



**EXHIBITION (1ST-2ND JULY 2024)**

EV & EV Infra Expo	Manufacturing & Supply Chain Pavilion	Green Hydrogen Expo	Start-Up Pavilion
Recycling Pavilion	Stationary Storage Expo	Innovation & Research Pavilion	Indigenous Battery Cell Showcase

**CONFERENCE (1ST-4TH JULY 2024)**

<p>&gt; 01st July e-Mobility</p> <p>India EV Infra Forum</p>	<p>&gt; 02nd July Manufacturing &amp; Supply chain</p> <p>India Recycling &amp; Reuse Forum</p>	<p>&gt; 03rd July Stationary Energy Storage</p> <p>India LDES Forum</p>
<p>&gt; 04th July Green Hydrogen</p>	<p>&gt; 05th July Tech Tour</p>	

**KEY HIGHLIGHTS**

<p>IESA - Industry Excellence Awards 1st July 2024</p>	<p>3rd India Battery Safety Forum 1st July 2024</p>	<p>CXO Roundtable 1st July 2024</p>	<p>Women in Energy Roundtable, leadership talk &amp; networking Dinner 2nd July 2024</p>	<p>Start-Up Day (Tech Ignition session, Pitch Session, Investment talk) 2nd July 2024</p>
<p>Pre-Schedule B-B Meeting 1st-2nd July 2024</p>	<p>Founders Roundtable 2nd July 2024</p>	<p>Future Energy Learning Centre (FELC) 1st-2nd July 2024</p>	<p>LDS Round Table &amp; Networking Dinner 3rd July 2024</p>	<p>Workshops by WRI, Shakti Foundation 1st - 4th July 2024</p>

Date	Main Conference Hall <b>Amaltas Hall - Conference Room (B1)</b>	Seminar Hall <b>EXPO Hall 1B</b>	Roundtable Room <b>EXPO Hall 1B</b>
1 <sup>st</sup> July	India EV Day Conference (10:00 – 18:00 IST)	Future Energy Learning Centre (FELC) in association with ISA (11:00 – 13:00 IST)	
		3 <sup>rd</sup> India Battery Safety Forum in association with ULSE (14:00- 16:30 IST)	CXO Roundtable (17:00-18:30 IST)
<b>7th IESA Industry Excellence Awards &amp; Gala Dinner (19:00 HRS IST onwards)</b>			
2 <sup>nd</sup> July	India Battery Manufacturing Day Conference (10:00 – 18:00 IST)	Start-Up Pitch Session (11:00 - 13:00 IST)	Workshop on Battery Circularity in India (co-organized with WRI) (11:00 - 13:00 IST)
		Industry Workshop for EV Battery Supply Chain in association with Shakti Foundation (14:00 – 16:00 IST)	Founders Roundtable (14:00 - 15:00 IST)  Tech Ignition Session (15:00 - 15:45 IST)  Investors Talk (15:45 - 16:30 IST)
		Future Energy Learning Centre (FELC) in association with ISA (16:00 – 17:30 IST)	Women in Energy Roundtable (16:30 - 18:00 IST)
		<b>Women in Energy Felicitation, Leadership Talk and Networking Dinner</b> , Supported by IGEF (18:30 IST onwards), Amaltas Hall, IICC	
3 <sup>rd</sup> July	India Stationary Storage Day Conference (10:00 – 18:00 IST)	<b>IESA-DST 3<sup>rd</sup> Stakeholders Meeting on Rapid Prototyping Centres for Battery Innovation</b> (14:00- 16:00 IST), Kenar Hall (403), IICC	
		<b>LDES Roundtable, Supported by LDES Council</b> (16:30- 18:00 IST), Kenar Hall (403), IICC  <b>Happy Hours &amp; Networking Dinner for LDES Roundtable Participants</b> (18:30 IST Onwards), Amaltas Hall, IICC	
4 <sup>th</sup> July	India Green Hydrogen Day Conference (10:00 – 18:00 IST)	<b>Roundtable on Green Hydrogen Growth: Sub-National Dialogue on Catalysing Change for Addressing Growth Hurdles</b> (co-organized with WRI) (11:00 - 13:00 IST), Kenar Hall (403), IICC	
	Knowledge Session on <b>Green Hydrogen Certification for Export to EU</b> (12:15 - 13:15 IST) by IGEF-SO		
5 <sup>th</sup> July	Tech Tours ( <i>On registration and approval</i> )	<ul style="list-style-type: none"> <li>• Track 1: BSES Rajdhani + Lohum</li> <li>• Track 2: BSES Yamuna + ICAT</li> </ul>	

# India EV Day (1<sup>st</sup> July 2024) Conference Program

Time (HRS IST)	Session	Topic	Speakers
09:00 – 10.00	<b>Registration</b>		
10:00 – 11.15	Inauguration Session	<b>India's Roadmap for Vehicle Electrification</b> <ul style="list-style-type: none"> <li>Key Central and State government policies</li> <li>Current Status of EV manufacturing and future potential</li> <li>Ways to increase EV adoption.</li> <li>Export opportunities and key bottlenecks to address.</li> </ul>	<ul style="list-style-type: none"> <li><b>Shri Sunil Barthwal</b>, Secretary, Ministry of Commerce, and Industry</li> <li><b>HE Mr Philip Green OAM</b>, Australia's High Commissioner to India</li> <li><b>HE May-Elin- Steiner</b>, Ambassador of Norway to India</li> <li><b>Dr. Hanif Qureshi</b>, Additional Secretary, Ministry of Heavy Industries</li> <li><b>Sudhendu J Sinha</b>, Adviser (Infrastructure Connectivity &amp; E-Mobility), NITI Aayog</li> <li><b>Vishal Kapoor</b>, CEO, Energy Efficiency Services Limited (EESL)</li> <li><b>Dr Reji Mathai</b>, Director, Automotive Research Association of India (ARAI)*</li> <li><b>Vikram Gulati</b>, Country Head &amp; Executive V.P. (Corporate Affairs &amp; Governance) Toyota Kirloskar Motor</li> <li><b>Rubin Pather</b>, Chief Operating Officer, Reliance Jio-BP</li> <li><b>Swadesh Srivastava</b>, Head, Emerging Mobility Business Unit, Hero MotoCorp</li> <li><b>Stephen Fernands</b>, President, Customized Energy Solutions</li> <li><b>Dr. Rahul Walawalkar</b>, President &amp; MD, CES India &amp; President, IESA</li> </ul>
11:15 – 11.45	<b>Networking Tea and Expo Visit</b>		
11:45 – 13.00	Panel discussion	<b>Growth Story of India's Electric Vehicles</b> <ul style="list-style-type: none"> <li>Journey of the Indian Electric 2W, 3W industry</li> <li>Electric Cars – yet to see mass adoptions In India</li> <li>Hybrids – the immediate way for decarbonization</li> <li>Key challenges and opportunities</li> <li>Investment in EV Start-ups</li> <li>Entrant of Global EV makers in the Indian market</li> </ul>	<ul style="list-style-type: none"> <li><b>Moderator: Debi Prasad Dash</b>, Executive Director, IESA</li> <li><b>Vikram Gulati</b>, Country Head &amp; Executive V.P. (Corporate Affairs &amp; Governance) Toyota Kirloskar Motor</li> <li><b>Suman Mishra</b>, Managing Director &amp; CEO, Mahindra Last Mile Mobility</li> <li><b>Haresh Bhere</b>, Chief Technology Officer, Jio-BP Mobility Ltd</li> <li><b>Christine Vincent</b>, Venture Principal, Shell Venture</li> <li><b>Vijay Kedia</b>, Long-Term Investor, Kedia Securities*</li> <li><b>Sri Purisai</b>, Founder &amp; Managing Director, Chakra Growth Capital</li> <li><b>Shekhar Mishra</b>, Senior General Manager-EMBU, Hero MotoCorp</li> </ul>
13:00 – 14:00	<b>Networking Lunch and Expo Visit</b>		
14:00 – 15:00	Panel discussion	<b>EV Infrastructure – the need of the hour</b> <ul style="list-style-type: none"> <li>Charging Infra – Key enabler for electric 4W and</li> </ul>	<ul style="list-style-type: none"> <li><b>Moderator: Gurusharan Dhillon</b>, Director, Electric Mobility, IESA &amp; CES</li> <li><b>Awadhesh Jha</b>, Executive Director, GLIDA</li> <li><b>Vikas Almadi</b>, Chairman and Managing</li> </ul>

		<p>buses in India</p> <ul style="list-style-type: none"> <li>• Key challenges in the Growth of EV charging in India</li> <li>• Govt policies to support charging infra-adoption.</li> <li>• Key learning from current installations</li> </ul>	<p>Director, VNT</p> <ul style="list-style-type: none"> <li>• <b>Inge André Espedal</b>, Chief Executive Officer, Sagavolt</li> <li>• <b>Jagjit Singh</b>, Director of BD, APAC and Global Markets, EVOS Energy Pty</li> <li>• <b>Anshuman Divyanshu</b>, Chief Executive Officer - EVSE Division, Exicom</li> <li>• <b>Varun Shahani</b>, General Manager-Head Energy Infrastructure, Hero MotoCorp</li> </ul>
15:00 – 15:15	Tech Session	Lift Off – Soaring beyond Intercalation – The future is here	<ul style="list-style-type: none"> <li>• <b>John Wood</b>, Chief Executive Officer, Gelion</li> </ul>
15:15 – 16:00	Tech Session	<p><b>EV Powertrain &amp; EV Components Manufacturing – Opportunity for a Decade.</b></p> <ul style="list-style-type: none"> <li>• Indigenous Powertrain development &amp; manufacturing</li> <li>• Capturing the opportunities</li> <li>• Advanced Materials for EV Powertrain</li> <li>• Battery Packs developments and key learnings</li> <li>• Battery Management System (BMS)</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Moderator: Dr. Rahul Walawalkar</b>, President &amp; MD, CES India &amp; President, India Energy Storage Alliance</li> <li>• <b>Dr. A K Jindal</b>, Design and Development-Electric and Defence Vehicles, Tata Motors</li> <li>• <b>Sharan Aiyappa</b>, OEM Director - Sales &amp; Marketing, MacDermid</li> <li>• <b>Sebastian Weyermann</b>, Sr. Business Development Manager-CMD, Thermofisher Scientific</li> <li>• <b>Vikas Aggarwal</b>, Managing Director, Ipower Batteries</li> <li>• <b>Rajiv Kumar Singh</b>, R&amp;D Lead- Platform, Hero MotoCorp</li> <li>• <b>Vinay Solanki</b>, Business Head, Nash Tech Labs.</li> </ul>
16:00-16:25	<b>Networking Tea and Expo Visit</b>		
16:25-16:30	IEEE Address	Need for Climate Change and Sustainability	<ul style="list-style-type: none"> <li>• <b>Dr Saifur Rahman</b>, Past President, IEEE</li> </ul>
16:30-16:45	Tech Session	Automotive Testing and Validation	<ul style="list-style-type: none"> <li>• <b>S Ramanathan</b>, Managing Director, Automotive Test Systems</li> </ul>
16:45 – 17:45	Plenary Session	<p><b>Panel Discussion: Way Forward to Accelerate Electric Mobility, Manufacturing, R&amp;D and Safe Adoption in India via Innovation</b></p> <ul style="list-style-type: none"> <li>• Export-Import opportunities</li> <li>• Global Partnerships and tech transfer</li> <li>• R&amp;D and Innovation in Battery and Electric Mobility</li> <li>• New Battery Technologies</li> <li>• Driving Innovation for Next-Gen EV with the Power of Virtualization</li> <li>• Vehicle to Grid</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Moderator: Anjan Merkap</b>, Engagement Manager, Customized Energy Solutions</li> <li>• <b>Venkat Rajaraman</b>, CEO, Cygni Energy</li> <li>• <b>Sandeep Gambhir</b>, CEO, Vertelo</li> <li>• <b>Mukesh Dadhich</b>, Head-Business Development, Sustainability &amp; Clean Technology, BSES Yamuna</li> <li>• <b>Utkarsh Mishra</b>, Global Innovation Portfolio Lead, Hero MotoCorp</li> <li>• <b>Dr Barry Pearce</b>, Strategic Key Accounts Manager- Clean Energy, Thermofisher Scientific</li> <li>• <b>Dr. Desikan Sundararajan</b>, India MD, Equinor</li> <li>• <b>Ankit Adhiya</b>, Sr. Manager, Application Engineering, Ansys India</li> </ul>
17:45 – 18:00	<b>Summary of the Day and Vote of Thanks</b>		

## India Battery Day Conference (2<sup>nd</sup> July 2024)

Time (HRS IST)	Session	Topic	Speakers
09:00 – 10.00	<b>Registration</b>		
10:00 – 11.15	Inauguration Session	<b>India's roadmap for Advanced battery manufacturing</b> <ul style="list-style-type: none"> <li>Government policies to support the manufacturing of batteries (ACC-PLI, Niche PLI, Stationary storage PLI etc.)</li> <li>Key challenges and bottleneck</li> <li>Global Partnerships in Manufacturing</li> <li>Battery Supply chain, raw materials and recycling</li> </ul>	<ul style="list-style-type: none"> <li><b>V.L Kantha Rao</b>, Secretary, Ministry of Mines</li> <li><b>Rajesh Agrawal</b>, Additional Secretary, Ministry of Commerce</li> <li><b>Vijay Mittal</b>, Joint Secretary, DHI, Ministry of Heavy Industries</li> <li><b>Dr Preeti Banzal</b>, Adviser/ Scientist 'G', Government of India</li> <li><b>Vijayanand Samudrala</b>, President, Amara Raja Batteries Ltd.</li> <li><b>Raj Surendran</b>, CEO, Tianqi Lithium Australia Energy Limited</li> <li><b>Sadashiv Samantaray, CEO, KABIL</b></li> <li><b>Vikram Handa</b>, MD, Epsilon Carbon</li> <li><b>Debi Prasad Dash</b>, Executive Director, IESA</li> <li><b>Rajat Verma</b>, Founder and CEO, LOHUM</li> <li><b>Rakesh Malhotra</b>, Founder, Livguard</li> <li><b>Dr. Rahul Walawalkar</b>, President &amp; MD, CES India &amp; President, India Energy Storage Alliance</li> </ul>
11:15 - 11:45	<b>Networking Tea and Expo Visit</b>		
11:45 – 12.45	Panel discussion	<b>Battery Cell Manufacturing, Upcoming Giga Factories and Other Advanced Battery Manufacturing</b> <ul style="list-style-type: none"> <li>Lithium Cell Manufacturing landscape in India and key challenges</li> <li>Upcoming Giga factories in India</li> <li>Other Advanced Battery tech (VRB, Sodium Ion and Solid-state batteries) manufacturing in India</li> </ul>	<ul style="list-style-type: none"> <li><b>Moderator: Dr. Rahul Walawalkar</b>, President &amp; MD, CES India &amp; President, India Energy Storage Alliance</li> <li><b>Vijayanand Samudrala</b>, President, Amara Raja Batteries Ltd.</li> <li><b>Anil Kumar</b>, Chief Operating Officer, Nash Energy</li> <li><b>Vishal Chaturvedi</b>, Business Head - Ola Cell, Ola Electric</li> <li><b>Avishek Kumar</b>, Co-Founder and CEO at VFlowTech</li> <li><b>Sriram Ramanoudjame</b>, Director, Strategic Marketing, Blue Solutions</li> <li><b>Gurpreet Bhatia</b>, Managing Director &amp; CEO, Livguard</li> <li><b>Oda Marie Ellefsen</b>, Technical Sales Manager, Morrow</li> </ul>
12:45 – 13:00	Tech Session	<b>Battery manufacturing quality assessment and failure analysis solutions</b>	<ul style="list-style-type: none"> <li><b>Victoria Pope</b>, Global Sales Development Manager, Clean Energy, Thermo Fisher Scientific</li> </ul>
13:00 – 14:00	<b>Networking Lunch and Expo Visit</b>		

14.00-15.00	Panel discussion	<b>Battery Component Manufacturing &amp; Manufacturing Process</b> <ul style="list-style-type: none"> <li>Why India Should focus on Graphite.</li> <li>Upcoming Anode and cathode manufacturing</li> <li>Electrolyte, Separator, Adhesive, Binders</li> <li>Global opportunities</li> <li>Manufacturing process</li> <li>Automation</li> </ul>	<b>Moderator: Debi Prasad Dash</b> , Executive Director, IESA <ul style="list-style-type: none"> <li><b>Akash Saraf</b>, Manufacturing and Supply Chain Consultant, Customized Energy Solutions</li> <li><b>Sunit Kapur</b>, Chief Executive Officer, Epsilon Advanced Materials</li> <li><b>Puneet Thakur</b>, Head of Invest In and Innovation Collaboration, Business Finland</li> <li><b>Arvind Kakru</b>, Vice President – Industrial Automation, Schneider Electric</li> <li><b>Kirti Varma</b>, Co-Founder and COO, ALTMIN</li> </ul>
15.00-16.00	Panel Discussion  (Supported by Western Australia)	<b>Battery Raw materials Availability in India &amp; Global Partners –</b> <ul style="list-style-type: none"> <li>Global Partnerships for Battery Raw materials</li> <li>Lithium, Manganese, Copper, Nickel, Aluminium</li> <li>Raw materials constants</li> <li>Opportunities in Mining, Refining and Processing</li> </ul>	<ul style="list-style-type: none"> <li><b>Session Chair: Dr. Veena Kumari Dermal</b>, Joint Secretary, Ministry of Mines</li> <li><b>Moderator: Rohit Laumas</b>, Mining &amp; Supply Chain Consultant, CES</li> <li><b>Nashid Chowdhury</b>, WA Trade &amp; Investment Commissioner, Government of Western Australia</li> <li><b>Raj Surendran</b>, CEO, Tianqi Lithium Australia Energy Limited</li> <li><b>Kunal Daga</b>, Founder &amp; Director, Molsynth</li> </ul>
16:00 – 16:30	<b>Networking Tea and Expo Visit</b>		
16:30 - 16:45		<b>Recent Innovations in Analytical Technologies for Battery Manufacturing and Quality Control</b>	<ul style="list-style-type: none"> <li><b>Dr Kyle D'Silva</b>, Director, Clean Energy, Analytical Instruments Group, Thermofisher Scientific</li> </ul>
16:45 – 17:45	Plenary Session	<b>Battery Recycling (Key government policies market dynamics, BWMR and EPR guidelines for Recycling, refurbishment and Second Life)</b> <ul style="list-style-type: none"> <li>Global Recycling Market Overview</li> <li>Key challenges and opportunities</li> <li>Import-export scenarios of battery waste and black mass.</li> <li>Battery waste collections, Black mass production</li> <li>Recycling technologies to get metal salts</li> <li>Battery Second life</li> </ul>	<ul style="list-style-type: none"> <li><b>Moderator: Bhupesh Verma</b>, Manager, Market Research, CES &amp; IESA</li> <li><b>Dr. Sandip Chatterjee</b>, Sr. Director, Ministry of Electronics and Information Technology (MEITY)*</li> <li><b>V P Yadhav</b>, Scientist E &amp; DH, Central Pollution Control Board</li> <li><b>Pratyush Sinha</b>, VP- Special Projects, Lohum</li> <li><b>Deepak Mohapatra</b>, Senior Officer – Business and Market Development, Alliance for Rural Electrification (ARE)</li> <li><b>Dr Debaraj Mishra</b>, Managing Director, Sangeel India Recycling</li> </ul>
17:45 – 18:00	<b>Day Summary of the Day and Vote of Thanks</b>		

# India Stationary Energy Storage Day (3<sup>rd</sup> July 2024)

Time (HRs IST)	Session	Topic	Speakers
09:00 – 10.00 <b>Registration</b>			
10:00 - 11:15	Inauguration Session	<b>Energy Storage for 500 GW Renewable, Grid Modernization, and Decarbonization of the C&amp;I Sector</b> <ul style="list-style-type: none"> <li>Key central &amp; state government policies</li> <li>Industry adoptions</li> <li>Role of energy storage in the electricity value chain</li> <li>BESS systems for Indian Grid</li> <li>Other form of Energy storage beyond batteries</li> </ul>	<ul style="list-style-type: none"> <li><b>Bhupinder Singh Bhalla</b>, Secretary, Ministry of New &amp; Renewable Energy</li> <li><b>Ghanshyam Prasad</b>, Chairperson, CEA, Ministry of Power</li> <li><b>Jishnu Barua</b>, Chairperson, Central Electricity Regulatory Commission</li> <li><b>Gauri Singh</b>, Deputy Director-General, International Renewable Energy Agency (IRENA)</li> <li><b>Dinesh Jagdale</b>, Joint Secretary, Ministry of New and Renewable Energy</li> <li><b>S R Narasimhan</b>, Chairman and Managing Director, GRID India</li> <li><b>R P Gupta</b>, Chairman &amp; MD, Solar Energy Corporation of India (SECI)</li> <li><b>Rajnath Ram</b>, Adviser (Energy), NITI Aayog</li> <li><b>Hemanth Pandey</b>, Chief Engineer, Ministry of Power*</li> <li><b>David Pearce</b>, General Manager, Sales &amp; Distribution, Kardinia Energy</li> <li><b>Thomas Coughlin</b>, President, IEEE</li> <li><b>Mr. Hiren Pravin Shah</b>, Executive Director &amp; CEO, Replus Engitech</li> <li><b>Akash Kaushik</b>, Co-Founder, Good Enough Energy</li> <li><b>Dr. Rahul Walawalkar</b>, President &amp; MD, CES India &amp; President, India Energy Storage Alliance</li> </ul>
11:15 - 11:30	<b>Networking Tea</b>		
11:30 – 12.30	Panel discussion	<b>Energy Storage Tender and Projects in India</b> <ul style="list-style-type: none"> <li>Key Learnings from developed BESS projects in India</li> <li>Upcoming Tenders and projects</li> <li>Understanding the key bottlenecks in Project development</li> <li>Learning from the global projects</li> </ul>	<b>Moderator: Harsh Thacker</b> , Director, Emerging Tech, Customized Energy Solutions <ul style="list-style-type: none"> <li><b>Satish Talmale</b>, Chief Operating Officer, Indigrid</li> <li><b>Rupam Raja</b>, Chief Commercial Officer, Fluence</li> <li><b>Adam Bloom</b>, CEO, Edina</li> <li><b>Sai Charan Kuppili</b>, Technical Director, South &amp; Central Asia, Jinko Solar</li> <li><b>Sunil Sharma</b>, Commercial Executive, BSES Yamuna Power</li> <li><b>Naveen Nagpal</b>, Asst. Vice President (Renewables, BESS &amp; new initiatives), BSES Rajdhani</li> <li>SECI/ NTPC/ GUVNL*</li> </ul>
12:30 – 13.00	Tech Session	BESS Technology, System Design and Development	<ul style="list-style-type: none"> <li><b>Akash Kaushik</b>, Co-Founder, Good Enough Energy</li> </ul>

			<ul style="list-style-type: none"> <li>• <b>Rajendra Narkhede</b>, Senior Vice President, Gexcon</li> </ul>
13:00 – 14:00	<b>Networking Lunch</b>		
14:00 – 15:00	Panel discussion	<b>Energy storage for decarbonization of the Commercial &amp; Industrial Sector</b> <ul style="list-style-type: none"> <li>• Energy Storage for decarbonization of the C&amp;I sector</li> <li>• BESS for Telecom and data center and Railway</li> <li>• Learning from the current installation</li> <li>• Key Challenges in project development</li> <li>• Capex vs. Opex of such projects</li> </ul>	<b>Session Chair: J K Jethani</b> , Scientist F, MNRE <b>Moderator: Netra Walawalkar</b> , VP, India Markets, Customized Energy Solutions <ul style="list-style-type: none"> <li>• <b>Kenneth Bodahl</b>, CEO, Pixii AS</li> <li>• <b>A.K. Shukla</b>, Founder and MD, Sanvaru</li> <li>• <b>Dr Manne Venkateswarlu</b>, CTO, Khushmanda Power Ltd</li> <li>• <b>Rukshan Sheriff</b>, CEO, Eco33 Pte</li> <li>• <b>Ankur Arora</b>, Head of Sales (Critical Power) - India &amp; SAARC, Exicom</li> </ul>
15:00-16:00	Panel discussion	<b>Long Duration Energy Storage Technologies for India</b> <ul style="list-style-type: none"> <li>• Key LDES Technologies and it's future</li> <li>• Understanding the key changes</li> <li>• Need for government framework.</li> <li>• Setting up the target for LDES deployment</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Session Chair: Kuldeep Rana</b>, Scientist / Director, MNRE</li> <li>• <b>Moderator: Nehal Divekar</b>, Director- Emerging Technologies, Customized Energy Solutions</li> <li>• <b>Julia Souder</b>, CEO, LDES Council</li> <li>• <b>Saurav Mitra</b>, Director, Market Development, Energy Storage Business, Sumitomo SHI FW</li> <li>• <b>William Tope</b>, CEO, LiNa Energy</li> <li>• <b>Mukesh Kolhe</b>, Advisor, Green Gravity</li> </ul>
16:00 – 16:30	<b>Networking Tea</b>		
16.30-16.45	Special Session	Learning from Global BESS Projects	<ul style="list-style-type: none"> <li>• <b>Inder Bhambra</b>, Chief Business Officer - India Region, Envision Energy</li> </ul>
16:45 – 17:45	Plenary Session	<b>Addressing the Challenges in Rapid Energy Storage Deployment</b> <ul style="list-style-type: none"> <li>• VGF scheme for 4000 MWh Energy Storage Projects</li> <li>• Energy Storage for Peak shifting, RE-RTC, FDRE</li> <li>• Key financing challenges</li> <li>• Modernizing the electricity grid</li> <li>• Central govt. policy framework &amp; state level support</li> </ul>	<b>Session Chair: Rajesh Kumar</b> , Chief Engineer, Energy Storage Systems, CEA, Ministry of Power <b>Moderator: Vinayak Walimbe</b> , VP- Emerging Technologies, Customized Energy Solutions <ul style="list-style-type: none"> <li>• <b>Peter Mockel</b>, Principal Industry Specialist, IFC</li> <li>• <b>Mr. Pinaki Bhattacharyya</b>, Founder, MD and CEO, Ampln Energy</li> <li>• <b>Aditya Agrawal</b>, Head of Battery Business, Waaree Energy</li> <li>• <b>Professor Scott Hamilton</b>, Senior Advisor, Smart Energy Council</li> <li>• <b>Wilhelm Von Butselaar</b>, VP-APAC Growth, Fluence</li> <li>• <b>Artur Zawadski</b>, CEO, Sunrise CSP</li> <li>• <b>Jørgen Festervoll</b>, CEO, Heimdall Power</li> </ul>
17:45 – 18:00	<b>Summary of the Day and Vote of Thanks</b>		



## India Green Hydrogen Day (4<sup>th</sup> July 2024)

Time (Hrs. IST)	Session	Topic	Speakers
09:00 – 10.00	<b>Registration</b>		
10:00 – 11:00	Inauguration Session	<b>India's Roadmap on Green Hydrogen R&amp;D, Manufacturing &amp; Deployment</b> <ul style="list-style-type: none"> <li>Defining green hydrogen</li> <li>Role of R&amp;D and innovation</li> <li>Key challenges in deployment</li> <li>Global collaboration</li> </ul>	<ul style="list-style-type: none"> <li><b>Mr. Sudeep Jain</b>, Additional Secretary, Ministry of New and Renewable Energy</li> <li><b>Cristian Valdes Carter</b>, Country Director &amp; Commercial Counsellor - India, Innovation Norway</li> <li><b>Denise Eaton</b>, Trade and Investment, Commissioner, Austrade</li> <li><b>Dr. Anita Gupta</b>, Head of Scientific Divisions (HOD), DST*</li> <li><b>Dr. Jeewan Prakash Gupta</b>, Managing Director, Greenstat Hydrogen India Pvt.. Ltd.</li> <li><b>Madhav Pai</b>, CEO, WRI India</li> <li><b>Dr. Rahul Walawalkar</b>, President &amp; MD, CES India &amp; President, India Energy Storage Alliance (IESA)</li> </ul>
11:00 – 11:15	<b>Networking Tea</b>		
11:15 – 12:15	Tech Session	<b>Electrolyzer &amp; BOP Manufacturing Opportunities in India</b> <ul style="list-style-type: none"> <li>Opportunities for electrolysis BoP manufacturing</li> <li>Updates on the electrolyzers PLI</li> <li>Components and supply chain</li> <li>Technology updates</li> <li>Analytical Technologies for Hydrogen Value Chain</li> </ul>	<b>Moderator- Dr. Ajinkya Kamat</b> , Sr. Manager, IESA & Customized Energy Solutions <ul style="list-style-type: none"> <li><b>Shekhar Kashalikar</b>, Chief Executive Officer, John Cockerill Greenko Hydrogen Solutions</li> <li><b>Siddharth Mayur</b>, Founder, Managing Director &amp; CEO, h2e Power Systems</li> <li><b>Daniel Fini</b>, Director of Engineering, Cavendish Renewables Tech</li> <li><b>Hitender Grover</b>, Director CAD MSD, India &amp; South Asia</li> </ul>
12:15 – 13:15	Panel Discussion	Knowledge Session on <b>Green Hydrogen Certification for Export to EU</b> (Supported by IGEF- SO)	Opening Remarks and Presentation on the Study and Recommendations for the Development of Internationally Compatible Green Hydrogen Standards in India <ul style="list-style-type: none"> <li><b>Mr. Krushna Kaant Gupta</b>, GIZ</li> </ul> Panel Discussion on “Green Hydrogen Certification for Export to EU” Guest of Honor: <b>Dr. Prasad Chaphekar</b> , Deputy Secretary, Ministry of New & Renewable Energy Moderator: <b>Dr. Deepak Yadav</b> , Council on Energy, Environment and Water

			<b>Speakers:</b> <ul style="list-style-type: none"> <li>• <b>Prof. Dr. Aravind Kumar Chandiran</b>, Department of Chemical Engineering, IIT Madras</li> <li>• <b>Tapas Kapadia</b>, RWE</li> <li>• <b>Ms. Rimali Batra</b>, Partner, DSK Legal</li> </ul>
13:15 – 14:15		<b>Networking Lunch</b>	
14:15 – 14:30	Policy Session	<b>Hydrogen Valley Innovation Clusters in India to Drive R&amp;D, Manufacturing, &amp; Pilots</b>	<ul style="list-style-type: none"> <li>• DST, Govt. of India</li> </ul>
14:30 – 14:45	Tech Session	<b>Hydrogen Regulations, Codes, Standards, &amp; Safety</b>	<ul style="list-style-type: none"> <li>• <b>Dr. R. Venugopal</b>, Ex-Joint Chief Controller of Explosives, PESO</li> </ul>
14:45 – 15:00	Tech Session	<b>Green Hydrogen Storage and Transportation</b>	<ul style="list-style-type: none"> <li>• <b>Yngve Schrøder Tufeland</b>, International Sales Manager, UMOE Advanced Composites</li> </ul>
15:00 – 16:00	Panel Discussion	<b>Global Green Hydrogen Partnership for Growth</b> <ul style="list-style-type: none"> <li>• Partnership for growth</li> <li>• Export and import opportunities</li> <li>• Optimizing Electrolyzer Performance with Cutting-Edge Catalysts</li> <li>• Technology collaboration</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Moderator: Debi Prasad Dash</b>, Executive Director, IESA</li> <li>• <b>Arjun Mehta</b>, India Lead - Business Development &amp; Strategy, Fortescue</li> <li>• <b>Nishaanth Balashanmugam</b>, Country Manager–India, Green Hydrogen Organization (GH2)</li> <li>• <b>Surbhi Goyal</b>, Senior Energy Specialist, World Bank</li> <li>• <b>Manish Sanghai</b>, Sr. Director, Laboratory Products, Asia Pacific Japan, Thermofisher scientific</li> </ul>
16:00 – 16:30		<b>Networking Tea</b>	
16:30-16:45		<b>GH Components Manufacturing</b>	<ul style="list-style-type: none"> <li>• TBD</li> </ul>
16:45 – 17:45	Plenary Session	<b>Key Application Areas for Green Hydrogen in the Industrial and Mobility Sector</b> <ul style="list-style-type: none"> <li>• Refining</li> <li>• Specialty Chemicals</li> <li>• Fertilizers</li> <li>• Steel Sector</li> <li>• Mobility</li> </ul>	<b>Moderator- Dr Deepak Kundalkar</b> , Manager - Green Hydrogen Initiatives, Customized Energy Solutions <ul style="list-style-type: none"> <li>• <b>Dr. Vishnu Budama</b>, CEO, Pune Hydrogen Valley</li> <li>• <b>Aravind Kumar Chandiran</b>, Associate Professor, Department of Chemical Engineering, IIT Madras</li> <li>• <b>Dr. Vijay Bhooshan Kumar</b>, Senior Manager at Advanced Engineering, Ashok Leyland</li> <li>• <b>Sanjiv Kanwar</b>, Country Manager, Yara India</li> <li>• <b>Abhijeet Dande</b>, Deputy Director, Aker Solutions</li> </ul>
17:45 – 18:00		<b>Summary of the Day and Vote of Thanks</b>	

❖ All above 4 main conferences are open to all registered delegates

# 3rd India Battery Safety Forum

1st July 2024, Seminar Hall, 1B, IICC, New Delhi

Opening Panel	14:00 – 14:30 IST	<ul style="list-style-type: none"> <li>• <b>Rajeev Sharma</b>, DDG Standardization-I, Bureau of Indian Standards, Bureau of Indian Standards (BIS)*</li> <li>• <b>Ujjwala Karle</b>, Deputy Director (Technology Group), ARAI</li> <li>• <b>V. Manjunath</b>, Regional Standards Manager, South Asia &amp; Sub-Saharan Africa, UL Standards &amp; Engagement Inc (ULSE)</li> <li>• <b>Dr. Rahul Walawalkar</b>, MD, CES India &amp; President, IESA</li> <li>• <b>Dr. Kuldeep Rana</b> - Scientist/ Director, Ministry of New and Renewable Energy (MNRE)</li> <li>• <b>Rajnish Singh</b> - Director - Ministry of Heavy Industries*</li> <li>• <b>Dr. Suresh Babu Muttana</b>, Scientist E / Director, Department of Science and Technology (DST)</li> </ul>
Current BIS Standards for ESS and Batteries	14:30- 14:45 IST	<ul style="list-style-type: none"> <li>• <b>Neeraj Kushwaha</b>, Scientist C and Member secretary, ETD 52, Bureau of Indian Standards (BIS)</li> </ul>
Battery Cell level and BESS level safety	14:45- 15:00 IST	<ul style="list-style-type: none"> <li>• <b>V. Manjunath</b>, Regional Standards Manager, South Asia &amp; Sub-Saharan Africa, UL Standards &amp; Engagement Inc (ULSE)</li> </ul>
EV Battery safety	15:00- 15:15 IST	<ul style="list-style-type: none"> <li>• <b>Dr. Madhusudan Joshi</b>, Head of Technology &amp; Business, International Centre for Automotive Technology (ICAT)</li> </ul>
Requirement of Testing <ul style="list-style-type: none"> <li>• Power Electronics/ EVs/FC impedance Measurement/Motor testing/Battery testing</li> <li>• Advanced Analytical Solutions for Testing Energy Storage Devices</li> </ul>	15:15- 15:45 IST	<ul style="list-style-type: none"> <li>• <b>Utsav Sharma</b>, Manager (R&amp;D) - HIOKI India Pvt Ltd</li> <li>• <b>Rajwar Chandra</b>, Product Specialist, Agilent Technologies India Pvt. Ltd</li> </ul>
Fire detection/ Suppression System	15:45- 16:00 IST	<ul style="list-style-type: none"> <li>• Fire advisor, DG, fire services, MHA*</li> </ul>
Vote of Thanks & Summary of the Day	16:00- 16:10 IST	<ul style="list-style-type: none"> <li>• <b>Debi Prasad Dash</b>, Executive Director, IESA</li> </ul>

❖ 3<sup>rd</sup> India Battery Safety Forum is open to all registered delegates

# Workshop on Battery Circularity in India: Policy, Regulations & Implementation Strategies

## (Organised by WRI India)

**2<sup>nd</sup> July 2024, Roundtable Room, 1B, IICC, New Delhi**

*WRI India invites you to a workshop on ‘Battery Circularity in India: Policy, Regulations & Implementation Strategies’. The workshop will facilitate a discussion on the existing policies and regulations governing battery circularity in India and gather insights from industry and experts, on policy and regulatory gaps as well as the status of, and challenges in, implementation of systems and processes for battery circularity. Participants will further brainstorm potential solutions and enabling strategies for creating an efficient and circular economy for li-ion batteries in the country.*

The workshop on **Battery Circularity in India: Policy, Regulations & Implementation Strategies** will reflect on these challenges and explore potential solutions to promote battery circularity through the supply chain. Bringing together a wide range of industry stakeholders and subject experts, this workshop will provide a unique opportunity for participants to have a timely discussion on the status of battery circularity in India, the key opportunities and challenges facing the ecosystem, and the necessary next steps for optimizing the circularity of the fast-growing battery supply chain.

### AGENDA

Time	Session	Details
11:00 – 11:05	Context Setting	Introduction to the Roundtable Discussion
11:05 – 11:15	Opening Remarks	Role of battery circularity in making India a global LIB manufacturing hub <ul style="list-style-type: none"> <li>• <b>Chaitanya Kanuri</b>, Associate Director - Electric Mobility, Sustainable Cities &amp; Transport, WRI India</li> <li>• <b>Mr. Narayankumar Sreekumar</b>, Associate Director - Electric Mobility, Shakti Sustainable Energy Foundation</li> </ul>
11:15 – 11:35	Research Presentation	Policy and regulatory gaps as well as proposed solutions for enabling battery circularity based on primary and secondary research. <ul style="list-style-type: none"> <li>• <b>Mitradev Sahoo</b>, Junior Program Associate, WRI India</li> </ul>
11:35 – 12:50	Roundtable discussion	<b>Roundtable discussion anchored on the following themes:</b> <ul style="list-style-type: none"> <li>• Status of battery circularity in India</li> <li>• Challenges in implementing a circular battery supply chain in India and potential solutions.</li> <li>• Current gaps and missing links in policy, regulations, standards framework, and potential solutions for enabling battery circularity in India.</li> </ul>
12:50 – 1:00	Concluding Session	Concluding session and launch of conference proceedings
1:00 PM onwards		Networking Lunch

# IESW Start-Up Day

2<sup>nd</sup> July 2024, 1B, IICC, New Delhi

11:00 – 11:15 IST	Welcome Note & Introduction	<ul style="list-style-type: none"> <li>• <b>Vinayak Walimbe</b>, VP , Emerging Tech, CES</li> </ul>
11:15 – 13:00 IST	<p><b>NEW ENERGY COMPANY SHOWCASE</b></p> <p>Pitch Sessions by 7 start-ups (8 mins to pitch and 7 mins of Q&amp; A)</p>	<p>Jury Members:</p> <ul style="list-style-type: none"> <li>• <b>Pratik Agarwal</b>, Vice President, Singularity AMC LLP*</li> <li>• <b>Christine Vincent</b>, Venture Principal, Shell Ventures</li> <li>• <b>John Wood</b>, Founder, Noab Ventures</li> <li>• <b>Saiesh Reddy</b>, Managing Partner, Chakra Fund Growth</li> <li>• <b>Rakesh Malhotra</b>, Founder of SAR Group</li> <li>• <b>Mahavir Sharma</b>, Chair TIE India Angels and RAIN (Rajasthan Angels)*</li> <li>• <b>Sandeep Tandon</b>, National Project Manager, FLCTD Project, UNIDO*</li> <li>• <b>Vinayak Walimbe</b>, VP, Emerging Tech, CES</li> <li>• <b>Biplab Hazowary</b>, Manager - Innovation Strategy, Hero MotoCorp</li> <li>• <b>Amararaja</b>*</li> </ul>
13:00 -14:00 IST	Networking Lunch & Expo Visit	
14:00 - 15:00 IST	<p><b>FOUNDERS ROUNDTABLE</b></p> <p>Session Topic: Strategies for building resilient startups. Points for discussion</p> <ul style="list-style-type: none"> <li>• Identifying sources of uncertainty</li> <li>• Building resilience and adaptability</li> <li>• Learning from failure and iteration</li> <li>• Customer retention and continuous product evolution</li> <li>• Leveraging partnerships and financial optimization</li> <li>• Overcoming scaling hurdles</li> </ul>	<p>Moderated by: <b>Chandrashekhar Chincholkar</b>, Director of Corporate Advisory, CES</p> <ul style="list-style-type: none"> <li>• <b>Chair: Dr. Jeet Vijay</b>, CEO, Meity Startup Hub, Ministry of Electronics and Information Technology (MeitY)</li> </ul> <p><b>Co-Chair:</b></p> <ul style="list-style-type: none"> <li>• <b>Dr. Mrityunjay Suar</b>, Chairman, BCKIC</li> <li>• <b>Dr. Saishyam Narayanan</b>, CEO, IIT-IPTIF</li> <li>• <b>Rakesh Malhotra</b>, Founder of SAR Group</li> <li>• <b>Faruk Kazi</b>, PI &amp; Coordinator, VJTI-TBI*</li> <li>• <b>Dr. Aravind Kumar Chandiran</b>, Associate Professor, IIT Madras</li> <li>• <b>Sandeep Tandon</b>, National Project Manager, FLCTD Project, UNIDO*</li> </ul>
15:00 - 15:45 IST	<p><b>TECH IGNITION SESSION</b></p> <ul style="list-style-type: none"> <li>• 7 Habits of Highly Effective EV Startups</li> <li>• Ansys Sustainability Solution for EV, Battery management, Green Energy and its storage</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Prasanna Deshpande</b>, Application Engineering Manager, MathWorks</li> <li>• <b>Himanshu Chattwal</b>, Sr. Sales Manager, MathWorks</li> <li>• <b>Vinay Sawant</b>, Sr. Simulation Engineer, FEA at 3D Engineering Automation</li> </ul>
15:45 - 16:30 IST	<b>INVESTMENT TALK</b>	<ul style="list-style-type: none"> <li>• <b>Pratik Agarwal</b>, Vice President, Singularity AMC LLP*</li> <li>• <b>Christine Vincent</b>, Venture Principal, Shell Ventures</li> </ul>
16:30 -18:00 IST	High Tea and Expo Visit	
19:00 IST Onwards	Networking Diner	

- ❖ This event is only open for registered/ invited start-ups and investors (not open for regular delegates)

# IESA-ISA Future Mobility Learning Centre (FELC)

**1<sup>st</sup>-2<sup>nd</sup> July 2024, Seminar Hall, 1B, IICC, New Delhi**

<b>Day – 1, July 01, 2024</b>			
<b>SN</b>	<b>Timing</b>	<b>Topic</b>	<b>Speaker</b>
1	11:15 – 11:30 IST	Opening Remark	<b>Dr Mridula Bharadwaj</b> , Capacity Building Specialist, International Solar Alliance (ISA)
2	11:30 – 12:00 IST	Advancements in Battery Technologies	<b>Dr Raghvendra Gupta</b> , Researcher, IIT Delhi
3	12:00 – 12:30 IST	Solar + Storage: Need & Significance	<b>Dr Vikrant Sharma</b> , Deputy Director, National Institute of Solar Energy (NISE)
4	12:30 – 13:00 IST	Overview of Green Hydrogen	<b>Dr. Deepak Kundalkar</b> , Manger – GH2 Initiative, Customized Energy Solutions (CES)
<b>Day – 2, July 02, 2024</b>			
5	14:00 – 14:30 IST	E-mobility: Current and Future Trends	<b>Gurusharan Dhillon</b> , Director of Electric Mobility, Customized Energy Solutions (CES)
6	14:30 – 15:00 IST	EV Charging Infrastructure	<b>Tyag Dharmik</b> , Founder, Cubenz Power Pvt Ltd
7	15:00 – 15:30 IST	Microgrids: Status and Deployment Concerns	<b>Rupesh Badkhal</b> , Senior Program Associate, Customized Energy Solutions (CES)
8	15:30 – 15:45 IST	Vote of thanks and feedback	<b>Anurag Jain</b> , Training Coordinator IESA Academy

- ❖ FELC is open to all registered delegates, exhibitors, and Visitors

# Women in Energy Forum

**2<sup>nd</sup> July 2024, Seminar Hall, Exhibition Centre, IICC, New Delhi**

Time	Session	Discussion Points	Speakers
16:30 - 18:00 IST (Seminar Hall, Exhibition centre)	Women in Energy Roundtable Discussion	<p><b>Sustaining Women's Participation in the Workforce:</b></p> <ul style="list-style-type: none"> <li>Recognizing barriers to women's sustained participation.</li> <li>Creating inclusive workplaces to retain and advance women professionals.</li> </ul> <p><b>Policy Measures for Ensuring Safety of Women Professionals at Work:</b></p> <ul style="list-style-type: none"> <li>Evaluating current policies' efficacy in safeguarding women.</li> <li>Proposing stronger policies and enforcement to combat harassment and ensure safety.</li> </ul> <p><b>Skill Development:</b></p> <ul style="list-style-type: none"> <li>Identifying skill gaps hindering women's career growth.</li> <li>Implementing accessible skill development programs to empower women.</li> </ul> <p><b>Improving Work-Life Balance and Men's Support:</b></p> <ul style="list-style-type: none"> <li>Discussing the impact of work-life balance on women's careers.</li> <li>Engaging men in promoting gender equality and supporting work-life balance initiatives.</li> <li>Mentorship and Support Networks Within Your Organization</li> </ul>	<ul style="list-style-type: none"> <li><b>Dr. Veena Kumari Dermal</b>, Joint Secretary, Ministry of Mines*</li> <li><b>Divya Sharma</b>, Executive Director, Climate Group</li> <li><b>Mili Majumdar</b>, Managing Director, GBCI &amp; Senior Vice President, Innovation and Research at U.S Green Building Council</li> <li><b>Dr. Surekha Deshmukh</b>, Senior Member, IEEE</li> </ul>
18:00 - 18:30 IST	Tea break		
18:30 pm - 19:30 IST	Leadership Talk	<ul style="list-style-type: none"> <li>Sharing Success Stories of Role Models in the Energy Sector</li> <li>Journey of the Leaders: Challenges Faced and Lessons Learned in the Energy Sector</li> <li>Empowering Future Generations: Inspiring Young Women to Enter the Energy Sector</li> </ul>	<ul style="list-style-type: none"> <li><b>Dhanya Rajeswaran</b>, Country Managing Director, Fluence India</li> <li><b>Netra Walawalkar</b>, Vice President, CES India</li> <li><b>Gauri Singh</b>, Deputy Director General, International Renewable Energy Agency (IRENA)</li> <li><b>Dr. Preetam B Yashvant</b>, Joint Secretary, Ministry of Women &amp; Child Development*</li> <li><b>Denise Eaton</b>, Trade &amp; Investment Commissioner (Resources &amp; Energy), Austrade</li> </ul>
19:30 - 20:00 IST	WE Felicitation ceremony		
20:00 IST onwards	Networking Reception		

❖ Women in Energy Forum is open to all registered Women Participants

# Industry stakeholder consultation workshop: Indian EVs & Battery Gigafactories: Imperatives for a Robust Supply Chain

Powered by CES || Seminar Hall, 1B, Expo Area || 2<sup>nd</sup> July 2024, IICC, New Delhi

India is on the path to a clean energy transition, targeting a 30% electric vehicle (EV) share in registered vehicles by 2030. This will require approximately 600-785 GWh of lithium-ion batteries (LIB) between 2022 and 2030, for EV batteries and battery energy storage systems (BESS) that are required to power this clean energy transition.

Presently, the EV market in the country in 2023 witnessed a penetration rate of 7% with EV battery demand of around 15 GWh in 2023. The EV market in India is expected to grow at a CAGR of 35% from 2023 to 2032 under the business-as-usual case. High demand for EVs and stationary storage has prompted the government to introduce the ACC PLI Scheme which aims to promote 50 GWh of domestic manufacturing of ACC batteries by 2025. With this Scheme, many existing battery players and new entrants have announced their plans to build giga factories in the country.

With the rise in EV adoption followed by an emphasis on manufacturing domestic gigafactories, it's crucial to check the status and address the associated challenges, especially regarding the materials required for manufacturing EV ACC batteries. For this, an enhanced understanding of the material requirements across the supply chain, from upstream to downstream, is indeed essential for all stakeholders involved.

Customized Energy Solutions (CES), along with its knowledge partner with Shakti Sustainable Energy Foundation, is conducting a comprehensive analysis of EVs & battery gigafactories in India, focusing on understanding India's 2032 and 2047 EV and ACC battery demand forecast and scenarios. Under this initiative, CES is delving into crucial aspects such as EV and battery market forecasts across different EV battery chemistries with a key objective of identifying gaps in the present battery supply chain and providing policy recommendations for increased localization and resilient battery supply chain in India.

As part of this initiative, CES is organizing an industrial stakeholder roundtable workshop during India Energy Storage Week (IESW) on 2<sup>nd</sup> July 2024 at the India International Convention and Expo Center (IICC), Dwarka, New Delhi. Your insights and suggestions would be invaluable in shaping this discourse.

We cordially invite you to share your expertise and perspectives at this event. Your participation will greatly enrich the discussions and contribute to the formulation of meaningful recommendations.

<b>1:00 – 2:00 pm</b>	<b>Networking Lunch</b>	
<b>2:00 - 2:10 pm</b>	<b>Welcome and Introduction</b>	<ul style="list-style-type: none"> <li><b>Harsh Thacker</b>, Customized Energy Solutions</li> </ul>
<b>2:20 – 2:30 pm</b>	<b>Context Setting Address</b>	<ul style="list-style-type: none"> <li><b>Mr. Narayankumar Sreekumar</b>, Associate Director (Electric Mobility), Shakti Sustainable Energy Foundation</li> </ul>
<b>2:20 - 2:40 pm</b>	<b>Research Presentation</b> EVs & Battery Gigafactories: Imperatives for a Robust Supply Chain in India	<ul style="list-style-type: none"> <li><b>Monami Dey/ Parth Pandit</b>, Customized Energy Solutions</li> </ul>
<b>2:40 - 3:00 pm</b>	<b>Brainstorming Session</b> Working group formation and brainstorming into groups	<ul style="list-style-type: none"> <li><b>Parth, Monami, Akshita, Harsh, Rohit, Bhupesh, Anjan</b></li> </ul>
<b>3:10 – 3:50 pm</b>	<b>Working Group Presentations</b> Summary of discussions	<ul style="list-style-type: none"> <li><b>Monami/ Akshita</b></li> </ul>
<b>3:50 - 4:00 pm</b>	<b>Concluding Session</b> Summarizing Discussions	<ul style="list-style-type: none"> <li><b>Mr. Rishabh Sethi</b>, Programme Manager (Electric Mobility), Shakti Sustainable Energy Foundation</li> </ul>
	Vote of Thanks	Customized Energy Solutions



# India LDES Forum

**Supported by LDES Council || 3<sup>rd</sup> July 2024, Kenar Hall (403), IICC , New Delhi**

In association with the LDES Council, IESA is organizing a dedicated India LDES Forum to advance the deployment of LDES technologies in the Indian energy storage market.

Structure of the India LDES Forum 2024

Key Discussion Points

- Global LDES technologies readiness and global landscape focused on the markets.
- Understanding the key changes in the growth of LDES deployment in India
- Overall costs for decarbonized buildouts, and planning tools for grid decarbonization through LDES technologies.
- Regulatory support is required for implementing LDES projects in India.
- Setting up the target for LDES deployment for India
- LDES technologies – applications and implementation status
- Future implications and limitations

<p><b>LDES Roundtable</b></p> <p><b>16:30- 18:00 IST</b></p>	<p><b>Chair:</b></p> <ul style="list-style-type: none"> <li>• Julia Souder, CEO, LDES Council</li> </ul> <p><b>Co-Chair:</b></p> <ul style="list-style-type: none"> <li>• Dr. Avishek Kumar, CEO, Vflowtech</li> <li>• Upma Koul, Sr. VP, Energy Storage Business, Sumitomo SHI FW</li> </ul> <p><b>Key Panellist:</b></p> <ul style="list-style-type: none"> <li>• William Tope, Chief Executive Officer, LINA Energy</li> <li>• Mani Khurana, Sr. Energy Specialist, World Bank</li> <li>• Yashwanth Mahadevan, VP - Sales, APAC, EOSE</li> <li>• Shirish Deshmukh, AGM – Special Projects, Godrej-UEP</li> <li>• Vidyadhar Bhise, DGM, Aditya Birla</li> <li>• Prasad Joshi, Vice President, Greenko</li> <li>• Satish Talmale, COO, Indigrid</li> <li>• Vishal Mittal, Founder, Delectrik Systems Private Limited</li> <li>• Vaibhav Dalvi, BASF</li> <li>• Prashant Kumar Upadhyay, Sr. Manage, SECI*</li> <li>• Lekhraj Singh, NTPC*</li> <li>• Mr. Hiren Shah, Executive Director &amp; CEO, Replus Engitech*</li> <li>• Akash Kaushik, Co-Founder, Good Enough Energy*</li> <li>• Sunil Sharma, Commercial Executive, BSES Yamuna Power</li> <li>• Naveen Nagpal, Asst. Vice President (Renewables, BESS &amp; new initiatives), BSES Rajdhani</li> <li>• Sajjan George, Chief General Manager,, GRID India</li> <li>• Chalapathi Rao, MNRE*</li> <li>• JSW Energy/ Vena Energy</li> <li>• EDINA</li> <li>• Ampin Energy Transition</li> <li>• Envision Energy</li> <li>• O2 Power/ Sterling Wilson</li> <li>• Reliance / Cygni</li> <li>• ONGC Tripura</li> </ul>
<p><b>18:30 IST Onwards</b></p>	<p><b>Happy Hours &amp; Networking Dinner for LDES Roundtable Participants</b></p>

# Roundtable on Green Hydrogen Growth: Sub-National Dialogue on Catalysing Change for Addressing Growth Hurdles

**Organized by WRI || Kenal Hall-403 || 4<sup>th</sup> July 2024, IICC, New Delhi**

The Government of India is implementing the National Green Hydrogen Mission, aiming to position the country as a leading producer and exporter of green hydrogen globally. The mission sets an ambitious goal of producing of 5 million metric tons (MMT) annually by 2030. Under the Mission, the Government of India has introduced various incentives, policy mechanisms, and supportive frameworks to encourage green hydrogen production and electrolyser manufacturing. Following these initiatives, several Indian states including Maharashtra, Andhra Pradesh, Uttar Pradesh, Haryana, Punjab, Madhya Pradesh, Himachal Pradesh, West Bengal, Gujarat, Rajasthan, Odisha, Sikkim, Kerala, Tamil Nadu, and Karnataka have undertaken specific steps to facilitate green hydrogen. The states' approaches range from drafting dedicated hydrogen policies to budgetary allocations, and facilitating projects through respective renewable energy policies, and industrial policies.

These state-level initiatives include various incentives targeted at reducing the cost of renewable energy used to produce green hydrogen and green ammonia, as well as measures to develop a robust manufacturing ecosystem for electrolysers and other critical technologies. Accordingly, significant measures have been proposed in various state government policies to enable industry to ramp up green hydrogen production and exports. These include, incentives aimed at reducing the cost of renewable energy encompass various measures such as exemptions on electricity duty charges, cross-subsidy surcharges, additional subsidy surcharges, intrastate transmission charges, and wheeling charges. Additionally, these incentives extend to land allocation, entailing government land provision at subsidized rates, stamp duty exemptions, and exemptions from other local taxes. Further support is provided through assistance and incentives for innovation and research & development, GST reimbursement, employment subsidies, CAPEX subsidies for electrolyzer and equipment manufacturing facilities, subsidies for green hydrogen utilization across diverse applications, facilitation of water infrastructure development, single-window clearance, and transmission connectivity facilitation.

However, further challenges are anticipated as the industry moves towards implementation of projects. Industry stakeholders have highlighted the lack of domestic offtake, availability of land at suitable locations, access to renewable electricity, and availability of critical equipment and associated infrastructure as some of the crucial pieces. These challenges vary by state or region, requiring a tailored policy approach. It will accordingly necessitate close collaboration among industry stakeholders, research institutions, academia, and the relevant government bodies to identify and execute strategic actions.

This roundtable discussion will seek to facilitate the dialogue between government institutions and industry stakeholders, highlighting the key challenges in the implementation of hydrogen projects in the country, and deliberating how state-level policies could facilitate the process. The aim is to have an open and constructive discussion to identify specific bottlenecks and obstacles and suggest concrete steps that could mitigate them.

Time	Session	Details
11:00 – 11:05	Opening Remarks	<ul style="list-style-type: none"> <li><b>Anuraag Nallapaneni</b>, Program Manager – Hydrogen, WRI India</li> </ul>
11:05 – 11:15	Context Setting	The necessity of a sub-national dialogue for growth of the hydrogen ecosystem in India <ul style="list-style-type: none"> <li><b>Dipesh Pherwani</b>, Associate Director – Energy Innovations and Tech, WRI India</li> </ul>
11:15 – 11:35	Presentation	<b>Presentation: WRI India</b>
11:35 – 12:50	Roundtable discussion	<b>Roundtable discussion anchored on the following themes:</b> <ul style="list-style-type: none"> <li>Developing Green Hydrogen Infrastructure and Market at the State Level</li> <li>Enabling Hydrogen Project Development and Market Growth through Collaboration</li> </ul>
12:50 – 1:00	Concluding Session	Discussion Summary
1:00 PM onwards		Networking Lunch

### PARTNER COUNTRIES AND PAVILIONS



### KEY PARTNER



### EXPO PARTNER



### SUPPORTING PARTNER



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