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Virtual Global Conference and Expo

22 September, 2022  
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CONTACT: Ashok Thakur: +91 98199 44543 | athakur@ces-ltd.com | Debi Prasad Dash: +91 9699719818 | ddash@ces-ltd.com

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Audi 01



**R1**  
**ASIA PACIFIC**



**R1 (Australia & New Zealand, Singapore, Philippines, Indonesia, Japan, China, South Korea)**

10:00 - 17:30 ACST || 09:30 - 17:00 JST & KST || 02:30 - 10:00 CET, Singapore

Time (ACST) 10:00 - 11:30	MANUFACTURING & SUPPLY CHAIN SESSION
Moderator	Rohit Laumas, Sr. Consultant, Customized Energy Solutions (CES)
	Stacy Osenbaugh, Commercialization Manager, Future Battery Industries CRC
	Hilary Boreham, Manager (Mineral Resources and Energy) and Lead (Critical Minerals), Austrade
	Peng Gao, Vice President, ESS BU, Gotion
	Nicholas Gurnon, Sr. scientist, Polaris labs
	Nie Qinlong, Senior Technical Engineer, Xiamen Kehua Digital Energy Tech Co.,Ltd
<b>11:30-12:00</b>	<b>BREAK</b>
<b>12:00 - 13:30</b>	<b>E-MOBILITY SESSION</b>
Moderator	Anjan Merkap, Consultant - Emerging Technologies, Customized Energy Solutions (CES)
	Dr. Tom Moerenhout, Resident Scholar, School of International and Public Affairs, Columbia University
	Sohail Hasnie, Principal Energy Specialist, Asian Development Bank
	Young-II Lee, Professor, Seoul National University of Science and Technology
<b>13:30 – 14:00</b>	<b>BREAK</b>
<b>14:00 – 15:30</b>	<b>STATIONARY ENERGY STORAGE SESSION</b>
Moderator	Harsh Thacker, Director, Emerging Technologies, Customized Energy Solutions (CES)
	Lisa Ma, China Energy Storage Alliance (CNESA)
	Ben Shepherd, VP Strategy, Relectrify
	John Wood, Founder, NOAB ventures
	Achal Sondhi, VP, Growth, APAC, Fluence Energy
	Tim Harris, Managing Director & CEO, Redflow
	Jake Gamboa, Head of Business Development, Citicore
<b>15:30-16:00</b>	<b>BREAK</b>
<b>16:00-17:30</b>	<b>GREEN HYDROGEN SESSION</b>
Moderator	Aditya Prasad Palavi, Consultant, Customized Energy Solutions (CES)
	Ohira Eiji, Director – Hydrogen & Fuel Cell, New Energy and Industrial Technology Development Organization (NEDO)
	Knut Linnerud, CEO, Greenstat Asia
	Liu Chang Zhi, Senior Sustainable Product Engineer, Rolls-Royce Solutions (Suzhou) Co. Ltd., China (Rolls-Royce Power Systems)
	Yeongtae Son (Allen), Business Development Manager, VINATech Co., Ltd

**R2**

**INDIA, SAARC, RUSSIA**



<b>R2 (India, SAARC, Russia)</b>	
10: 00 – 17: 30 IST    07: 30 – 15: 00 MSK	
<b>Time (IST)</b> <b>10:00 - 11:30</b>	<b>MANUFACTURING &amp; SUPPLY CHAIN SESSION</b>
<b>Moderator</b>	Dr. Rahul Walawalkar, President & Managing Director, Customized Energy Solutions (CES), India
	Sudhendu Sinha, Advisor – Infrastructure Connectivity – Transport & Electric Mobility, Niti Aayog
	Gayatri Dadheech, Chief Technology Officer (CTO), Exide Industries
	Vijayanand Samudrala, President - New Energy, Amara Raja Batteries
	Vikram Handa, Managing Director, Epsilon Advanced Materials
	Brieux Boisdequin, Vice President, Automotive & Materials – India, BASF India Limited
<b>11:30-12:00</b>	<b>BREAK</b>
<b>12:00 - 13:30</b>	<b>E-MOBILITY SESSION</b>
<b>Moderator</b>	Chaitanya Kanuri, Senior Program Manager - Electric Mobility, World Resources Institute (WRI), India
	Ashish Kundra, Principal Secretary, Government of Delhi
	Harsh Thacker, Director, Consulting – Emerging Technologies, Customized Energy Solutions (CES)
	Sumit Mittal, Chief Financial Officer, GreenCell Mobility
	Tanvir Singh, Co-Founder, Mooving
	Awadhesh Jha, Executive Director, Fortum Charge and Drive
	Raja Gayam, Co-founder and President of Biliti Electric Inc.
<b>13:30 - 14:00</b>	<b>BREAK</b>
<b>14:00 - 15:30</b>	<b>STATIONARY ENERGY STORAGE SESSION</b>
<b>Moderator</b>	Netra Walawalkar, Vice President – India Operations, Customized Energy Solutions (CES)
	Ghanshyam Prasad, Chairperson, Central Electricity Authority (CEA)
	Dr. Bharat Reddy, Additional General Manager, Solar Energy Corporation of India (SECI)
	Dr. Rahul Tongia, Sr. Fellow, Centre for Social & Economic Progress (CSEP)
	Rupam Raja, Market Director- South Asia, Fluence Energy
	Rahul Jain, Head - Energy Storage, Renew Power
<b>15:30-16:00</b>	
<b>16:00 - 17:30</b>	<b>GREEN HYDROGEN SESSION</b>
<b>Moderator</b>	Pawan Mulukutla, Director – Clean Mobility & Energy Tech, World Resources Institute (WRI), India
	H. E. Ambassador Hans Jacob Frydenlund, Norwegian Embassy in New Delhi
	K. R. Jyothilal, Principal Secretary (Power, Forest, and General Administration), Government of Kerala
	Pawan Mehndiratta, Head – Corporate Centre – Technology & Manufacturing, L&T Green Energy
	Dr. Anurag Pandey, Vice President - Hydrogen Value Chain, New Energy, Reliance Industries Limited

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**Audi 01**



**R3**

**EUROPE, MIDDLE EAST AND AFRICA**



<b>R3 (Europe, UK, Middle East, Africa)</b>	
10:30 - 18:00 CEST    09: 30 – 17: 00 UTC   10:30 - 18:00 SAST    12:30 - 20:00 UAE    10:30- 18:00 BST	
<b>Time (CEST)</b> <b>10:30 - 12:00</b>	<b>MANUFACTURING &amp; SUPPLY CHAIN SESSION</b>
Moderator	Ashok Thakur, Editor in Chief, Emerging Technology News, Customized Energy Solutions (CES)
	Robert Colbourn, Publisher, Benchmark Mineral Intelligence
	Lars Carlstorm, Founder & CEO, Italtvolt
	Mohan Yelishetty, Co-founder, Critical minerals Consortium
<b>12:00 - 12:30</b>	<b>BREAK</b>
<b>12:30 - 14:00</b>	<b>E-MOBILITY SESSION</b>
Moderator	Avanthika Satheesh, Industry Research Manager, Customized Energy Solutions (CES)
	Adam Panayi, Managing Director, Rho Motion
	Akash Passey, President, VE Commercial Vehicles
	Kristin Skofteland, Chief Commercial Officer & Legal Counsel, Beyonder
	Roberta Mugellesi Dow, Business Applications Manager, Downstream Business Applications Department, European Space Agency (ESA)
<b>14:00-14:30</b>	<b>BREAK</b>
<b>14:30 - 16:00</b>	<b>STATIONARY ENERGY STORAGE SESSION</b>
Moderator	Alfons Westgeest, General Manager, Association of European Automotive and Industrial Battery Manufacturers (EUROBAT)
	Ole Jakob Sjørdalen, Chief Innovation Officer, PIXII AS
	Juliet Pumpuni, Senior Energy Specialist, World Bank, ESMAP
	Akihiro Kai, Project Manager - Sodium Sulfur Battery, NGK Insulators
	Frederik Sullwald, Head of Sales Utilities & Key Accounts, Intilion
	Mark Howitt, CTO and Co-Founder, Storelectric Ltd
<b>16:00-16:30</b>	<b>BREAK</b>
<b>16:30-18:00</b>	<b>GREEN HYDROGEN SESSION</b>
Moderator	Cristian Carter, Director, Innovation Norway
	Charles Howland, Partner, Curtis, Mallet-Prevost, Colt & Mosle LLP
	Natalie Gupta, Director - Bunkering Yara Clean Ammonia, Yara International ASA
	Bernd Frank, Director, Atotech

For any queries reach us at [contact@indiaesa.info](mailto:contact@indiaesa.info) || [event@indiaesa.info](mailto:event@indiaesa.info)

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**WORLD ENERGY  
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22<sup>nd</sup> SEPTEMBER

**R4**

**UNITED STATES,  
LATIN AMERICA  
AND CANADA**



**R4 (USA, Canada, Latin America (Brazil, Chile, Argentina))**

10:30 – 18:00 EST

<b>Time (EST)</b> <b>10:30-12:00</b>	<b>MANUFACTURING &amp; SUPPLY CHAIN SESSION</b>
Moderator	John Fernandes, Senior Consultant, Customized Energy Solutions (CES)
	Naoki Ota, CEO, 24M Technologies
	Dr. Prabhakar Patil, Former CEO, LG Chem, USA
	Venkat Srinivasan, Director, Argonne Collaborative Center for Energy Storage Science (ACCESS)
	Robert Galyen, Former CTO, CATL
<b>12:00-12:30</b>	<b>BREAK</b>
<b>12:30-14:00</b>	<b>E-MOBILITY SESSION</b>
Moderator	Ann Yu, Senior Consultant, Customized Energy Solutions (CES)
	Zach Woogen, Policy Manager, VGIC
	Steven Kaye, CTO, Our Next Energy
	Aviv Tzidon, Chairman, Phinergy & eViation
	Dr. Yashodhan Agalgaonkar, Senior Research Scientist, Power and Energy Systems, Energy System Integration Facility, National Wind Technology Centre, National Renewable Energy Laboratory (NREL)
<b>14:00 – 14:30</b>	<b>BREAK</b>
<b>14:30 - 16:00</b>	<b>GREEN HYDROGEN SESSION</b>
Moderator	Frank Wolak, President, Fuel Cell & Hydrogen Council
	Massi Miliano Cervo, Lecturer, National University of Technology, Argentina
	Nicola de Blasio, Senior Fellow, Harvard University
	Roxana Bekemohammadi, Executive Director, United States Hydrogen Alliance (USHA)
	Cyrus Tingley, Director - Electrolyzer Sales, Plug Power
	Rafael Ben, Energy Specialist, World Bank Group
<b>16:00 – 16:30</b>	<b>BREAK</b>
<b>16:30 - 18:00</b>	<b>STATIONARY ENERGY STORAGE SESSION</b>
Moderator	Erik Paulson, VP - Wholesale Operations, Customized Energy Solutions
	Curtis Ashton, Director - Training, American Power Systems
	Jason Burwen, Vice President - Energy Storage, American Clean Power Association (ACPA)
	Jacqueline DeRosa, VP - Energy Storage Systems, Ameresco
	John Newton, Principal Regulatory Analyst, East Bay Community Energy

For any queries reach us at [contact@indiaesa.info](mailto:contact@indiaesa.info) || [event@indiaesa.info](mailto:event@indiaesa.info)

# BATTERY FIRES IN EV & ESS WORKSHOP

Date: September 22, 2022 | Time: 18: 30 – 20: 00 IST, 08: 00 – 09: 30 CEST, 09: 30 – 10: 30 EST



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## WORKSHOP Hall-2

### Hazards associated with battery fires in EV and ESS



Date: September 22, 2022

Time: 06:30 pm - 08:00 pm IST | 08:00 am - 09:30 am CT | 09:00 am - 10:30 am ET

#### Workshop description:

Lithium-ion battery fires have become a common occurrence today with the inception of e-mobility (EV) and stationary grid energy storage systems (ESS). Thermal runaway of lithium-ion batteries is accompanied by high temperatures, venting, fire, smoke, and particulate emissions. The gaseous components of the fire and smoke can be above lower flammability limit (LFL) and cause explosions if trapped within a restricted volume as with EV and ESS. Hazards such as cycle life and calendar life aging under extreme environmental conditions can lead to various levels of degradation. Some degradations can lead to hazardous events in the batteries causing thermal runaway and fires.

The presenters at this workshop will cover battery aging hazards and emissions and explosions associated with lithium-ion batteries under off-nominal conditions.

#### Workshop structure

Topic	Speaker	Time (IST   CT   ET)
Welcome & Introduction to the workshop	Dr. Judy Jeevarajan Vice President & Executive Director, Electrochemical Safety Research Institute, UL Research Institutes	06:30 pm – 06:35 pm IST 08:00 am – 08:05 am CT 09:00 am – 09:05 am ET
Aging and safety for li-ion cells and batteries	Dr. Anna G. Stefanopoulou William Clay Ford Professor of Technology, Professor of Mechanical Engineering, University of Michigan	06:35 pm – 06:50 pm IST 08:05 am – 08:20 am CT 09:05 am – 09:20 am ET
Particulate emissions	Dr. Vinay Premnath Lead Engineer, Particle Science and Technology Section, Southwest Research Institute (SWRI)	06:50 pm – 07:05 pm IST 08:20 am – 08:35 am CT 09:20 am – 09:35 am ET
Plume-rise and dispersion modelling in open surrounding of smoke from large-scale lithium-ion battery fires	Dr. Christian Lejon Research Engineer, Swedish Defense Research Agency (FOI)	07:05 pm – 07:15 pm IST 08:35 am – 08:45 am CT 03:35 pm – 03:45 pm Sweden time
Aerosol studies and explosion proof containers related to lithium-ion batteries	Dr. Teresa Barone Chemical Engineer, National Institute for Occupational Safety and Health (NIOSH) Dr. Thomas Dubaniewicz Lead General Engineer, National Institute for Occupational Safety and Health (NIOSH)	07:20 pm – 07:35 pm IST 08:50 am – 09:05 am CT 09:50 am – 10:05 am ET
EV fires' investigations	Dr. Thomas Barth Chief, Special Investigations Branch, Office of Highway Safety, National Transportation Safety Board (NTSB)	07:35 pm – 07:50 pm IST 09:05 am – 09:20 am CT 10:05 am – 10:20 am ET
Acknowledgements and Closing Remarks	Dr. Judy Jeevarajan Vice President & Executive Director, Electrochemical Safety Research Institute, UL Research Institutes	07:50 pm – 08:00 pm IST 09:20 am – 09:30 am CT 10:20 am – 10:30 am ET

FOR FURTHER QUERIES, CONTACT Tushar Kakade | E-mail: [contact@indiaesa.info](mailto:contact@indiaesa.info)

## GIGAFACTORY SUPPLY CHAIN WORKSHOP

Date: September 22, 2022 | Time: 16: 00 – 17: 30 IST, 12: 30 – 14: 00 CEST, 06: 30 – 08: 00 EST



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### WORKSHOP

## Gigafactory Supply Chain



#### About the Workshop

The agenda for the discussion is to provide an overview of Giga factory supply chains in the region ( Europe / South Africa / Middle east region) . Global demand for lithium-ion based applications such as electric vehicles and grid-scale energy storage is expected to grow tremendously over the upcoming decade. This surge in demand has resulted in the announcement of 40+ lithium-ion battery "Gigafactories" with approx. 1.2TWh of planned capacity. However, the lack of investment and technology development in the upstream supply chain for lithium, nickel, and cobalt battery-grade chemicals could threaten the industry's progress. This talk will explore key steps that industry, academia, and governments could undertake to unlock the opportunities in this rapidly growing industrial supply chain.

Topic	Speaker
Welcome and introduction to the workshop	Harsh Thacker, Director- Emerging Technologies, Customized Energy Solutions (CES)
Global Lithium supply chains and opportunities in south America	Vincent Boissonneault, Independent Consultant, Li-supply chain from South Americas
Global Anode supply chains and opportunities in Europe	Puruvi Poddar, Chief Corporate and BD, Tirupati Graphite
Present scenario, current and future trends, key challenges of Global LIB supply chains	Srinivas Popuri, Managing Partner, SP consulting
Moderated panel discussion	Akash Saraf, Senior Analyst- Emerging Technologies, Customized Energy Solutions (CES)

## BATTERY RECYCLING WORKSHOP

Date: September 22, 2022 | Time: 18: 00 – 19: 30 IST, 14: 30 – 16: 00 CEST, 08: 30 – 10: 00 EST



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## WORKSHOP

### Battery Recycling



#### About the Workshop

With the growing demand for Electric Vehicles (EV) and Renewable Energy (RE) systems, the requirement for Lithium-ion batteries (LiBs) will increase significantly in the coming years. LiBs have a shelf life and require appropriate treatment post-life. The retired EV batteries can be further used for RE applications. However, due to the absence of a regulatory framework for secondary applications of used EV batteries and a recycling ecosystem, presently, they are being dumped into landfills. LiBs contain valuable metals such as cobalt, nickel, manganese, lithium, graphite, and aluminum. These metals can be recovered up to (and even beyond) 90% with the existing (and new emerging) recycling technologies. Further, some metals are considered hazardous materials that can contaminate the environment and harm human health if not treated appropriately. Developing a battery repurposing and recycling ecosystem will reduce waste volumes and bring cost-effectiveness to large-scale deployment of batteries in RE and other stationary applications. Further, introducing recycled materials into the battery supply chain will help offset the dependence on imports of critical materials.

This workshop will discuss the current battery waste surging in various sectors, the scope of secondary applications, Recycling benefits, the recycling ecosystem (Global and Indian), associated challenges, policy, regulatory frameworks, etc.

Topic	Speaker
Welcome Remarks and Introduction to the Session	Bhupesh Verma, Manager—Market Research, India Energy Storage Alliance
Global Recycling Ecosystem (Technology Trends, Economics, Recycling Capabilities, Developments in Technology, Associated challenges, etc.)	Ashton Tan, Regional Business Development Manager, Green Li-ion
Need for Recycling in the EU, and overview of second-life batteries	Dr. Claude Chanson, General Manager, Recharge Batteries
Recycling Ecosystem in India (Technology Trends, Economics, Recycling Capabilities, Challenges, etc.)	Utkarsh Singh, CEO, BatX Energies
Regulations for battery waste management in India	Bhupesh Verma, Manager—Market Research, India Energy Storage Alliance
Concluding Remarks	Bhupesh Verma, Manager—Market Research, India Energy Storage Alliance



# ENERGY STORAGE MODELING & OPTIMIZATION WORKSHOP

Date: September 22, 2022 | Time: 22: 00 - 23: 30 IST, 18: 30 – 20: 00 CEST, 12: 30 – 14: 00 EST



## WORKSHOP

### Energy Storage Modeling: From Planning to Operations



#### About the Workshop

As more and more renewables are getting integrated grid operations are becoming complex. Energy storage is a versatile technology that can bring needed flexibility. Storage can serve as peaking capacity, can provide ancillary services as well as operate as a transmission and distribution asset. However, energy storage is an energy-limited resource that creates a need for careful modeling to optimize the operation and maximize the value of the asset. Powered by CES' proprietary modeling platform CoMETS, this workshop brings practitioners approach to modeling and share examples of energy storage modeling for planning, investment decisions as well as operations.

#### The workshop will cover

- » Planning with production cost modeling:
- » Modeling for investment decisions:
- » Optimization in storage daily operations:

#### Who should Attend?

Electric industry professionals with experience in system planning processes, project developers, investors as well as financial analysts considering storage as an investment option.

#### Workshop Structure

- » Planning with Production Cost Modeling
- » Modeling for Investment Decisions
- » Optimization in Storage Daily Operations



Free to attend



Register Now

Website link : [www.energystorageday.org](http://www.energystorageday.org)

FOR FURTHER QUERIES, CONTACT Tushar Kakade | E-mail: [contact@indiaesa.info](mailto:contact@indiaesa.info)

Moderator	Jatin Sarode, Senior Analyst, Customized Energy Solutions
	Vijay CS, Senior Analyst, Customized Energy Solutions (CES)
	Joel Berger, Senior Consultant, Customized Energy Solutions (CES)

## MINIGRID & SOCIAL EQUITY WORKSHOP

Date: September 22, 2022 | Time: 20: 00 - 21: 30 IST, 16: 30 – 18: 00 CEST, 10: 30 – 12: 00 EST



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### WORKSHOP

## Minigrid and Social Equity



#### About the Workshop

Minigrids over the years have been instrumental in addressing energy access to millions of people across the world. We can classify minigrid development over the years into three phases. First phase was mostly driven by Government agencies setting up the minigrids where national electricity infrastructure is unable to penetrate and light those far-flung areas across difficult terrain, islands, and high-altitude regions. In second phase, public private partnership model evolved to further enhances the utility of the minigrids by not just addressing energy access issue but also using clean and reliable energy for powering small business by developing a concept of ABC model (Anchor load, Businesses and Communities). These phase of minigrid development and penetration was not only for powering basic lighting loads but also experimenting with different Productive End Use Applications (PEUA). Most of the PEUA have been successfully demonstrated but needs through evaluation in terms of scaling up potential, access to finance for setting up PEUA, developing robust market linkages and capacity building of local communities to operate these PEUA. From demonstration to successful deployment of PEUA would require number of stakeholders coming together to address issues mentioned above for successful roll out of PEUA for the minigrids.

In the workshop at World Energy Storage Day 2022 discussion would be more about successful PEUA that have been deployed by minigrids operators and hear from them opportunities, impacts challenges they foresee in making PEUA an integral part of minigrids for transforming rural economic landscape.

Keynote	Stephen Fernands, President, Founder and President of Customized Energy Solutions
Moderator	Dr. Imre Gyuk, Director of Energy Storage Research - Office of Electricity, U. S. Department of Energy
	Tatia Lemondzhava, Energy Specialist - Energy Sector Management Assistance Program (ESMAP), The World Bank
	Jens Jager, Director - Policy and Business Development, Alliance for Rural Electrification (ARE)
	Kapil Seth, Director and Co-founder, Mandalay Yoma
	Gopi Krishna, Director, EmSyS Electronics
	Nitin Akhade, Consultant and Program Manager - Rural Electrification and Livelihoods, Customized Energy Solutions India (CES)

## LONG DURATION ENERGY STORAGE WORKSHOP

Date: September 22, 2022 | Time: 00: 00 - 01: 30 IST, 20: 30 – 21: 30 CEST, 14: 30 – 16: 00 EST



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## WORKSHOP

# Long Duration Energy Storage



### About the Workshop

From materials to markets, innovations at all stages will be required to deploy the next generation of long-duration energy storage systems. The Department of Energy (DOE) representatives along with industry leaders will hold mini panels on foundational innovations, technologies beyond lithium-ion, and the process from scaling to commercialization. This workshop will serve as a guide to the next generation of energy storage.

This workshop will include:

- » Understanding of battery fire safety, especially in the EV and ESS sectors
- » Safety hazards and challenges of lithium-ion batteries
- » Modeling and simulation of lithium-ion battery fires
- » Battery fire characterization

Moderator	<b>Dr. Imre Gyuk, Director of Energy Storage Research - Office of Electricity, U. S. Department of Energy</b>
	<b>Julia Souder, Executive Director, Long Duration Energy Storage Council (LDESC)</b>
	<b>Curtis VanWalleghem, CEO, Hydrostor</b>
	<b>Phil Delleville, MD, Product Development, Strategy &amp; Operations, Malta</b>
	<b>Pranesh Rao, VP global engineering control system, EOS Energy</b>

Audi 03

## SOLAR + STORAGE WORKSHOP

Date: September 22, 2022 | Time: 12: 00 - 13: 00 IST, 08: 30 – 09: 30 CEST, 02: 30 – 03: 30 EST



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## WORKSHOP

# Solar + Energy Storage

### About the Workshop

With the rise of renewable energy, specifically solar the demand for storage solutions is growing rapidly. The future of the energy infrastructure lies in smart storage solutions for diverse market applications including solar shifting, smoothing, and ramp control and grid stability seamlessly combining premium hardware, advanced software and reliable services. With the fast development of mechanical and electro-chemical energy storage technologies, storage can strongly support the transition to solar energy. Energy storage is the missing piece of the energy transition puzzle. As the energy industry warms up to these technologies, utilities, developers, consumers, and power producers across the globe adopting and installing energy storage systems from kW-level to GW level.

In this workshop, global thought leaders and industry stalwarts will present and discuss about technology, applications, and market for solar + energy storage integration. The workshop will cover case studies from rooftop solar to grid scale project and pumped hydro technologies to advanced li-ion and emerging electro-chemical batteries.

Free to attend

### Who Should Attend

- » Renewable energy professionals (solar, wind)
- » Energy storage companies
- » Technology provider, power electronics companies
- » Regulators, policymakers and think-tank



Register Now

Website link : [www.energystorageday.org](http://www.energystorageday.org)

FOR FURTHER QUERIES, CONTACT

Tushar Kakade | E-mail: [contact@indiaesa.info](mailto:contact@indiaesa.info)

Moderator	<b>Subrahmanyam Pulipaka, CEO, National Solar Energy Federation of India (NSEFI)</b>
	<b>Alexander Hogeveen Rutter, Private Sector Specialist, International Solar Alliance (ISA)</b>
	<b>Ayush Misha, CEO &amp; Co-founder, Amperehour Energy</b>
	<b>Bindu Madhavi, Director-Policy &amp; Regulatory, India Energy Storage Alliance (IESA)</b>

# URBAN AIR MOBILITY WORKSHOP

Date: September 22, 2022 | Time: 22: 00 - 23: 30 IST, 18: 30 – 20: 00 CEST, 12: 30 – 14: 00 EST



## WORKSHOP

### Urban Air Mobility (UAM)



#### About the Workshop

Urban air mobility is developing at a rapid pace in India. India has witnessed a 34.4% surge in the number of drone or UAV startups between August 2021 (157 startups) and February 2022 (221 drone startups). Drones are also significantly being used by law enforcement agencies and for real-time monitoring of COVID-19 hotspots and containment zones to ensure strict compliance with lockdown guidelines. From SVAMITVA (Survey of villages and mapping with improvised technology in village areas) scheme of mapping out the Abadi areas to get residents' property cards to drone-based surveillance system for Railway Security, the rapidly expanding use of drones has prompted the DGCA to formulate new rules and regulations to govern the civilian use of drones in India.

The Drone Rules 2021 ("Drone Rules") is a supersession of the earlier existing Unmanned Aircraft System (UAS) Rules, notified in March, 2021. The central government believed the new rules to be a much more liberalized regime for unmanned aircraft systems than what existed previously. One notable change is that the coverage of drones under Drone Rules has been increased from 300kg to 500kg and will cover drone taxis. "The new Drone Rules will tremendously help start-ups and our youth working in this sector. It will open up new possibilities for innovation & business.

In September 2021, the Union Cabinet also cleared the production-linked incentive (PLI) scheme that shall provide incentives up to 20% to the manufacturers of drones and drone components over the value addition that they make. The union government has taken a serious paradigm shift to the drone industry by announcing 'Drone Shakti' in Budget 2022.

Topic	Speaker
Introduction on UAM	Venkat Viswanathan, Associate Professor, Carnegie Mellon University - Moderator
Which sector do you believe would be the leading area in next 5 years	Prem Kumar Vislawath, Founder & CEO, Marut Drones
How is DUMS contributing in UAM space and how UAM would help in decarbonization	R. Krishna Kumar, CTO, Dhaksha Unmanned System (DUMS)
How far along is human transportation	Felipe Varon, Founder and CEO, Varon
Moderated panel discussion	Venkat Viswanathan, Associate Professor, Carnegie Mellon University Venkat Viswanathan, Associate Professor, Carnegie Mellon University

Audi 04

## WORKFORCE DEVELOPMENT & JOBS WORKSHOP

Date: September 22, 2022 | Time: 22: 00 - 23: 30 IST, 18: 30 – 20: 00 CEST, 12: 30 – 14: 00 EST



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## WORKSHOP

### Workforce Development and Jobs in Energy Storage



#### Workshop structure

Topic	Speaker
Welcome and Introduction to the Workshop	Yen T. Yeh, Executive Director, Volta Foundation
Challenging skill sets and strategies to overcome lack of skilled workforce	Matt Anders, Divisional Manager, Piper Maddox
Why is skilling required in EV?	Ashoka Kumar, Senior Consultant, Axiscades Engineering Technologies Ltd
What do universities lack, and industries need? (Skilling, upskilling, reskilling)	Akshay Gill, Director, Makermax Inc.
Legacy EV's Approach to EV Education	Mavrick Knoles, President & Cofounder, Legacy EV
Efforts by IESA Academy to bridge the skill-gap	Aditi Pathak, Assistant Manager, IESA Academy
Questions by Moderator to the Speakers	Yen T. Yeh, Executive Director, Volta Foundation
Acknowledgements and Closing Remarks	Yen T. Yeh, Executive Director, Volta Foundation

FOR FURTHER QUERIES, CONTACT

Tushar Kakade | E-mail: [contact@indiaesa.info](mailto:contact@indiaesa.info)

Audi 03

## WOMEN IN ENERGY ROUNDTABLE

Date: September 22, 2022 | Time: 14: 00 - 15: 30 IST, 10: 30 – 12: 00 CEST, 04: 30 – 6: 00 EST



**WORLD ENERGY STORAGE DAY**  
Virtual Global Conference and Expo  
22 September, 2022  
[www.energystorageday.org](http://www.energystorageday.org)



### ROUNDTABLE

## The Role of Women in Energy Transition



#### About the Workshop

The “Women in Energy” session proceedings will reflect upon the role, opportunities, and barriers for women in the ongoing energy transition and transition toward electric mobility. The panelist will shed light on how the shift toward a greener grid and cleaner transportation has allowed newer opportunities for women to emerge, exchange learnings from global experiences, and share pathways and measures that have helped in unlocking women’s potential in the ongoing clean energy and EV transition.

#### Key points for discussion:

- » Potential/scope for women in new energy sectors
- » Access and barriers for women
- » How can policy decisions impact opportunities for women; policy measures to support women
- » How do energy partnerships work? How do they enable women?
- » Need for advocacy, awareness, and networking

Free to attend



Register Now

Website link : [www.energystorageday.org](http://www.energystorageday.org)

FOR FURTHER QUERIES, CONTACT

Tushar Kakade | E-mail: [contact@indiaesa.info](mailto:contact@indiaesa.info)

Moderator	Disha Agarwal, Program Lead – Renewables, The Council on Energy, Environment and Water (CEEW)
Keynote Speaker	Isabel Chatterton, Regional Industry Director for Global Infra, APAC, IFC, International Finance Corporation (IFC)
Keynote Speaker	Christine Lins, Executive Director, GWNET
	Selamawit Beneberu, Senior Energy Advisor and Staff representative, GIZ Energy Program Ethiopia, Vice chairperson of Ethiopian women in Energy, GIZ Energy Program, Ethiopia
	Jyoti Gulia, Founder, JMK Research & Analytics
	Bindu Madhavi, Director, Policy & Regulatory, IESA

## Audi 04

Date: September 22, 2022 | Time: 14: 00 - 15: 30 IST, 10: 30 – 12: 00 CEST, 04: 30 – 6: 00 EST



World Energy Storage Day (WESD) 2022 brings an exciting opportunity for start-ups across the globe to showcase their product and technologies to key industry stakeholders at the WESD 2022 – Virtual Global Conference & Expo on 22nd September 2022. The Global Start-up Show-case is an initiative under the Global Start-up Outreach Program piloted by Customized Energy Solutions



Topic	Speakers
<b>Introduction</b>	<b>Netra Walawalkar, Vice President – India Operations, Customized Energy Solutions (CES)</b>
<b>Keynote Session: Global drive for Net Zero and opportunities for Start-ups to make an impact in changing the status quo</b>	<b>Prof. Ashok Jhunjhunwala, President IIT Madras Research Park, IITM Incubation Cell and RTBI</b>
<b>Start-up Pitch Session 1</b>	<ul style="list-style-type: none"> <li>LINA ENERGY</li> <li>TRINANO TECHNOLOGIES PVT. LTD.</li> <li>AGRIVIJAY</li> <li>SOLID T</li> <li>MACLEC</li> <li>SHERU</li> </ul>
<b>IESA Start-up and Innovation Initiative</b>	<ul style="list-style-type: none"> <li>Kumar Shivam Kashyap, Manager, IESA</li> <li>Veena Hejmadi, Asst Manager, IESA</li> </ul>
<b>Keynote Session: UNIDO FLCTD Innovation Program</b>	<b>Sandeep Tandon, National Project Manager, FLCTD, UNIDO</b>
<b>Break</b>	
<b>Investors' Panel Discussion: Important characteristics of a Start-up from an Investors' perspective</b>	<ul style="list-style-type: none"> <li><b>Moderator: Chandrashekhar Chincholkar, Director-Corporate Advisory, CES India Pvt. Ltd</b></li> <li><b>Alipt Sharma, Managing Director, GEF Capital</b></li> <li><b>John Wood, Founder, NOAB Ventures</b></li> <li><b>Kasturi Gomatham, Deal Principal, M&amp;A, Renewables and Energy Solutions, Shell</b></li> <li><b>Siddharth Mehta, Investment Director, India, TDK Ventures</b></li> <li><b>Shreyansh Singhal, VP Investments, Ankur Capital</b></li> <li><b>Sachin Tagra, Partner, JSW Ventures</b></li> </ul>
<b>Pitch Session 2</b>	<ul style="list-style-type: none"> <li>BRISE CHEMICALS PVT LTD</li> <li>ZVS INTERNATIONAL PVT LTD</li> <li>ONE POINT FIVE DC PRIVATE LIMITED</li> <li>WINDSOHY, LLC</li> <li>PERRYMAN TECHNOLOGIES RESEARCH</li> <li>EARTHEN</li> </ul>
<b>Conclusion Remarks</b>	<b>Kumar Shivam Kashyap, Manager, IESA</b>