



1st WORLD SOLAR TECHNOLOGY SUMMIT

08th September, 2020: 04:30 – 09:30 p.m.

CONCEPT NOTE

The International Solar Alliance (ISA) is a treaty-based international intergovernmental organisation. ISA was launched by H.E. Narendra Modi, Hon'ble Prime Minister of India, and H.E. François Hollande, former President of France, in the presence of H.E. Ban Ki Moon, former Secretary-General of the United Nations, at Paris on November 30, 2015 on the side lines of the Conference of Parties (COP) 21, of the United Nations Framework Convention on Climate Change.

The Paris Declaration establishes ISA as an alliance dedicated to the promotion of solar energy among its Member Countries. The major objectives of the organization include deployment of 1000 GW of solar capacity and mobilisation of US\$ 1000 billion of investment in solar energy sector by 2030.

As an action-oriented organisation, ISA intends to bring together member countries to aggregate demand and realise economies of scale, resulting in reduction of costs of solar applications, facilitating deployment of existing solar technologies at scale, and promoting collaborative solar R&D and capacity. As on June 26 2020, the ISA Framework Agreement has been signed by 86 countries, with 67 having also deposited instruments of ratification. The ISA is headquartered at Gurugram in Haryana, India. H.E. Mr. Upendra Tripathy is the Director General.

Contextual Background

There is a gap at present in the application of solar technologies to the very large un-met demand for solar-powered technologies in most countries. There is an incidental shortage of solar energy manufacturing eco-system, acquisition, diffusion, indigenization & absorption of technologies. With increasing applications, import of solar technologies has also been increasing. These apart, absence of universal energy access, energy equity and affordability are issues common to many ISA member countries.

Solar technologies have made significant progress and are now considered as a viable option for meeting energy needs in a sustainable manner. The Framework Agreement of ISA calls for adaptation of solar technologies in member countries to reduce cost of finance and cost of technology, so that its deployment can be scaled up.

ISA is working with its member countries to formulate projects and programmes to accelerate development and deployment of existing clean solar projects, the potential for which largely remain untapped. ISA is also facilitating capacity building for promotion and adoption of solar technologies and R&D among member countries to bridge the gap.

About the 1st World Solar Technology Summit

It is proposed to organise World Solar Technology Summit (WSTS) on September 08, 2020. The Hon'ble Prime Minister of India Shri Narendra Modi shall grace the Inaugural Ceremony. The Summit aims to bring together key stakeholders - leading academic scientists, technology

developers, researchers and innovators to present and discuss the recent highlights of solar technologies, cost-wise; technology-wise, technology transfers, challenges and concerns in the field. The main objective of WSTS is to showcase to member countries the state of the art and next-generation solar technologies worldwide and to give an opportunity to decision-makers and stakeholders to meet, and discuss their own priorities and strategic agenda towards a larger integration.

Key Focus Areas

- to promote solar technologies, new business models and investment in the solar sector to enhance prosperity;
- to formulate projects and programmes to promote solar applications;
- to develop innovative financial mechanisms to reduce cost of capital;
- to build a common knowledge e-Portal; and
- to facilitate capacity building for promotion and absorption of solar technologies and R&D among member countries.

ISA Programmes

ISA Secretariat has developed, with varying levels of member country participation, the following programmes:

- i) Scaling up solar decentralized applications for Agriculture use;
- ii) Scaling up Solar Min-grids;
- iii) Scaling up Solar Rooftop;
- iv) Scaling up solar E-mobility and Storage; and
- v) Development of large-scale Solar Parks
- vi) Another, on ‘Solarizing Heating and Cooling Systems’ is being considered.

Cross-Cutting Programmes

- Affordable finance at scale: Establish mechanism to reduce cost of capital;
- Infopedia – (an online platform for networking amongst members, a repository of information, Solar Academy for training and research, and directory for access to expertise and institutions);
- STAR-C (Capacity building, Research, Innovation and Entrepreneurship); and
- Six (6) Global Task forces to promote the implementation of the programmes, goals and objectives.

New Initiatives

With a view to take forward its Agenda, the ISA Secretariat launched the following eight (8) new initiatives which were green flagged by Hon’ble President of ISA and Minister of New and Renewable Energy, Mr. R K Singh on 27th April, 2020. These initiatives include: solar PV technician skill development initiative, making solar bankable, an undergraduate program for Small Island Developing States (SIDS) and Least Developed Countries (LDCs), ISA Cares initiative, and initiating price exploratory global bid for providing energy access to 47 million

households by solar home systems. The initiatives also included the action plan for developing up to 20 GW of solar parks and the launch of an ISA advisory for the manufacturers of ventilators for the use of solar kits besides ISA's new website.

Scope and Format of Summit

Besides, the Inaugural and the Opening Plenary Sessions, four virtual consecutive sessions are proposed to be organized to discuss about the current situation and important achievements. The Summit's Agenda shall include:

- Opening Plenary Session to be addressed by Hon'ble Prime Minister of India and other high-level dignitaries.
- Introductory speeches by a panel of Nobel Laureates followed by four technical sessions of 45 Minutes each:
 - a) Session -1: The overall context of PV technology development and its future, on its way towards becoming the first source of energy worldwide, with PV technologies supplying 70% of the world's electricity generation.
 - b) Session -2: The most recent advances (conversion efficiency improvements and declining costs) regarding key components such as PV modules and storage technologies.
 - c) Session -3: On-grid applications, whether ground-mounted, floating, or integrated in residential and commercial rooftops.
 - d) Session -4: Innovative applications where PV is used to move, heat, cool, and drive eco-friendly industrial processes and produce fuels as well as off-grid applications, to provide universal access to energy.

Expected Outcomes

- Reduction in cost of technology.
- Access to innovative solar technologies.
- Information dissemination on solar technologies.
- Possibility of aggregation of demand of members for solar technologies.
- Launching of ISA's technology journal.

Participant Profile:

The event is open to all stakeholders. Participants to the event will include Hon'ble Ministers, High-Level Dignitaries, National Focal Points and senior government functionaries from ISA member countries, diplomatic missions, ISA Partners, project developers, manufacturers, R&D institutions, academia and think tanks, civil society, international organizations and donors, representatives of non-governmental and community-based organizations, academics, research and training institutes, international media, multilateral agencies etc. This virtual conference is a great and unique occasion for decision-makers and stakeholders to meet, and discuss their own priorities and strategic agendas.

DRAFT AGENDA

Medium: Virtual

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OPENING PLENARY SESSION 16:30 – 18:00 Hrs	
16:30 Hrs.	Arrival (Virtual) of the VVIP
16:30 – 16:31 Hrs	Silent prayer for the departed souls that battled Covid-19
16:31 – 16:36 Hrs. Welcome Address	Shri R. K. Singh, Hon’ble Minister of Power, New and Renewable Energy and Skill Development, Govt. of India and President of the ISA Assembly.
16 :36 -16 :39 Hrs Special Address	Prof. K. Vijay Ragahavan* (TBC) Principal Scientific Advisor to Government of India
16:39 – 16:44 Hrs. Keynote Address	Ms Barbara Pompili, * (TBC) Hon’ble Minister of Ecological Transition, Govt. of France and Co-President of the ISA Assembly.
16:44 -16:49 Hrs Keynote Address	Ms. Ursula Von der Leyen * (TBC) Hon’ble President, European Commission, Belgium
16.44 – 16.49 Hrs Special Address	Mr. Bertrand Piccard Chairman, Solar Impulse Foundation
16:49 – 17:01 Hrs Keynote Address	Nobel laureate Dr. Akira Yoshina* (TBC) Professor, Meijo University
17:01 – 17:13 Hrs Keynote Address	Nobel laureate Dr. M. Stanley Whittingham Director and Professor of Chemistry, Institute for Materials Research and the Materials Science and Engineering Program Binghamton University, State University of New York.
17:13 – 17:16 Hrs Special Address	Dr. Sangita Reddy President of FICCI. ISA’s Industry Partner for World Solar Technology Summit
17:16 – 17:19 Hrs Action Agenda	Mr. Uday Kotak President of CII. To hand over the Corporate partnership letters to Hon’ble Prime Minister.
17:19 – 17:56 Hrs. Inaugural Address	Shri Narendra Modi Hon’ble Prime Minister of India
17:56– 18:00 Hrs. Vote of Thanks	Mr. Upendra Tripathy, Director General, International Solar Alliance Secretariat
18:00 Hrs	Departure of VVIP

SESSIONS TO FOLLOW	
Session: 2	GLOBAL CEO'S CONCLAVE 18:00 – 19:00 Hrs
Discussion Points	Moderated panel discussion among the CEOs of some of the world's largest corporations that contribute greatly towards the promotion of solar energy integration with other renewables and storage for sustainable energy solutions. The discussions would be linked around the creation of an innovative ecosystem that could promote the expansion of the solar energy landscape globally.
Panellists (*To be confirmed)	<p>Mr. Elon Musk*, Co-founder & CEO, Tesla</p> <p>Mr. Masayoshi Son*, Chairman & CEO, SoftBank</p> <p>Mr. Jean-Pascal Tricoire, Chairman & CEO, Schneider Electric</p> <p>Mr. Eric Rondolat, Chief Executive Officer, Signify</p> <p>Mr. Natarajan Chandrasekaran*, Chairman, TATA Group</p> <p>Mr. Shawn Qu*, Chairman & CEO, Canadian Solar</p> <p>Mr. Hak Cheol Shin*, Vice Chairman & CEO, LG Chem, Korea</p> <p>Mr. Lawrence Culp Jr.*, Chairman & CEO, General Electric Company (GE), USA</p>
Technical Session: 3.1	VISION 2030 AND BEYOND 19:00 – 19:50 Hrs
Discussion Points	This session will describe the current solar PV situation (technologies, markets, manufacturing capacities) and its future prospect up to 2050, explaining how the solar sector will revolutionize allied sectors such as the transportation sector and agricultural sector among others.
Technical Session: 3.2	TOWARDS A DECARBONISED GRID 19:00 – 19:50 Hrs
Discussion Points	Solar parks are vital for providing low-cost electricity. This session will focus on understanding how best to achieve such low-cost electricity, and answer questions regarding the impacts of optimization on a larger scale: socio-economic and environmental impacts, services to the grid system, etc.

Session: 4.1	<p align="center">DISRUPTIVE SOLAR TECHNOLOGIES</p> <p align="center">19:50 – 20:40 Hrs</p>
Discussion Points	Technological innovation has supported most of the improvements in terms of performance and costs over decades. This session will address some key innovations that are being rolled-out in to the market in the mid-or long-term.
Session: 4.2	<p align="center">SOLAR BEYOND THE POWER SECTOR</p> <p align="center">19.50 to 20.40 Hrs</p>
Discussions Points	Beyond large-scale solar parks, photovoltaics can be applied to a large number of applications, for instance in the transportation sector with solar mobility, or in the building sector with rooftops and BIPV among others.
Session : 5	<p align="center">VALEDICTORY SESSION</p> <p align="center">20:45 – 21:30 Hrs</p>
END OF SUMMIT	