



World Environment Week

Geneva, Oct 2022

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International Solar Alliance

Catalysing Global Solar Growth

World Environment Week

17th- 20th October 2022.



Agenda

1.About ISA

1a. Programmatic Support

1b. Resource Mobilization

1c. Capacity Building

2. Impact with Synergy and Trade

1. About ISA

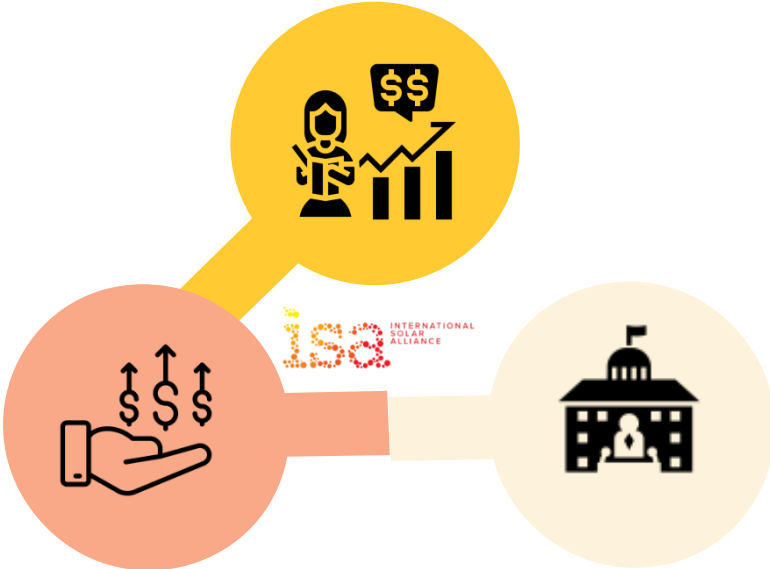
- The vision for the **International Solar Alliance (ISA)** was put forth by the Hon'ble Prime Minister of India Shri Narendra Modi, **at the United Nations COP 21 in Paris in October 2015.**
- ISA was co-founded by the French President- President Macron and the Hon'ble Prime Minister of India Shri Narendra Modi.



Who are we



- Inter-governmental treaty-based international organization.
- United Nations Observer Status.
- Global mandate to catalyse global solar growth by helping to reduce the cost of financing and technology for solar
- **110** Signatories including 90 Member Countries
- Universal and Affordable last-mile electricity connectivity towards facilitating economic development and environmental impact
- Recently concluded ISA's 5th general assembly, yesterday on 18th October 2022



GOVERNANCE STRUCTURE

ISA Assembly

India  **President**

France  **Co-President**

8 Vice Presidents representing 4 regions

Asia & Pacific Region



Fiji



Nauru

Africa Region



Mauritius



Niger

Latin America & the Caribbean Region



Cuba



Guyana

Europe & Other regions



United Kingdom



Netherlands

ISA Committees

5 Committees (Standing Committee and 4 Regional Committees)

To provide strategic advice and guidance on functioning of the ISA and support in facilitating 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 capacity building for Solar applications

Current Membership Status

193

Prospective Member Countries

110

No. of countries signed ISA framework agreement

ISA's mandate

Mobilize USD 1000 billion in solar investments till 2030

- a) Enable 1000 GW of new capacity
- b) Helping 1000 million people with enhanced access to electricity and consequently reducing 1000 million tons of carbon emissions.

Policy

Political Commitments

Analytics & Advocacy

Partnership Frameworks

Robust, bankable solar project pipelines

People

Training & Job Creation

Institutional capacity-building

Knowledge dissemination

Process

Needs & Viability Assessment

Business Model Innovation, Testing
& Scale-Up Strategy

Market Creation

Risk Mitigation



Country contributions



Philanthropic capital



Membership fee

1a. Programmatic Support

Facilitate the attainment of SDG 7 (universal energy access), SDG 13 (combating climate change) and SDG 8 (Decent Work & Economic Growth) goals through the following programmes:



**Scaling Solar
Applications for
Agriculture Use**



**Affordable Financing
at Scale**



**Scaling Solar
Mini-Grids**



**Scaling Solar
Rooftop**



**Scaling Solar E-
Mobility
and Storage**



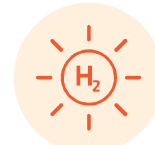
Solar Parks



**Solarizing
Heating and
Cooling Systems**



**Solar PV and
Battery Waste
Management**



**Solar for
Green
Hydrogen**

Implementation of Pilot Projects in LDC & SIDS

- Countries join one or more of ISA's Programmes by indicating interest through an Expression of Interest (Eoi).
- ISA Secretariat support the countries to prepare a Road map for scaling of solar applications.
- Prepare Guidelines based on the best practices for the benefit of the Countries.
- Support the countries to identify the projects and carry out pre-feasibility studies.
- Support Pilot Project implementation in LDCs & SIDs
- Help the countries to create pipeline of Solar Projects and attract the investments

Aggregated Projects Concept Proposals (9.5 GW+) Received from Member Countries



Demonstration projects in the pipeline in 27 LDC & SIDS Member Countries



[Map not to scale]

1b. Resource Mobilization for solar

Contributions from Member countries for core funding

Sl. No.	Name of the Country	Amount
1.	Republic of India	USD 40 million (approx.) pledged as core funding
2.	Republic of France	USD 1.08 million for the STAR-C initiative
3.	United Kingdom	GBP about 1 million for GGI-OSOWOG initiative implementation
4.	United States of America	USD 0.9 million for programmatic support to member countries
5.	Sweden	USD 50K for capacity building
6.	Japan	USD 36K programmatic support for mini grid projects
7.	Australia	AUD 92,000 for capacity building
8.	European Commission	EUR 1 million (in-kind)
Total		USD 44 million (approx.)

Additionally, the Secretariat has also received positive signals and in-kind contributions from the following countries regarding their intention to strengthen the ISA Secretariat for implementation of priorities identified in the Strategic Plan:

- ❖ Kingdom of Denmark
- ❖ Republic of France
- ❖ Germany
- ❖ Kingdom of the Netherlands

1b. Resource mobilization for solar

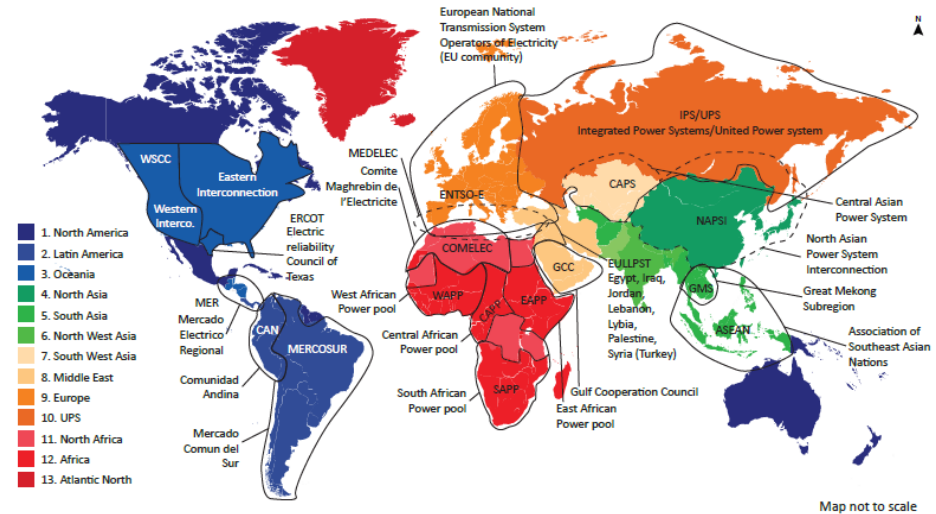
Sl. No.	Name of the Organisation	Amount
1.	Global Energy Alliance for People and Planet with contributions from Rockefeller Foundation; Bezos Earth Fund; and IKEA Foundation (for strategic priorities of ISA including programmatic support, capacity building and analytics and advocacy)	Part A: USD 10 million (Including OD Grant – 1.5 million) Part B: USD 15 million
2.	Children’s Investment Fund Foundation (CIFF) (for strategic priorities of ISA including programmatic support, capacity building and analytics and advocacy)	Grant III - USD 8 million (including OD Grant - USD 0.4 million)
3.	Bloomberg Philanthropies (for strategic priorities of ISA including programmatic support, capacity building and analytics and advocacy)	USD 6 million
4.	Sequoia Climate Fund (implementation of strategic plan)	USD 0.5 million
5.	The John D. and Catherine T. MacArthur Foundation	USD 0.4 million
Total		USD 40 million (approx.)

Additionally, in-kind contributions have also been received from the following organisations for implementation of various projects and activities in ISA member countries over the years:

- ❖ European Commission
- ❖ World Bank
- ❖ Asian Development Bank
- ❖ United Nations Development Programme
- ❖ United Nations Environment Programme
- ❖ Shakti Sustainable Energy Foundation

Global initiative: One Sun, One World, One Grid

- The OSOWOG initiative will **aim to connect different regional grids through a common grid** that will be used to transfer renewable energy power and, thus, **realize the potential** of renewable energy sources.
- The initiative, through the developed **interconnected regional grids**, would also help in **addressing the risk associated with intermittency of sources** by allowing **flow of power** from a region with excess generation to a region with increased demand.



1c. Capacity Building

 Readiness and Enabling Activities	 Risk Mitigation & Innovative Financing Instruments	 Investment Mobilization	 Promotion of Technologies
 EIB Enhancing energy access through Solar Home Systems	 World Bank Sustainable Renewables Risk Mitigation Initiative for mobilizing USD 850 million in 20 countries	 GGGI Joint fund raising for deployment of 1 Million Solar Irrigation Systems	 WB Lighthouse Transfer of best practices and innovative business models
 AfDB and GCF Technical Assistance for Decentralized Solar Applications	 BP-WRI Developing roadmap for mobilizing USD 1 trillion in solar sector	 IBSA and UNDP Solar Water Pumps in 10 countries with IBSA fund	 UNEP Solar Waste Recycling Study
 UNIDO Creating a network of Solar Technology and Application Resource Centres	 CIFF Investment Series to engage Institutional Investors	 UNAIDS Joint Fund Raising for Solarizing Health Centres	 SDF and ADB Programmatic Support for solar applications
 Rockefeller Technical Assistance for developing DRE markets	 IRENA Collaboration on finance, technologies and R&D	 CIF and BNEF Global Solar Investment Report	 European Union Development of knowledge products
 WAPP Scaling Up Utility-Scale Solar Projects			 Olade Facilitate development and implementation of policies and regulations

ISA's Capacity Building Initiatives For Various Stakeholders



Training of
Master Trainers
215



Bankers
Training
1226



Technical -
Solar Rooftop
161



Technical -
Solar Mini-
grids
252



Technical -
Solar Parks
461



Technical – Solar
Water Pumping System
293

2. ISA's Impact and Synergy with Trade

Solar Facility (The Blended Finance Risk Mitigation Facility Program)

Star Centres

Global Supply Chain and Manufacturing Support Program

Investments for Solar Affordability

2a. Solar facility

The **Solar facility** aims to catalyze solar investments in the underserved segments and geographies of Africa, thereby unlocking commercial capital.

The facility would focus on investing across solar technologies – off-grid solar, rooftop solar, productive use solar, utility scale solar – across Africa through a country specific intervention approach

The Solar Facility would comprise of 2 funds and one mini-sub component:



Solar Payment Guarantee Fund

The **Solar Payment Guarantee Fund** will support projects at the time of default and reduce risk of early closures/bankruptcy of solar energy projects



The **Solar Investment fund** would provide the core investment upto 10% of project costs in projects that are participating in the Solar payment guarantee fund and/or solar insurance fund



Solar Insurance Fund

The **Solar Insurance fund** would accelerate solar project development in Africa via offsetting insurance premium related expenses (during construction and pre-revenue stages)

2b. Mobilizing private and donor monies



Provides TA assistance (About 10M+)

Provides a bankable project pipeline

Comes in as an investor



Possible GCF International accredited entities

Purpose

Financial- Create a financially conducive environment for investors to invest in
Technical- Create a bankable pipeline of investible projects

Macro- Create a natural environment to mobilize investments in solar

Procure a credible private sector fund manager

2c. Star Centres and SolarX

NEED

More than 700 Million people without access to electricity.

The import cost of energy is a big burden for majority of the ISA member countries.

High coal and fossil gas prices profoundly making solar energy more attractive.

Lack of country capacity poses huge risk to investments.

OPPORTUNITIES

High coal and fossil gas prices profoundly makes solar energy more attractive.

More and more under-developed and developing countries are seeing solar as one of the major energy sources.

Transition towards solar energy is a powerful engine for growth, trade, creating jobs and contributing to climate action.

GAPS

Private capital does not yet see the right balance of risk and reward in clean energy projects in Africa.

Quality infrastructure and standards for solar products and services often missing.

Technical capacities and skills are inadequate.

Low awareness level with insufficient data and knowledge.

Weak government policies and regulations.

STRATEGY

Building the necessary human capacity and skills within member countries for them to undertake energy transitions on their own while also boosting economic growth, trade and job creation.

STAR C

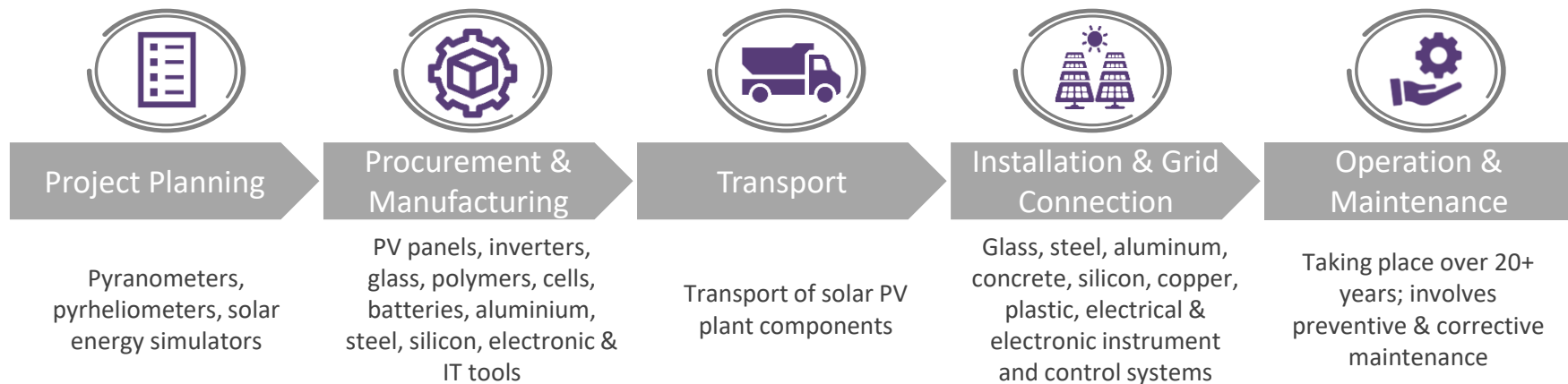
Establishing technical facilities undertaking testing/ standardisation, demonstrate and upscale replicable solar energy applications.

Undertaking training and skills development for better-qualified solar professionals, decision makers, financial institutions etc. supporting accelerated solar deployment.

Creating a global network for exchange of knowledge and expertise.

2d. Supply Chain

Solar PV supply chains have become increasingly globalized with key goods being traded include, machines to manufacture PV wafers, cells, modules and panels, and select PV components, such as generators, inverters, cells



Global Trade in Solar PV

USD 300 billion in 2019
Increase from USD 111 billion in 2005

Global Trade in Machines Manufacturing Solar PV

USD 136 billion in 2019
Increase from USD 52 billion in 2005

Convergence- Areas of synergy

Trade



Evolving Technologies



Enhancing trade among the ISA's member countries

The International Solar Alliance (ISA) looks forward collaborate with WTO's Committee on Trade and Environment (CTE) for accelerating the trade activities in Solar sustainable solutions with a prime focus on sustainability & environment.

Environment



Benchmarking Standards for Quality Infrastructure



Waste & Emission Reduction



Creating a Circular Economy

Our team has significant experience across renewables, multilaterals and organisation building



Dr Ajay Mathur

Director General

Prior Work Experience

- Director General, The Energy and Resources Institute (TERI)
- Director General, Bureau of Energy Efficiency



Mr Joshua Wycliffe

Chief of Operations

Prior Work Experience

- Permanent Secretary, Ministry of Environment, Republic of Fiji



Ms Pragya Gupta

Resource Mobilisation Specialist

Prior Work Experience

- Country programming, Green Climate Fund
- Financial Management Specialist, Asian Development Bank



Onyi Iyizoba

Legal Specialist

Prior Work Experience

- Senior Legal and Regulatory Consultant Nextier Power, The Nextier Group



Mr Philippe Malbranche

Assistant Director General

Prior Work Experience

- Director General, INES (French Solar Energy Research Institute)



Dr Ugochukwu Ugbor

Chief of Unit, Knowledge Management

Prior Work Experience

- Senior Knowledge Specialist, Sustainable Energy for All (SEforALL)



Mr Remesh Kumar

Acting Chief of Unit PPIC

(Secondment from NTPC)

Prior Work Experience

- General Manager: (Project Planning and Monitoring), NTPC



Mr Nikhil Kumar

Senior Consultant, Advocacy

Prior Work Experience

- Associate Vice President, Edelman

Thank You