

UN CLIMATE CHANGE CONFERENCE – UNITED ARAB EMIRATES

30 NOVEMBER – 12 DECEMBER 2023

THE SOLAR HUB



ONE SUN, ONE WORLD, ONE GRID (OSOWOG)

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

3 DECEMBER, 2023 | 15:00 PM – 16:30 PM

Background & Rationale

The One Sun, One World, One Grid (OSOWOG) initiative is rooted in the vision put forth by the Hon'ble Prime Minister of India Narendra Modi at the First Assembly of the ISA in October 2018. Driven by the mantra "The Sun Never Sets", the OSOWOG initiative envisages the interconnection of all forms of renewable energy (solar, wind, hydro, and green hydrogen) generators, storage, and loads across continents with a trans-continental power transmission grid - One Grid for One Sun in One World.

Ever since the announcement of One Sun One World One Grid (OSOWOG), considerable progress has been made not only in India, but also in different parts around the world. This initiative aims to connect different regional grids through a common grid that would be used to transmit renewable energy power and is further anticipated to realize the potential of renewable energy sources, mainly solar, followed by wind. Furthermore, the OSOWOG initiative has been considered as a potential solution to overcome the challenges presented by the intermittent nature of renewable energy and their high- cost energy storage facilities.

In line with this objective, the OSOWOG would help in establishing common international electricity networks of interconnected solar power grids, formed by the combination of broad-scale solar power stations, wind parks, and other solar rooftop projects. Currently, the effort is being headed by the governments of potential countries in collaboration with financial institutions, associations, etc. The partnership would help in ensuring a reliable, resilient, and affordable supply of clean energy in whole across the globe. To achieve this, coordinated actions between the technical and financial institutions, governments, power system operators, legislators, and other key stakeholders are required.

Enabling such an ambitious OSOWOG would create a global ecosystem of interconnected renewables, benefiting the aim of achieving global sustainability. In parallel, the effort would fuel the momentum of investments necessary for low-carbon technologies like innovative solar projects and thus also help generate millions of green jobs.



	<p>ISA shares the same passion as that of the member countries and aspires to become the go-to platform that brought together resources from around the world to surgically target the challenges faced by Member Countries. ISA aims to leverage its unique position of being the “platform of platforms” with inter-governmental support to assist in overcoming any political and financial challenges which may be encountered in the due course of implementation. ISA, with support from World Bank, through the EDF-led consortium, is undertaking a technical study on the identification of pilot interconnections under the OSOWOG initiative. The technical study primarily is in three Phases : Phase-1 is the assessment phase comprising of Data collection and validation of various parameters and identification of possible line corridors . Phase-2 is the simulations phase to identify techno- economically viable interconnections. Phase-3 is the final rollout phase comprising of comprehensive roadmap and the framework.</p> <p>To propel the OSOWOG efforts, governments can help build an effective clean energy transition pathway shifting away from fossil fuels. This can be realized by encouraging the involvement of leading technical and financial institutions worldwide, escalating research and knowledge-sharing activities among nations, etc. This session will help identify such opportunities for collaboration and realising the common goal of interconnected grids to increase the uptake of variable renewable energy sources.</p>
Session objectives/ Potential Outcomes	The purpose of this discussion will be to share the outcome of the technical study and initiate inter-governmental discussions to identify potential paths for countries and regions around the world as well as other stakeholders to come together to ensure the successful implementation of the OSOWOG initiative. Furthermore, the discussion will encourage collaboration and idea-sharing among countries and other stakeholders (public and private sectors) to work together on building an interconnected and resilient electricity grid.
Agenda	
15:00 - 15:03 PM	Welcome Address & context setting Dr Ajay Mathur , DG, ISA
15:03 - 15:10 PM	Presentation on OSOWOG Technical Study Dr Subir Sen – Executive Director (POWERGRID), Head of Task Force (OSOWOG)
Special Address	
15:10 - 15:15 PM	H.E. Nima BAH , Chief of Cabinet, Ministry of Energy, Hydraulics and Hydrocarbons, Republic of Guinea
15:15 - 15:20 PM	H.E. Thoriq Ibrahim , Minister for Climate Change, Environment and Energy, Republic of Maldives
15:20 - 15:25 PM	H.E. Nasrul Hamid , State Minister for Ministry of Power, Energy and Mineral Resources, People’s Republic of Bangladesh
15:25 - 15:30 PM	H.E. Suhail Mohammed Faraj Al Mazroui Minister of Energy, UAE*
15:30 - 15:35 PM	H.E. Abdulaziz bin Salman Al Saud Minister of Energy, Saudi Arabia*
15:35 - 15:45 PM	Keynote Address H.E. Shri R K Singh , Hon’ble Minister of Power and New and Renewable Energy, Govt of India and President of the ISA Assembly
15:45 - 16:25 PM	Panel Discussion & Audience Interaction Moderator Ramesh Kumar Kuruppath , Chief of Unit PPIC, ISA Secretariat Panellists James K. Wahogo , Secretary General, East Africa Power Pool (EAPP) Rajiv Kumar Porwal , Director (System Operation), Grid India Waleed Saleh I. Alsuraih , Lead Energy Specialist, World Bank Jyoti Parikh , Executive Director, IRADE (Integrated Research and Action for Development) Pratik Aggarwal , MD, Sterlite*
16:25 - 16:30 PM	Concluding Remarks and Vote of Thanks Ramesh Kumar Kuruppath , Chief of Unit, PPIC, ISA Secretariat

* To be confirmed.