

ISA

ANNUAL REPORT 2021



A large solar panel array is shown in a grassy field under a blue sky with scattered clouds. The panels are tilted and mounted on a metal frame. The text is overlaid on the upper left portion of the image.

ISA is making significant efforts to accelerate solar power deployment in every corner of the world and mobilising USD 1,000 billion in solar investments.

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FOREWORD



AJAY MATHUR
Director General, ISA

Climate change, energy access, and energy security are amongst of the most critical issues that the world is facing now. Solar power, and renewable energy overall, can help address all these challenges in a cost-effective manner. Already, solar power has reached cost parity in many parts of the world and the International Solar Alliance (ISA) is working towards making solar power, and renewable energy in total, a political priority for nations across the world.

This year has been difficult for global economies with various nations still reeling under the disastrous impact of the coronavirus pandemic. In the absence of physical meetings and discussions, virtual conferences have become a new normal. ISA has taken this change in its stride, and conducted a commendable number of webinars, training sessions, regional conclaves, committee meetings and workshops all through virtual media. We have further realised that solar in healthcare is now more important than ever, and ISA is actively working on solarisation of health care facilities in its member nations.

The solar power landscape is evolving everyday with new technologies, investment sources and ever lower tariffs being discovered across the globe. Thus, a primary focus area for ISA is on knowledge sharing through reports, workshops, seminars, and other media. Further, it is vital to make financial and human capital available for solar power deployment in all countries. To this end, another key focus area for ISA is capacity building across the entire solar value chain. ISA is also helping in project preparation and implementation in the Least Developed Countries (LDCs) and Small Island Developing States (SIDS) so that these projects can act as a trigger for technology advancement and policy change, and also help in the creation of financial and human capacity. The ISA is presently working on 47 such demonstration projects across cross-cutting verticals in its LDC and SIDS member nations.

ISA, through its various partnerships and collaborations on the world stage, is making significant efforts to accelerate solar power deployment in every corner of the world and mobilising USD 1,000 billion in solar investments. Further, as the designated nodal implementing agency for the revolutionary One Sun One World One Grid initiative, the ISA is working towards making the vision of a global interconnected solarised grid a reality.

ISA's most important role is to support its member countries in formulating enabling policies, developing pilots, facilitating financing, and building capacity to further global solarisation and we look forward to enhanced engagement with all our stakeholders to achieve this goal.

A handwritten signature in black ink, appearing to read 'Ajay Mathur', with a horizontal line underneath.

Ajay Mathur
Director General

ISA AT A GLANCE

STRATEGIC DIRECTION

The ISA is a growing international organisation of 80 member countries. It supports governments around the world to improve energy access and security by promoting solar energy as a sustainable, affordable and resilient way to transition to a carbon-neutral future.

The ISA's vision is to facilitate energy access in every corner of the world by delivering cleaner electricity to all by 2030. Its mission is to unlock USD 1 trillion of investment by 2030 by reducing the cost of the technology and its financing, and increasing the skills of people working in the industry.

To achieve this goal, the ISA has identified three key strategic priority areas:



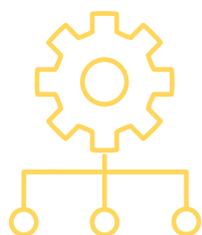
Advocacy and Analysis

To support member countries in the formulation of policies and regulations, the ISA plans to develop global annual reports on solar technology, solar investments and solar markets in the near future. This builds on the work of ISA's flagship report, 'The Ease of Doing Solar 2020', which provides strategic insights into how nations can leverage their solar potential and contribute towards global energy transition.



Capacity Building

The ISA will provide tailored capacity-building support adapted to the local context through its STAR-C programme. Under this programme, the ISA aims to set standards and norms for solar and strengthen solar ecosystems in all developing countries with solar training for all the stakeholders, testing and research.



Implementing Programmes

The ISA sets up sustainable solar projects in countries most impacted by climate change, especially Least Developed Countries (LDCs) and Small Island Developing States (SIDS), by aggregating demand for innovative and scalable solar solutions, and by facilitating access to funding with risk mitigation mechanisms such as the Sustainable Renewable Risk Mitigation Initiative developed with its partners (The Agence Française de Développement (AFD), International Renewable Energy Agency (IRENA), the World Bank and Sustainable Energy for All (SEforALL)). The ISA is contributing pragmatically to the global energy transition, with its bold initiative on grid interconnection "One Sun One World One Grid".

“ ISA's vision is to facilitate energy access in every corner of the world by delivering cleaner electricity to all by 2030.

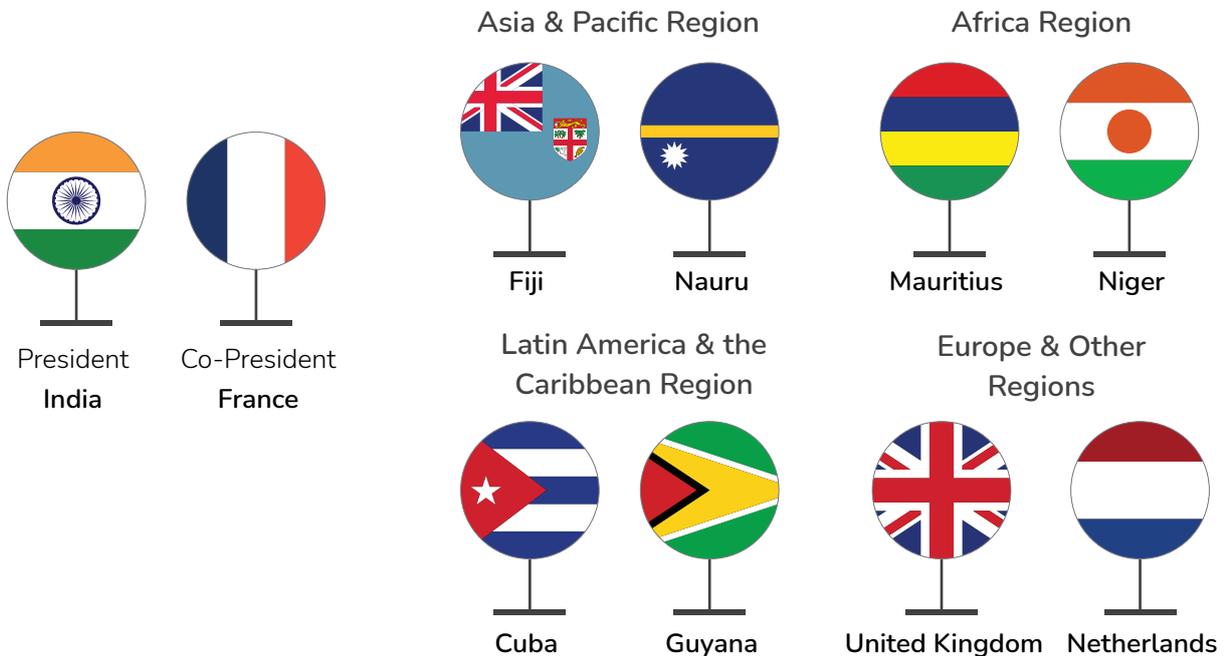
GOVERNANCE STRUCTURE

ISA Assembly

The Assembly of the ISA is the apex decision-making body which deliberates on critical matters like ISA objectives, its functioning, approval of operating budget, assessment of the implementation of various initiatives, programmes and activities of ISA and others. Three Assemblies have been held till now: First Assembly (October 2-5, 2018 in India), Second Assembly (October 30 to November 1, 2019 in India) and Third Assembly (October 14-16, 2020 through a virtual platform). The First Special Assembly was held in February 2021.

ISA Assembly

8 Vice Presidents representing 4 regions



ISA Committees

5 Committees (Standing Committee and 4 Regional Committees)

To provide strategic advice and guidance on the functioning of the ISA and facilitate the implementation of various ISA programmes, projects and activities

ISA Secretariat

Providing programmatic support to member countries for promotion of solar solutions

Support in strategic decision making and advocacy

Facilitate engagement with diverse stakeholders for conceptualisation of programs and projects

Till date, five meetings of the Standing Committee have taken place. The fifth meeting took place on August 31, 2021.

During August-September 2021, ISA held the 2021 Governance Meetings through National Focal Point Consultations and meetings of the Regional Committees to bring focus on the unique challenges and opportunities in the solar energy sector across the four regions of the ISA as well as promote an integrated approach to the organisation's governance structure. The regional meetings saw participation of more than 80 countries including several prospective member countries.

Regional Committee Meetings



Asia-Pacific Region: 76 representatives from 18 countries



Latin America and Caribbean Region: 97 representatives from 19 countries



Africa Region: 125 representatives from 31 countries

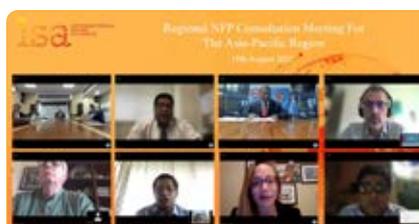


Europe and Other Regions: 54 representatives from 12 countries

Regional National Focal Point Consultation Meetings



Latin America and Caribbean Region: 73 representatives from 12 countries

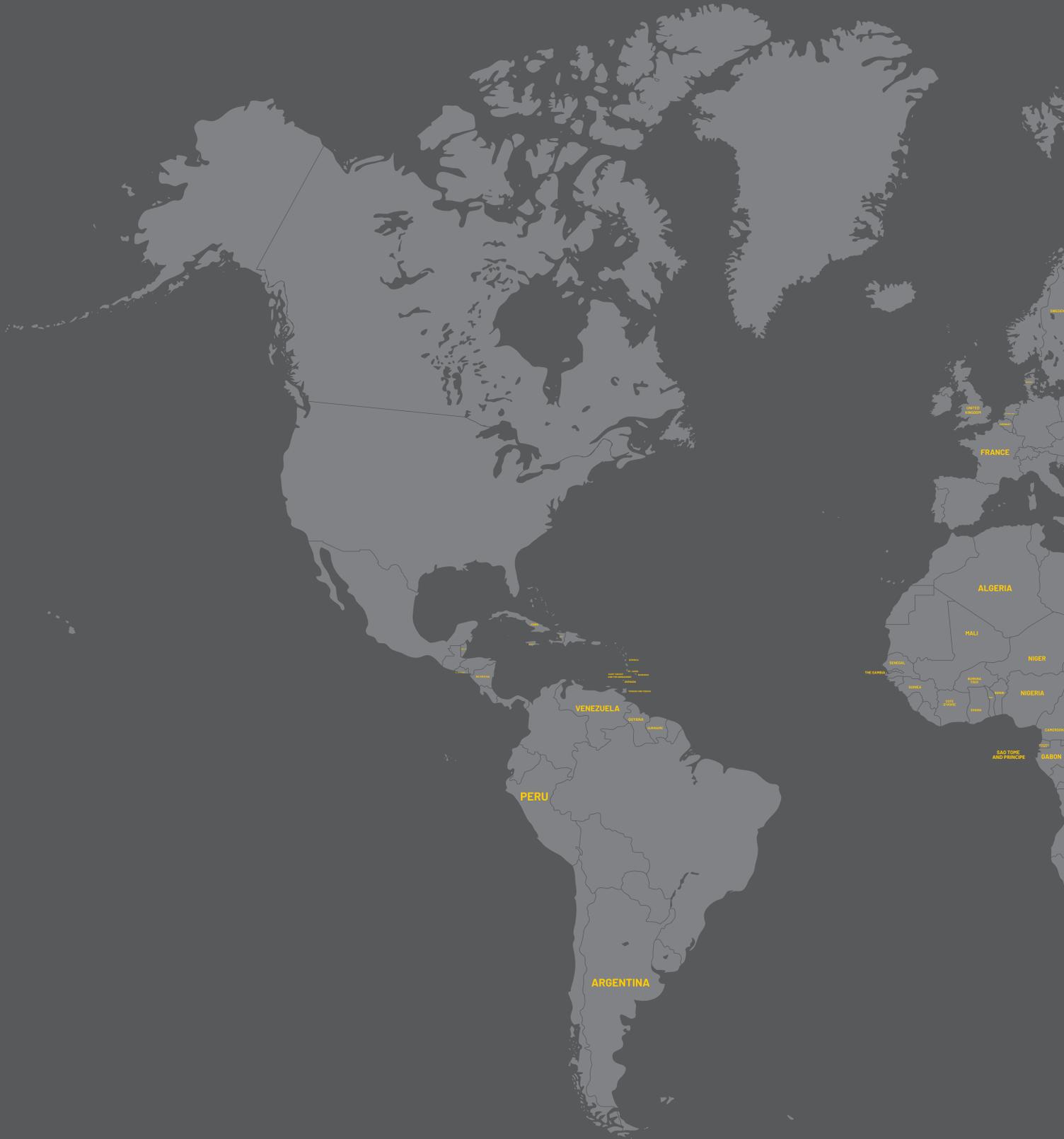


Asia-Pacific Region: 75 representatives from 17 countries



Africa Region: 83 representatives from 30 countries

UNIVERSALISATION OF MEMBERSHIP

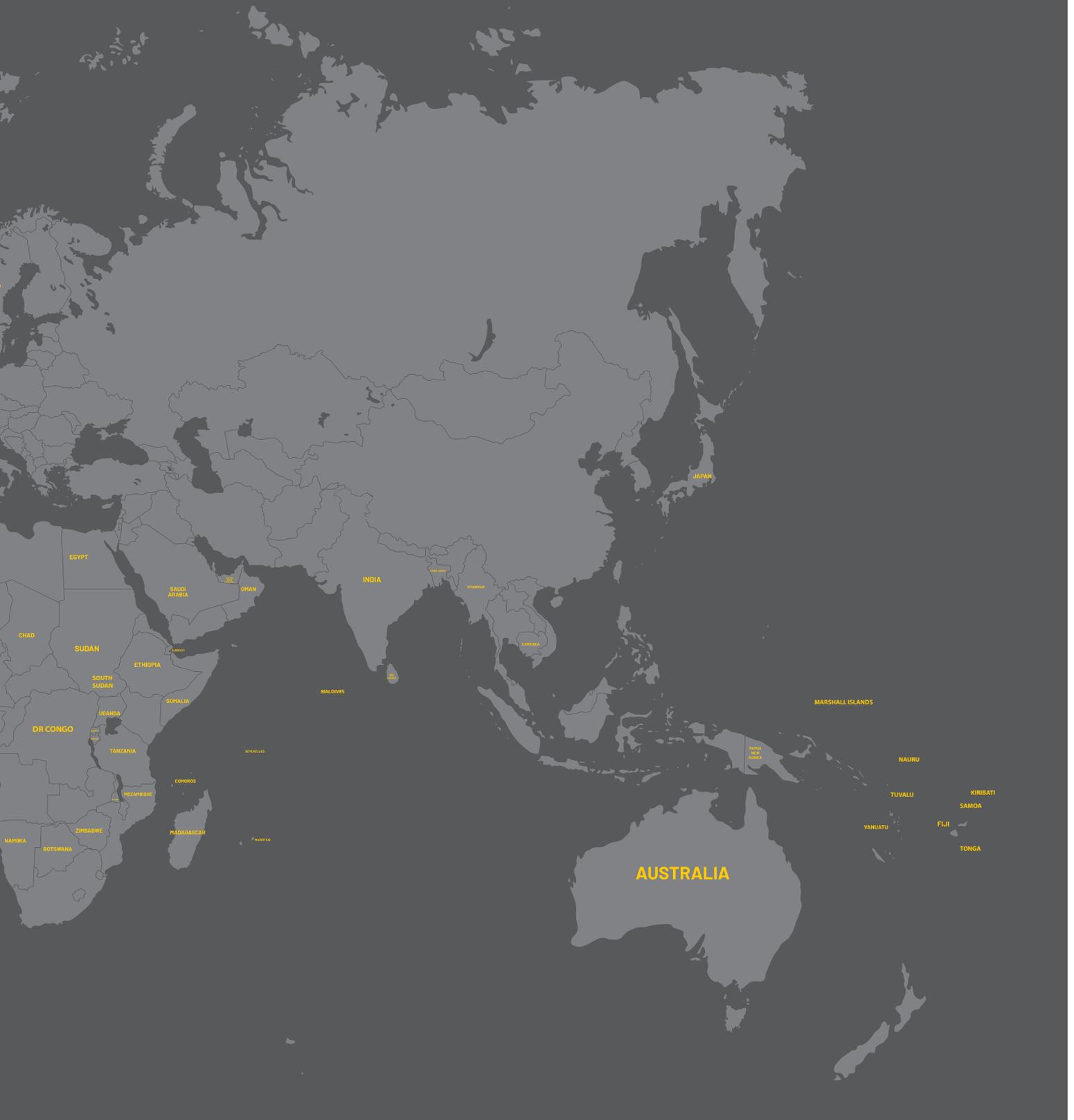


The First Assembly of the ISA, held on October 3, 2018, adopted the amendment to the Framework Agreement to expand the scope of ISA membership to all member countries of the United Nations.

The said amendment came into effect on July 15, 2020, after necessary approvals and ratifications were obtained from the requisite number of ISA member countries.

The coming into force of the amendment of the ISA Framework Agreement will now allow all the member states of the United Nations to join the ISA, including those beyond the Tropics.

80 countries have signed and ratified the ISA framework agreement till now.



NEW LEADERSHIP



DR AJAY MATHUR
Director General, ISA

Dr Ajay Mathur took over the charge of Director General of the ISA in March 2021. Prior to joining ISA, Dr Mathur served as the Director General of The Energy and Resources Institute (TERI). At TERI, his work revolved around promoting and adopting renewable energy and green hydrogen in the Indian electricity sector, enhancing efficiency in buildings and industry, and promoting environmental quality, among other areas.

Prior to TERI, he headed the Indian Bureau of Energy Efficiency where his work assisted in the mainstreaming of energy efficiency through initiatives. In the past, he has also served as the interim Director of the Green Climate Fund during its foundational period and has worked with the World Bank and Suzlon Energy.

A leading climate change negotiator who has served as the Indian spokesperson at the Paris climate negotiations, Dr Mathur is also a member of the Prime Minister's Council on Climate Change. He has been awarded a Chevalier de l'Ordre national du Merite by the French President in recognition of his outstanding commitment to the preservation of the environment and coping with energy-related challenges.

Dr Mathur has received a Bachelor's degree in Chemical Engineering from the then University of Roorkee, and Master's and PhD degrees from the University of Illinois.



**MR UPENDRA
TRIPATHY**
Former Director
General, ISA

An Indian Administrative Service officer of the Karnataka Cadre, Mr Upendra Tripathy served as the first Director General of the ISA since 2017. He helped in translating the concept of the ISA into a go-to global organisation on solar energy. During his tenure Mr Tripathy worked towards building a strong governance structure, increasing and universalising the membership, and implementing concrete programmes to scale up solar energy across the ISA member countries.

Prior to this, he served as the Secretary of India's Ministry of New and Renewable Energy from 2014 to 2016. During his tenure, the Indian government announced the ambitious target of setting up 175 GW of renewable energy projects by 2022 and he negotiated the framework agreement of the ISA. Prior to this he has also headed the Solar Energy Corporation of India, National Institute of Solar Energy, National Institute of Wind Energy, National Institute of Bio Energy, and Association of Renewable Energy Agencies of States.

He has received many accolades including the prestigious Prime Minister's Award for Excellence in Public Administration for his work in transforming the Bangalore city transport undertaking into a profit-making organisation.

Mr Tripathy has a Master's degree in Political Science from the Jawaharlal Nehru University and a Master's degree in Public Administration from the Carleton University, Canada.

ADVOCACY AND ANALYTICS

FLAGSHIP REPORTS

To support member countries in the formulation of policies and regulations, the ISA is developing global reports on solar technology, solar investments, and solar markets. Two of ISA's flagship reports that were completed and published in the past one year include: Ease of Doing Solar 2020 in ISA member countries and Solar Market Trends 2020 in ISA member countries.

Ease of Doing Solar 2020

ISA's flagship report, 'Ease of Doing Solar 2020' provides a compendium on current progress and best practices for the adoption of solar power across member nations based on a refined evaluation framework. A continuation of the pilot study conducted for four member countries in 2019, it was expanded to cover 80 ISA member countries in 2020.

The 2021 report is under preparation. The report develops a holistic view of a country's solar ecosystem. The objective is to assess and improve a country's preparedness to attract and sustain investments in solar energy based on various parameters and indicators grouped under seven key drivers:



The countries have been grouped across four segments, as below, basis the quantification of the total scores across the drivers:

Region-wise countries

Achiever

Countries with most favourable technical and commercial conditions for solar and perceived as most attractive for investments in solar.

Asia & Pacific region: **3**,
Latin America &
Caribbean region: **1**

Influencer

Countries with moderately favourable technical and commercial conditions for solar and perceived as moderately attractive for investments in solar.

Africa region: **14**, Asia & Pacific
region: **5**, Latin America &
Caribbean region: **10**

Progressive

Countries that are at initial stages in the development of a favourable ecosystem in terms of commercial feasibility and investments for solar.

Africa region: **12**, Asia & Pacific
region: **6**, Latin America &
Caribbean region: **5**

Potential

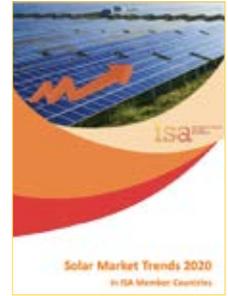
Countries with untapped potential and at a nascent stage for the development of a favourable ecosystem.

Africa region: **16**, Asia & Pacific
region: **4**, Latin America &
Caribbean region: **4**

Solar Market Trends 2020

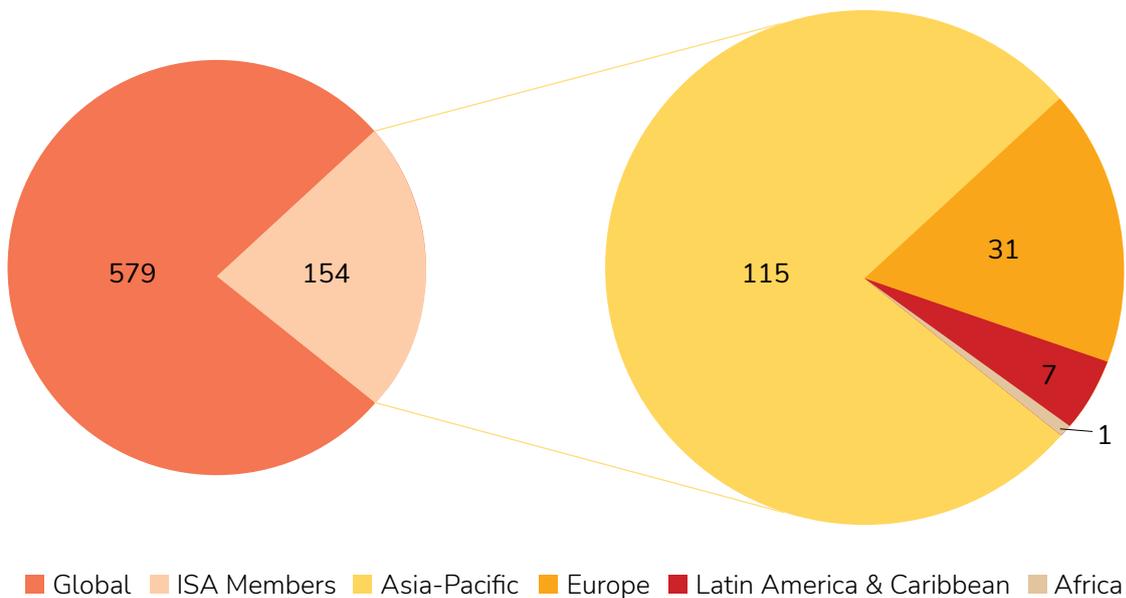
The Solar Market Trends 2020 report forms a part of the Ease of Doing Solar initiative. It has been envisaged to present key trends in the solar markets of ISA member countries. The 2020 edition aims to capture PV trends and various disruptions in the solar industry globally with a focus on the non-OECD member countries.

The report also focuses on regional developments, decentralised solutions for improving access to electricity and evolving solar applications in focus.



The ISA member countries represented 154 GW (~26.6 per cent) of the global solar PV capacity. The Asia & Pacific region represented 74 per cent of the installed capacity followed by the Europe and Latin America & Caribbean regions contributing to 20 per cent and 5 per cent respectively. The African countries account for only 1 per cent of total installation with off-grid solar contributing to nearly 52 per cent.

Total installed solar PV capacity 2019 (GW)



Source: Solar Market Trends 2020

“ To support member countries in the formulation of policies and regulations, the ISA is developing global reports on solar technology, solar investments, and solar markets.

COUNTRY PARTNERSHIP FRAMEWORK

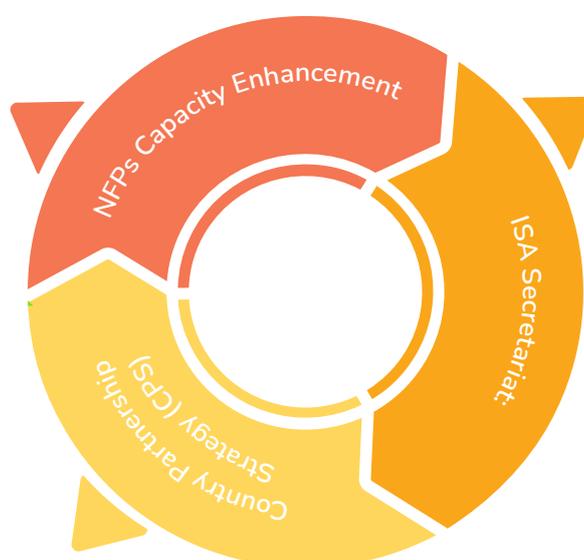
ISA is actively engaged with member countries and their respective ministries to strengthen the solar energy sector.

Rationale for a Country Partnership Framework

- Assembly 2020 approval of national focal point (NFP) capacity enhancement measures and moving from a project to a strategic and programmatic approach at country level.
- Further review of experience of similar international development institutions with country engagement strategies.
- ISA Secretariat enhancement of country support functions and identification of mutual support opportunities for ISA members.
- ISA flexibility to engage according to needs (analysis and advocacy, capacity enhancement, programmes support) based on regional, sub-regional and country typologies and experience, special focus on LDC and SIDS.
- ISA Draft Strategic Plan embeds ambitious goals for solarisation in reaching net zero by 2050 and justifies moving from individual projects to creating an enabling environment for accelerating investments, including solar plans, policy frameworks, institutional arrangements and capacities, and inclusive partnerships.

Elements of a Country Partnership Framework for ISA

To lead on CPS, annual engagement plan and annual review to improve accountability for results, with full implementation of support arrangements for NFPs.



Institutional arrangements and capacities aligned to intensify relations and enhance support to national focal points (NFPs).

Document for country level collaboration especially in LDCs and SIDs with solarisation plan and roadmap to shape ISA support

Expected results

- Enhanced NFPs capacities to prepare CPS and lead/ coordinate solarisation efforts at country level.
- NFPs systematically access ISA knowledge products, global initiatives, capacity development, and programme resources for acceleration of solarisation programmes.
- NFPs and ISA report on results of CPS annually, share knowledge more effectively, and enhance accountability.
- ISA global initiatives and achievements towards solarisation goals accelerated through more intensive country engagement and response.

PRIVATE SECTOR ENGAGEMENT

Achieving the ISA's goals of energy security, energy access, and energy transition requires massive scaling up of solar PV capacity and solar investment and the private sector will play a critical role in this.

ISA is enabling solar market uptake by collecting data, assessing needs, and plugging investment gaps in member countries. ISA's private sector engagement strategy intersects their needs, ISA's competencies, and gaps in the landscape.

Key objectives:

- Bringing in relevant private sector stakeholders to identify business opportunities and catalyse solar investments.
- Initiating and strengthening dialogue between policy makers and investors to attract and sustain investments.

ISA can lead three private sector agendas:

1. **Ease of Deploying Solar:** Create enabling ecosystems that allow private players to deploy solar projects, applications, and services at large volumes, and at speed by removing regulatory and infrastructural barriers.
2. **Ease of Buying Solar:** Create a marketplace for buyers in ISA countries to access solar energy by aggregating demand, increasing dialogue and transparency, and mobilising investment to support the private sector to deliver projects at scale.
3. **Ease of Trading Solar:** Support solar (and other renewables) to integrate with grids in and across countries and regions to create larger opportunities for the private sector and facilitate energy trade.



FIRST WORLD SOLAR TECHNOLOGY SUMMIT



From left to right

Top row: Mr Dharmendra Pradhan, Minister of Education and Minister of Skill Development and Entrepreneurship, Government of India; Mr Gurdeep Singh, Chairman and Managing Director, NTPC Limited; Ms. Sukanya Balakrishnan (Session anchor); Mr Bertrand Piccard, FRSGS, Founder and Chairman, Solar Impulse Foundation, Switzerland. Middle row: Mr. Didier Coulomb, Director General, International Institute for Refrigeration, Paris; Amb Claver GATETE, Minister of Infrastructure, Rwanda; Mr R K Singh, Minister of Power and New & Renewable Energy, Government of India, and President of ISA Assembly; Mr. Upendra Tripathy, Former Director General, ISA. Bottom row: Dr. Dharendra Yogi Goswami, Editor-in-Chief, Solar Energy Journal; 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; Prof K Vijay Raghavan, Principal Scientific Advisor to the Government of India

On September 8, 2020, the ISA, along with the Federation of Indian Chambers of Commerce and Industry (FICCI) organised the First World Solar Technology Summit (WSTS) with over 26,000 registrations, 10,500 participants and 50 speakers from across the globe joining the deliberations virtually to bring the spotlight on next-generation technologies which will promote the growth of solar energy globally.

The inaugural session kicked off with the President of the ISA Assembly, Mr Raj Kumar Singh delivering a message from the Prime Minister of India. He was joined by the Vice Presidents of ISA from various regions and Ms Kadri Simson, the European Commissioner for Energy, Ms Barbara Pompili, the Minister for Ecological Transition in France, and Dr M. Stanley Whittingham, a Nobel Laureate in the field of Chemistry.

The opening session was followed by the Global CEOs session, which included leaders of global corporate giants in the solar power space. The list of speakers in this session include: Mr Jean-Pascal Tricoire, Chairman & CEO, Schneider Electric; Mr Eric Rondolat, Chief Executive Officer, Signify; 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; Mr Uday Kotak, CEO & Founder, Kotak Mahindra Bank and President CII; and Ms Walburga Hemetsberger, CEO,

Solar Power Europe, Belgium. The session was moderated by Ms Jeanette Rodrigues, Mumbai Bureau Chief, Bloomberg News. The session addressed the future of solar energy and its role in the global economy. Along with increased investment and progressive policies and regulation, the panel emphasised that a combination of solar, storage, and digital initiatives is the way forward.

The next four technical sessions saw renowned academicians, scientists, and researchers deliberate on the future prospects of the solar PV technology. The panellists addressed a wide range of issues including efficiency in technologies, financial viability of large-scale and decentralised solar projects, future of storage technologies, future of mono-crystalline silicon cells, among others. The sessions brought to light some of the biggest drivers for the growth of the global solar sector.

The event ended with a valedictory session with top level government officials as well as heads of international organisations. In conclusion, the speakers acknowledged that greater deployment of solar energy hinges on making it more stable and dispatchable.

Key highlights of the event:

- Five PSUs in India's hydrocarbon sector, ONGC, IOCL, BPCL, Hindustan Petroleum and GAIL, joined ISA's Coalition for Sustainable Climate Action (ISA-CSCA) and pledged a total of USD 5 million as corporate partners.
- A tripartite agreement was announced between Ministry of New and Renewable Energy in India, the World Bank and the ISA on One Sun, One World, One Grid.
- ISA signed three partnership agreements during the event with International Institute for Refrigeration, Paris; Global Green Growth Institute (Republic of Korea); and NTPC (India).
- ISA's Technology Journal "Solar Compass 360" was announced at the event.



सत्यमेव जयते
प्रधान मंत्री
Prime Minister
MESSAGE

Your Excellencies, ladies and gentlemen,

Greetings and a warm welcome from India on this inaugural session of the First World Solar Technology Summit of International Solar Alliance. This Summit provides an ideal occasion to discuss the future of technology in solar energy.

India and France had jointly taken the initiative to establish the International Solar Alliance in 2015. The seeds of the idea sown five years ago have today blossomed into an inter-governmental alliance, with 87 signatory nations and 68 full-fledged members. There are other stakeholders such as development agencies, non-government agencies and businesses. This Alliance had been set up to generate a global dialogue on solar energy, particularly in solar-rich nations that do not possess the resources to utilise it. The objective of the Alliance was to pool together the resources and the demand for solar technology, as well as finance.

The membership of the ISA has now been opened up for all the member-countries of the United Nations. I strongly urge all nations to join this critical initiative to protect our Mother Earth and scale up the utilisation of solar energy as a tool against Climate Change.

Friends,

Five years ago, world leaders had taken a pledge to restrict the rise in global temperature through a gradual reduction in the dependence on fossil fuels. India has lowest per-capita carbon emissions in the world, but we have still pressed ahead with the deployment of renewable energy at a frenetic pace. We have enhanced our installed renewable capacity by 2.5 times and increased our solar installed capacity by more than 13 times. Globally, India now ranks 4th in terms of renewable power.

We have scaled up our non-fossil fuel-based power generation to 134 GW, which is about 33% of our total power generation. We are confident of increasing it to 220 GW by 2022. We want to take renewable energy to every village of our country. Our Government has implemented a scheme named KUSUM that aims to replace the use of diesel in our farm sector with solar energy. Under this scheme, we have targeted the solarisation of 2.8 million irrigation pumps. Such schemes will not only benefit the environment, but also increase the income of our farmers.

Friends,

ISA is the first inter-government organisation with its headquarters in India. We feel honoured to contribute to its development and work. India is providing capacity building support to ISA member countries through its IIEC training programme. We have also set up a Project Preparation Facility to develop bankable Solar Energy projects in ISA member countries with the help of EXIM Bank of India.

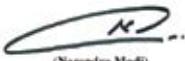
In 2018, our Government had announced about US \$1.4 billion worth of lines of credit (LOCs) for covering 27 solar projects across 15 countries. These projects are presently in various stages of implementation.

Technology holds the key to scale up the use of solar energy. Technological advancements have already brought about a significant reduction in the price of solar power. A further reduction in the cost will provide a major boost to the use and expansion of renewable energy.

I am sure that this summit will help in developing new technologies and ensure that they become available to all.

The ISA is a part of "One World One Sun One Grid" project. I firmly believe that this project can bring transformational benefits for the entire humanity.

I extend my best wishes for successful deliberations at the inaugural session of the World Solar Technology Summit.



(Narendra Modi)

New Delhi
शुक्रवार 16, अगस्त, 1942
7th September, 2020

Message from the Prime Minister of India, Mr Narendra Modi

CAPACITY BUILDING INITIATIVES

In enabling global solarisation of the world, one of the key gaps that have been identified by the ISA is the lack of institutional and human capacity to support solar power deployment. Thus, the ISA is undertaking capacity building across the entire solar power development value chain in order to ensure a rapid scale-up of solar power across the globe. This includes a range of stakeholders including technical manpower, researchers, policymakers, regulators, project developers, power utilities as well as financial institutions.

To achieve this objective effectively, the ISA first analyses the training needs and formulates training plans, case studies and guidelines accordingly. It then identifies stakeholders and organises training workshops and webinars. Post training, it conducts follow-up sessions with stakeholders and collects feedback for scope of improvement to prepare monitoring and evaluation reports.

ISA's capacity building initiatives and their outcomes

Initiatives

- PhD and MTech fellowships
- Training under STAR-C Programme
- Training of master trainers under ITEC
- Professional degree programmes (MBA and Undergraduate)
- Skill development of technicians
- Training of bankers under 'Making Solar Bankable' initiative

Outcomes

- Enhanced institutional capacity
- Promotion of R&D and innovation
- Support in policy formulation
- Facilitating development of bankable project proposals
- Support in strategic decision making



ISA SOLAR FELLOWSHIP FOR MID-CAREER PROFESSIONALS

ISA launched the Solar Fellowship Scheme for Mid-Career Professionals for ISA member countries in 2019. The scheme is designed to benefit and encourage policy makers, planners, administrators, and managers in government, who have a public service commitment, a demonstrated leadership potential, and commitment to development in their own home country.

Under this scheme, two batches are already ongoing. In the first batch 21 and in the second batch 19 promising mid-career professionals are currently pursuing a two-year M. Tech. Programme in Renewable Energy Technologies and Management at the Indian Institute of Technology, Delhi.

Moreover, applications have been invited for the third batch which can accommodate up to 35 candidates and ISA will sponsor 20 of these candidates.



December 2020: Mr Raj Kumar Singh, President of the ISA Assembly interacted with ISA fellows

STAR-C

The ISA Secretariat launched the ISA Solar Technology and Application Resource Centre (ISTAR C) to support capacity building efforts in the ISA member countries through training. Its primary objective is to create a skilled workforce for large-scale deployment of solar energy applications and research, development, innovation, standardisation and testing in solar energy.

The initial assessment of the capacity needs, existing training and R&D infrastructures in ISA member countries was conducted in 2018.

Objectives



Solar finance



Solar technologies



Harmonisation



Aggregation of demand



Innovation



R&D



Capacity building

BANKERS TRAINING

In many parts of the world, banks and financial institutions have limited clarity about the financing process, cost-benefit analysis, project preparation, appraisals, contract finalisations, and risk guarantee mechanisms of solar power assets. The ISA is working to address this issue of exaggerated risk perception by conducting capacity building programmes for bankers in its member countries, through training sessions, seminars and workshops.

Consequently, the initiative aims to enable bankers and finance professionals to review and assess the techno-commercial viability of setting up a solar PV plant. The ISA has partnered with training institutes and experts such as National Institute of Solar Energy (India), Skill Council for Green Jobs, IREDA, the State Bank of India and others to develop curriculum, best practices manuals, case studies for training according to global standards and specifications.

Till date, 698 participants in 10 batches have undergone Bankers Training from 42 ISA member countries across three regions.

ISA Bankers Training Batches 1st to 10th

AFRICA 26 countries		ASIA PACIFIC 6 countries		LAC 10 countries	
	Participants		Participants		Participants
Batch-1st	0	Batch-1st	42	Batch-1st	0
Batch-2nd	50	Batch-2nd	0	Batch-2nd	0
Batch-3rd	40	Batch-3rd	0	Batch-3rd	0
Batch-4th	13	Batch-4th	1	Batch-4th	2
Batch-5th	0	Batch-5th	0	Batch-5th	39
Batch-6th	15	Batch-6th	2	Batch-6th	22
Batch-7th	30	Batch-7th	15	Batch-7th	71
Batch-8th	0	Batch-8th	0	Batch-8th	41
Batch-9th	30	Batch-9th	3	Batch-9th	53
Batch-10th	174	Batch-10th	31	Batch-10th	24
Total	352	Total	94	Total	252

TRAININGS AND WORKSHOPS

ISA has been facilitating several capacity building initiatives for its member countries. These include various training programmes and workshops. In light of the pandemic, there has been a shift to a virtual platform which presents an opportunity for knowledge exchange and sharing of best practices to a wider audience across the globe. To this end, the ISA has conducted various workshops in 2020-21.

Workshops

December 16, 2020



ISA conducts workshop on Solarisation of International Airports

March 19, 2021



ISA conducts 5 days "Solar PV Minigrid Implementation" training program in collaboration with Skill Council for Green Jobs.

May 25, 2021



ISA organises Solar O&M Workshop

July 6, 2021



ISA conducts a seminar on Best O&M Practices in photovoltaic systems in Latin America

“ ISA has been facilitating several capacity building initiatives for its member countries. These include various training programmes and workshops.

WEBINARS

ISA has organised various dedicated webinars on key themes related to solar power deployment in the past one year. These webinars aim to provide a platform for discussing various facets related to technology options, business models, financing, and benefits of such projects. The objective of these webinars was to initiate fruitful dialogue between various stakeholders including technology suppliers and member countries. These webinars also covered practical aspects regarding technology landscape and on-ground challenges for such projects.

November 5, 2020



Technical Seminar on Solar and Efficient Cold chains

November 19, 2020



Webinar on Rooftop Solar Projects

December 3, 2020



Webinar on E-mobility and Storage Solutions

December 10, 2020



Webinar on Solarisation of Health Facilities

January 29, 2021



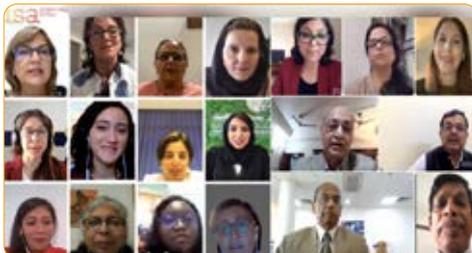
Webinar on Mobilisation of ISA Membership

February 3, 2021



Webinar on Grid Integration of Renewable Energy

March 8, 2021



Webinar on Solar for Women: Changing Lives and Igniting Possibilities

July 30, 2021



Webinar on Floating Solar: A New Pillar of Solar PV (Africa Region)

ISA PROGRAMMES AND THEIR IMPLEMENTATION

The ISA, at present, is working on the following seven programmes:



Scaling Solar Applications for Agricultural Use



Affordable Finance at Scale



Scaling Solar Mini-Grids



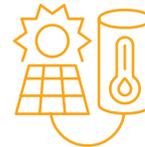
Scaling Rooftop Solar



Scaling Solar E-Mobility and Storage

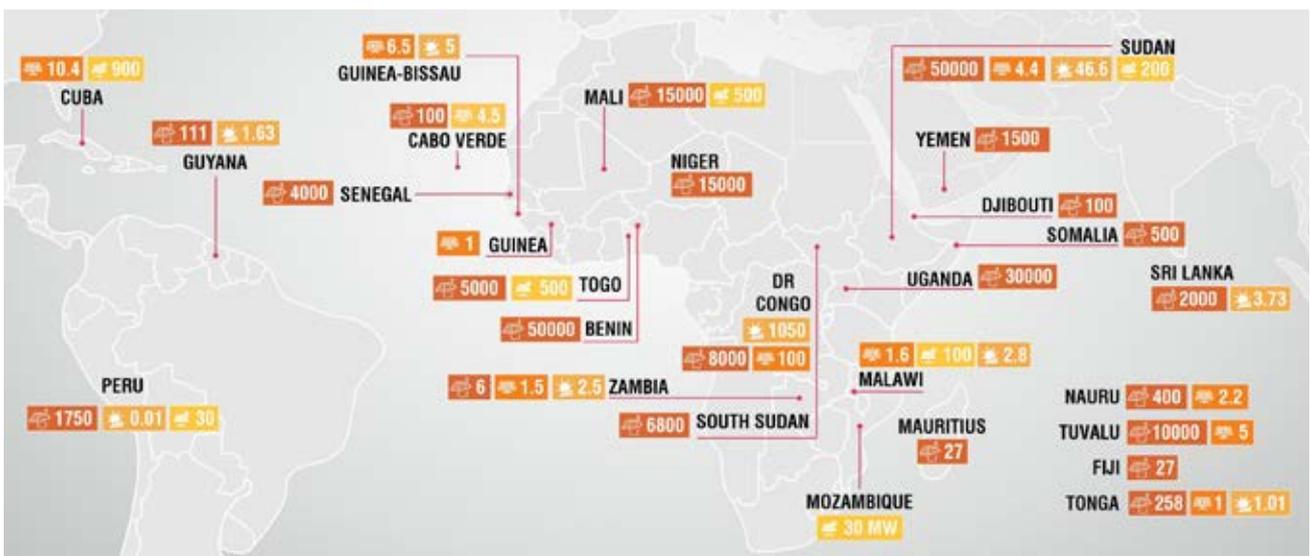


Solar Parks



Solarising Heating and Cooling Systems

Aggregated projects concept proposals (4.5 GW) received from member countries



Solar Pumps (no.)
200,579 ~ 1000 MW



Solar Rooftop (MWp)
138



Solar Mini-Grids (MW)
1113



Solar Parks (MWp)
2260

SCALING SOLAR APPLICATION FOR AGRICULTURE USE

ISA's first programme, Scaling Solar Applications for Agricultural Use (SSAAU), was launched in New York, USA in April 2016. The SSAAU Programme mainly focuses on decentralised solar applications in rural settings.

Key technologies under this programme:



Solar powered irrigation systems



Solar drying



Solar home/street lighting systems



Solar chilling and other offgrid applications

Key focus areas:



Demand Aggregation



Technical Assistance to Member Countries



Facilitating Deployment



Facilitation of Affordable Finance



Capacity Building

Progress made so far

- The IBSA Fund proposal was submitted to the United Nations Development Programme for 10 countries in June 2021 for approval of grant of USD 2 million

Phase I Countries	Phase II Countries	Phase III Countries
Senegal	Niger	South Sudan
Mali	Republic of Benin	DRC
Togo	Uganda	
Republic of Sudan	Tuvalu	

- E-book for solar water pumps and solar home systems was developed
- Engagement with the European Investment Bank for finance of solar home systems for four countries: DR Congo, Rwanda, Nigeria and Uganda
- Standards have been developed for solar home systems
- Bidding of 9 million solar home systems has been conducted
- Virtual ISA missions were planned for 5 countries
- Statement of Purpose for program 1 developed
- Mission Energy Independence is under development
- Eight business models for solar water pumping systems have been developed

AFFORDABLE FINANCE AT SCALE

The ISA Secretariat has launched a programme, 'Affordable Finance at Scale' to develop innovative financial products and modalities to facilitate large-scale low-cost investment in the solar energy sector across ISA member countries. The programme primarily focuses on mitigating risks associated with solar energy projects.

Risks in solar projects:

- Defect or underperformance of the solar installation or PV module
- Legal title of the land
- Completion time overrun
- Improper installation of the solar plant
- Unintentional error in calculations of the projected performance
- Contractual failure to pay in time by the agencies purchasing power
- Expropriation and political risk
- Currency volatility
- Substantial change in duties and taxes on imported equipment and contractual changes in Power Purchase Agreements (PPAs) after a change in the political regime

These high-level risks continue to be one of the barriers to investment in solar energy projects across ISA member countries. The solution lies in developing a model for a comprehensive insurance framework in the solar sector to serve as a guiding document for governments, insurance regulators, developers, EPC contractors, financiers, and insurers.

ISA Model Insurance Framework for the Solar Sector

ISA had conducted one webinar and one Sun Meet in November 2020 with the stakeholders, to list their concerns and to give suggestions on the insurance of solar projects. Considering the suggestions, ISA formed an Insurance Committee to come up with a detailed framework.

The objective of this framework is to identify and minimise or transfer the critical risks in solar projects with appropriate insurance cover and encourage private investment in order to achieve the goal of investment of USD 1,000 billion by 2030. Further, with comprehensive solar insurance, the insurance tariff rates can be optimised to make the insurance of solar projects more competitive for member countries.

The identification, allocation and mitigation of high-level risks in the solar sector are considered as critical inputs for the insurance framework. The ISA Model Insurance framework will address the concerns of stakeholders, both during the installation of the solar plant and also during the operational phase including all critical risks, while keeping in view the legal aspects and cost-effectiveness of the insurance cover.

It will demarcate the role and responsibilities of the manufacturers, contractors, developers, financiers, regulators and governments. It will also provide a guideline for the countries and regulators to enable the insurance cover in a cost-effective and sustainable manner so that private investment in solar projects will be more attractive.

SCALING ROOFTOP SOLAR PROGRAMME

With the objective to promote, assess potential, harmonise demand, and pool resources for rapid deployment and scaling up of Rooftop Solar (Off-Grid and Grid-Connected) in ISA Countries, the ISA Secretariat floated Program 4 in March 2018 for Scaling Solar Rooftop.

Key focus areas:



Demand
Aggregation



Policy and
Regulatory
Support



Technical Assistance
to Member
Countries



Development
of Bankable
Projects



Facilitation of
Affordable
Finance



Capacity
Building

Progress made so far

- ISA Secretariat finalised NTPC Limited as a project management consultant through a transparent Swiss-Challenge Method, to assist ISA countries in the implementation of rooftop solar projects.
- The embassies of Ghana, Sudan, Fiji in New Delhi consented to install rooftop solar systems. This is in line with ISA's vision to install rooftop solar systems on buildings of Embassies/High Commissions in New Delhi.
- ISA aggregated demand of 1,041 MW of rooftop solar projects from 11 ISA countries (Cape Verde, Democratic Republic of Congo, Cuba, Guinea, Malawi, Nauru, Sudan, Tonga, Tuvalu, Zambia and Guinea-Bissau, a prospective member country).
- Solar PV rooftop preliminary assessment of 16 countries was carried out by ISA in partnership with PwC. The countries are Benin, Burkina Faso, Cape Verde, Democratic Republic of Congo, Cuba, Guinea, Guinea-Bissau, Malawi, Mali, Nauru, Sudan, Togo, Tonga, Tuvalu, Uganda, and Zambia.
- ISA prepared a report on the Ghana Rooftop Solar Initiative based on on-site verification and possibility of implementing a 30 MWp rooftop solar project under the renewable energy service company model.
- Four project proposals from Benin, Comoros, Fiji and Kiribati were received under 47 demonstration projects for solarisation of health centres/schools using rooftop solar systems.
- ISA has prepared 8 case studies for implementation of rooftop solar projects in ISA member countries. It has also prepared business models for implementation of rooftop solar projects across member countries.
- ISA has trained 128 participants on rooftop solar from member countries.
- ISA facilitated the installation of a 2 kWp portable rooftop system with storage at the NISE Campus. The system was developed by GIZ.

SCALING SOLAR MINI-GRIDS

The Scaling Solar Mini-Grids programme was launched in May 2017 with a special objective to cater to the energy needs of ISA member states in identified areas with unreliable or no grid(s), and in island member states having abundant potential to tap solar energy including replacing existing diesel generator sets with solar systems.

Key focus areas:



Policy and
Regulatory
Support



Technical
Assistance



Development
of Bankable
Projects



Capacity
Building



Knowledge
Dissemination



Country
Outreach

Progress made so far

- ISA has prepared a report on mapping of Solar Mini Grids Market Opportunity and Implementation Modalities for five countries in Africa (Senegal, Nigeria, Ghana, Ethiopia, Zambia)
- ISA has prepared eight case studies for the implementation of solar mini-grid projects in ISA member countries
- ISA has prepared a draft report on feasibility of mini-grids and mapping of mini-grid initiatives by donors in eight member countries (Congo, Guyana, Malawi, Sri Lanka, Sudan, Tonga, Guinea Bissau, Zimbabwe)
- ISA has prepared a draft pre-feasibility report on solarising diesel mini-grids in Fiji
- ISA has prepared business models for implementation of solar mini-grids in SIDS member countries
- ISA has aggregated demand of 82.5 MW of solar mini-grids from nine ISA member countries (DR Congo, Cuba, Guyana, Malawi, Sri Lanka, Sudan, Tonga, Guinea-Bissau and Zambia)
- ISA has imparted training on solar mini-grids to 231 participants from 16 member countries



SOLAR PARKS

The programme for development of large-scale solar power projects under the solar park concept was approved in October 2019. It aims to promote, assess potential, harmonise demand and pool resources for the rapid development of large-scale solar projects in ISA member countries.

Progress made so far

- The e-book including program document, guidelines, implementation methodology, Eol format and other details has been circulated to all the member countries.
- Bilateral meetings have been held with 19 countries so far.
- ISA has received interest for 2,280 MW of solar capacity from seven ISA member countries - Togo (500 MW), Mali (500 MW), Malawi (100 MW), Niger (50 MW), Cuba (900 MW), Mozambique (30 MW) and Sudan (200 MW).
- Draft pre-feasibility reports have been prepared and shared for 17 member countries.
- Preliminary country assessment reports have been prepared and shared with Benin and Burkina Faso.
- Country outreach has been done for setting large solar projects in Jamaica, Trinidad and Tobago, Tanzania, Namibia, Nigeria, Djibouti, Ethiopia and Zimbabwe.
- A regional conclave was organised on November 3, 2020, to interact with financial institutions, developers, and all other stakeholders in the African region to sensitise them about the ISA model for solar park implementation and mobilising investments.
- ISA is also assessing the potential for development of floating solar projects in the ISA member countries in view of its multiple benefits including hybridisation with existing reservoir based hydro projects.
- ISA is exploring the possibility of setting up ground mounted or floating grid-connected solar projects for a cluster of countries in various power pools in different regions.

Country-wise project status

Projects under development

Country	Capacity (MW)
Togo	500
Mali	500
Cuba	900
Malawi	100
Niger	50

Projects approved or proposed by ISA

Country	Capacity (MW)	Country	Capacity (MW)
Mozambique	30	Guyana	50
Sudan	200	Myanmar	150
Gambia	100	Ghana	50
Rwanda	50	Sudan	200
Uganda	50	Egypt	100
Sri Lanka	50	Suriname	50-100
Mauritius	50		

SCALING SOLAR E-MOBILITY AND STORAGE

To form the structural basis of the programme, capacities and needs for solar electric mobility and storage are being assessed and existing technologies and projects in the space are being benchmarked.

SOLARISING HEATING AND COOLING SYSTEMS

This is the most recent addition to ISA Programmes and was launched in October 2020, during the Third Assembly. The main objective is to solarise the growing thermal demand from commercial, industrial, and residential sectors.

ISA's PROJECT IMPLEMENTATION SUPPORT IN MEMBER COUNTRIES

In order to advance towards its goal of reducing the cost of finance for solar power and create scalable solar power projects with innovative technologies and efficient business models, ISA intends to implement demonstration projects in its member countries. A total of 47 such demonstration projects were approved for ISA's LDCs and SIDS member nations in the Third Assembly in October 2020.

India's state-owned power producer NTPC Limited is ISA's implementation partner and project management consultant for these demonstration projects. It will coordinate and supervise the projects starting from need assessment to the final commissioning and handing over of the project to the member country. NTPC Limited issued an expression of interest for the same in December 2020.



Solar cold storage - 3



Solar RO-water - 1



Solarisation of health facility - 5



Solarisation of existing pumps - 12



Solarisation of schools - 1



Solar water pumps - 10



Solar irrigation - 9



Off-grid solar - 3



Solar cold chain pilot - 1



Solar parks - 2



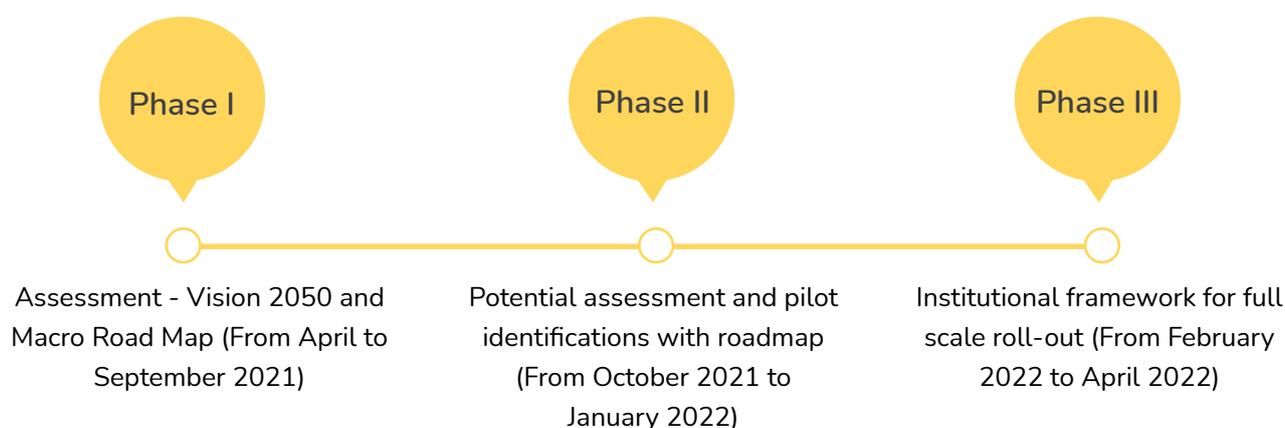
ISA'S FLAGSHIP INITIATIVES

ONE SUN ONE WORLD ONE GRID

During the First Assembly of the International Solar Alliance (ISA) in October 2018, the Prime Minister of India, Mr Narendra Modi, presented his vision for a common grid that will transfer solar power across countries. The initiative is dubbed “One Sun One World One Grid” (OSOWOG). It was proposed with the motive of capitalising on the time-of-day variability of solar energy to build a global ecosystem of interconnected renewable energy resources. **This feat will be carried out in three stages: Indian grid interconnection with the Middle East, South Asia and Southeast Asian (MESASEA) grids; MESASEA grid interconnection with the African power pools; and global interconnection.**

As per a tripartite agreement signed in September 2020, India's Ministry of New and Renewable Energy is the programme support agency, ISA the nodal implementing agency, and the World Bank the strategic advisory and funding agency for the OSOWOG Initiative. Other implementing partners include a consortium led by Electricité de France to conduct the pre-feasibility study for OSOWOG and create a road map. The other members of the consortium are Application Européenne de Technologies et de Services and The Energy and Resources Institute. The State Bank of India is the contracting agency and EY is the knowledge partner for this initiative.

The initiative is mapped across three phases:



PROGRESS TILL NOW

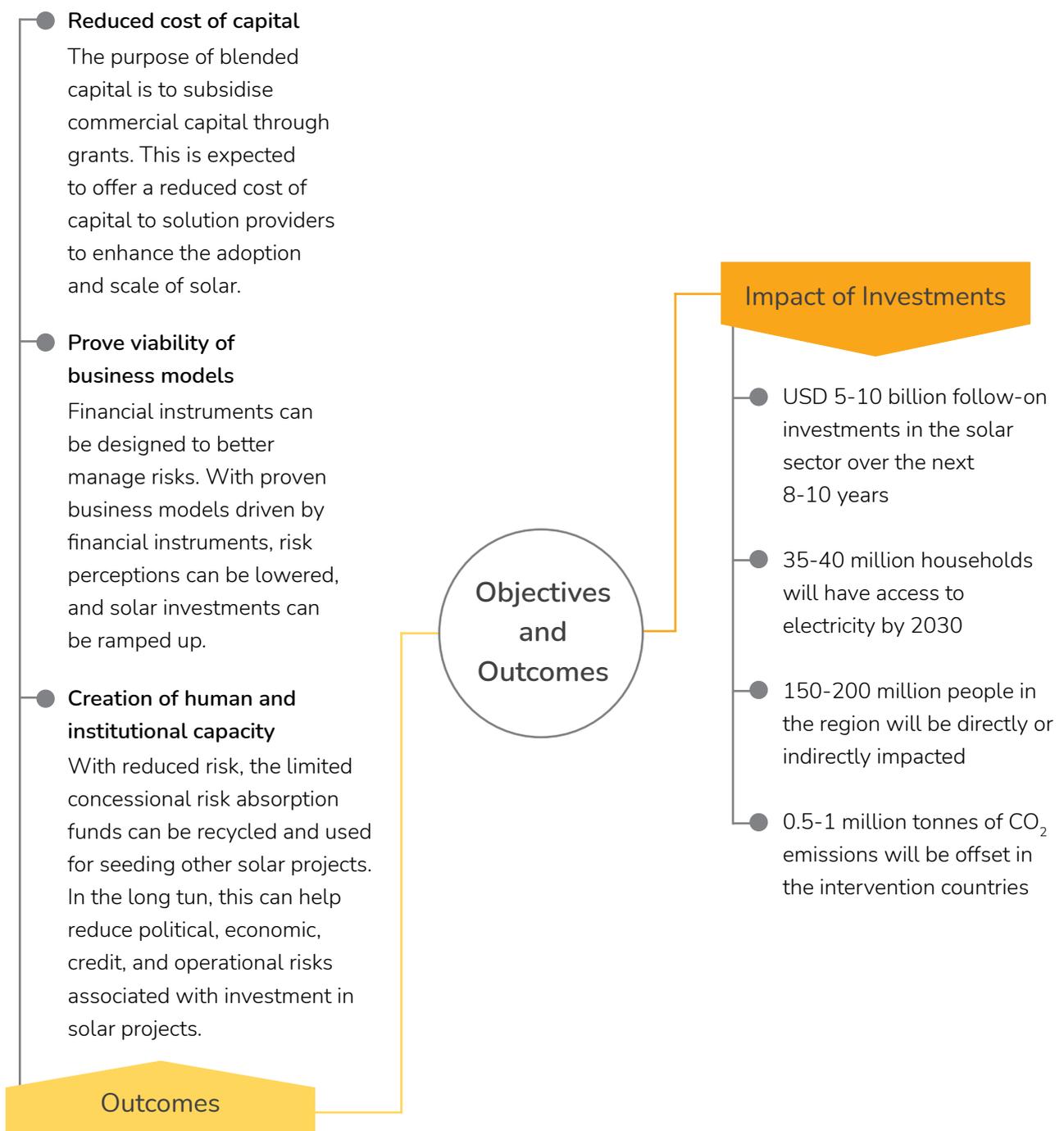
- In May 2021, the ISA, India's MNRE and the World Bank organised a two-day inception workshop on OSOWOG attended by more than 160 experts.
- An inception report is under preparation along with Global Vision and Macro Roadmap.
- Extensive stakeholder consultations are underway.
- Potential pilots identification has been initiated.



BLENDED FINANCE

The ISA has proposed the setting up of a blended finance facility to mitigate risks and support solar enterprises across the globe. The facility will aim to incentivise lenders by minimising their investment risks, providing concessional loans, providing risk capital, and providing non-fund-based support to borrowers, lenders, and ecosystem actors.

ISA will first implement the facility for Africa and then use the experience to drive similar interventions across the globe. Deploying capital through the blended facility will involve a four-step process: Country selection, identification of segments within solar power, design of the facility and its offerings, and raising and deployment of capital through this facility.



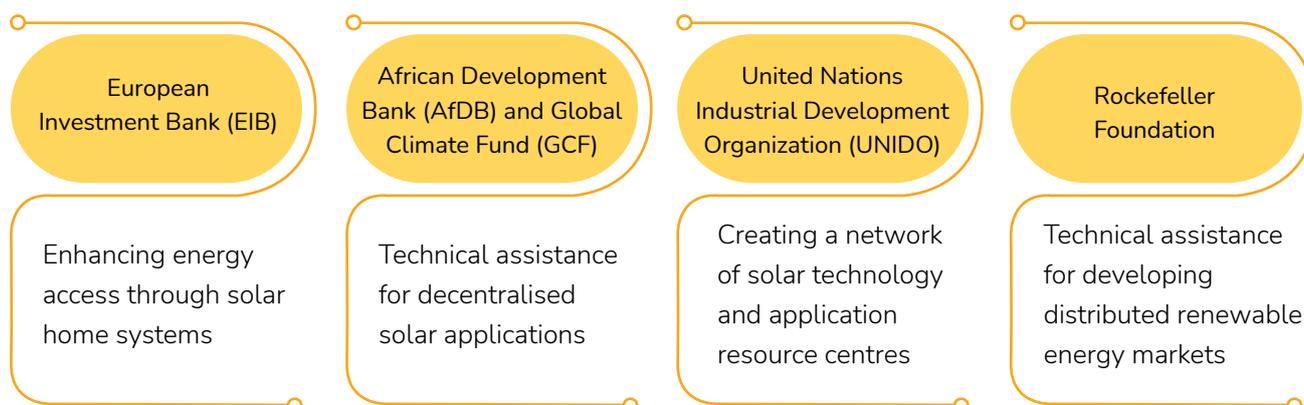
FORGING AND STRENGTHENING PARTNERSHIPS

Over the years, the ISA has formed partnerships with international organisations, United Nation agencies, multilateral development banks, and development financial institutions.

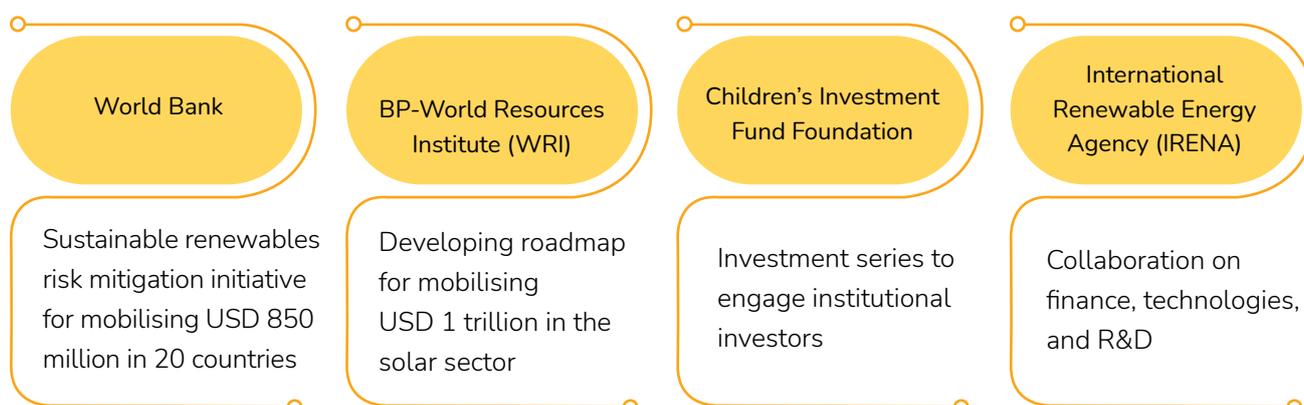
In addition to complementing the strengths of existing international organisations, the ISA aims to leverage these strategic partnerships to create a multiplier impact. The parties can jointly develop various programmes and initiatives and undertake fund-raising activities. The partnerships can also leverage synergies with other organisations for delivering technical assistance services.

Each partnership is dedicated to achieving a specific objective. These partnerships can be categorised into a set of four activities namely, readiness and enabling activities, risk mitigation and innovative financing instruments, investment mobilisation, and promotion of technologies.

Readiness and enabling activities



Risk mitigation and innovative financing instruments



Investment mobilisation

Global Green Growth Initiative (GGGI)

Joint fund raising for the deployment of 1 million solar irrigation systems

United Nations Development Programme (UNDP)

Demonstration project on solar water pumps

Joint United Nations Programme on HIV

Joint fund raising for solarising health centres

Climate Investment Funds (CIF) and Bloomberg New Energy Finance (BNEF)

To collaborate on a global solar investment report

Promotion of technologies

World Bank Lighthouse

For the transfer of best practices and innovative business models

United Nations Environment Programme (UNEP)

To conduct a solar waste recycling study

SAARC Development Fund (SDF) and Asian Development Bank (ADB)

To provide programmatic support for solar applications

European Union

Development of knowledge products



ENGAGEMENTS IN INTERNATIONAL FORA

INDIA-ISA ENERGY TRANSITION DIALOGUE

The 'India-ISA Energy Transition Dialogue 2021' was organised by the ISA and the Union Ministry of New and Renewable Energy (MNRE), India on August 24, 2021. The key objective of the event was to facilitate informed policy interventions and decision making for the energy transition world over by discussing success stories from India through an interactive and structured dialogue.



Further, it aimed to position the One Sun One World One Grid initiative as a key accelerator for the energy transition and to enable member countries to relook at their national strategies for energy transition and to augment and strengthen the efforts being made towards high-level dialogues like UN-High Level Dialogue on Energy Transition and COP-26. This dialogue also brought focus on challenges that developing nations are facing in the path to the transition from fossil fuels to renewables.

The opening remarks were given by Mr Indu Shekhar Chaturvedi, Secretary, MNRE and the context setting was done by Dr Ajay Mathur, Director General, ISA. India's Union Minister of Power and New & Renewable Energy, and the President of ISA Assembly, Mr Raj Kumar Singh gave the keynote address in the inaugural session.

The event featured two panel discussions and a presentation by the MNRE on Citizen Centric Energy Transition- India Story which highlighted India's energy transition journey. The theme of the first panel discussion "Addressing grid integration issues to facilitate high renewable energy transition", was moderated by Ms Gauri Singh, Deputy Director General, International Renewable Energy Agency (IRENA). The theme of the second panel discussion "Frameworks for accelerating RE" was moderated by Dr Amit Jain, Senior Energy Specialist, The World Bank Group.



Keynote address by Mr Raj Kumar Singh

The event was attended by representatives of ISA member countries, senior government officials, industry partners, academicians, innovators, researchers and various financial institutions from across the world.

GLOBAL ENGAGEMENTS

The ISA aims to improve access to solar power in its member countries across the globe. As a global organisation working towards acceleration of solar power uptake, the ISA indulges in dialogue with a host of other international organisations working in the clean energy space.

Collaboration and knowledge sharing are key aspects of the ISA's objective to further its agenda of global solarisation. ISA, thus, engages with a range of diverse stakeholders at various global conferences and fora for delivering impact on the ground.

Key highlights of ISA's global engagements



November 2020

Mr Raj Kumar Singh, President of ISA Assembly at the 3rd Global RE-INVEST organised by Ministry of New and Renewable Energy, India



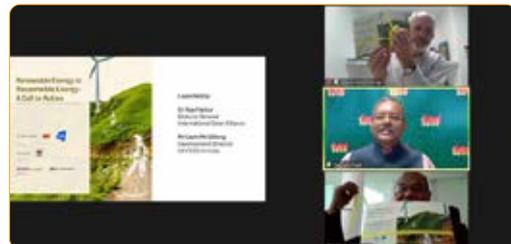
March 2021

Indian Foreign Service Officer Trainees (2020 Batch) and Bhutanese Diplomats visit the headquarters of ISA



March 2021

In a panel discussion on "the road to an African European Partnership" at Berlin Energy Transition Dialogue 2021



March 2021

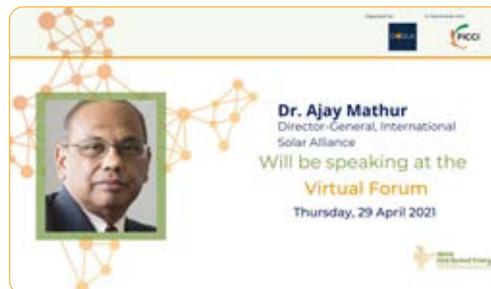
At the launch of the report on "Renewable Energy to Responsible Energy: A Call to Action"

“ The ISA aims to improve access to solar power in its member countries across the globe.



March 2021

Interaction with Mr Francesco La Camera, Director-General and Ms Gauri Singh, Deputy Director General, IRENA



April 2021

Address at the Indian Distributed Energy Forum 2021



April 2021

Address at Raisina Dialogue 2021



April 2021

Webinar on “Women in Renewable Energy and Sustainability” organised with Indian Ministry of New and Renewable Energy



June 2021

Keynote address at the Inaugural Session of World Sustainability Summit 2021



June 2021

Final report release on a joint ISA-European Investment Bank (EIB) study



June 2021

Address at a special event, “Accelerating Citizen-Centric Energy Transition”, organised by the MNRE and the Permanent Mission of India to the United Nations



June 2021

At Latin America Energy Forum

International Solar Alliance: Solar energy for all

Every home no matter how far away, will have a light at home



The world is changing rapidly facing the COVID-19 pandemic and a global economic slowdown. The time is right to build back better to invest in clean, renewable energy technologies for equitable and sustainable development. Solar energy can rapidly provide low-cost energy access by 2030, build resilience and prosperity in economies, and transform the energy ecosystem.

June 2021

Digital Stand in the European Development Days Event



July 2021

Address at the virtual conference organised by the Global Solar Council



July 2021

At Vienna Energy Forum’s Roundtable on Green Grids



July 2021

Diplomats from Islamic Republic of Afghanistan at the ISA Secretariat



September 2021

Meeting with Executive Director of IEA, Mr Fateh Birol to expand the co-operation between ISA and IEA

In addition to the above, ISA also participated in the BRICS Energy Ministerial recently where it showcased its aggregation model. Further, it invited BRICS nations to join ISA and share their solar implementation experiences, finance and technology with other developing members of the ISA.

ADDITIONAL ENGAGEMENTS

Over the past few months, Dr Ajay Mathur, Director General of ISA met with several top officials from present or prospective member countries of ISA to discuss critical matters related to global solar power deployment.



May 2021

Interaction with delegation from Venezuela, led by Ms Tania Masea, Vice Minister for New Sources and Rational Use of Electric Energy, Ministry of the People's Power for Electric Energy



June 2021

Meeting with Mr Oscar Martinez Cordoves, Ambassador of Cuba in India at the ISA Branch Secretariat



July 2021

Meeting with Mr Klas Molin, Sweden's Ambassador to India, Bhutan, Maldives, Nepal and Sri Lanka, in New Delhi



August 2021

Interaction with Mr Jone Usamate, Minister of Infrastructure and Meteorological services, Republic of Fiji



September 2021

In conversation with Ms Barbara Pompili, Minister of the Ecological Transition, Government of France and Co-President of the ISA Assembly, in Paris



September 2021

Meeting with Mrs Yasiel Alines Burillo Rivera, Ambassador of Panama to India in New Delhi

ISA SOLAR AWARDS

ISA Solar Awards have been institutionalised to recognise the achievements and contributions of scientists, researchers, developers, and institutions for their exemplary work in the field of solar energy and to provide a platform for the incubation of emerging innovations in solar technology.

The applications were evaluated by a screening committee followed by an International Awards Committee, comprising high-level dignitaries and leaders from the renewable energy sector led by Ms Rachel Kyte CMG, Dean, The Fletcher School, Tufts University. The ISA Solar Awards 2020 were presented to the winners at the ISA Host Country Awards Day Event which took place on October 16, 2020.

AWARD CATEGORIES AND WINNERS

ISA - Haryana Kalpana Chawla Solar Award

The Government of Haryana, India has institutionalised this award to reward the best scientist, engineer or technologist who is actively involved in innovation, R&D, development, and deployment of path-breaking technologies in the field of solar energy. The prize money for this award is INR 2,425,500 each.

Winners



Dr Aesha Alnuaimi

Director-Solar Innovation Centre, Dubai Electricity and Water Authority



Dr Bhim Singh

Central Electricity Authority Chair Professor, Department of Electrical Engineering, Indian Institute of Technology – Delhi

ISA Karnataka Visvesvaraya Solar Award

The Government of Karnataka, India has set up the award to recognise one country from each of the four regions of the ISA member countries, with the maximum installed capacity of floating solar energy. The prize money for this award is INR 900,000 for each country.

Winners



Japan



Netherlands

ISA Diwakar Solar Award

This award has been established with the gracious support of Mr Piyush Goyal, Minister of Commerce and Industry; Consumer Affairs, Food and Public Distribution; and Textiles, Government of India. This award is for organisations that look after children with special needs and promote solar projects. The prize money for this award is INR 50,000 each.

Winners



Arpan Institute, Haryana



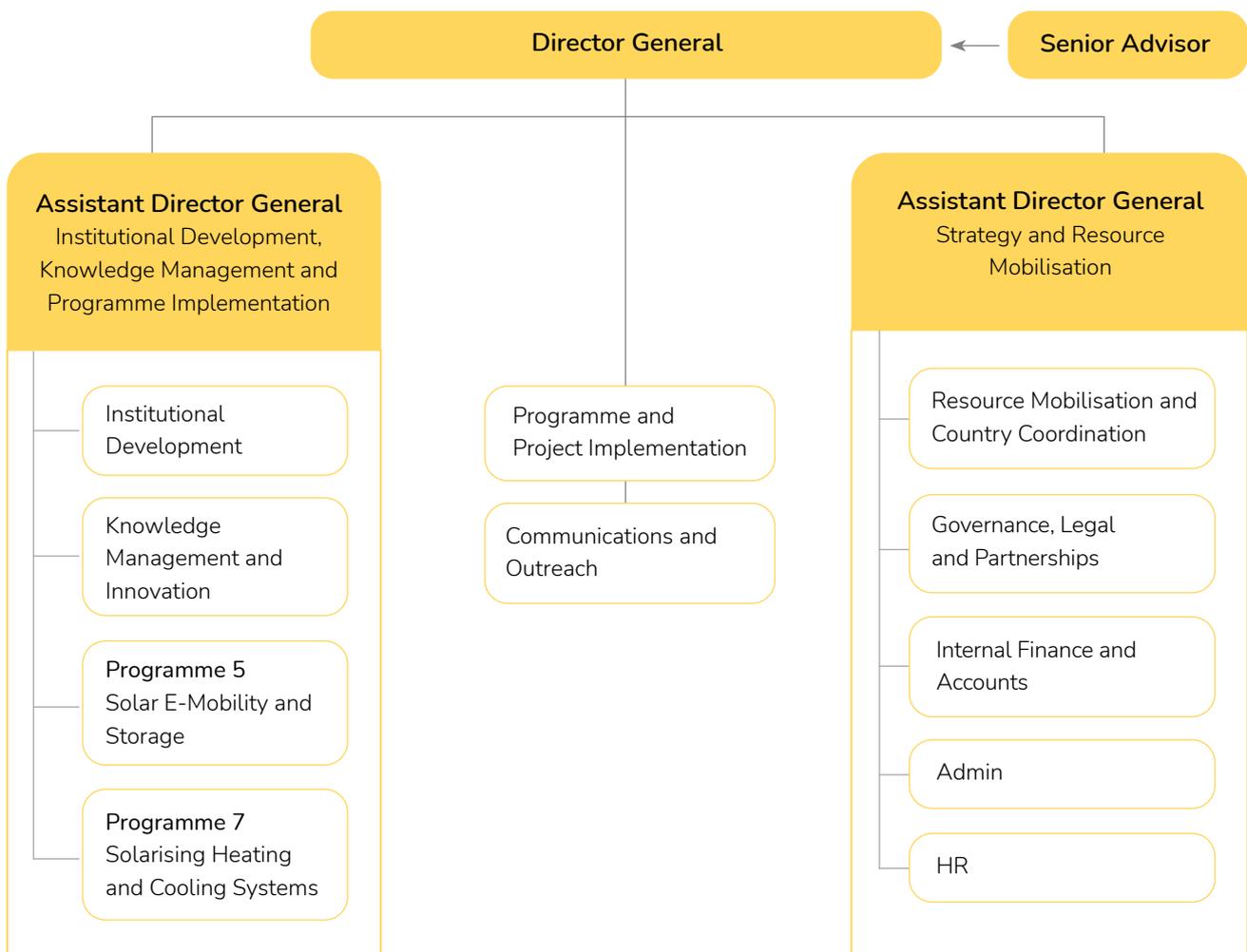
Arushi Society, Madhya Pradesh

MAXIMISING ORGANISATIONAL EFFECTIVENESS

The ISA is currently expanding their team so as to carry out the various critical day-to-day activities of the organisation and further the agenda of global solarisation in a more efficient and effective manner. The aim is to create a professional and capable Secretariat to support the ISA and its initiatives.

The ISA Secretariat is headed by the Director General, who is given counsel by the Senior Advisor. Under the Director General are Assistant Director Generals for two teams: Institutional Development, Knowledge Management and Programme Implementation, and Strategy and Resource Mobilisation.

Transitional Organisational Structure



The ISA Secretariat is currently recruiting for a host of roles and positions including specialists in different geographical regions as well as across its diverse verticals like capacity development, regulations, resource mobilisation, finance, IT, legal, admin, human resources, communications and others. Associate and Assistant Level staff is also being recruited across various segments.

ISA'S DIGITAL FOOTPRINT

In today's day and age, a strong digital media presence is essential to strengthen an organisation's outreach. ISA has been making significant efforts to share its vision, focus areas, initiatives and the massive work done by the organisation through various leading print and digital media platforms. Dr Ajay Mathur, Director General, ISA has been invited by various leading publications in recent months to share the organisation's perspective and plans.

Snapshots of Recent Interviews



Interview with Renewable Watch



Interview with REGlobal



Interview with Lights On



Interview with Energy Tracker Asia

Along with an impressive digital media presence, social media platforms such as Twitter and Facebook can enable greater and swifter exchange of information using a two-way dialogue with the target population. Consistency in digital engagement can also help generate greater awareness among internet users across the world, in a time efficient manner.

An analysis of ISA's digital media presence between September 2020 and September 2021 shows encouraging progress in ISA's digital engagement and responses. Over the span of one year, ISA has witnessed tremendous growth in its presence across various digital media platforms such as Facebook, LinkedIn, Instagram and Twitter.

Key highlights

- As of September 2021, ISA has over 12,000 followers on Twitter, 6,300 fans on Facebook, 5,400 followers on LinkedIn and roughly 500 followers on Instagram.
- Twitter captured over 13,000 engagements, followed by 5,200 on LinkedIn, 4,300 on Facebook and roughly 2,000 on Instagram.
- Over this one-year period, more than 1,621 posts were shared cumulatively across all four digital platforms.

ISA's social media outreach in numbers



“ Over the span of one year, ISA has witnessed tremendous growth in its presence across various digital media platforms such as Facebook, LinkedIn, Instagram and Twitter.

ISA'S PARTICIPATION IN COP26

The United Nations Climate Change Conference, known as the Conference of Parties (COP)26 UN Climate Change Conference, hosted by the UK in partnership with Italy, will take place from October 31 to November 12, 2021 in the Scottish Event Campus (SEC) in Glasgow, UK. The COP26 summit will bring parties together to accelerate action towards the goals of the Paris Agreement and the UN Framework Convention on Climate Change. This includes securing global net-zero by mid-century and keeping the limit of 1.5°C temperature increase within reach. A key part of climate action is facilitation of clean energy including solar power to achieve these goals.

The ISA is an observer to the United Nations Framework Convention on Climate Change (UNFCCC) and has been an active participant at previous COPs. To continue with its efforts at global outreach, the ISA Secretariat plans to participate in the forthcoming COP26. The President of COP26 committed support of the UK government to the ISA for active participation of ISA at COP26. Further, the United Kingdom has signed a Statement of Intent (SoI) for Cooperation with the ISA, under which, the ISA and the UK have agreed to further their cooperation through multiple ISA events at COP26. In line with this, the President of the ISA Assembly and the President of COP26 have held a series of bilateral meeting since the Third Assembly of the ISA to strengthen ISA's role in COP26.

The ISA Secretariat has held several rounds of meetings with the UK team to identify potential collaborations between ISA and UK, in particular ISA activities at COP26. Based on the discussions, the ISA Secretariat plans to hold events related to the following key thematic areas:

- One Sun One World One Grid
- Sustainable Risk Mitigation Initiative
- Roadmap for mobilisation of USD 1 trillion in solar investments by 2030
- Blended Financing Risk Mitigation Facility
- STARC initiative

Similar to COP21, where ISA was established, COP26 is envisaged to be a pivotal moment in the growth of solar power with the launch of the Green Grids Initiative-OSOWOG Initiative and the Blended Finance Risk Mitigation initiative.



FINANCIAL STATEMENTS

To effectively address the key strategic priorities of the ISA for the CY2022 workplan, the ISA Secretariat proposes a budget of USD 29.4 million for the biennium, i.e. CY2022 and CY2023. This includes a proposed budget of USD 11.8 million for CY 2022 and a prospective budget USD 17.6 million for CY2023. It is noted that ISA has a 62.4% projected utilisation of the CY2021 budget and unutilised funds from CY2021 have been carried forward to CY2022. The proposed budget for CY2022 is ~31% higher as compared to the approved budget for CY2021. The increase in CY2022 budget is a reflection of the ambitious work plan in strengthening the implementation of ongoing programmes, projects and activities of the ISA and the potential launch of the two new programmes.

However, it is underlined that if no new contributions are received from member countries, public and private entities, and interest rate environment remains low, the investment income on the Corpus Fund and funds available in the General Fund would not be sufficient to meet the prospective budget estimates for CY2023.

Thematic Areas	2022		2023	
	Proposed budget (USD)	Fund availability	Prospective budget (USD)	Fund availability
ISA Programme for Affordable Finance at Scale	545,015	Yes	11,64,079	No
ISA Programme for Scaling Solar Applications for Agriculture Use	270,412	Yes	5,77,564	No
ISA Programme for Scaling Solar Mini Grids	287,207	Yes	6,13,437	No
ISA Programme for Scaling Solar Rooftop	343,150	Yes	7,32,924	No
ISA Programme for Scaling E-Mobility and Storage	258,513	Yes	5,52,149	No
ISA Programme for Solar Parks	369,160	Yes	7,88,477	No
ISA Programme for Solarising Heating and Cooling Systems	369,160	Yes	7,88,477	No
Funding for viability gap and for demonstration Projects in ISA member countries	940,000	Yes	1,000,000	No
ISA Programme on Solar and Battery Waste Management	500,000	Yes	500,000	No
ISA Programme on Solar for Green Hydrogen	500,000	Yes	500,000	No
Subtotal (A) - Programme Cost	4,382,617	Yes	7,217,107	No
Capacity Building, including STAR-C initiative	1,346,327	Yes	2,681,441	No
Communication, Knowledge Management and Outreach	235,656	Yes	667,738	No
Strategic Engagement and Partnerships	435,399	Yes	1,233,715	No
Secretariat support to GGI-OSOWOG initiative	400,000	Yes	600,000	No
Subtotal (B) – Capacity building Communications, Outreach, and Strategic Engagement & Partnerships	2,417,383	Yes	5,182,893	No
Personnel and operating Cost	5,000,000	Yes	5,200,000	Partial (only USD 1.97 million available in 2023)*
Subtotal (C) – Management Support Cost	5,000,000	Yes	5,200,000	Partial*
Total [(A) + (B) + (C)]	11,800,000	Yes	17,600,000	(USD 15.6 million deficit) Insufficient Funds**

*USD 1.97 million available in CY2023, which could only partially cover the Management Support Cost

** There is a deficit of USD 15.6 million of core funds to meet the prospective budget for CY2023.

THE WAY FORWARD

The challenges of unequal access to reliable, secure sources of energy and electricity have inhibited holistic economic development and social justice for regions across the world. Additionally, a parallel threat of climate change is also looming with climate events growing both in severity and impact. Solar energy offers a viable solution to help countries address such challenges with significant technological advances the sector has been achieving over the past decades.

The ISA is uniquely positioned to unlock high impact potential of the global solar energy sector, scaling and accelerating solar technology penetration in countries around the world while simultaneously addressing sustainability goals and meeting energy needs. ISA is committed to establishing solar as a shared solution that simultaneously addresses climate, energy, and economic priorities across geographies on global, national and local levels. These efforts are consolidated under the ISA's Mission to Solarise the World by 2030, with its efforts guided by the following key objectives:

- Enabling energy transition of 1,000 GW of solar capacity
- Reducing 1,000 metric tonnes of carbon emissions
- Ensuring 1,000 million people access electricity using clean energy solutions
- Mobilising USD 1,000 billion in solar investments

ISA has established a partnership-focused approach that places nations' priorities at the forefront, while bringing together stakeholders and advancing past efforts in solar deployment. The approach emphasises three priority areas that will help make solar the preferred solution for stakeholders and nations alike:

- **People** - reflects the ISA's efforts towards capacity building
- **Policy** - demonstrates the ISA's alignment of political commitments from the senior-most leaders and decision makers in the government
- **Process** - details the activities the ISA undertakes to scale up solar energy projects

Through collaborations, ISA will help deliver local benefit to all countries with its key interventions focusing on:

- **Readiness** and enabling activities
- **Risk mitigation** and innovative financing instruments
- Facilitating the promotion and **deployment of technologies** in respective target markets

The ISA intends for all its efforts to culminate in development of a skilled workforce, reduced cost of finance and technologies, solarisation of energy ecosystem, and creation and expansion of solar markets. Having laid the groundwork with multi-nation support and multi-stakeholder partnerships, ISA is now implementing and ready to further scale its framework, increasing the robustness of its pipeline and impact of its interventions.

The ISA is committed to working towards achieving its target of solarising the world by 2030.

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