

Agenda

1. About ISA

1a. Programmatic Support

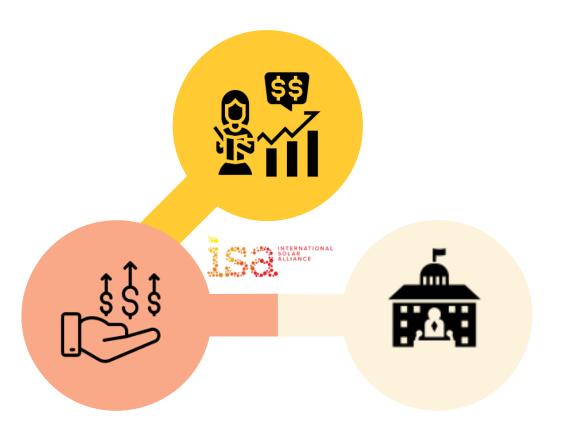
1b. Resource Mobilization

1c. Capacity Building

3. Supply Chains

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

114 Signatories

Universal and Affordable last-mile electricity connectivity towards facilitating economic development and environmental impact

Journey So Far





USD 83M+

Resources mobilized from member countries & global foundations





9.5 GW+

Aggregated
Concept proposals
received from
44 members



2,974

Personnel trained on aspects of solar



27 Demonstration Projects

Demonstration projects in pipeline for 27 LDC & SIDS Member Countries, all DPRs approved. 3 Projects commissioned

ISA Flagship Reports

Solar Technology Report, Solar Market Report & Solar Investment Report, ISA's "Ease of Doing Business" Report

ISA's Mandate

Mobilize USD 1 trillion 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

Process

Needs & Viability Assessment

Business Model Innovation, Testing & Scale-Up Strategy

Market Creation

Risk Mitigation

People

Training & Job Creation
Institutional capacity-building
Knowledge dissemination

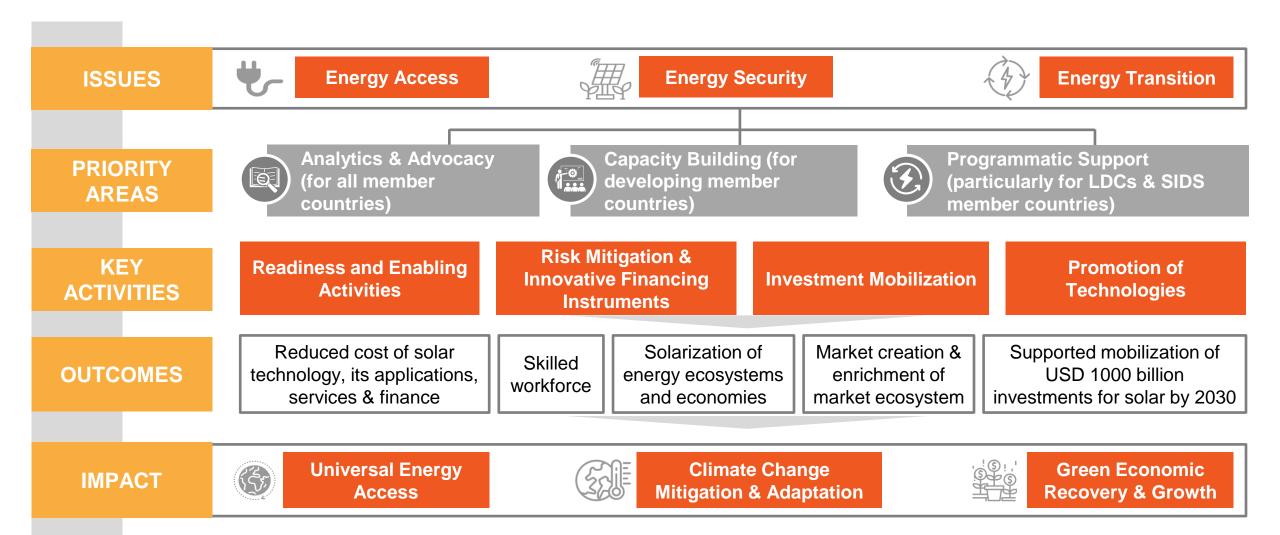
Roadmap to mobilize USD 1 trillion launched







Theory of Change – ISA's Strategic Framework for Global Solarization



ISA's Multi-faceted Support

9 ISA PROGRAMMES



Scaling Solar Application of Agriculture Use



Affordable Finance at Scale



Scaling Solar Mini-Grids



Scaling Solar Rooftop



Scaling Solar E-Mobility & Storage



Solar Park Solar Heating and Cooling Systems



Solar PV Battery and Waste Management



Solar for Green Hydrogen

STRATEGIC PRIORITY AREAS **Advocacy and Analytics Capacity Building Project Implementation Impact Areas:** 3 upcoming Global Analytical Reports: Energy Access | Energy Security | Energy Transition ▶ The World Solar Technology Report ▶ The World Solar Market report ▶ The World Solar Investment Report 8 ISA's Capacity Building Initiatives for Various Stakeholders ISA's Capacity Building Initiatives For Various Stakeholders GOAL 7 Ensure access to affordable, reliable, sustainable and modern energy for all 5 GENDER EQUALITY 0 GOAL 13 Take urgent action to combat climate change Total People Trained (Feb 2023) 2974 Technical -Solar Rooftop Technical - Solar Technical -Solar Mini-grids

Driving Multiplier Effect through Collaboration: 1+1 = 11





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



ADB

Programmatic Support for solar applications



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



WB Lighthouse

Transfer of best practices and innovative business models



Rockefeller

Technical Assistance for developing DRE markets



IRENA

Collaboration on finance, technologies and R&D



Bloomberg NEW ENERGY EINANCE

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 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 facility was approved at ISA's Vth General assembly by Hon Minister, Sh RK Singh in Delhi, India

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



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)



The **Solar Investment /PPF** 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

Business case for a Global Solar Facility



A blended finance entity with expertise

- A specialized facility will become a focal point for mobilizing global solar financing
- Potential to become the leading global organization with knowledge and expertise in the energy source of the world
- Build own track record that can be leveraged for future fund raise

Nimble and market making

- Play a market making role by helping countries build expertise themselves
- Nimble through specialized managers such that decisions are faster
- Independent of political considerations and focused on delivering results for investors
- Ability to work with all types of investors

3a. Structure of the facility- Value proposition/Purpose



Solar Payment Guarantee Fund

Sectors	Solar energy (decentralized)
Geographic Focus	Pan Africa (ISA member states)
Initial Capital Requirement	USD 100 million, from global funds
Expected Impact	With leverage of 5-10x, the facility can enable mobilization of USD 500-1000 million and support 500 MW – 1 GW solar installations
Key Stakeholders	Project developers, off-takers, banks, and institutional investors active in the solar sector in Africa



Solar Insurance fund

Sectors	Solar energy (decentralized)
Geographic Focus	Pan Africa (ISA member states)
Initial Capital Requirement	USD 50 million
Expected Impact	With a leverage of 20x, the facility can support mobilisation of USD 1000 million of debt financing for projects and support 1 GW solar installations
Key Stakeholders	Insurance companies, project developers, banks and institutional investors active in the solar energy sector in Africa

Solar Investment fund



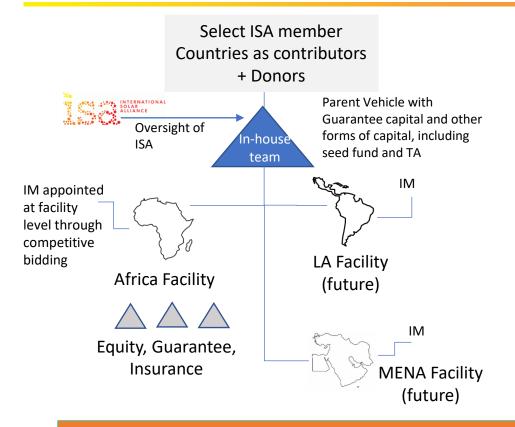
Stimulate demand through TA

Investment facility of 100M

TA facility of 10%- USD 10M

Attract commercial capital providers

Structuring Option: Suggested Option



Description

- A Parent entity with permanent capital which it can keep raising for future facilities as well
- Countries can choose to invest in overall facility or for a specific facility
- This capital is available for Sponsor / Junior Capital and TA support
- Parent entity can be self sustaining by i) charging service fee to the funds; ii) profits on fund investments
- It will develop its own track record over time and have a global knowledge base for future

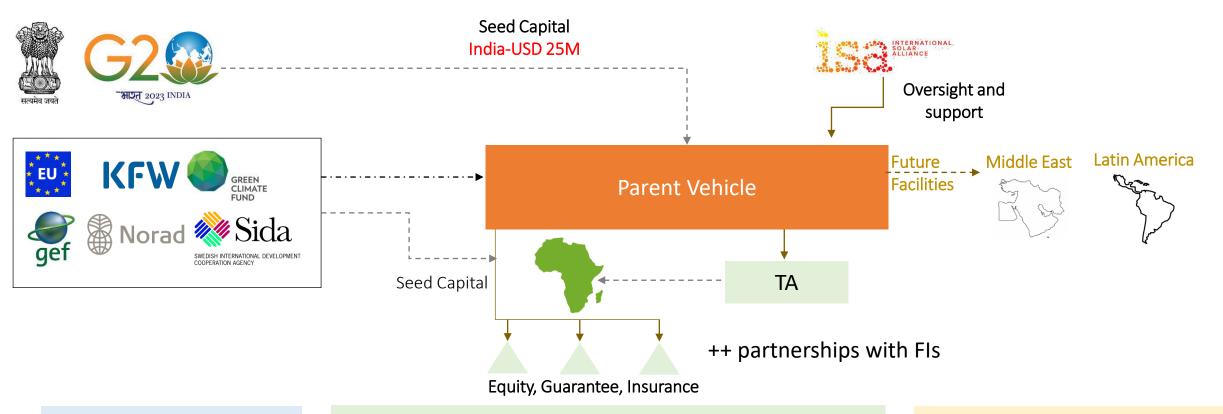
Our analysis

- Creates self sustaining vehicle that will provide platform for future facilities; Can be used for flexible capital
- Good balance of internal capacity building and external expertise
- Will help in proper governance
- Will keep building track record which is important for capital raise in future
- Can work with global FIs on need basis for example for guarantee we can partner with MIGA

A Facility seeded by India



Long-term value creation through self-sustaining ParentCo and establishing track record



Flexibility for Investors: Investors like EU can choose to invest at ParentCo or at the respective Regional Facility level **Professionally Managed:** Each component will be managed by a professional Investment Manager selected through a competitive bidding.

Given the strategic nature of EU participation and for TA and Grant ISA would request EU participation at ParentCo level.

Track Record: This structure will also allow solar facility to become a self-sustaining organization in the future and raise funds from market based on its track record

Locations for the facility





- Easy for Infra sharing with ISA
- Can potentially get tax exemptions?
- Investors not very familiar with GIFT city
- Treaty network of India is decent but not very good
- Not yet seen as hub for global investments



Mauritius

- Very good treaty network across the globe
- Central location
- Well recognized for global hub of investments
- Low cost hub
- Far away from ISA and investors



- Central location in Europe –
 easy to access Africa
- Good treaty network across the world
- Closer to donors and solar professionals
- Seen as a neutral venue
- Cost of operations can be high



- Well recognized as hub for global investments
- Tax jurisdiction is favourable
- Far away from ISA and other investors
- Central location for a global agency

ISA's SolarX Grand Challenge

International Solar Alliance is organizing a Global Startup Challenge to attract entrepreneurs from African region

The first leg was launched in **Africa** on Nov 10, 2022 during COP27



Attract Global Investments in Solar Energy Sector



Catalyze the solar adaption-rate



The Purpose

Motivate innovators and researchers to add value to the solar sector



Promote NFPs to invest more in the startup ecosystem enablement



Make Africa energy independent and reduce dependance on fossil fuel resources



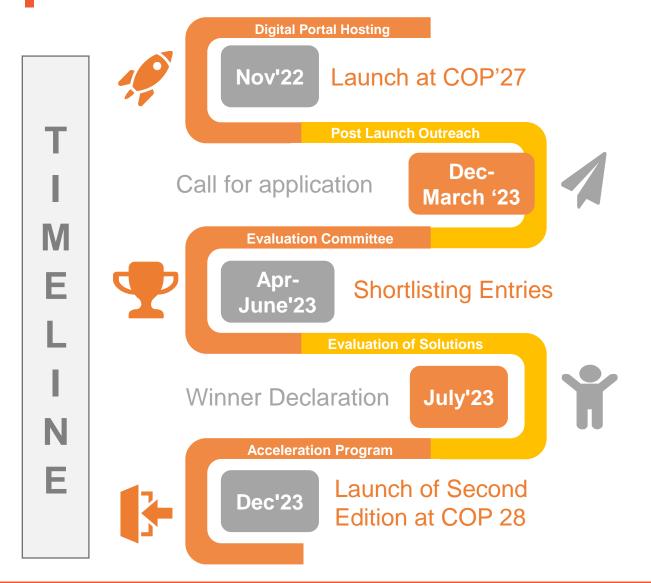
Identify innovations that can offer cost-benefits



Following the approval from the Fifth Assembly, the ISA, in collaboration with Invest India, jointly launched the 'SolarX Grand Challenge' at CoP27 on November 10, 2022.

Structure of SolarX Start-up Challenge

The Process Flow



Parallel Activities



Partner Linkage



Capacity Building



Global Outreach

Incentives to the winners

- 1 Cash incentives for the winners
- 2 Acceleration Program for winning startups



Mentorship Support



Access to African Market



Connection with Investors

Progress- Capacity Building (1/3)

ISA, in collaboration with Invest India, has conducted a series of Capacity-Building workshops in Egypt (Cairo), Kenya (Nairobi), South Africa (Cape Town), and Mauritius in February-March 2023 to support capacity-building efforts for local stakeholders in the African region.

Promoting SolarX challenge and training programs on entrepreneurship and solar energy.

Increased Outreach and Impact resulting in 180+ proposals under the challenge from across Africa and beyond

Bringing together key ecosystem enablers, including incubators, investors, academic institutions, etc. Addressing key issues of the startups journey

Capacity
Building Exercise
for local
stakeholders in
Africa

Expert-led interactive knowledge sessions for African solar ecosystem startup growth. Covering Fundraising basics, local ecosystem overview, branding, identifying USPs, incubators, accelerators, etc.





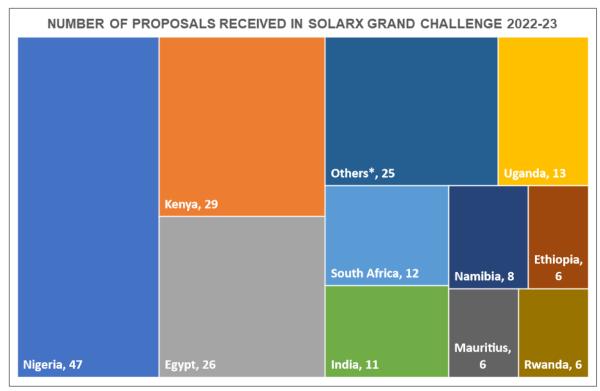




Knowledge-sharing sessions and Capacity Building Workshops held by ISA, in collaboration with Invest India, in Cairo (Egypt), Nairobi (Kenya), South Africa (Capetown), and Mauritius

Progress- Closure of Applications (2/3)

The SolarX Start-up Challenge 2022-23 edition garnered a remarkable response from start-ups from all over the African continent and beyond, with over 180 applications received from 28 countries.



P1 P2 P3 P4 P5 P6 P7 P8 P9 P10

PROPOSALS RECEIVED UNDER THE VARIOUS PROBLEM
STATEMENT CATEGORIES

<u>Note-</u> 92% of the proposals have been received from the African Region, followed by 6% from Asia, and the remaining from Europe and North America.

Note- The problem statements are detailed in the <u>Annexure</u>, as well as the next slide, of this presentation.

^{*}Other countries include (18)- Ghana, Tanzania, Zimbabwe, United Kingdom, Botswana, Burundi, Cameroon, Republic of the Congo, Côte d'Ivoire, France, Israel, Mozambique, Sierra Leone, Somalia, Togolese Republic, Tunisia, United States of America, and Zambia.

Progress- Evaluation and Shortlisting (3/3)

A High-Level Evaluation Committee, chaired by the Director General of ISA, has been constituted for reviewing, evaluating, and selecting the applications under this challenge as per guidelines approved by the Fifth Session of the ISA Assembly.

As of now, the **180+ applications** received under this year's SolarX edition, have been reviewed and evaluated thoroughly by the Evaluation Committee

As a result, **50 applications** have been shortlisted as of May 31, 2023, with 5 applications shortlisted under each of the 10 problem statements.

The **top 20 applicants** would be given technical and financial assistance, with the winners being declared in July 2023 at the G20 Energy Ministers Meeting.



Invest India

ISA

Tech Eval Sub-Committee

Stage 1: Pre-Screening of Applications

Stage 2: Approval of Screened Applications

Stage 3: Scoring by Technical Evaluation Sub-Committee

Application form and Submitted Documents

Tech Eval Sub-Committee

Stage 3: Scoring by Technical Evaluation Committee

Presentation

Pitch Presentation

Next Steps

Evaluation & Selection of the Proposals received

- Evaluation and shortlisting of the applications has been done by the Evaluation Committee – for top 50
- Evaluation and Shortlisting of the top 20 applications is expected to be completed by 30th June 2023

Declaration of the winners

 The winners of this year's SolarX edition will be announced in July, during India's presidency of G20

Financial and Technical assistance through the Acceleration program

- ISA would provide cash prizes for the 20 winners, who would be awarded USD 15,000 each (including for outstation travel if need be).
- All the selected innovators will be assisted through an in-house acceleration programme. The programme shall largely include pillars of Mentorship, Funding, and Market Access. (from July-Oct 2023)

Potentially launch the second edition of SolarX at CoP28

- Based on the learning of the first edition, the ISA Secretariat will present recommendations for future editions of the initiative to the ISA Assembly.
- As per chair's recommendation, launch of 2nd leg of the SolarX Start-up Challenge at CoP28 in Dubai during December 2023.

Our team has significant experience across renewables, multilaterals and organization 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



Ms Nidhi Bakshi

Human Resource Analyst

Prior Work Experience
Project Fin-HR Manager- MEDECINS SANS
FRONTIERES-France



Mr Philippe Malbranche

Assistant Director General

Prior Work Experience

 Director General, INES (French Solar Energy Research Institute)



Mr Remesh Kumar

Acting Chief of Unit PPIC

(Secondment from NTPC)

Prior Work Experience

 General Manager: (Project Planning and Monitoring), NTPC



Onyi Iyizoba

Legal Specialist

Prior Work Experience

 Senior Legal and Regulatory Consultant Nextier Power, The Nextier Group



Mr Nikhil Kumar

Senior Consultant, Communication and Advocacy

Prior Work Experience

Associate Vice President, Edelman

Thank You

Demonstration Solar Projects

❖ Eligible LDCs/ SIDS member countries: 47

❖ Total proposal received from LDCs/ SIDS member countries: 27

❖ Total DPRs finalized: 27

❖ Projects Commissioned: 06

