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India Energy Storage Alliance (IESA) and United Nations Industrial Development Organization (UNIDO) partners for promoting innovations in energy storage in India

Pune, India: India Energy Storage Alliance (IESA), India's leading alliance on energy storage & e-mobility partners with United Nations Industrial Development Organization (UNIDO) for "Facility of Low Carbon Deployment" (FLCTD) Innovation Challenge for technology innovation in beta deployment of electrical energy storage in India. To support and encourage the new innovations in Indian energy storage and e-mobility space, FLCTD by UNIDO on November 1, 2020, launched the 4th round of innovation challenge. Grant upto \$50,000 for winning technologies and recognition from Bureau of Energy Efficiency, UNIDO and IESA.

The aim of the challenge is to identify high-impact opportunities that have the potential for energy saving along with large-scale carbon emission reductions, and to provide financial support for field validation/beta testing of their technology. The project supports innovative technologies in advance stage of development for field demonstration and validation and does not support innovation that are at the ideation-stage, proof-of-concept or at lab-scale.

The challenge covers technologies such as electrochemical batteries, supercapacitors, critical components for electrical energy storage systems including power conversion systems while the applications include off-grid stationary applications, e-mobility, battery recycling, grid-connected and behind-the-meter. Companies/institutes/startups working on innovation in electro-chemical battery, battery management system (BMS), Super Capacitor or a combination of battery and super-capacitor to address a technology gap in end-use application to improve the adoption of electrical energy storage system are highly encouraged to apply for the FLCTD project. The last date to apply for the challenge is December 18, 2020.

Speaking on the challenge Mr. Sandeep Tandon, National Programme Manager, Facility for Low Carbon Technology Deployment (FLCTD) says, *"The project aims to strengthen the innovation eco-system in India, particularly for the development of technology-based solutions that are helping address the energy and climate change issue. The project is also attempting to improve the academia-entrepreneur-industry collaboration to bring innovative technology solutions so that all stand to benefit."*

Mr. Debi Prasad Dash, Executive Director, India Energy Storage Alliance (IESA) speaks, *"This is a unique opportunity for Indian conglomerates and MSMEs and start-ups to showcase their innovation & engineering capabilities in this sunrise energy storage and electric mobility sector. I urged the emerging startups to come forward and participate in this opportunity. Recognizing the momentum in the industry, IESA organized an Innovation workshop at India Energy Storage Week (IESW) on November 2, 2020, in association with UNIDO. The program was aimed at startups in the e-mobility, clean energy, energy storage, and clean transportation sectors."*

Specifically, in the last five years, many young entrepreneurs in India have preferred setting up engineering, Research & Development, production, and manufacturing-based startups. Several



companies have particularly started to focus on electric two-wheelers, three-wheeler and four-wheelers charging infrastructure, swapping, powertrain, Battery Management Systems (BMS) , thermal management, advanced energy storage, Li-ion, and other emerging energy storage technologies like metal-air, flow batteries, sodium-based batteries, hydrogen base fuel, etc.

Globally, energy storage and e-mobility sector are dominated by large legacy companies, but the Indian market is witnessing a different trend. While major conventional petrol- and diesel-base vehicle manufactures have forayed in electric vehicle manufacturing in India, there has also been a surge of new startups. The proliferation of startups in the EV space is largely driven by the government's vision for 2030. The overall message is loud and clear that the government and private players are serious about electric mobility and transitioning to cleaner technologies.

In the last three years, FLCTD Program has successfully awarded 40+ winners and committed over INR 8 crore in financial support. The past winners included organizations working on innovative technologies in waste heat recovery, space conditioning and pumps and motors. UNIDO also engaged Customized Energy Solutions, India (CES-India) as the nodal agency to support the project management unit in the planning and implementation of innovation challenge in electrical energy storage. IESA is a supporting partner for this Innovation Challenge. Other partners of the program includes, CII-GBC, Sangam-AIC, Intellectap, Start-Up India and AGNII.

About India Energy Storage Alliance (IESA):

The India Energy Storage Alliance (IESA) was launched in 2012 to assess the market potential of Energy Storage Technologies in India, through an active dialogue and subsequent analysis among the various stakeholders to make the Indian industry and power sector aware of the tremendous need for Energy Storage in the very near future. IESA aims to make India a Global Hub for research and manufacturing of advanced energy storage technologies by 2022. During the past 8 years IESA membership has grown from 5 to 100+ and covers verticals from Energy Storage & EV Manufacturers, Research institutes & universities, Renewable Energy companies, and Power electronics companies.

IESA website: www.indiaesa.info

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