



Webinar on 'E-Mobility & Storage'

03rd December 2020 || 16:00 Hrs- 19:00 HRS IST

R3/26.11.20

Background

International Solar Alliance (ISA) is an inter-Governmental organization working with the primary objective to assist its member countries to scale up Solar applications for meeting its energy requirements. Currently, there are 88 countries who are signatories to the ISA framework agreement. Among various initiatives taken by ISA, capacity building of member countries in solar and allied technologies is an important one.

The energy transition is a pathway toward transformation of the global energy sector from fossil-based to zero-carbon. At its heart is the need to reduce energy-related CO₂ emissions and other greenhouse gases to limit climate change. One of the important learnings from the Covid Pandemic is the need for acceleration of the efforts by all countries. The recent reports show that many countries are giving more attention to this aspect.

Every year, about 50 billion tons of CO₂ are emitted from all over the globe. Overall, the energy industry contributes mainly to CO₂ emissions. According to the International Energy Agency's report, electricity/heat generation and transport account for approximately two-thirds of overall CO₂ emissions and, since 2010, have accounted for almost all of the increase in global CO₂ emission. The entire transport sector constitutes around 18 percent of energy-related CO₂ emissions worldwide, while road vehicles alone account for almost 12 percent of the global CO₂ emissions. To address the rise in global temperature and to mitigate severe climate change, significant and rapid actions are required to stabilize or even lower the atmospheric concentration of carbon dioxide.

With the technology advancement, considerable reduction in battery prices and developing charging infrastructure, the e-mobility is evolving as one of the most promising solution to mitigate the CO₂ pollution crises. This suggests that we could accomplish almost 12 percent reduction in global CO₂ emission if the if the whole road transport system is electrified and switched to the fully decarbonized energy mix, then we can reach a realistic 12 percent reduction in global CO₂ emission.

Similarly, hybrid Solar projects with other renewable sources and Battery storage is becoming a sustainable and economic alternative for fossil power.

The ISA has been working closely with its Member Countries to enable solar deployment by providing support in the areas of demand aggregation, capacity building, access to affordable financing, knowledge dissemination and technical assistance. As a part of its continuous efforts to assist Member Countries, ISA now plans to support implementation of certain innovative pilot solar projects through financial support of up to USD 50,000 in each of Least Developing Countries (LDCs) and Small Island Developing States (SIDS) Member Countries. These



projects primarily include Solarization of Health Facilities/ ISA CARES, Solar Cold Storage and Solar Agriculture Pumps.

In the above context, ISA has planned a dedicated webinar on ‘E-Mobility & Storage’ to provide a platform for discussing various facets related to technology options, development of flexible solar panels for wider applications, business models, financing and benefits of such projects. The objective of this webinar is to initiate fruitful dialogue between various stakeholders including technology suppliers and Member Countries so as to develop an actionable roadmap for implementation of such projects. The webinar would also cover practical aspects regarding technology landscape and on-ground challenges for such projects.

The provisional agenda for the session will be as follows:

Duration (Indian Standard Time)	Topic/Presenters/Speakers
16:00- 16:05 Hrs.	Welcome and Opening Remarks H.E. Upendra Tripathy, Director General, ISA
16:05- 16:15 Hrs.	Context Setting Mr. P.K. Mahapatra, Chair (ISA Project Committee) and Regional Coordinator (LAC Region), ISA
16:15- 16:25 Hrs.	Overview of ISA’s Programme on Storage & Mobility Dr. Philippe Malbranche, ISA
16:25- 16:45 Hrs.	Scaling storage and E-mobility in Europe, Siemens, Germany
16:45- 17:05 Hrs.	Role of Energy Storage for RE Integration: A Global Perspective Rahul Walawalkar, India Energy Storage Alliance and Customized Energy Solutions (India)
17:05- 17:25 Hrs.	Solar flexible a promising future for energizing Transport and Agriculture, Dr. Ayidhyanath Tiwari, Flisom, Switzerland
17:25- 17:45 Hrs.	Experience in Setting up Charging Stations in India & Storage Rajnish Goel, BHEL, India
17:45-18:05 Hrs.	Implementation experience of Storage Projects in USA, AES Power
18:05-18:25 Hrs.	E-Mobility and Charging Infrastructure, EESL, India
18:25-18:45 Hrs.	Interventions by Member Countries/ Other participants
18:45- 18:55 Hrs.	Concluding remarks Mr. Arun Mishra, Senior Advisor, ISA
18.55- 19:00 Hrs.	Vote of Thanks Mr. Ramesh Kumar, Additional Director, ISA