





About

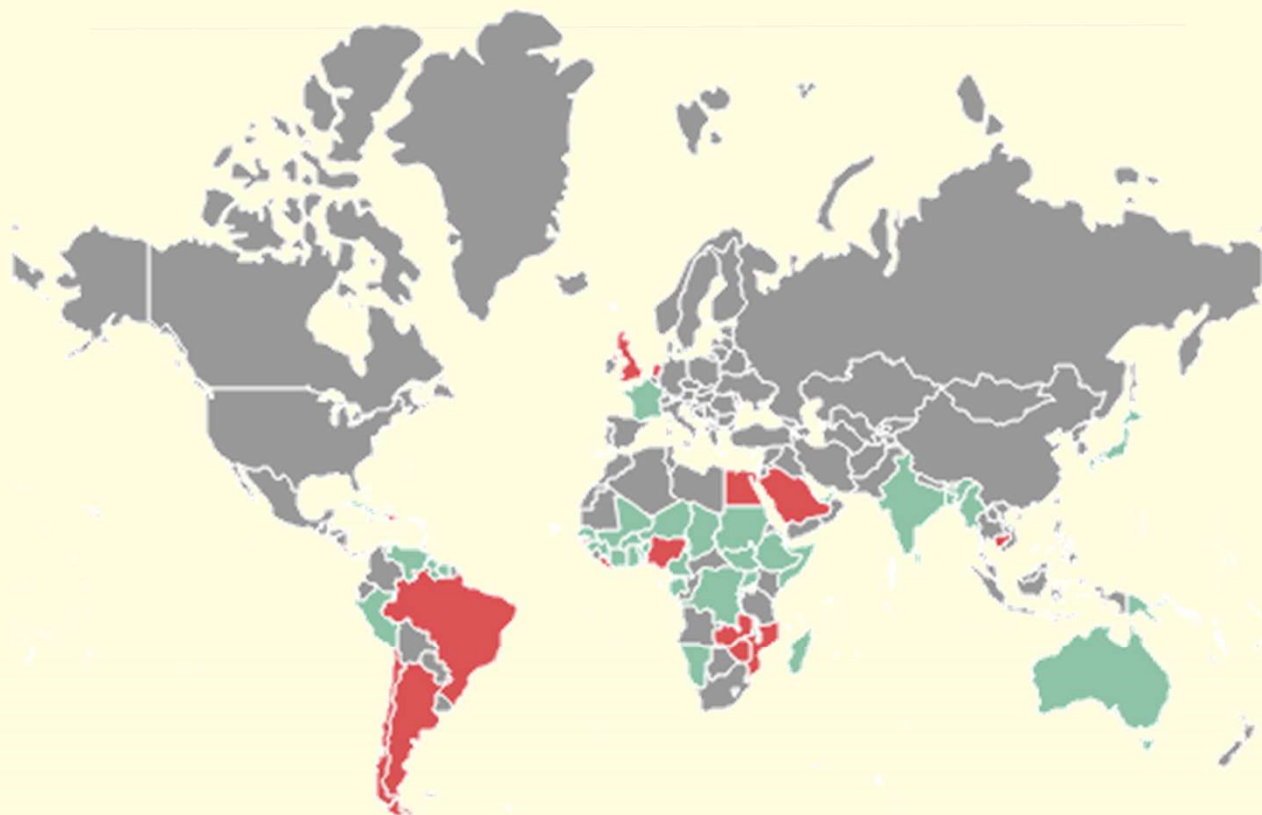
VISION

To make a positive contribution by the global community to assist and help achieve the common goals of increasing the use of solar energy in meeting energy needs of prospective ISA member countries in a **safe, convenient, affordable, equitable and sustainable** manner.

MISSION

To provide a dedicated platform for cooperation among solar resource rich countries with an ambition to undertake joint efforts required to reduce the cost of finance and the cost of technology, mobilize more than **US \$ 1000 billion** of investments needed by **2030** for massive deployment of solar energy, and pave the way for future technologies adapted to the needs,

Countries



● Signed ● Ratified

List of the Member countries

Australia, Bangladesh, Benin, Burkina Faso, Cameroon, Chad, Comoros, Côte d'Ivoire, Cuba, Democratic Republic of Congo, Djibouti, Dominica, Equatorial Guinea, Ethiopia, Fiji, France, Gabon, Ghana, Grenada, Guinea, Guyana, India, Japan, Kiribati, Malawi, Madagascar, Mali, Mauritius, Myanmar, Namibia, Nauru, Niger, Papua New Guinea, Peru, Rwanda, Sao Tome and Principe, Senegal, Seychelles, Somalia, South Sudan, Sri Lanka, Sudan, Suriname, Togo, Tonga, Tuvalu, Uganda, United Arab Emirates, Vanuatu, Venezuela, Zimbabwe

Objective

To work together towards the deployment of appropriate benchmarks, facilitating resource assessments, supporting R&D and demonstration facilities, encouraging innovative and affordable applications of solar technologies.

Key Focus Areas

- ⇒ Promote solar technologies, new business models and investments
 - ⇒ Facilitate capacity building for promoting solar technologies
 - ⇒ Formulate projects and programmes
 - ⇒ Develop innovative financial mechanism
 - ⇒ Build a common knowledge e-portal
- 



The Journey so far

Programmes



Scaling up solar decentralized applications for agricultural use



Scaling up solar mini-grids



Scaling-up solar rooftop



Scaling up solar e-mobility and storage



Affordable finance at scale: Establish new financial mechanisms to reduce cost of capital



Infopedia - Communication



STAR-C : capacity-building, research, innovation and entrepreneurship



6 Global Task forces to promote the implementation of the programmes, goals and objectives

Infopedia

An online platform dedicated to the dissemination of information, best-practices and knowledge on Solar Energy:

- To be completed by June 2019
- Launch in October 2019
- Supported by the European Union



Project funded by
The European Union



- **Country counters** : A dedicated space on the Online Platform for each Member Country to present the most complete solar energy profile



- **Solar Information Hub** ; Aggregating solar projects in a central database for best practice sharing among Member countries



- **Solar Academy**: A full-fledged Learning Management System allowing ISA and its partners to create and host courses on solar technology



- **ISA Communication Tools** : Tools and methodologies to facilitate communication among Member countries



- **Solar Directory**: An self-registration directory for the Solar Industry, NGOs, Research Centers and Financing institutions

India

Solar power in India is a fast developing industry. The country's solar installed capacity reached 20 GW in February 2018. India expanded its solar generation capacity 8 times from 2,650 MW on 26 May 2014 to over 20 GW as on 31 January 2018. The 20 GW capacity was initially targeted for 2022 but the government achieved the target four years ahead of schedule. The country added 3 GW of solar capacity in 2015-2016, 5 GW in 2016-2017 and over 10 GW in 2017-2018, with the average current price of solar electricity dropping to 18% below the average price of its coal-fired counterpart.

In January 2015 the Indian government expanded its solar plans, targeting US\$100 billion in investment and 100 GW of solar capacity (including 40 GW from rooftop solar) by 2022. India's initiative of 100 GW of solar energy by 2022 is an ambitious target, since the world's installed solar-power capacity in 2017 is expected to be 303 GW. The improvements in solar thermal storage power technology in recent years has made this task achievable as the cheaper solar power need not depend on costly and polluting coal/gas/nuclear based power generation for ensuring stable grid operation.

With about 300 clear and sunny days in a year, the calculated solar energy incidence on India's land area is about 5000 trillion kilowatt-hours (kWh) per year (or 5 TWh/yr). The solar energy available in a single year exceeds the possible energy output of all of the fossil fuel energy reserves in India. The daily average solar-power-generable capacity in India is 0.20 kWh per m² of used land area, equivalent to 1400-1800 peak (rated) capacity operating hours in a year with available, commercially proven technology.

NFP Details:
Dr. P. C. Mathani
Advisor
Ministry of New and Renewable Energy
Government of India
Tel: +91 11 24361830
Email: pcmathani@nre.gov.in

Photovoltaic Map Global Horizontal Irradiation Map Direct Normal Irradiation Map

Best Practices Policies News Tenders Useful Contacts

Best Practices Manual for Implementation of State-Level Rooftop Solar Photovoltaic Programmes in India

STAR-C programme

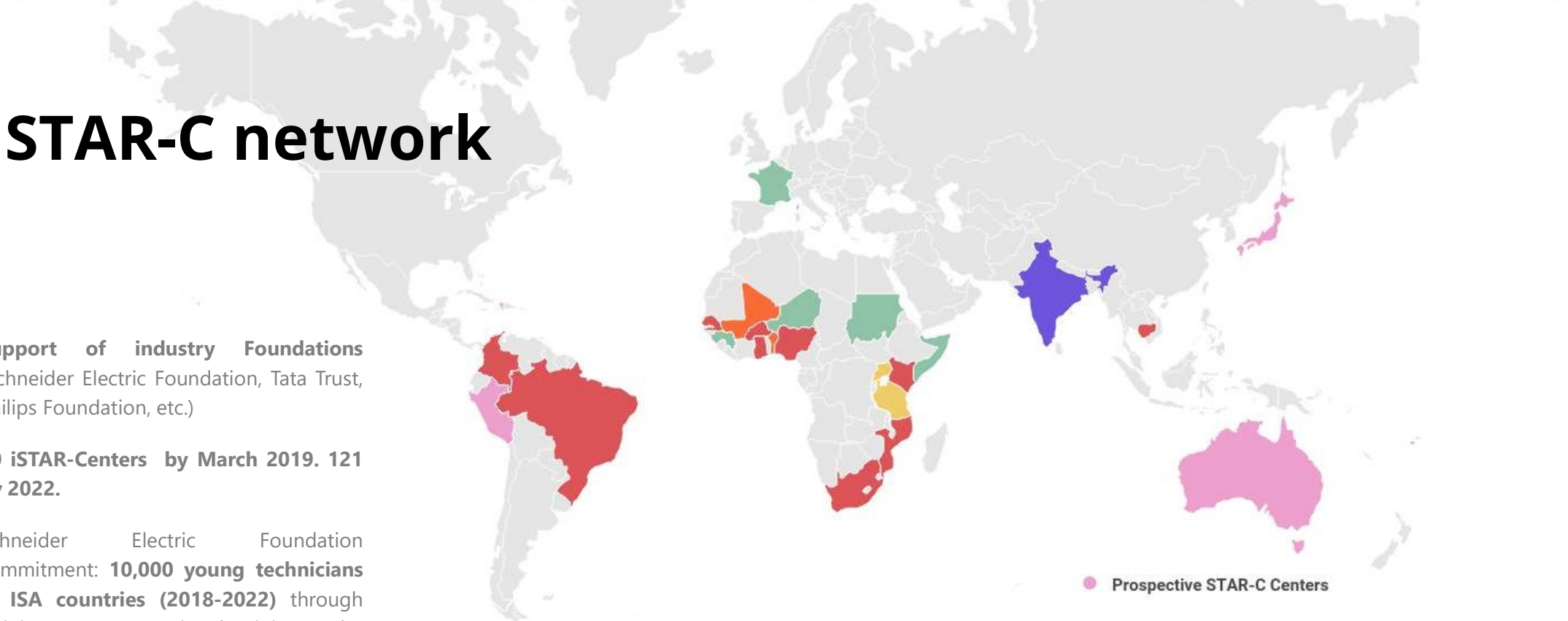
The goals of STAR-C include the following:

- To build a network of training / R&D / Standardization / Technical STAR-centers working on solar energy
- To develop and disseminate training programs (online and in-personne) for all solar energy stakeholders (technicians, trainers, project developers, engineers, policy makers, etc).
- To provide testing and technical certification capabilities to key STAR-centers.





STAR-C network



● Prospective STAR-C Centers

Support of industry Foundations
(Schneider Electric Foundation, Tata Trust, Philips Foundation, etc.)

50 iSTAR-Centers by March 2019. 121 by 2022.

Schneider Electric Foundation commitment: **10,000 young technicians in ISA countries (2018-2022)** through training centers (vocational training / solar technicians)

Trainings

<https://solaracademy.isainfopedia.org>



- **INES - French National Institute of Solar Energy** : 6 modules / 16 e-learning training sessions on solar energy
- **NISE – Indian National Institute of Solar Energy and Ministry of External Affairs, GoI : ITEC programme in Solar Energy for Master Trainers from ISA Member Countries**: 165 professional trained by March 2019. More information : www.itecgoi.in
- **Australian Government + Clean Energy Solutions Center** : 8 Modules / 45 e-learning training sessions on solar energy and finance for policymakers
- **Indira Gandhi National Open University** : Developed an e-learning training module on solar water pumping for the ISA Member Countries. More information : <https://swayam.gov.in/courses/5187-awareness-programme-on-solar-water-pumping-system>
- **More to come**

Trainings: on-going projects



- EACREEE (<https://www.eacreee.org/>):
 - Conduct a 5-year project in cooperation with ISA and UNIDO on Standalone Solar PV capacity-building in East Africa in order to create an “East African Solar Energy Academy” delivering trainings in EAC Partner States
 - Review of the existing solar PV training curriculum in the East African region and beyond



- AFD (<https://www.afd.fr/en/>):
 - The AFD will support the organization of a training conference on solar energy to the 53 African utilities in Fall 2019 in Marrakech



Capacity-building: on-going projects

- **ISA Kalpana Chawla Solar Award:** Government of Haryana, a province of India has sanctioned an amount INR 10 crore (1 358 250 USD) for instituting an award to researchers working in the solar energy specialization
- **ISA Equinox circle:** the **CESC** is providing access to its “**Ask-an-Expert**” service in order to deliver technical support and expertise on the drafting and design of solar projects for the benefit of governments and affiliated agencies.
⇒ More information : <https://cleanenergysolutions.org/expert/profiles/renewable-energy>
- **ISA Solar Fellowship for Midcareer Professionals:** 20 professionals working in the field of Solar Energy technology will be selected to pursue 2 year Master’s Programme in the field of solar technology, management and economics at IIT Delhi.





**KEEP
CALM
AND
GO
SOLAR**

Cécile Martin-Phipps

Director Communication and Strategy

Cecile.martinhipps@isolaralliance.org

