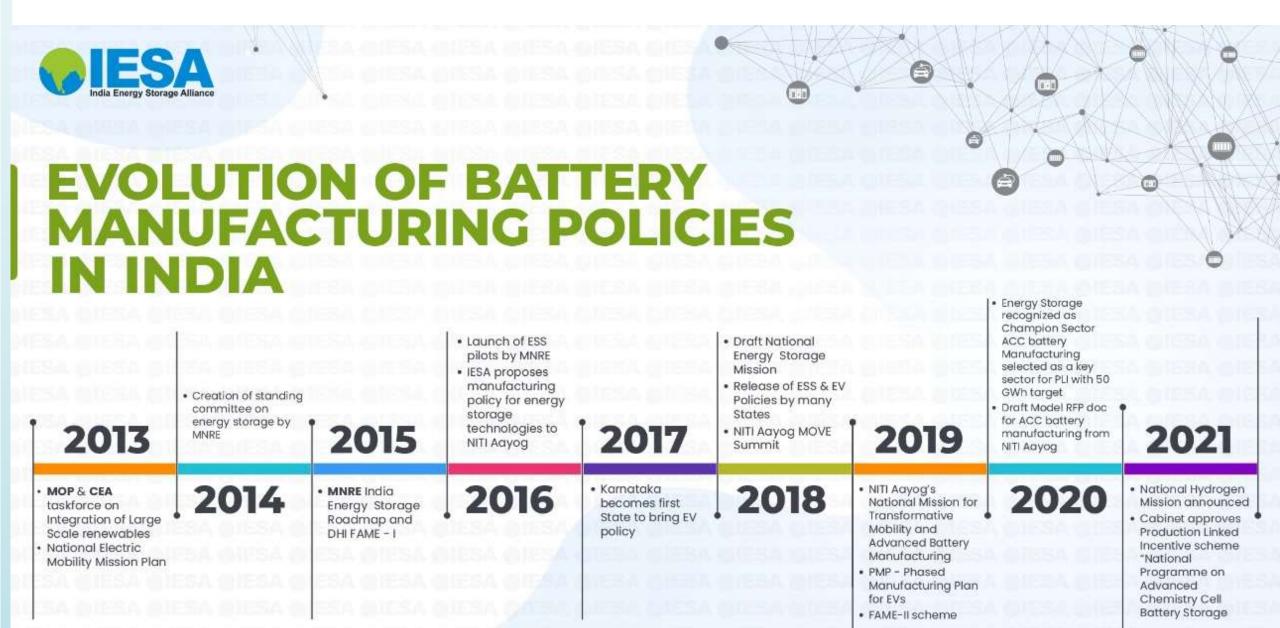
- Provided recommendations to NITI Aayog and DIPP on manufacturing policy for storage & EVs
- ✓ Helped organize CEO roundtable with Invest India to discuss energy storage and EV manufacturing in India.
- ✓ Addressed industry concerns related to push for swapping only policy at IESA Policy Forum
- ✓ Working with ICAT and ARAI for improving industry interactions
- ✓ Focusing on li-ion cell, battery pack as well as charging infrastructure manufacturing.
- ✓ Working on EV coponents Manufcaturing

India EMobility Conclave & Regional EV Roundtables

IESA organized 8 India EMobility Conclave (IMC) and regional EV Roundtable discussion on e-mobility in Bangalore, Pune, Delhi and Chennai, each. Objective of these events was to facilitate a one on one dialogue between the industry stakeholders and states government to accelerate the deployment of Evs and discussion on new-age technologies, opportunities for new GoI e-mobility policy (FAME II).



IESA Manufacturing Initiative (IMI)



India, the Emerging Market & New Destination for Battery Giga-factories





IESA submitted 1st whitepaper to NITI Aayog for advanced energy storage manufacturing policy

April 2016

Creation of ACC Battery Manufacturing PLI framework

2020



June 2021

50 GWh Manufacturing Application Closure

Jan-Mar 2022

Possible extension for Stationary ACC battery PLI as well as 5 GWh Niche ACC Program notification

Nov-Dec 2022*

2018-19

Development of National Energy Storage Mission & National Mission for Transformative Mobility

12 May 2021

ACC Battery Manufacturing PLI Program announced by DHI, Govt. of India

Oct 2021

Global Tender announcement for 50 GWh ACC Manufacturing

Mar-June 2022

Award for 50 GWh ACC battery Storage PLI

June -Dec 2024*

Start of Commercial Production from Indian Giga Factories

ENERGY STORAGE STANDARDS TASKFORCE

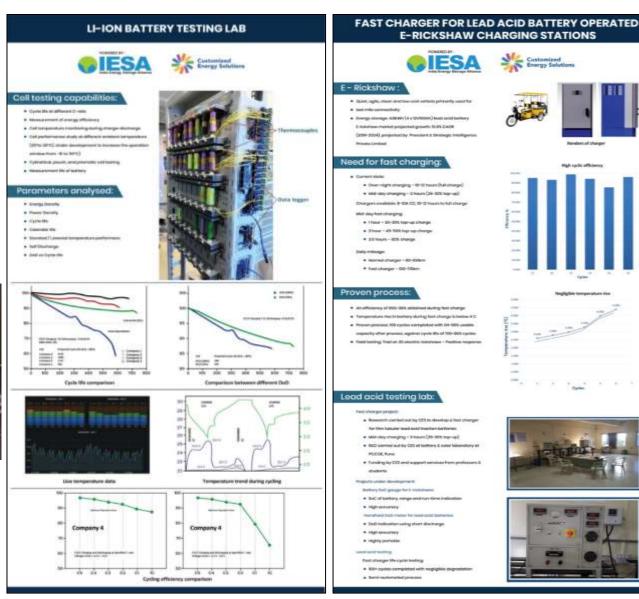


UL and IESA signed a MoU to create an Energy Storage Standards Taskforce to work on Standards Framework for Energy storage in India (2016)



IESA part of BIS ETD 52 Committee for Electrical Energy Storage

- We are members in the panel on 'Technology Hub for EV Energy Storage' by DST, Gol.
- We are working on safety, cell and system level standards for India



EV Fire Incidents – The Indian Context



Electric Bus catches fire while charging

March 25 | Electric Scooter catches fire while charging

March 27 | Electric Scooter catches fire when parked

April 1 | Electric Scooter Dealership catches fire

April 9 | Truckload of Electric Scooters catches fire



April 18 | Electric Scooter Dealership catches fire

April 20 | Electric Scooter catches fire while charging

April 30 | Electric Scooter catches fire while driving



June 8 | Fire at EV parking station

June 23 | Electric Car catches fire while driving

June 24 | Electric Scooter Dealership catches fire



APR



Global **EV Battery** Safety **Forum**



MacDermid Alpha (WRI INDIA WINING

Speakers



Electrochessical Salint Research Visitoute (ESR)



Dorsarol Manager Resociation of India (ARA)

Mayuresh Karmorkar

Harrisping Director



Dr. Ravi Bhatkal Electronics Solutions

Ramachandran R,

Matter Mobility



Director - Produc Engineering, Latest Heat



Joseph Kelly



Dr. Rahul Watawalkar Tricks Crargy Stocopy Albanco







Powan Mulukutta



and Hydrogen, Will tailly





































India

Battery

MacDermid Alpha <a>M

IESA Tech Tour

Date: 14th January 2023 | Time: 08:30 - 14:00 HRS IST

The battery temperature has a strong effect on charging and discharging rate of the battery. This makes the thermal management of an EV battery pack extremely important, design of energy-dense packs have to employ robust cooling systems, often using liquid cooling loops with hundreds of channels. The

complexity of these systems adds to the cost - somewhere around 10-15% of the overall cost of the battery pack. Li-ion batteries are particularly susceptible to thermal run-away events for a few different reasons, including their high energy content and their propensity to self-heat once the electrolyte reaches a certain temperature (from 70° to 130° C). Li-Ion cells are naturally subjected to deterioration with time

due to their operating conditions and state of charge. Temperature has a major impact on the efficiency

Due to popularity of rapid charging and performance driving, the heat losses in the cell increases due to

high current in the cells. There are two main sources of heat generation in a battery cell: electrochemical

operation and joule heating due to the motion of electrons within a battery cells. The temperature range of 25 °C to 40 °C provides the ideal working conditions for Li-ion batteries and if the temperature is elevated

Dated: 12th January 2023

Time: 2:30 PM - 5:00 PM IST Venue: La Meridien, New Delhi





Participating Partners

MacDermid Alpha 🗪

Dated: 13th January 2023





®IEMC

Global

Safety

Forum

Host Media Partner ETI

EV Battery









Venue: Jacaranda Hall, India Habitat Centre, New Delhi



Knowledge Partner:

WRIINDIA TRANSPORT



















Below are some of the key Thermal Management Solutions that we are currently offering to the EV Industry:



above 50 °C it become harmful for the lifespan of the batteries: Even a single cell's premature deterioration

can reduce the performance and efficiency of the whole battery pack

Thermal Pastes

considerably.

Thermal Gap Pads

Adhesives & Encapsulants

. Flame-retardant PU Foams









Robert Shattager



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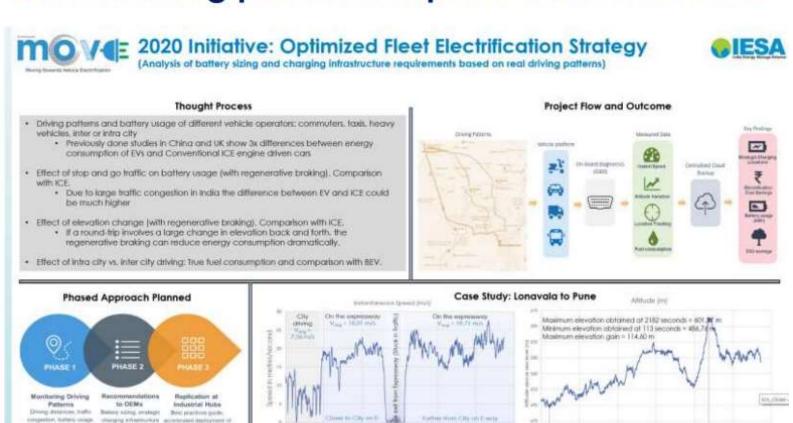




IESA EV Adaptor Circle (IESA – EVAC)



Accelerating private adoption of xEVs in India



have of purvey (s) have range to atturn + 457 m.



We are pleased to announce that we have signed an MoU with India Energy Storage Alliance (IESA) to ensure faster adoption of #emobility & scaling up the #EV infrastructure in the country. The focus of the partnership will be on the development & deployment of a pilot #ElectricVehicle tracker tool, along with the analysis of the potential for Telecom towers to double as #EV charging stations in India. A joint study will be undertaken with telecom tower companies to determine the viability of retrofitting telecom tower facilities to allow them to also serve as #ElectricVehicle charging stations to promote the use of #greenenergy.













Entrepreneurship Opportunities & Start-Up Ecosystem

IESA closely works with various start-up companies and promote entrepreneurship. To accelerate fast growth in the energy storage & EV domain, IESA is launching a virtual accelerator program to drive the industry.



MoU with MeITY

Ministry of Electronics & Information Technology, Government of India (MeitY) and India Energy Storage Alliance (IESA) came together and signed an MoU to promote Start-Ups in Indian energy storage & EV sector.

As part of this partnership both the parties will help & support the start-ups to grow in this space.

All IESA start-Up member companies will be a part of MEITY Start-up Hub and Meity will support them through various schemes, centre of Excellence, Industry connect, Mentorship, Learning centre and other facilities.





Start Up Pitch Session and Innovation Pavillon

ACCELERATOR

In order to promote fast growth in the energy storage domain an accelerator has been planned.

Researchers with innovative technologies can avail the benefits of fabrication, prototyping and industrial testing of their lab-scale setups

Active engagement with key members from the industry who can act as mentors to guide young and enthusiastic researchers and also assist with commercialization.



FLAGSHIP IESA EVENTS



Soutember 2011

ESSMEET

October 2018

ESSMEET



Stationary Energy Storage India

Theme: Defining roadmap and outlook for stationary energy storage in India







The power major of finish has come up with an arbitrous plants indiver 456 GM of researched by 2006, incremeding to plane the 40% going their disease compared to the plant of the plant o

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Results DV pades stabilists. In lining battery attent, increase in the stabilists largery, every stocking and in respectively. So were all the partial process of the sone term. The usual exist fination sector respective over battery attent attent. The usual exist fination sector respects contained the solar largery contained as the solar deposits of the solar deposits of the solar largery contained as the solar deposits of the solar largery contained as the solar deposits existing on the merket in other 4.8 appears 2021.

or pocume assisting in the reviews to drive 4 anyone 2011.

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RSSMEET

June 2029

WES CONFESS

March 2019

ESSMEET

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IESA Publications, Podcasts and Outreach



IESA Industry Reports





ETN(Emerging Technology News) Magazine Storage IQ – Monthly Report





www.ETN.News

IESA Knowledge Papers





Available at Soundcloud, iTunes, Stitcher and other podcast services





Thank You!!

Prepared & Presented By: Sumita Sharma Email: Sumita.Sharma@ces-Itd.com

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Mail: contact@indiaesa.info
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