



## From the Interim Director General, ISA



**H. E. UPENDRA  
TRIPATHY**

*Interim Director General,  
ISA*

As the rest of the world is coming together for the 23<sup>rd</sup> round of climate negotiations at Bonn, Germany, so is the International Solar Alliance, with progress to report on a number of initiatives this year.

The total count of ISA member countries has increased to 44, with 15 new member countries having ratified the ISA Framework Agreement this past quarter.

The Foreign Minister of the Republic of Guinea on 6 November 2017 submitted

the formal instrument of ratification, making the Republic of Guinea, the 15<sup>th</sup> country to ratify the Framework Agreement. The Framework Agreement will enter into force on 6 December 2017, making ISA a treaty-based intergovernmental international organisation, thirty days post the deposit of the fifteenth ratification agreement, in accordance with Article XIII (1) of the ISA Framework Agreement.

One of ISA's key tasks at COP this year is to generate awareness about ISA and its activities, and ensure broader participation from countries with the aim to help achieve ISA's stated objectives.

Apart from continuing to work on the three work programmes on Scaling Solar Applications for Agricultural Use, Affordable Finance at Scale, and Scaling Solar Mini Grids, ISA has charted its way forward on a number of other fronts. A major highlight was the joint declaration signed between ISA and the European Investment Bank (EIB) during the EU-India Summit held on 6 October 2017 in New Delhi, India. Also on 2 November 2017, the European Bank for Reconstruction and Development (EBRD) entered into a financial partnership deal with ISA. The ISA Interim Secretariat is presently working on various work programme proposals which are likely to be announced in the next quarter.

ISA is partnering with the Ministry of New and Renewable Energy, Government of India for the Global RE-INVEST. ISA, in partnership with the Ministry of New and Renewable Energy, Government of India, and the Confederation of Indian Industry, is also organising a curtain raiser for the Founding Ceremony on 13 November 2017 at the India Pavilion in the Bonn Zone, at COP23. We look forward to welcoming all of ISA's present and prospective member countries, and facilitating collaborations to take us closer to achieving ISA's goals. Having attained the requisite 15 ratifications, ISA is also planning to observe its founding day soon.

### Countries that have signed and ratified the ISA Framework Agreement



### ISA Framework Agreement signatory countries:

- |                                 |                                      |
|---------------------------------|--------------------------------------|
| 1. Commonwealth of Australia    | 23. Liberia                          |
| 2. Bangladesh                   | 24. Madagascar                       |
| 3. Benin                        | 25. Republic of Malawi               |
| 4. Brazil                       | 26. Mali                             |
| 5. Burkina Faso                 | 27. Mauritius                        |
| 6. Cambodia                     | 28. Nauru                            |
| 7. Costa Rica                   | 29. Niger                            |
| 8. Democratic Republic of Congo | 30. Nigeria                          |
| 9. Comoros                      | 31. Peru                             |
| 10. Cote d'Ivoire               | 32. Republic of Rwanda               |
| 11. Djibouti                    | 33. Senegal                          |
| 12. Dominican Republic          | 34. Seychelles                       |
| 13. Ethiopia                    | 35. Somalia                          |
| 14. Equatorial Guinea           | 36. South Sudan                      |
| 15. Fiji                        | 37. Sudan                            |
| 16. France                      | 38. Tanzania                         |
| 17. Gabonese Republic           | 39. Tonga                            |
| 18. Ghana                       | 40. Togolese Republic                |
| 19. Republic of Guinea          | 41. Tuvalu and                       |
| 20. Guinea Bissau               | 42. United Arab Emirates             |
| 21. India                       | 43. Vanuatu                          |
| 22. Republic of Kiribati        | 44. Bolivarian Republic of Venezuela |

## Meanwhile in the world of solar...

- Renovagen, a company based out of the United Kingdom, that specialises in solar energy, has created a new system of solar panels called 'Rapid Roll' that is portable and easy to use. The panels are easy to roll out of a truck or trailer and the goal of the company is to make them accessible to areas in need of power quickly, specifically those damaged by natural disaster.
- Researchers at the Swiss Federal Institute of Technology in Zurich have developed a new form of ultra-thin, curved roofing that is capable of producing solar power. The design will allow a residential structure to generate more energy than it consumes. The roof is made up of several layers – an inner sheet of concrete acting as a foundation for heating, and cooling coils and insulation which are in turn covered by more concrete. Thin-film photovoltaic cells used to harvest solar energy are then installed on the exterior of the building.

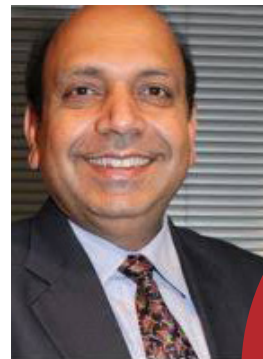
*"Concerted actions undertaken in the context of the Alliance should focus on realising the objectives enshrined in the Paris Declaration, which included: bringing our efforts together to reduce the cost of finance for solar energy and mobilise up to US\$ 1000 billion investments by 2030, and: developing new, cost efficient and reliable solar technologies and applications."*



*"India is confident about achieving its renewable energy targets. Efficiency of solar panels has increased to 30% and it will increase further - that is the future."*



**MR. R. K. SINGH**  
Union Minister of State  
(I/C) for Power, and New  
and Renewable Energy



**MR. ANAND KUMAR**  
Secretary, Ministry of  
New and Renewable  
Energy, Government of  
India

*"ISA is a reflection of our common desire to significantly augment solar power generation in our countries, and make joint efforts towards technology development and mobilization of the required investment to promote energy security and universal energy access."*

### MRS. SÉGOLÉNÉ ROYALE

Ambassador for the Arctic & Antarctica Poles and Special Envoy for the implementation of the International Solar Alliance, Government of France

## 5<sup>th</sup> ISA Steering Committee Meeting was held on 25 September 2017 in New Delhi, India



▲ 5<sup>th</sup> ISA Steering Committee meeting, chaired by Mr. Anand Kumar, Secretary, Ministry of New and Renewable Energy, Government of India and co-chaired by Mrs Ségoléné Royale, Ambassador for the Arctic & Antarctica Poles, and Special Envoy for the Implementation of the International Solar Alliance, Government of France.



▲ Representatives of the Governments of Fiji, Niger and Tuvalu deposited the instruments of ratification of the Framework Agreement of the International Solar Alliance at the 5<sup>th</sup> meeting of the International Steering Committee, with Mr. K Nagaraj Naidu, Joint Secretary, Ministry of External Affairs, Government of India.



## Member Country Spotlight: Chile

Chile has abundant renewable energy resources such as wind, solar, biomass, hydro and geothermal.

Since 2008, the Government of Chile has been assigning priority to the expansion of renewable energy. Chile defined a target to generate 90% of its electricity from renewable sources by 2050. This is reflected by the large number of solar energy projects that have entered the Environmental Evaluation System. The attractiveness of the renewable market has made the energy sector, the sector with the highest investment rate in Chile for the last two years. According to the Energy Finance Climascopes 2015 prepared jointly by Bloomberg New Energy Finance and the Inter-American Development Bank, Chile ranks third in renewable energy investment attractiveness.

By October 2017, Chile had exceeded all expectations, with an encouraging pipeline of 31 renewable energy projects declared under construction. By March 2024, these projects are expected to inject at least 1926 MW to the grid. Moreover, 91 renewable energy projects were under environmental evaluation as of June 2016, equivalent to 8,815 MW and USD 25,677 million investment. During 2016, the government assigned over USD 9 million of the public budget to promoting the development of renewable energy projects.



**MR. ANDRÉS REBOLLEDO**  
Chilean Energy Minister

*"In the last four years, Chile has embarked on an energy transition that has changed our generation matrix, making it more sustainable, clean, economical and friendly with our environment. We are living an important energy revolution."*



**MR. ANDREW MCDOWELL**  
Vice President, EIB

*"This new agreement reflects our shared commitment to successful implementation of the Paris Climate Agreement and ensuring that solar rich economies can harness solar power to increase supply of affordable clean energy."*

## European Investment Bank signs partnership pact with ISA

A solar energy joint declaration was exchanged between Andrew McDowell, Vice President, European Investment Bank (EIB) and Shri Upendra Tripathy, Interim Director General, Interim Secretariat of ISA at the 14<sup>th</sup> India European Union Summit in the presence of Shri Narendra Modi, Hon'ble Prime Minister of India, Mr. Donald Tusk, European Council President and Mr. Jean-Claude Juncker, European Commission President.

In its cooperation with ISA, EIB will mobilise financing for development and deployment of affordable solar energy in ISA member countries.

## Updates from ISA Work Programme: Affordable Financing at Scale

17 participating countries: Argentina, Bangladesh, Burkina – Faso, Chad, Ethiopia, France, India, Ivory Coast, Mali, Namibia, Niger, Nigeria, Seychelles, Sri Lanka, Sénégal, Uganda and Yemen

- Model need-assessment questionnaire has been developed for evaluation of requirements of ISA member countries
- 15%-20% of the USD 10 Billion line of credit operated by India in Africa earmarked for undertaking solar projects on ISA's request
- Joint Declaration between ISA and the EIB has been signed during the EU-India Summit
- ADB has agreed to explore financing of USD 500 million for ISA programmes
- Common Risk Mitigation Mechanism (CRMM) study for solar power generation projects in solar rich countries, continues
- ISA has invited ADB, NDB, AIIB, AfDB, Inter-American Development Bank, EIB, IsDB, GCF, etc. to strive for the creation of a global risk mitigation fund of USD 300 Billion over ten years that can be used to create innovative financial mechanism in ISA countries (credit risk guarantee fund, mechanism to reduce the cost of hedging, first loss facility, security payment mechanism, etc.)



### In the Pipeline..

Work Programme on Rooftop Solar: A proposal to launch a work programme on rooftop solar is underway. The suggestion to initiate the work programme was given by the national focal points of the countries of Sri Lanka, Seychelles, Senegal, Guinea-Bissau and Rwanda. Rooftop PV-based power generation is one of the most successful applications of solar energy in both developed and developing countries.



◀ Union Minister of State (I/C) for Power, and New and Renewable Energy, Shri R. K. Singh, met with Dr. Fatih Birol, Executive Director, International Energy Agency (IEA) on 25 October 2017 and discussed the role of ISA in bringing about transformative global change in the solar energy market.

## The SunPedal Ride

Sushil Reddy, an IIT-Bombay alumnus, started a cause to raise awareness about solar energy and sustainable electric transportation using a medium of a solar powered electric bicycle - The SunPedal Ride. Already recognised as a Guinness and Limca Record for the longest journey on a solar powered electric bicycle, the Science and Technology division of the French Embassy supported Sushil for a ride in France in June 2017. After more than 8000 miles across India, France and the US West Coast, the SunPedal Ride aims to promote the message as much as possible in the future. Visit [www.the-sunpedalride.in](http://www.the-sunpedalride.in) for details.





## Updates from ISA Work Programme: Scaling Solar Applications for Agricultural Use

13 participating countries: Bangladesh, Mauritius, France, Senegal, Uganda, Sri Lanka, Seychelles, Guinea Bissau, Rwanda, Niger, Burkina Faso, Burundi and Mali. Sri Lanka is interested in Scaling Solar Rooftops programmes..

- Need-assessment questionnaires developed for solar water pumping system (SWPS) and solar street lighting system (SSLS), which has been circulated to all participating and ISA signatory countries
- From the inputs received, a preliminary assessment on requirement of SWPS and SSLS completed
- ISA to go for price discovery tender for aggregated demands (globally / continent wise) for 500,000 solar pumps
- Several rounds of video conferencing between National Focal Points organised

## The European Bank for Reconstruction and Development (EBRD) partners with ISA

On 2 November 2017, EBRD signed a deal with ISA in the presence of Shri Arun Jaitley, the Indian Union Minister of Finance and Corporate Affairs, H.E. Mr Alexandre Ziegler, Ambassador of France to India, Shri Anand Kumar, Secretary, Ministry of New and Renewable Energy, Government of India, and Sir Suma Chakrabarti, EBRD President, to help fund its various initiatives in the solar energy sector. Shri Upendra Tripathy, Interim Director General, ISA and Ms. Nandita Parshad, Managing Director, Energy and Natural Resources, EBRD signed the declaration. It will further contribute to ISA's end goal of mobilising more than USD 1 trillion in investments by 2030, to drive massive deployment of affordable solar energy.



## ISA Monthly Get-Togethers

The ISA Interim Secretariat organises monthly get-togethers of all ISA member countries and stakeholders on every third Wednesday of the month. The sixth monthly get-together was organised on 18 October 2017 at the ISA Headquarters in Gurugram. At this event, H.E. Ms. Ebyan Mahamed Salah, Ambassador of Federal Republic of Somalia to India handed over the Instrument of Ratification to the ISA Framework Agreement to Shri Dinesh Chandra Sharma, Special Secretary, Department of Economic Affairs, Ministry of Finance, Government of India.



## ISA at the India Power Conclave

The business news channel, CNBC TV 18, organised the India Power Conclave in New Delhi on 22 September 2017. During the conclave, H.E. Shri Upendra Tripathy, Interim Director General of ISA, discussed ISA's progress on various programmes with Ms. Kanika Chawla of the Council on Energy, Environment and Water (CEEW). During the discussion, Shri Tripathy focused on the potential of ISA to spearhead the renewables revolution globally and mobilise the finance needed.



## Upcoming Events

### Bonn 2017 UN Climate Change Conference from 6 - 17 November 2017

- Common Risk Mitigation Mechanism Showcase on 7 November at the Fiji Pavilion, Bonn Zone
- Lights for Development and Innovating for Access to Energy on 10 November at the French Pavilion, Bonn Zone
- Island States on 12 November at the French Pavilion, Bonn Zone
- Curtain raiser event for the ISA Founding Ceremony on 13 November at the India Pavilion, Bonn Zone

### World Future Energy Summit in Abu Dhabi, United Arab Emirates, from 15 - 18 January 2018

## Welcome to the Team



### Cécile Martin-Phipps

Director, Strategy, Communications and Operations, ISA Secretariat. Previously, Cécile worked with the French solar street lighting company, Sunna Design, as Project Manager-International funding institutions.



### Aïssatou Sonko Mbengue

Intern at ISA Secretariat from August 2017



### Macarena Jimenez Romero-Mazariegos

Intern at ISA Secretariat from October 2017

## ISA in the press



### THE TIMES OF INDIA

### French President Emmanuel Macron to visit India in Dec to launch solar alliance

TNN | Oct 12, 2017, 10:26 PM IST

NEW DELHI: French President Emmanuel Macron and Prime Minister Narendra Modi will in December share their sunshine moment in India to formalise the International Solar Alliance (ISA), giving a boost to RE-invest 2017, the bi-annual global investor conference, where New Delhi is expected to leverage its leadership position in green energy for investments.

Macron will be in Delhi from December 8 to 10 and hold official talks with PM Modi, France's ambassador to India Alexandre Ziegler said on Thursday. This will be the second meeting between the two leaders since...



Politics Business/Economy Social/Society Sports

### The Solar Alliance Opens New Opportunities for Ghana



Expensive replaced w today's rea agreement

The Ghana Agency, si significantly production.

benefit from the agreement as well. Moreover, the count power. The solar energy will be introduced in public esta Press Agency, 36,000 Junior High Schools and 681 Sen functioning on the solar power from now on.

### BusinessLine

### International Solar Alliance may launch insurance for projects in December

Ksenia Kondratieva Mumbai, October 16:

The International Solar Alliance (ISA) may launch an insurance mechanism aimed at lowering the risk solar power in December.

"There could be insurance for risks and to bring down the cost of capital," Upendra Tripathy, Interim

## ISA Partner Organisations

As per Article VIII of the ISA Framework Agreement, Partner Organisation status may be granted by the Assembly to organisations that have the potential to help ISA to achieve its objectives, including regional inter-governmental economic integration organisations constituted by sovereign States and at least one of which is a member of ISA. Therefore, the main focus in selecting partner organisations will be the synergies in the partnership, which will help realise the goals set in the Paris Declaration and also in the ISA Framework Agreement. ISA values partnerships as mutually empowering relations which help both ISA and the partnering organisation in achieving their stated objectives. A partnership needs to be based on mutual growth, organisational development, institutional strengthening and redoubling actions of both the organisations. Interested organisations may submit their applications to the ISA Interim Secretariat in the prescribed format given on the ISA website. Further, partnerships to be concluded in the context of a specific programme are taken by countries participating in the programme, with the approval of the Secretariat.



### Interim Secretariat

### INTERNATIONAL SOLAR ALLIANCE

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