
Sixth Session of the Assembly of the International Solar Alliance

1 October 2023

31 October 2023

New Delhi, Republic of India

Agenda Item 20

Proposed work programme and budget of the ISA for CY 2024

Summary

This working document presents the update on the work plan and budget for CY 2023 and the proposed work plan and budget for CY 2024.

Proposed work programme and budget of the ISA for CY 2024 and update on the work plan and budget for CY 2023

A. Background:

1. The Fourth Session of the ISA Assembly approved the ISA Five-year Strategic Plan (2021-2026) presented by the ISA Secretariat in the working document ISA/SC.05/WD.04. The Plan provides the strategic roadmap of the ISA to mobilise USD 1 billion in five years to deliver on targets set under the following strategic priorities.
 - 1.1. Analytics and advocacy
 - 1.2. Ecosystem readiness and capacity building
 - 1.3. Programmatic support
 - 1.4. Risk mitigation instruments
2. Following the approved Five-year Strategic Plan, the ISA Secretariat devises yearly work plans and budgets for the consideration and approval of the ISA Assembly.
3. The ISA Secretariat presented the progress on the work plan for CY 2022 in the Fifth Session of the ISA Assembly in October 2022, along with a proposed work plan and budget for CY 2023 in the working document ISA/A.05/WD.18.

B. Update on work plan of CY 2023

1. The update is provided under the six key strategic priorities identified for the work plans of CY 2023.
 - 1.1. **Analytics, Outreach, Advocacy and Strategic Engagement.**

Table 1: Progress update on deliverables under analytics and advocacy

| SI No | Deliverables | Progress update |
|------------------|----------------------------|--|
| Analytics | | |
| 1.1.1. | Ease of Doing Solar (EoDS) | <ol style="list-style-type: none"> a. The Fourth edition of the EoDS 2022 report, which covers and provides solar energy profiles of 107 countries, was launched on 21 July 2023 at the 14th Clean Energy Ministerial (CEM14) in Goa, India. b. In line with the recommendation from the Fifth Session of the ISA Assembly to suggest interventions for Member Countries to improve their standing, the latest EoDS has a section on how Member Countries ranked 'Progressive' and 'Potential' can improve their ranking. The report and the country profiles are available on the ISA website, and work on developing an online data dashboard for this has been initiated. c. As an extension of the EoDS, the second edition of the 'Global Trends in Solar Power - 2023' report, which presents key trends in the global solar market with a focus on the ISA Member Countries, was also released at the 14th Clean Energy Ministerial (CEM14) in Goa and is available on the |

| SI No | Deliverables | Progress update |
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| | | ISA website. |
| 1.1.2. | World Solar Reports on Technology, Markets, and Investments | <ul style="list-style-type: none"> a. The second edition of the reports is under preparation and is to be released during the Sixth Session of the ISA Assembly in October 2023. b. These annual reports provide facts and figures and summarise the main advances and options to be observed globally, using examples and case studies from countries and companies to illustrate the situation. |
| 1.1.3. | Report on Building Resilient Solar Supply Chains | <ul style="list-style-type: none"> a. The ISA engaged with Becquerel Institute to develop the report, which included an in-depth analysis of the global solar supply chain to understand international trends pertaining to end-to-end solar manufacturing. The report was released at a dedicated side event at the 14th Clean Energy Ministerial (CEM14) in Goa, India, on 19 July 2023. b. The research work included engagements with dozens of stakeholders, including regional workshops in Latin America, West Africa, East Africa and Middle East North Africa regions. c. Along with the report, the ISA contributed to three concept papers on solar manufacturing, also released at the CEM14. |
| 1.1.4 | Report on Roadmap of Solar Energy for Universal Energy Access | <ul style="list-style-type: none"> a. The ISA launched the report in G20's 4th Energy Transition Working Group Meeting held in Goa, India in July 2023. The analytical study tackles the challenge of limited and uneven access to energy, particularly in developing regions, highlighting that the energy access challenge is more acute in Sub-Saharan Africa and rural areas. The report identifies a combination of electrification approaches centred around solar energy, with an emphasis on solar mini-grids and DRE solutions, which can be deployed to address energy access challenges in different situations. |
| Advocacy and Strategic Engagements | | |
| 1.1.5. | Global advocacy strategy | <ul style="list-style-type: none"> a. The ISA developed a global advocacy strategy to focus on easing solar deployment globally by (i) enabling round-the-clock power, (ii) mobilising finance, risk, and private capital, (iii) creating interconnection of regional interconnections, (iv) enabling manufacturing and PV Supply chain, (v) enabling ISA as a startup gateway for climate solutions, and (vi) enabling supportive policies. b. The ISA is engaging stakeholders through both own and third-party forums while also advancing its objective of solarisation across Member Countries. The global advocacy strategy is helping strengthen capacity, synergise policy change and project development, and engage leadership to establish solar as the energy source of choice. c. In 2023, the ISA is an international organisation partner to the G20 Presidency of the Republic of India. As an important ally in the 2023 G20 processes, the ISA advocates important themes for the global energy transition. <p>- First is a roadmap for promoting solar energy for universal energy access.</p> |

| SI No | Deliverables | Progress update |
|------------------------------|-------------------------------------|---|
| | | <p>The ISA is working with the G20 Presidency to expedite initiatives promoting solar-powered mini-grids in African rural areas.</p> <ul style="list-style-type: none"> - Through its Solar for Green Hydrogen program, the ISA launched the Green Hydrogen Innovation Centre, a virtual platform aimed at advancing green hydrogen production and usage, harmonising its supply chain standards. - The ISA interventions also include studying the kinds of levers that individual countries or the G20 can develop to support solar manufacturing. |
| Strategic Engagements | | |
| 1.1.6 | Governance Meetings | <p>Four Regional Committee Meetings and one Standing Committee Meeting have been convened in 2023.</p> <ul style="list-style-type: none"> a. The Eighth Meeting of the ISA Standing Committee was convened on 6 June 2023 and chaired by the President of the ISA Assembly b. The Fourth Meeting of the ISA Regional Committee for Europe and the Others Region was convened from 21 June to 23 June 2023 in Brussels and chaired by the Kingdom of Denmark c. The Fifth Meeting of the ISA Regional Committee for Asia and the Pacific Region was convened from 24 July to 26 July 2023 in Abu Dhabi and chaired by the People’s Republic of Bangladesh d. The Fifth Meeting of the ISA Regional Committee for Latin America and the Caribbean Region was convened virtually on 23 August 2023 and chaired by the Bolivarian Republic of Venezuela. e. The Fifth Meeting of the ISA Regional Committee for the Africa Region was convened from 30 August to 1 September 2023 in Kigali and chaired by the Federal Republic of Somalia. |
| 1.1.7 | Strategic international engagements | <ul style="list-style-type: none"> a. Three side events on STAR-C, Global Solar Facility and Public-Private panel on solar manufacturing were organised during the Regional Committee Meeting in Brussels. b. Two side events on GGI-OSOWOG and Public-Private panel on solar storage were organised during the Regional Committee Meeting in Abu Dhabi. c. Four side events on the ISA regulatory support, STAR-C, Global Solar Facility and SolarX Startup Challenge were organised during the Regional Committee Meeting in Kigali. d. A side event focused on the ISA Cares initiative was organised during the World Health Assembly 2023 in Geneva in partnership with the Health Innovation Exchange and the European Union. e. A deep-dive workshop on the ISA programmes and initiatives was organised during the Asia Clean Energy Forum in Manila in June 2023. |

| SI No | Deliverables | Progress update |
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| 1.1.8 | Partnerships | <p>a. The ISA Secretariat has signed a Memorandum of Understanding for cooperation with International Civil Aviation (ICAO) and the West African Development Bank (BOAD).</p> <p>b. The ISA partnerships have progressed in the execution of the work plans with its Partner Organisations as follows;</p> <ul style="list-style-type: none"> - ISA-UNDP IBSA fund for ten solar projects - ISA-IRENA for SolarCity Simulator (El Salvador) - ISA ADB Technical Assistance - ISA-UNEP for Circular Economy Study - ISA-UNIDO on STAR-C - ISA-Invest India on SolarX Startup Challenge - ISA-USAID for project financing - ISA-GEAPP for project financing - ISA-HIEX on ISA Cares initiative - ISA-IWMI for Solar Water Pumping Systems - NTPC as Project Management Consultants for the ISA - EIB and MIGA for participating in the Global Solar Facility - WRI for a solar roadmap - GOGLA for decentralised solar products - ISA-IORA for potential collaborations |
| Communication and Outreach | | |
| 1.1.9 | Online presence, publications and media outreach | <p>a. The ISA undertakes many engaging activities to encourage disseminating knowledge, best practices, and cutting-edge information on everything ‘solar’ daily. Some of the key progress made are summarised below:</p> <ul style="list-style-type: none"> - Online presence: As of 14 August 2023, the ISA website’s visitor count was 4,148,112. The ISA posts and regularly engages with its stakeholders across the social media platforms of Twitter, Facebook, LinkedIn, and YouTube, with approximately a following of 31,900, 7,100, 11,994, and 2,288 followers, respectively. - Monthly newsletters: Newsletters published till June 2023. - Publications and Media Outreach: <ul style="list-style-type: none"> o Solar Compass Journal: Sixth Edition was published in June 2023. The journal is available on the ISA website. o 66 press releases have been issued from 1 January 2023 to 3 August 2023, with more than 300 media coverage received from publications across international media. More than 15 opinion articles across media publications globally published. |
| 1.1.10 | Events and High-level Meetings | <ul style="list-style-type: none"> - Events: <ul style="list-style-type: none"> o 6th – 8th February 2023: Participated in the India Energy Week 2023 in Bengaluru |

| SI No | Deliverables | Progress update |
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| | | <ul style="list-style-type: none"> ○ 20 March 2023: The ISA hosted a Special Lecture by Dr. Rajiv Shah, President, Rockefeller Foundation ○ 28th – 29 March 2023: Berlin Energy Transition Dialogue ○ 28 March 2023: ISA UNDP IBSA Project Launch ○ 11 April 2023: R&D Conclave on Renewable Energy organised by MNRE in collaboration with Shakti Foundation and RTI ○ 18 April 2023: Workshop in Mauritius for the outreach of the SolarX Grand Challenge programme ○ 1 May 2023: Global Microgrid collaboration forum at the India Energy Storage Week 2023 ○ 3rd – 4 May 2023: Smart Energy Conference and ExpoFebruary 12, 2023 - Solar X Egypt Roadshow ○ 1 June 2023: Roundtable discussion on Solar for health at the World Health Assembly 2023 ○ 19 June 2023: Capacity Building Workshop on Demand Aggregation Models for Scaling Rooftop Solar Adoption – Learnings from India hosted by the ISA, CEEW and U.S. Department of State ○ 19th - 22nd July 2023: Side events at Clean Energy Ministerial and G20 ○ June and July 2023: Side events at Europe and APAC regional committee meetings - High-level Meetings and visits of dignitaries and other delegations to the ISA Headquarters <ul style="list-style-type: none"> ○ 17 January 2023: The ISA Secretariat welcomed a media delegation from UAE, Bahrain, Oman, and Saudi Arabia as part of the familiarisation programme organised by the Ministry of External Affairs, GoI. ○ 15 February 2023: The ISA partnered with Grid India and West African Power Pool to welcome delegates from the West African Region. ○ 22 March 2023: The ISA Secretariat hosted a media delegation from LAC ○ 9 May 2023: The ISA Secretariat hosted a media delegation from Maldives ○ 11 May 2023: Secretary General, IIDEA visited the ISA Secretariat ○ 4 July 2023: The ISA Secretariat hosted the Hon’ble Chief Minister and a delegation from Meghalaya. ○ 7 August 2023: The ISA Secretariat hosted a delegation of diplomats from El Salvador |

1.2. Capacity building assistance to developing Member Countries

Table 2: Progress update on deliverables under capacity building assistance

| SI No | Deliverables | Progress update |
|--------|--|---|
| 1.2.1. | Technical Training - Programme 01 (Scaling Solar for Agricultural Use) | <ul style="list-style-type: none"> a. Number of participants: 173 across 2 batches (Fifth and Sixth batches) b. Number of participant countries: 24 across 2 batches c. The last module was conducted in December 2022. |
| 1.2.2. | Technical Training - Programme 03 (Solar Mini-Grids) & 04 (Solar Rooftops) | <ul style="list-style-type: none"> a. Training provided by RENAC AG (Germany) b. Number of participants: 244 in 9 batches (third to twelfth batches) c. Number of participant countries: 23 (third to twelfth batches) d. The last module of training was conducted in June 2023. |
| 1.2.3. | Cumulative number of persons trained as of July 2023. | <ul style="list-style-type: none"> a. 3,091 people trained as of July 2023. Additionally, 368 people have been trained through STAR Centres b. Training of Master Trainers: 215 c. Bankers' Training: 1,226 d. Technical training - Solar Rooftop: 318 e. Technical training - Solar Mini-grids: 405 f. Technical training - Solar Parks: 461 g. Technical training - Solar for Agriculture: 466 |
| 1.2.4. | STAR Centres | <ul style="list-style-type: none"> a. The STAR C initiative experienced an exponential surge in interest in 2023, resulting in the ISA successfully securing over 10 Expression of Interest from Member Countries to set up STAR Centres. By the close of 2023, five of these countries will have operational STAR Centres undertaking training, testing and incubation of enterprises. These are, Ethiopia, Cuba, Somalia, Kiribati and Cote D'Ivoire. b. The ISA has also identified 5 more countries (Uganda, Cameroon, Bangladesh, Benin, and Venezuela) to set up STAR Centres in 2024. c. The ISA is working with UNIDO to replicate project activities in the Caribbean region through the Caribbean Centre for Renewable Energy and Energy Efficiency (CCREEE). The project outputs, to be delivered by December 2023, have strong replication potential in the Caribbean region. Similarly, ISA is working with PCREEE, EACREEE and ECREEE for the Pacific, |

| SI No | Deliverables | Progress update |
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| | | East Africa and West Africa region. |
| 1.2.6. | Regulatory Support to ISA Member Countries | <ul style="list-style-type: none"> a. The ISA is providing regulatory support to advance solar-receptive and sustainable regulatory frameworks to its LDCs and SIDS Member Countries. ISA has commissioned research on existing and emerging policy, legal and institutional issues relating to the development of sustainable mini-grids and other high-powered solar energy solutions in Africa, focusing on Ethiopia, Uganda, and other African and Small Island State Countries. b. The ISA is also working on creating a model regulatory framework that will act as a standard guide for Member Countries in formulating and drafting their mini-grid policies and regulations. |
| 1.2.7. | ISA Corporate Advisory Group | <ul style="list-style-type: none"> a. The ISA started engaging with its Corporate Advisory Group to bring private sector players (Developers, Manufacturers, Financiers, etc.) on the same platform to share inputs/feedback on policy and regulatory challenges, investment issues, exchange knowledge and ideas on best practices, etc. |

- 1.3. Programmatic support to LDCs and SIDS Member Countries:** ISA has been carrying out country outreach activities, including meetings and deliberations with NFPs, Ministries, and Contact Points for increasing engagement with the ISA Member Countries.

Table 3: Progress update on deliverables under programmatic support

| SI No | Deliverables | Progress update |
|--------|---|--|
| 1.3.1. | Country Partnership Strategy | <ul style="list-style-type: none"> a. Starting in 2023, the ISA has shifted its approach from broad engagement with multiple Member Countries to a more targeted and efficient process of working closely with a select few 'priority Member Countries'. b. On 23 February 2023, the ISA signed the first CPS with Bangladesh. c. The ISA intends to sign 10 CPS with its Member Countries in 2023. |
| 1.3.2. | Country Missions | <ul style="list-style-type: none"> a. October 2022: Venezuela, Paraguay b. November 2022: Egypt c. January 2023: Comoros d. February 2023: Bangladesh, Cambodia e. March 2023: Niger f. April 2023: Bangladesh g. May 2023: Egypt h. July 2023: Bangladesh, Nepal |
| 1.3.3. | Programme 01 (Scaling Solar for Agricultural Use) | <ul style="list-style-type: none"> a. EoI received from Bangladesh and Bhutan. b. Total EoIs received from 30 countries for 2,76,277 solar water pumps till July 2023. |

| SI No | Deliverables | Progress update |
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| | | <p>c. Empanelment of global firms - Global EPC/Consultancy firms have been empanelled for a detailed study of the country readiness and preparation of bankable DPRs after physical assessment work in Africa, Asia Pacific, and the LAC region.</p> <p>d. Agreement between the ISA and UNDP signed and submitted for scaling solar water pumping systems in 10 ISA Member Countries under the IBSA Fund facility. Pre-feasibility and implementation of the projects are in progress.</p> |
| 1.3.4. | Programme 02 (Affordable Finance at Scale) | <p>a. Global Solar Facility: The ISA Secretariat announced the Facility at a high-level event at Cop27 in November 2022. The discussion included industry experts and leaders from GCF, MIGA, IFC, AfDB, EIB, World Bank, Edhina Capital, and Greenmax Capital.</p> <ul style="list-style-type: none"> - Following this, the ISA appointed an external consulting firm (Edhina Capital) to assist in operationalising and structuring the facility (first draft report submitted). - The ISA held multiple discussions and roundtables with the EIB, MIGA, the World Bank, and the pension funds, including NORAD, PK Denmark, and Africa 50. The first investor roundtable was held in the Nordics in March 2023, with about 30 investors from Copenhagen, Oslo, and Stockholm joining the roundtables. An EU Investor Roundtable was held in June 2023 in Brussels with Member Countries and institutional investors. - As a result, the ISA and MIGA signed an MoU on 22 July 2023 at CEM14 in Goa to engage and cooperate in the rollout of ISA's Solar Facility in Member Countries. The ISA has also signed agreements with Africa50 to look at the pipeline of projects in the African region. - The Government of India has agreed to look at the possibility of investing up to USD 25 million in the Global Solar Facility as seed capital. The ISA is in touch with philanthropies and donors to raise capital for the Facility. <p>b. SolarX Startup Challenge: The first edition of the SolarX Startup Challenge was launched during COP27 for the Africa region. The ISA conducted four workshops in Egypt, Kenya, South Africa, and Mauritius for capacity building of local stakeholders & outreach in the African region. As a result, the ISA received over 180+ applications from 28 countries. A High-Level Evaluation Committee chaired by the Director General of the ISA was constituted for reviewing, evaluating, and selecting applications under this challenge through established evaluation criteria. Through this, 50 applications were shortlisted by 30 June 2023, and following a further rigorous assessment, the Evaluation Committee selected the top 20 winning startups from 10 African countries (7 women-led), which were announced at the G20 Energy Transition Working Group Meeting</p> |

| SI No | Deliverables | Progress update |
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| | | <p>at Goa on 20 July, 2023.</p> <p>c. A roadmap for mobilising USD 1000 billion in solar investments was developed and launched during COP27 in Sharm El-Sheikh. The ISA partnered with WCF for Phase II to operationalise and socialise the solar Facility, including holding roundtables in the Nordics, APAC, Europe, and Africa groups. The first roundtable for the Nordics under Phase II was held in March 2023 to tap into pension funds and institutional investors.</p> |
| 1.3.5. | Programme 03 (Solar Mini-grids) | <p>a. EoI received from Bhutan for 0.656 MW.</p> <p>b. Total EoIs received from 20 countries with a cumulative capacity of 786 MW.</p> <p>c. A total of 20 ISA Member Countries have submitted the EOI to join the programme with a cumulative capacity of 786 MW till July 2023.</p> <p>d. Assisting Ethiopia in developing a pipeline of bankable projects. Of the proposed 2,231 locations to develop solar mini-grid projects for a cumulative capacity of 100 MWp, 29 sample sites have been identified by EEU (Ethiopian Electric Utility). The firm was shortlisted for the survey and preparation of DPRs.</p> <p>e. Launched a report on “Roadmap of Solar Energy for Universal Energy Access” in G20 4th ETWG Meeting held in Goa, India in July 2023.</p> <p>f. Empanelment of firms/companies for carrying out country-specific and project-specific studies in Botswana, Burkina Faso, Comoros, DR Congo, Sudan, Kiribati, and Cambodia.</p> |
| 1.3.6. | Programme 04 (Solar Rooftops) | <p>a. EoI received from Bangladesh, Vanuatu, and Bhutan</p> <p>b. 23 ISA Member Countries have submitted the EOI to join the program with a cumulative capacity of 1,059 MW.</p> <p>c. Assisting Ethiopia and Sao Tome & Principe with the development of a pilot solar rooftop project</p> <p>d. Global EPC/Consultancy firms have been empanelled for a detailed study of the country's readiness and preparation of bankable DPRs after physical assessment work in Africa, Asia Pacific, and the LAC region. Shortlisted firms have physically assessed Solar rooftop work, and the bankable DPR is being prepared for Comoros.</p> <p>e. Programme implementation support:</p> <p>- Ethiopia: EoI of 1 MW for solar rooftop capacity received from the Ministry of Water & Energy (MoWE), Ethiopia. MoWE has shared details of 3 sites for development. The ISA has prepared and shared the pre-feasibility report with MoWE. Discussions for developing a 100KW Pilot solar rooftop project is in progress.</p> |
| 1.3.7. | Programme 05 (E-mobility and Energy Storage) | <p>a. Reports:</p> <p>- A report on global case studies and learnings, along with policy and regulatory guidelines on energy storage systems, is underway.</p> |

| SI No | Deliverables | Progress update |
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| | | <ul style="list-style-type: none"> - A report on assessing technical design concepts for Solar-powered EV charging stations for planning pilot implementation in a select member country is also in progress. b. Workshop: - The ISA is also developing a technical training workshop on storage systems to strengthen capacity building in the energy storage sector. In CY 2023, this workshop will specifically focus on solar mini-grids along with energy storage systems. |
| 1.3.8. | Programme 06 (Solar Parks) | <ul style="list-style-type: none"> a. EoI received from Bangladesh and Bhutan. b. Total EoIs received from 20 countries for a cumulative capacity of 7.65 GW. 20 ISA Member Countries (13 from the Africa Region, 5 from the LAC Region, and 2 from the Asia Pacific Region) have joined this programme. c. Prepared Preliminary Assessment Report for 33 ISA Member Countries and discussions with respective countries in progress. d. The ISA, in collaboration with WAPP and Grid-India hosted three batches of Knowledge Exchange & Study Tour in February and March 2023, with the participation of 60 officials from Ministries and Electric Utilities from West African Countries. e. 12 countries have appointed NTPC Ltd. as the Project Management Consultant (PMC) to develop bankable solar park projects with a cumulative capacity of ~6.2 GW for Cuba (900 MW), DR Congo (1,000 MW), Ethiopia (410 MW), Malawi (100 MW), Mali (500 MW), Niger (50 MW), Nicaragua (100 MW), Paraguay (500 MW), Togo (285 MW), Venezuela (2000MW), Zambia (400 MW) and Guinea Bissau (60 MW). f. Programme implementation support: - Ethiopia: 400 MW ground-mounted & 10 MW floating solar capacity is under discussion in Ethiopia. Prefeasibility report submitted. After approval from the PPP department, will proceed toward a site-specific study. - Cuba: 1,150 MW ground-mounted solar capacity has been finalised. The RFP for 60 MW has been published. - Paraguay: 500 MW of solar park capacity has been requested by the country. To be developed in phases. Phase 1 - 200 MW of solar capacity is proposed to be established in the La Patria region. - Awaiting confirmation of site and availability of transmission infrastructure. Land Identification is in progress. - Other countries: Discussions of different projects are at various stages of progress in Guinea-Bissau, Niger, Guinea, DR Congo, Togo, Mali, Venezuela, and Nicaragua. |
| | Programme 08 (Solar PV) | <ul style="list-style-type: none"> a. On 11 July 2023, the ISA hosted a consultation with the Corporate Advisory Group on the issue of Solar PV Recycling. For this, the ISA |

| SI No | Deliverables | Progress update |
|---------|---|--|
| | Battery and Waste Management) | Secretariat published and circulated a survey to gather inputs from relevant stakeholders, which is available on the ISA website. |
| 1.3.9. | Programme 09 (Solar for Green Hydrogen) | <p>a. The ISA Green Hydrogen Innovation Center Portal Launch: 22 July, G20 4th Energy Transition Ministerial, Goa.</p> <p>b. Reports:</p> <ul style="list-style-type: none"> - Completed and launched (COP-27, Nov 2022) - ISA-ADB Report - 'Ecosystem Readiness Assessment for Production and Utilization of Solar Hydrogen'. - ISA-EIB-Africa Union Report, COP-27 Nov 2022; Africa Solar Hydrogen Project (ASHyP) - Completed ISA-NEDO-ADB report on – 'Roadmap for Developing and Scaling Green Hydrogen Ecosystem' (to be launched as per ISA-NEDO plans), August 2023 - The ISA document on Green Hydrogen Innovation Centre (circulated by MNRE to G20, May 2023) - Under G20 – ISA Green Hydrogen Partnership <p>c. Events</p> <ul style="list-style-type: none"> - ISA-ADB-MNRE Technical conference at ISA Assembly, New Delhi (19October 2022) - ISA -ADB side event with GHO, Geneva as co-host and EU as Knowledge Partner, COP27, Egypt (14 November 2022) - ISA ADB Green Hydrogen event in India Energy Week (8 February 2023) - ISA-GHO-GWEC Webinar on Green Hydrogen Standards and Certification (1 March 2023) - Green Hydrogen G20 ETWG side event Gandhinagar, Gujarat, with Host being MNRE and Co-sponsors: ISA-WRI-SECI (2 April 2023) - ISA-ADB Green Hydrogen Standards and Certification Side event at CEM, Goa, (18 July 2023) |
| 1.3.10. | Demonstration projects | <p>a. The ISA Secretariat received Expression of Interest from 27 LDCs and SIDS (17 in Africa, 4 in LAC, and 6 in Asia Pacific) for availing the grant for demonstration projects. Accordingly, DPRs for all 27 countries have been approved, and Grant Agreements with all countries have been signed except Cambodia and Mauritius, which are expected to be signed shortly.</p> <p>b. 16 projects are being self-implemented by the countries themselves, while the ISA is implementing 11 projects through its implementing agency NTPC. Under the ISA implementation of projects, tenders for all 11 projects have been floated across three applications – Solar cold storage (Djibouti, Senegal, Seychelles and Sudan), Solar water pumping solutions (Burundi, Ethiopia, Mozambique, Cuba and Suriname) and</p> |

| SI No | Deliverables | Progress update |
|-------|--------------|--|
| | | <p>Solarisation of buildings (Uganda and Malawi).</p> <p>c. In total, 8 projects (5 in Africa, 2 in LAC, and 1 in Asia Pacific) have been completed till July end, 2023.</p> |

1.4. Ensuring the financial sustainability of the ISA

Table 4: Progress update on deliverables for ensuring the financial sustainability of the ISA

| SI No | Deliverables | Progress update |
|--------|--|---|
| 1.4.1. | Grant Funding from Member Countries | <p>a. The ISA is effectively progressing with its programs and initiatives, aligning with the commitments made under the received funding of USD 84 million (<i>including commitments of USD 40 million from various global donor organisations and USD 44 million from Member Countries</i>).</p> <p>b. Considering the state of development of the ISA and its current financial position, the Government of India has kindly sanctioned financial support to the ISA. The contribution is approx. USD 40 million over a period of three years, starting from CY2023.</p> <p>c. The ISA programmes and activities are also being supported through the financial contributions from its Member Countries, which comprise the Republic of India, the Republic of France, the United Kingdom, the United States of America, Sweden, Japan, Australia, Denmark, and the European Commission, among others.</p> |
| 1.4.2. | Grants Funding from Global Foundations | <p>a. The ISA has forged strategic partnerships with key international organisations and philanthropies, including Children’s Investment Fund Foundation (CIFF), Global Alliance for Energy and Planet (GEAPP), Bloomberg Philanthropies, MacArthur Foundation, Sequoia Climate Foundation, and others, for the ISA strategic priorities. For Phase 2 funding, the ISA is in discussion with various organisations, including Sequoia Climate Fund, MacArthur Foundation and Bezos Earth Fund. During CY 2023, the ISA plans to finalise Phase II funding from various organisations, including Sequoia Climate Fund and the US State Department, to support the ISA strategic priority areas.</p> |

1.5. Strengthening the ISA Secretariat organisation and capacity

Table 5: Progress update on deliverables for Strengthening the ISA Secretariat organisation and capacity

| SI No | Deliverables | Progress update |
|--------|--|---|
| 1.5.1. | Organisational structure and recruitment | <p>a. Detailed progress update provided in working document ISA/A.06/WD.07. placed before this Assembly for approval.</p> |

| SI No | Deliverables | Progress update |
|--------|---------------------------|---|
| 1.5.2. | Monitoring and Evaluation | <ul style="list-style-type: none"> a. The ISA Secretariat is developing a Monitoring, Evaluation, and Learning Policy with a Results framework for tracking results achieved by the ISA. b. The ISA Secretariat has also initiated digitising and creating internal dashboards for organisational and individual performance management. c. The Secretariat is also developing its Gender Policy. The first draft is now ready and has been circulated to Member Countries and external experts for their input. |

1.6. Providing Secretariat support to the GGI-OSOWOG initiative

Table 6: Progress update on deliverables for providing Secretariat support to the GGI-OSOWOG initiative

| SI No | Deliverables | Progress update |
|--------|------------------------|---|
| 1.6.1. | OSOWOG technical study | <ul style="list-style-type: none"> a. Phase-I report of the technical study, which included extensive discussions, review, and validation of data/inputs for the Simulation Model by multiple stakeholders, has been completed and approved by the Steering Committee in a meeting held in June 2023. b. After approval of the Phase-I report from the Steering Committee, work on the Phase-II report was started by the EDF-led consortium. Phase II of the study will focus on modelling & simulations on PLEXOS software, including feasibility analysis, and is expected to be completed by October 2023. c. As the next step, Phase III of the study will focus on developing the OSOWOG institutional framework for a full-scale rollout, including stakeholders' engagement, and is expected to be completed along with the final report by December 2023. |

C. Update on the budget (revised) of CY 2023

- In line with this strategic plan, the Fifth Session of the ISA Assembly also approved the work plan and budget for CY 2023 for USD 21.18 million.

Table 7: Approved budget of CY 2023

| Sl. No. | Thematic Area | 2023 (USD million) |
|---------|---|--------------------|
| 1 | Programme Cost | 14.57 |
| 2 | Capacity building Communications, Outreach, and Strategic Engagement & Partnerships | 2.26 |

| Sl. No. | Thematic Area | 2023 (USD million) |
|--------------------|-------------------------|--------------------|
| 3 | Management Support Cost | 4.35 |
| Grand Total | | 21.18 |

- Out of this USD 21.18 million, it was envisaged that USD 9.60 million will be mobilised as Other Contributions, and USD 11.5 million will be spent from the funds of the ISA.
- In CY 2023, the ISA will be able to double its spending from CY 2022. The ISA Secretariat has continued to focus on developing a strong foundation for its work, with tools, platforms and portals to expand its reach and enable improved access for Member Countries to relevant information for building their capacities and improving the deployment of solar applications being developed. It has also accelerated its implementation significantly, with many planned demonstration projects and the envisaged STAR Centres reaching completion in 2023. The ISA Secretariat has also developed a strong pipeline of EOI, projects and opportunities to capitalise on in CY2024.
- Thus, from the approved budget for CY 2023 of USD 21.18 million, the ISA is on track to achieve an expenditure of USD 16.06 million. The proposed revised budget with the update on budget utilisation is provided in the table below.

Table 8: Revised budget for CY 2023 and budget utilisation

| Sl. No. | Particulars | Approved budget (USD) | Actual Expenditure (1 January to 31 July 2023) (USD) | Projected Expenditure (1 August to 31 December 2023) (USD) | Revised Budget for 2023 (USD) |
|----------|---|-----------------------|--|--|-------------------------------|
| A | Programme Cost | | | | |
| A.1 | Affordable Finance at Scale (AFS) Programme | 2,504,079 | 1,249,604 | 1,000,000 | 2,249,604 |
| A.2 | Scaling Solar Applications for Agriculture Use (SSAU) | 247,564 | 63,362 | 184,202 | 247,564 |
| A.3 | Scaling Solar Mini Grids (SSMG) Programme | 305,437 | 81,142 | 224,295 | 305,437 |
| A.4 | Scaling Rooftop Solar (SRS) Programme | 402,924 | 69,310 | 333,614 | 402,924 |
| A.5 | Scaling E-mobility and Storage (SEM&S) Programme | 312,149 | 340 | 311,809 | 312,149 |
| A.6 | ISA Programme on Solar Parks | 408,477 | 69,477 | 339,000 | 408,477 |

| Sl. No. | Particulars | Approved budget (USD) | Actual Expenditure (1 January to 31 July 2023) (USD) | Projected Expenditure (1 August to 31 December 2023) (USD) | Revised Budget for 2023 (USD) |
|------------------|--|-----------------------|--|--|-------------------------------|
| A.7 | ISA Programme for solarising heating and cooling systems | 320,477 | 20,674 | 299,803 | 320,477 |
| A.8 | Funding for viability gap and demonstration Projects in ISA Member Countries | 5,860,000 | 133,663 | 3,161,944* | 3,295,607* |
| A.9 | ISA Programme on Solar & Battery Waste Management | 215,000 | 20,674 | 194,326 | 215,000 |
| A.10 | Regulatory Support | 400,000 | - | 440,388 | 440,388 |
| A.11 | ISA Programme on Solar for Green Hydrogen | 203,000 | 20,674 | 182,326 | 203,000 |
| A.12 | STAR-C Knowledge Management | 3,397,469 | 733,716 | 979,472 | 1,713,188 |
| Sub-total | | 14,576,576 | 2,462,636 | 7,651,179 | 10,113,815 |
| B. | Communications and Outreach | | | | |
| B.1 | Capacity Building | 300,000 | 120,372 | 179,628 | 300,000 |
| B.2 | Communication & Outreach | 600,000 | 211,813 | 195,000 | 406,813 |
| B.3 | Secretariat support to GGI-OSOWOG initiative | 60,000 | - | 60,000 | 60,000 |
| Sub-total | | 960,000 | 332,185 | 434,628 | 766,813 |
| C. | Governance, Partnerships and Strategic Engagement | | | | |
| C.1 | Governance, Partnerships, and Strategic Engagement | 1,295,000 | 23,519 | 1,868,000 | 1,891,519 |
| Sub-total | | 1,295,000 | 23,519 | 1,868,000 | 1,891,519 |
| D. | Management Support | | | | |
| D.1 | Management Support | 4,353,297 | 1,506,989 | 1,780,864 | 3,287,853 |
| Sub-total | | 4,353,297 | 1,506,989 | 1,780,864 | 3,287,853 |
| Total | | 21,184,873 | 4,325,329 | 11,734,671 | 16,060,000 |

* A modified Viability Gap Funding scheme has been put up for the approval of the Assembly in the working document ISA/A.06/WD.09. This is based on the approval of the suggested modification.

5. The ISA has made significant progress since its inception in terms of work activities and fund flow.

Table 9: Expenditure of the ISA (2019 - 2023)

| Sl. No. | Calendar Year | Expenditure (USD) |
|---------|---------------|---------------------------------------|
| 1 | 2019 | 1,826,907 |
| 2 | 2020 | 1,884,363 |
| 3 | 2021 | 2,882,548 |
| 4 | 2022 | 6,639,075 |
| 5 | 2023 | 16,060,000 (Projected Expenditure) |

6. **Fund Flow Status of the ISA:** The fund flow status of the ISA has been prepared to analyse the financial sustainability of the ISA Secretariat in the coming years. The fund flow status of the ISA indicates that the ISA will have sufficient funds to meet the prospective budget for CY 2024.

Table 10: Fund flow status of the ISA

| Particulars | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | Total |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|
| I. Corpus Fund | 17 | 1 | 8 | 0.17 | 6.33 | 3.12 | 0.84 | - | - | 36.46 |
| II. Interest on Corpus Fund | 0.23 | 0.68 | 1.36 | 1.84 | 1.85 | 2.05 | 1.8 | 1.8 | 1.8 | 13.41 |
| III. General Grants Received | | | | | | | | | | |
| Opening Balance | | 2.17 | 4.04 | 4.51 | 5.5 | 5.87 | 11.1 | 7.45 | 15.80 | |
| A. General Funds received (voluntary contributions from the Government of India) | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | | | 13 | 13 | 36.70 |
| B. Grants (Other Contributions) | | | | | | | 1.75 | 9.6 | 12.5 | 23.85 |
| C. Interest on General Funds | 0.07 | 0.14 | 0.17 | 0.36 | 0.32 | 0.15 | 0.26 | 0.01 | 0.01 | 1.49 |

| Particulars | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | Total |
|-----------------------------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|--------------|--------------|--------------|
| D. Interest on Corpus Fund | | | | | | 8.01 | 1.8 | 1.8 | 1.8 | 13.41 |
| E. Payment (Outflow) | 0.04 | 0.41 | 1.84 | 1.51 | 2.09 | 2.93 | 7.46 | 16.06 | 27.38 | 59.72 |
| Closing Balance | 2.17 | 4.04 | 4.51 | 5.50 | 5.87 | 11.10 | 7.45 | 15.80 | 15.73 | |

Figure for 2023 are revised proposed budget. Figures up to 2022 are audited. The Other contributions for 2024 are projected figures.

7. **Justification for the revised budget in CY 2023:** The ISA Secretariat strived to enhance its programme spending, more than doubling the expenditure from last year and with nearly two-thirds of the ISA Secretariat's CY 2023 projected expenditure going to this category. Throughout the year, political challenges in some ISA Member Countries where projects were underway led to delays, which will now go on till CY 2024. We also identified ways to improve our grant funding support and Viability Grant Funding scheme to make this more relevant and feasible for uptake by Member Countries. The ISA strengthened its communication and outreach work with an organic increase in the reach of its social media handles and a range of knowledge pieces and articles published by the ISA Secretariat.

There has been a substantial increase in the ISA Secretariat's expenditure on strategic engagements, as in CY 2023, the ISA conducted three of the four Regional Committee Meetings in person in the respective regions, which saw improved participation and engagement with the Member Countries, and which has resulted in significantly growing the pipeline of project opportunities for the coming years. To further enhance strategic partnerships, the Secretariat is also planning a pavilion at the COP28 in Abu Dhabi in December 2023, where a range of events will be hosted in collaboration with strategic partners and participants from select Member Countries, who we would facilitate as required.

The ISA Secretariat filled most of the vacant positions on its Organogram and is on its way to recruiting all positions on the Organogram, which should be completed in 2024. While the research and outreach work on OSOWOG is underway as planned, the envisaged Secretariat support for the GGI-OSOWOG initiative is to be initiated once the Secretariat for the initiative is appointed.

8. **Availability of funds to meet the proposed budget of CY 2023:** The ISA anticipates that the funds available with it would be sufficient to meet the budgetary requirement of approximately USD 16.06 million for CY 2023. The ISA has received a significant boost to its financial sustainability from the Government of India's annual funding commitments of approximately USD 13 million for the next 3 years. Approximately USD 13 million has been released for CY 2023. Increased efforts of the ISA Secretariat for resource mobilisation from Member Countries, multilaterals, and philanthropic organisations have also resulted in increased funding and enabled the sufficiency of funds.

D. Proposed Work-plan of the ISA for CY 2024

The Fourth Session of the ISA Assembly approved a five-year Strategic Plan for guiding its activities and interventions until 2026. The strategic plan is based on a theory of change that enshrines the focus of the ISA in addressing three key issues, i.e., Energy Access, Energy Security, and Energy Transition, by focusing on specific, broad-based priority areas, including programmatic support for LDCs and SIDS Member Countries, capacity building support for all developing Member Countries, and analytics and advocacy support to all its Member Countries. The Strategic Plan also aims to support Member Countries in developing a vibrant solar energy ecosystem and create a viable & bankable solar energy projects pipeline through key actions encompassing, among other things, readiness and enabling activities, risk mitigation & innovative financing instruments, investments mobilisation, and promotion of solar-based technologies.

As the ISA completes the second year under the five-year Strategic Plan, the strategic priority areas for the coming year are being kept constant from those of CY2023. Thus, the ISA would continue to focus on the six strategic priority areas highly relevant to the objectives the organisation seeks to achieve over the near future. These strategic priority areas are as follows:

1. Analytics, Advocacy and Outreach for all ISA Member Countries
2. Capacity Building and Regulatory support for all ISA developing Member Countries
3. Programmatic support for all ISA LDCs and SIDS Member Countries
4. Affordable and innovative financial products for mobilising solar investments
5. Establishing networks of corporates and institutions for amplifying impact
6. Strengthening the ISA Secretariat's organisation, capacity, and finances

1. **Analytics, Advocacy and Outreach for all ISA Member Countries:** The ISA will aim to bridge the information gap and encourage accelerated deployment of solar through advocacy efforts in every member country.

Table 11: Proposed deliverables under Analytics, Advocacy and Outreach for all the ISA Member Countries in CY 2024

| SI No | Deliverables | Proposed activities |
|-------|-------------------------|--|
| 1.1 | Analytics and Advocacy | <ol style="list-style-type: none"> a. Under the analytics and advocacy work, the ISA will continue to refine its knowledge products, such as the Ease of Doing Solar (EoDS) series of reports, as well as its three flagship reports on the state of the global solar sector in terms of markets, technology, and investments. b. The ISA also proposes to launch theme-specific and country/region-specific reports and knowledge products to make solar the preferred choice of energy and mobilise investments for solar projects globally. |
| 1.2 | Governance Meetings and | <ol style="list-style-type: none"> a. Annual Governance Meetings 2023 and 2024 <ul style="list-style-type: none"> - Seventh Session of the ISA Assembly, New Delhi, 2024 |

| SI No | Deliverables | Proposed activities |
|-------|----------------------------|---|
| | Strategic Engagements | <ul style="list-style-type: none"> - Tenth Meeting of the ISA Standing Committee, New Delhi, 2024 - Eleventh Meeting of the ISA Standing Committee, New Delhi, 2024 - Fifth Meeting of the ISA Regional Committee for Europe and the Others Region, Brussels, 2024 - Sixth Meeting of the ISA Regional Committee for Asia and the Pacific Region, 2024 - Sixth Meeting of the ISA Regional Committee for Latin America and the Caribbean Region, 2024 - Sixth Meeting of the ISA Regional Committee for the Africa Region, 2024 - Seventh Session of the ISA Assembly, 2024 <p>b. Strategic International engagements in 2023 and 2024</p> <ul style="list-style-type: none"> - Side event at 78 United Nations General Assembly Climate Week - Side event at the African Climate Action Week 2023 - COP28, Dubai - Participate in the World Health Assembly 2024 - Participate in the World Economic Forum 2024 - Participate in the Asia Clean Energy Forum 2024 in Manila - Participate in the 79 UNGA in New York - Thematic sessions at the ISA governance meetings - COP29 <p>c. Partnerships: The ISA aims to achieve the deliverables outlined in the joint work plan with its Partner Organisations. Additionally, the ISA proposes to develop new partnerships and sign partnership agreements for cooperation.</p> |
| 1.3 | Communication and Outreach | <p>a. The ISA will also host a high-level 2-day programme - Solar Think/Solar Ideas Festival (name to be finalised) devoted to addressing the challenges in the sector through panel discussions, workshops, roundtable discussions, report launches, etc.</p> <p>b. The ISA will also introduce and host Solar Awards in various categories to empower and recognise individuals and groups working in solar adoption.</p> |

- 2. Capacity Building and Regulatory Support for all ISA developing Member Countries:** The ISA realises that capacity building and knowledge management are effective tools to accelerate the adoption and development of solar energy in the ISA Member Countries. In 2024, the ISA aims to advance its efforts on building capacities across stakeholder groups for solar uptake, strengthening the information sharing mechanisms for the collection, sharing, and utilisation of information, experiences, and expertise related to solar energy technologies, policies, research, and best practices across different countries and organisations.

Table 12: Proposed deliverables under Capacity Building and Regulatory support for all ISA developing Member Countries in CY 2024

| SI No | Deliverables | Proposed activities for CY 2024 |
|-------|----------------------|---|
| 2.1 | STAR-C | <ul style="list-style-type: none"> a. In 2024, the STAR-C programme aims to achieve a significant milestone, with 10 centres operational across the globe. These centres are envisaged to serve as hubs of innovation, knowledge exchange, and resource dissemination, fortifying the local capacities to navigate the intricacies of energy transition. b. Additionally, by the close of 2024, the STAR-C initiative aims to train nearly 1500 professionals, including technicians, government officers, financial institutions, etc. c. The STAR Centre will also launch a qualification and certification framework for raising the professional standards of those engaged in the solar energy domain and creating a standardised pool of skilled human resources for cross-border opportunities. d. In 2024, the ISA also plans to launch its initiative to establish a Solar Academy, an institution geared towards delivering long-term professional courses on Solar Energy. e. The longer-term goal is to reach the goal of 50 STAR Centres by 2030. |
| 2.2 | Knowledge Management | <ul style="list-style-type: none"> a. The ISA will develop a comprehensive knowledge management database platform to gather, analyse, process and share information on successful solar energy projects, policies, and initiatives that can help countries and organisations learn from successful experiences and avoid pitfalls. b. The ISA has also prioritised the “Global Stocktake” of solar energy transition and making solar energy transition a key element of enhanced NDCs to achieve the Paris Agreement goals. c. To advocate for solarisation within ISA Member Countries, case studies on best practices, innovations and learnings from the ISA Demonstration Projects will be developed and published. d. In addition, the ISA will develop a Solar Roadmap for select ISA Member Countries driven by a robust and inclusive engagement process to identify gaps and barriers for accelerating solar energy deployment and outline new strategies for increased solar energy generation, utilisation and demand savings. e. Advocating for gender equity and social inclusion (GESI) is another important mandate of the ISA that will be accomplished through various initiatives in CY2024, including a pilot initiative, ‘Solar for She’. |
| 2.3 | Regulatory Support | <ul style="list-style-type: none"> a. The ISA also proposes to engage its experienced staff resources and tap into its learnings from mission visits and analytics exercises to extend regulatory and policy support to its Member Countries. |

| SI No | Deliverables | Proposed activities for CY 2024 |
|-------|--------------|---|
| | | f. Going forward, the regulatory assistance will also include the development of regulatory drafts for solar development in the various countries of research, which can be adopted and adapted by the country to increase private sector investments in the mini-grid sector. It is proposed that in the subsequent years, the ISA will work closely with the countries to establish the frameworks, as highlighted in the report. |

- 3. Programmatic support for all ISA LDCs and SIDS Member Countries:** The ISA proposes to augment its programmatic support offering to its Member Countries with particularly targeted project interventions with close collaboration with the member country. These interventions would be prefaced by a comprehensive mission visit to identify the country's goals and targets and map gaps in its institutional, regulatory and financial capacity. Subsequently, tailored interventions would be framed to support the country to achieve its objectives through the thematic programmes of the ISA. Through this, in CY2024, the ISA programmes would be spread to new countries along with deeper engagements where the ISA programmes are already being implemented.

Table 13: Proposed deliverables under programmatic support to ISA LDCs and SIDS Member Countries in CY 2024

| SI No | Deliverables | Proposed activities in CY 2024 |
|-------|--|--|
| 3.1. | Programme-1 (Scaling Solar Applications for Agriculture Use) | <p>a. The ISA Secretariat would focus on executing specified activities involving comprehensive development, analysis, and implementation support to Member Countries. This entails formulating intricate business models for solar integration, strategically prioritising countries for deployment of solar technologies, and conducting rigorous feasibility studies to assess viability.</p> <p>b. The ISA is also targeting to integrate emerging technologies like Agri-photovoltaics within the agriculture sector and provide support on capacity building to relevant institutions.</p> |
| 3.2. | Programme 3 (Scaling Solar mini-grids) | <p>a. The ISA "Roadmap for Promoting Solar Energy for Universal Energy Access" highlights the critical role of Solar Mini-grids in achieving universal energy access in rural areas. To facilitate this, the ISA would work with Member Countries to develop policy and regulatory frameworks for enabling business models and attracting private investments. The ISA would also use demo projects and provide support on capacity building of relevant institutions.</p> <p>b. Emphasis would be on comprehensive development, analysis, implementation support and providing financial guarantees for scaling solar mini-grids in the Member Countries.</p> |
| 3.3. | Programme 4 (Scaling Solar rooftop) | <p>a. The ISA will strategically prioritise countries for the deployment of solar rooftops, conducting rigorous feasibility studies to assess</p> |

| SI No | Deliverables | Proposed activities in CY 2024 |
|-------|---|---|
| | | viability, sectors and support on capacity building of relevant institutions for realising the practical implementation of Solar rooftops |
| 3.4 | Programme 5 (Scaling Solar E-Mobility and Storage) | <ul style="list-style-type: none"> a. This program would focus on executing the sector specific roadmaps and study to identify the potential business opportunities and sustainable business models in the Member Countries. The ISA Secretariat is also planning to implement demonstration projects to create a business case. b. For CY2024, the ISA is planning a report on expanding solar and long duration energy storage (LDES) technologies, with a focus on Africa. The report aims to catalyse informed decision-making and strategic planning, risk assessment, scenario analysis and readiness check for the adoption of LDES solutions. c. The ISA will also be developing country/region specific Roadmaps for Energy Storage System Deployment and Roadmap for Solar E-Mobility deployment, along with identification of countries for pilot projects to be initiated in CY2024 to CY2025. |
| 3.5 | Programme 6 (Solar Parks) | <ul style="list-style-type: none"> a. The programme will continue to support Member Countries in creating a pipeline of projects to facilitate the implementation of solar parks/ground-mounted projects and floating solar projects by conducting pre-feasibility studies, etc. This may also involve creating regulatory frameworks, supporting technical studies, and conducting techno-economic feasibility studies for ground-mounted and floating solar projects. b. The ISA will also facilitate the capacity building of people and institutions to manage such projects. |
| 3.6 | Programme 7 (Solarizing Heating and Cooling System) | <ul style="list-style-type: none"> a. The program will conduct assessments and studies to support Member Countries, where feasible, in implementing solar-based heating and cooling projects. The program will also develop standards and certification for these solutions, as per the requirement of the member country. |
| 3.7 | Programme 8 (Solar PV Battery and Waste Management) | <ul style="list-style-type: none"> a. This program would focus on developing sector specific roadmaps and conducting studies to identify the potential for recycling solar and battery waste in the Member Countries. |
| 3.8 | Programme 9 (Solar for Green Hydrogen) | <ul style="list-style-type: none"> a. For the GHIC portal (launched in July 2023) to function as a central hub for global stakeholders, the ISA will be conducting dialogues with industry and global/regional Green Hydrogen alliances to facilitate access to essential resources, provide platforms for exchanging knowledge and drive advancements in green hydrogen technologies and incubation of innovative solutions. This will lead to opportunities for developing multiple collaborations for reports, pilots, events, etc. b. Certified training for skilled professionals, an integral part of the ISA |

| SI No | Deliverables | Proposed activities in CY 2024 |
|-------|--------------|---|
| | | <p>capacity building initiative will also be developed under the GHIC.</p> <p>c. An Ecosystem Readiness Assessment for Production and Utilisation of Solar Hydrogen- a Phase 2 report which builds on the Ecosystem Readiness Report launched at COP27, is planned for a launch at COP29. It will conduct a deep dive into select ISA Member Countries and outline plans to design, develop and launch tools that facilitate the growth of the solar hydrogen sector and a commercial framework for developing hydrogen hubs.</p> |

- 4. Affordable and innovative financial products for mobilising solar investments:** The ISA Solar Facility for Africa, which is slated to be launched before the close of 2023, and the SolarX Startup Challenge, which will successfully be completing the first phase, focused on Africa in CY2023, will be initiatives the ISA will continue to develop, reach new regions and grow for enabling finance for solar applications.

Table 14: Proposed deliverables under affordable and innovative financial products for mobilising solar investments in CY 2024

| SI No | Deliverables | Proposed activities in CY 2024 |
|-------|--|---|
| 4.1 | Programme 2 (Affordable Finance at Scale) | <p>a. In CY 2024, the Solar Facility will become operational, with bankable projects requiring payment guarantee support from the Facility being identified for investments. Critical aspects such as the types of agreements and the kind of support required by the investors, project developers and the governments of the countries where the projects are situated will also be finessed and strengthened.</p> <p>b. Based on the experience, in CY 2024, the SolarX Startup Challenge for Asia and Pacific (with funding already secured) will be conducted on similar lines. In the subsequent year, this initiative will be replicated for the LAC region.</p> <p>c. Under these two initiatives, the ISA will conduct investor roundtable discussions to gather inputs for and mobilise the private sector to invest in solar in developing economies by addressing their concerns through a range of payment guarantee mechanisms.</p> |

- 5. Establishing networks of corporates and institutions for amplifying impact:** As the ISA continues to strengthen its relations with its Member Countries and other developmental organisations, it will continue to focus on building partnerships with financial institutions and deepening its relations with the private sector. This would become a source to support Member Countries with their pipelines of solar energy projects and help them secure debt funding at attractive rates.

Table 15: Proposed deliverables for establishing networks of corporates and institutions in CY 2024

| SI No | Deliverables | Proposed activities in CY 2024 |
|-------|------------------------------------|--|
| 5.1 | Engagement with the Private Sector | a. The ISA will strengthen its engagement with the private sector through its Corporate Advisory Group and other related activities. Periodic meetings, in the form of events, workshops, familiarisation visits and roundtable discussions, will be planned on key and emerging issues, such as solar manufacturing and supply chains, for CY2024. These efforts will also focus on mobilising finance for solar investments from private sector investors for these initiatives. |

6. **Strengthening the ISA Secretariat’s organisation, capacity, and finances:** The ISA Secretariat will be fully functional with its Staff, consultants, and secondees onboarded, in line with its new policies, in CY2024.

Table 16: Proposed deliverables for strengthening the ISA Secretariat’s organisation, capacity, and finances in CY 2024

| SI No | Deliverables | Proposed activities in CY 2024 |
|-------|--|---|
| 6.1 | Organisational structure and recruitment | a. Detailed progress update provided in working document ISA/A.06/WD.08. placed before this Assembly. |
| 6.2 | Internal processes | a. The ISA will commence using its MEL framework, specifically developed for each unit, to measure, report and track the results achieved. b. The ISA Secretariat will complete the process of digitising and creating internal dashboards for organisational and individual performance management and will start using them for all processes in 2024. |
| 6.3 | Resource Mobilisation | a. The ISA Secretariat will aim to raise USD 100 million in CY 2024 for its Global Solar Facility. |

E. Proposed Budget of the ISA for CY 2024

1. Given the strategic priorities identified under the work plan for CY 2024 and the proposed activities planned to be undertaken, it is estimated that the budget for CY 2024 would be about USD 27.38 million (including USD 12.50 million as other contributions). The comprehensive programmatic support initiatives of the ISA are expected to consume the largest share of the proposed budget. The detailed build-up of the budget for the year CY 2024 is shown in the following table:

Table 17: Proposed budget for CY 2024

| Sl. No. | Programme | Proposed Budget for 2024 (USD) |
|--------------|---|---|
| A | Programme Cost | |
| A.1 | Affordable Finance at Scale (AFS) Programme | 3,054,487 <i>(\$2.5 mn from other contributions)</i> |
| A.2 | Scaling Solar Applications for Agriculture Use (SSAU) | 272,320 |
| A.3 | Scaling Solar Mini Grids (SSMG) Programme | 335,981 |
| A.4 | Scaling Solar Rooftop (SSRT) Programme | 443,216 |
| A.5 | Scaling E-mobility and Storage (SEM&S) Programme | 343,364 |
| A.6 | ISA Programme on Solar Parks | 449,325 |
| A.7 | ISA Programme for solarising heating and cooling systems | 352,525 |
| A.8 | ISA Programme on Solar & Battery Waste Management | 236,500 |
| A.9 | ISA Programme on Solar for Green Hydrogen | 223,300 |
| A.10 | Programmatic / Project interventions to ISA Member Countries (includes Demo projects & VGF) | 7,046,000 <i>(\$5mn from other contributions)</i> |
| A.11 | Regulatory support | 440,000 |
| A.12 | STAR-C and Knowledge Management | 4,697,469 <i>(\$4 mn from other contributions)</i> |
| Sub-total | | 17,894,487 |
| B. | Communications and Outreach | |
| B.1 | Capacity Building | 757,507 |
| B.2 | Communication & Outreach | 1,091,816 <i>(\$1 mn from other contributions)</i> |
| B.3 | Secretariat support to GGI-OSOWOG initiative | 66,000 |
| Sub-total | | 1,915,323 |
| C. | Governance, Partnerships and Strategic Engagement | |
| C.1 | Governance, Partnerships and Strategic Engagement | 1,898,800 |
| Sub-total | | 1,898,800 |
| D. | Management Support | |
| D.1 | Management Support | 5,675,190 |
| Sub-total | | 5,675,190 |
| Total | | 27,383,800 |

2. At present, the ISA anticipates that sufficient funds would be available to meet the budgetary requirement of approximately USD 27.38 million for the year 2024. The availability of funds for meeting these requirements could be attributed to the increased resource mobilisation efforts being put into place. About USD 12.50 million as Other Contributions will be spent on STAR C (USD 4 million), Program 1 Solar Finance Facility (USD 1 million) & SolarX Startup Challenge (USD 1.50 million), Programmatic Intervention (USD 5 million) and Communication and Outreach (USD 1 million).
3. A major boost to the financial sustainability of the ISA has been received because of the annual funding of USD 13 million for a period of 3 years committed by the Government of India, with the first tranche of the funding coming to the ISA in 2023. This injection of funds would enable the ISA to sustain its operations as it builds its internal capacity to strengthen its processes and presence among its Member Countries.

F. Next Steps

1. The Assembly is invited to consider the updates on the work plan for CY 2023 and approve the revised budget of USD 16.06 million for CY 2023.
2. The Assembly is invited to consider and approve the proposed work plan and budget for CY 2024.
