

UN CLIMATE CHANGE CONFERENCE – UNITED ARAB EMIRATES

30 NOVEMBER - 12 DECEMBER 2023



THE SOLAR HUB

UNIVERSAL ENERGY ACCESS FOR LDC AND SIDS COUNTRIES: THE STORAGE PERSPECTIVE

Co-Host



In Collaboration with



Thematic Arena 3, TA3-190, Opportunity District, Expo City, Dubai

2 DECEMBER, 2023 | 15:00 PM - 16:30 PM

Background & Rationale

In the global shift towards sustainable energy, versatile energy storage solutions play a crucial role. The adoption of solar energy is a prominent global trend, and Energy Storage Systems (ESS) enable expanded solar utilization. Many energy storage technologies are currently available and realizing their potential to support global decarbonization requires robust policies to accelerate the transition to clean energy.

The energy storage technologies are integrated into electrical grids and infrastructure, emerging as a solution that offers extended power backup capabilities, ranging from seconds to minutes, hours, or even across seasons. ESS has the potential to enhance electricity access, especially in Least Developed Countries (LDCs) and Small Island Developing States (SIDs), boosting their energy system resilience.

Currently, 675 million population, primarily in Sub-Saharan LDCs, lack access to electricity. Solar energy, at the forefront of the energy transition, represents a promising option to provide electricity access, particularly when combined with energy storage. This combination can deliver 24x7 dispatchable energy to communities. Solar plus energy storage systems could be one of the feasible options, driving cost-effective energy solutions to these areas.

The session aligns well with ISA's program on 'Scaling Solar E-Mobility & Storage' to support the creation of an enabling ecosystem for energy storage and to scale up the uptake of solar energy in ISA member countries.

The session is hosted by the International Solar Alliance and the Asian Development Bank, in collaboration with the National Renewable Energy Laboratory (USA) and the India Energy Storage Alliance (IESA).

Session Objectives	<ul style="list-style-type: none"> ▪ Understanding key barriers to promoting universal energy access in LDCs and SIDs through solar and energy storage systems. ▪ Exploring scenario-based energy storage solutions to enhance energy access by harnessing solar potential in LDCs and SIDs. ▪ Reviewing technology-economic perspectives on various energy storage systems, including storage sizing based on requirement. ▪ Prioritizing risk assessment for the deployment of solar and energy storage projects. ▪ Sharing experiences/best practices on solar and energy storage solutions for island nations to provide reliable energy access.
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Agenda

15:00 - 15:03 PM	Welcome and Opening Remarks Dr Ajay Mathur , Director General, International Solar Alliance (ISA)
15:03 - 15:06 PM	Inaugural Address Asian Development Bank
15:06 - 15:09 PM	Special Address Ministry of New and Renewable Energy, Govt of India
15:09 - 15:19 PM	Keynote Address Sumanth Sinha , Chairman and Managing Director, ReNew Power, India
15:19 - 15:29 PM	Feature presentation Dr Martin Keller , Director, National Renewable Energy Laboratory, USA.
15:29 - 15:34 PM	Presentation on ISA Programme on Storage Dr Mridula Bharadwaj , Capacity Building Specialist, International Solar Alliance (ISA)
15:34 - 16:29 PM	Panel Discussion and Audience Interaction Moderator Dr Rahul Walawalkar , Executive Director, India Energy Storage Alliance (IESA) Panellists <ul style="list-style-type: none"> ▪ Vijayanand Samudrala, President - New Energy, Amara Raja Energy & Mobility Ltd, India ▪ William Brent, Chief Marketing Officer, Husk Power, Spain ▪ Mukabanji Matanda, Business Development Manager (Southern Africa), ENGIE Energy Access, Zambia ▪ Stephen Fernands, President, Customized Energy Solutions, USA ▪ Riccardo Ridolfi*, Chief Executive Officer, Equatorial Power, Uganda
16:29 - 16:30 PM	Closing Remarks & Vote of Thanks International Solar Alliance (ISA)

*To be confirmed



About the International Solar Alliance (ISA)

The International Solar Alliance is an international organisation with 116 Member and Signatory countries. It works with governments to improve energy access and security worldwide and promote solar power as a sustainable transition to a carbon-neutral future. ISA's mission is to unlock US\$ 1 trillion of investments in solar by 2030 while reducing the cost of the technology and its financing. It promotes the use of solar energy in the agriculture, health, transport, and power generation sectors. ISA Member Countries are driving change by enacting policies and regulations, sharing best practices, agreeing on common standards, and mobilising investments. ISA is partnering with multilateral development banks (MDBs), development financial institutions (DFIs), private and public sector organisations, civil society, and other international institutions to deploy cost-effective and transformational solutions through solar energy.

About the Asian Development Bank (ADB)

The Asian Development Bank (ADB) is a regional development bank established in 1966 and headquartered in Manila, the Philippines. It has 68-member countries, including 49 from the Asia Pacific region and 19 from other regions. Its main objective is to reduce poverty and improve living standards in the region. The bank provides financial assistance, technical support, and policy advice to its member countries. It focuses on various sectors such as infrastructure development, energy, transportation, water supply, education, health, agriculture, and rural development. The bank offers loans, grants, and guarantees to finance projects and programs. It also promotes regional cooperation and integration to stimulate economic growth and stability. In addition, the ADB emphasises good governance, environmental sustainability, and inclusive development.

About the National Renewable Energy Laboratory (NREL)

The National Renewable Energy Laboratory (NREL) is the U.S. Department of Energy's primary national laboratory for renewable energy and energy efficiency research. From scientific discovery to accelerating market adoption, NREL deploys its deep technical expertise and unmatched breadth of capabilities to drive the transformation of our nation's energy resources and systems. Since launching in 1977 as the Solar Energy Research Institute, NREL has partnered with and supported more than 3,000 communities, tribes, jurisdictions, utilities, and businesses of all sizes around the world for energy transitions planning, technical assistance, capacity building, workforce development, and more.

About the India Energy Storage Alliance (IESA)

The India Energy Storage Alliance (IESA) is a membership driven alliance that promotes Energy Storage, electric mobility and green hydrogen technologies and applications in India. IESA's vision to make India a global leader in energy storage, electric mobility & green hydrogen technology adoption and hub for manufacturing of these emerging technologies by 2022. IESA's mission is to make energy sector in India more competitive and efficient by creating awareness among various stakeholders in the industry and by promoting information exchange with the end users.