



INTERNATIONAL SOLAR ALLIANCE

First World Solar Technology Summit

September 08, 2020 | 16:30 – 22:00 Hrs IST

The International Solar Alliance (ISA) is a treaty-based international intergovernmental organization. ISA was jointly launched by India and France in the presence of Secretary General of the UN during CoP21. 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 mobilization of US\$ 1000 billion of investment in solar energy sector by 2030. As an action-oriented organization, 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 68 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 World Solar Technology Summit

It is proposed to organise World Solar Technology Summit (WSTS) on September 08, 2020. 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.

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AGENDA

Medium: Virtual	
INAUGURAL SESSION 16:30 – 18:00 Hrs IST Plenary Hall - WSTS Virtual Platform	
16:30 Hrs	Arrival (Virtual) of the VIP
16:30 – 16:32 Hrs	Silent prayer for the departed souls that battled Covid-19
16:32 – 16:37 Hrs Welcome	H.E. Mr. Upendra Tripathy Director General, International Solar Alliance (ISA)
16:37 – 16:42 Hrs Setting the Context	H.E. Prof. K. Vijay Raghavan Principal Scientific Advisor to Government of India
16:42 – 16:47 Hrs	Mr. Bertrand Piccard , FRSGS Founder and Chairman, Solar Impulse Foundation, Switzerland
16:47 – 16:57 Hrs	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
16:57 – 17:15 Hrs Action Agenda	<ul style="list-style-type: none"> ▪ Announcement of ISA's Technology Journal. "Solar Compass 360" by Dr. Dharendra Yogi Goswami, Editor-in-Chief - <i>(Five minutes)</i> ▪ Signing and exchange of MOU between H.E. Mr. Upendra Tripathy, DG, ISA, and Mr. Didier Coulomb, DG, International Institute for Refrigeration, Paris – <i>(Three minutes)</i> ▪ Signing and exchange of Partnership Agreement between H.E. Mr. Upendra Tripathy, DG, ISA and H.E. Mr. Frank Rijsberman, DG, Global Green Growth Institute (Republic of Korea) on promotion of 1 Million solar pumps - <i>(Three minutes)</i> ▪ Signing and exchange of Partnership Agreement on implementation of 47 projects between H.E. Mr. Upendra Tripathy, DG, ISA and Mr. Gurdeep Singh, CMD, NTPC, India - <i>(Three minutes)</i>

	<ul style="list-style-type: none"> Signing and exchange of Partnership Agreement between H.E. Mr. Indu Shekhar Chaturvedi, Secretary, Ministry of New and Renewable Energy, Mr. Junaid Ahmad, Country Director, World Bank, and H.E. Mr. Upendra Tripathy, DG, ISA on One Sun One World, One Grid - (Four minutes)
17:15 – 17:20 Hrs	H.E. Amb. Claver GATETE Minister of Infrastructure, Rwanda
17:20 – 17:25 Hrs	H.E. Mr. Luis Miguel Incháustegui Zevallos Minister of Energy and Mines, Republic of Peru & Vice President of ISA Assembly (LAC Region)
17:25 – 17:30 Hrs	H.E. Mr. Ably Bidamon Dederiwe Minister of Mines and Energy, Togolese Republic & Vice President of ISA Assembly (Africa Region)
17:30 – 17:35 Hrs	H.E. Shri Dharmendra Pradhan Minister for Petroleum & Natural Gas, Government of India
17:35 – 17:42 Hrs Co- Presidential Address	H.E. Ms. Barbara Pompili Co-President of the ISA Assembly
17:42 – 17:49 Hrs	H.E. Ms. Kadri Simson Commissioner for Energy, representing Hon'ble President, European Commission, Brussels
17:49 – Presidential Address	H.E. Shri R.K Singh President of the ISA Assembly
Vote of Thanks	Ms. Fiona Bourne Director (G, R & I), ISA
	Departure of VIP
Session: 2	GLOBAL CEOs SESSION 18:15 – 19:15 Hrs IST Plenary Hall - WSTS Virtual Platform
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.
Opening Remarks by Moderator	Moderator: Ms Jeanette Rodrigues Mumbai Bureau Chief,

<p>PANELLISTS</p>	<p>Bloomberg News Mr. Jean-Pascal Tricoire, Chairman & CEO, Schneider Electric Mr. Eric Rondolat, Chief Executive Officer, Signify Mr. Ratan N. Tata, Chairman, Tata Trust, Chairman Emeritus, Tata Sons Mr. Anand G Mahindra, Chairman & Managing Director, Mahindra & Mahindra Ltd. Mr. Bertrand Piccard, Chairman, Solar Impulse Foundation Dr. Sangita Reddy, Joint Managing Director, Apollo Hospitals & President, Federation of Indian Chambers of Commerce & Industry (FICCI) Mr. Uday Kotak, CEO & Founder, Kotak Mahindra Bank and President of Confederation of Indian Industry (CII)</p>
<p>Technical Session: 3.1</p>	<p style="text-align: center;">VISION 2030 AND BEYOND 19:15 – 20:05 Hrs (IST) Auditorium 1 - WSTS Virtual Platform</p>
<p>Discussion Points</p>	<p>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.</p>
<p>19:15 – 19:20 Hrs Vice- Presidenti al Remarks</p>	<p>Session Chair: H.E. Mr. Poasi Mattaele Tei Hon'ble Minister for Meteorology, Energy, Information Management, Environment, Climate Change & Communications of Tonga & Vice President, ISA Assembly (Asia Pacific)</p>
<p>19:20 – 19:25 Hrs Opening Remarks & Setting the Context</p>	<p>Moderator: Mr. Gaëtan Masson Managing Director, Becquerel Institute and IEA PVPS Task1 Operating Agent, Belgium</p>
<p>19:25 – 19:39 Hrs Keynote Address</p>	<p>Prof. Christian Breyer Lappeenranta University of Technology (LUT), Finland</p>
<p>19:39 – 19:46 Hrs Presentation</p>	<p>Mr. Gianni Chianetta Chairman, Global Solar Council, Italy</p>
<p>19:46 – 19:53 Hrs</p>	<p>Mr. Rohit Modi Co-Chair, FICCI Renewable Energy CEOs Council and Country Head and President India, SB Energy (SoftBank Group), India</p>
<p>19:53 – 20:00 Hrs Presentation</p>	<p>Dr. Susanne Herritsch Director Photovoltaic Equipment bei VDMA, International Technology Roadmap for Photovoltaic (ITRPV), Germany</p>
<p>20:00 – 20:05 Hrs</p>	<p>Q & A (Moderator to ask questions)</p>
<p>Technical Session: 3.2</p>	<p style="text-align: center;">TOWARDS A DECARBONISED GRID 19:15 – 20:05 Hrs (IST) Auditorium 2 - WSTS Virtual Platform</p>

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.
19:15 –19:20 Hrs Address by Chair	Session Chair: H.E. Eng. Khairy Abdelraman Ahmed Minister of Energy and Mining, Republic of Sudan
19:20 – 19:25 Hrs Opening Remarks	Session Co-Chair: Ms Gauri Singh Deputy Director General, International Renewable Energy Agency, UAE
19:25 – 19:29 Hrs Setting the Context	Moderator: Prof. Ms. Barbara Kates-Garnick Professor of Practice and senior research fellow, The Fletcher School of Law and Diplomacy, USA
19:29 – 19:36 Hrs Presentation	Dr. P.G. Therond Head of Technologies, EDF Renewable, France
19:36 –19:44 Hrs Presentation	Mr. Mahendra Jain Additional Chief Secretary (Power), Government of Karnataka, India
19:44 – 19:52 Hrs Presentation	Mr. J N Swain Chairman & Managing Director, Solar Energy Corporation of India (SECI), India
19:52 – 20:00 Hrs Presentation	Dr. Nikit Abhyankar Senior Scientific Engineering Associate, Lawrence Berkeley National Laboratory, USA
20:00 – 20:05 Hrs	Q & A (Moderator to ask questions)
Session: 4.1	DISRUPTIVE SOLAR TECHNOLOGIES 20:05 – 20:55 Hrs (IST) Auditorium 1 - WSTS Virtual Platform
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.
20:05 – 20:10 Hrs Vice- Presidential Remarks	Session Chair: H.E. Mr. Ably Bidamon Dederiwe Minister of Mines and Energy, Togolese Republic & Vice President of ISA Assembly (Africa region)
20:10 – 20:18 Hrs Opening Remarks & Setting the Context	Moderator: Prof. Eicke Weber Chairman, European Solar Manufacturing Council (ESMC), Belgium
20:18 – 20:26 Hrs Presentation	Mr. Gunter Erfurt Chief Executive Officer, Meyer & Burger Technology Ltd., Germany
20:26 – 20:34 Hrs Presentation	Mr. Stefan Reber Chief Executive Officer, NexWafe, Germany

20:34 – 20:42 Hrs Address	Dr. Chris Case Chief Technology Officer, Oxford PV, U.K.
20:42 – 20:50 Hrs Address	Mr Rohan Patel, Sr. Global Director, Public Policy and Business Development, TESLA, USA
20:50 – 20:55 Hrs	Q & A (Moderator to ask questions)
Session: 4.2	SOLAR BEYOND THE POWER SECTOR 20:05 – 20:55 Hrs IST Auditorium 2 - WSTS Virtual Platform
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.
20:05 – 20:10 Hrs Vice- Presidential Remarks	Session Chair: H.E. Mr. Miguel Juan REVOLO ACEVEDO Vice - Minister of Energy, Republic of Peru
20:10 – 20:15 Hrs Opening Remarks & Setting the Context	Moderator: Dr. Sarah Kurtz Research Fellow, National Centre for Photovoltaics (NCPV), NREL, Colorado, USA
20:15 – 20:24 Hrs Keynote Address	Mr. Eric Scotto Chief Executive Officer & Co-Founder, Akuo Energy, France
20:24 – 20:33 Hrs Presentation	Mr. Arun Ramakrishnan Chief Technical Officer, Sono Motors, Germany
20:33 – 20:42 Hrs Presentation	Mr. David Richard Chief Executive Officer, Activskeen, France
20:42 – 20:50 Hrs Address	Mr. Thierry Lepercq Founder, Soladvent, France
20:50 – 20:55 Hrs	Q & A (Moderator to ask questions)
SESSION: 5	VALEDICTORY SESSION 21:00 – 22 :00 Hrs IST Plenary Hall - WSTS Virtual Platform
21:00 – 21:05 Hrs Welcome Address	H.E. Mr. Upendra Tripathy Director General, International Solar Alliance (ISA)
21:05 – 21:09 Hrs Setting the Context	Ms Gauri Singh Deputy Director General, International Renewable Energy Agency, UAE
21:09 - 21:13 Hrs Special Address	H.E. Shri Rahul Chhabra, Secretary (ER), Ministry of External Affairs, Government of India

21:13 – 21:17 Hrs Special Address	H.E. Shri Indu Shekhar Chaturvedi Secretary, Ministry of New and Renewable Energy, Government of India
21:17 – 21:21 Hrs Special Address	H.E. Shri Sanjiv Nandan Sahai Secretary, Ministry of Power, Government of India
21:21 – 21:25 Hrs Keynote Message	H.E. Shri Suresh Prabhu Prime Minister’s Sherpa to the G7 and G20 (Message)
21:25 – 21:30 Hrs Keynote Address	H.E. Eng. Khairy Abdelraman Ahmed Minister of Energy and Mining, Republic of Sudan
21:30 – 21:35 Hrs Keynote Address	H.E. Mr. Poasi Mattaele Tei Hon’ble Minister for Meteorology, Energy, Information Management, Environment, Climate Change & Communications of Tonga & Vice President, ISA Assembly (Asia Pacific)
21:35 – 21:45 Hrs Address by Chief Guest	H. E. Shri Dharmendra Pradhan Minister for Petroleum & Natural Gas, Government of India
21:45 – 21:55 Hrs Valedictory Address	H.E. Shri Piyush Goyal Minister of Railways, Commerce & Industry, Government of India
21:55 – 22:00 Hrs Vote of Thanks	Dr. Philippe Malbranche Director (Programmes), International Solar Alliance Secretariat
END OF SUMMIT	