



EU-India Clean Energy and Climate Partnership Roadshow on Renewable Energy

Background

The European Union (EU) – India Clean Energy and Climate Partnership (CECP) (<https://www.cecp-eu.in/>) was agreed at the EU-India Summit on 30th March 2016. The aim of this partnership is to reinforce cooperation on clean energy and implementation of the Paris Agreement by strengthening joint activities for deployment of climate friendly energy sources including in the areas of energy efficiency, renewable energy, smart grids, storage, sustainable finance, and climate mitigation and adaptation between EU and India. Several companies in India are now aiming at reducing their carbon footprint, however those involved confirm that net zero is easy to say but hard to do. In addition, the EU-India Connectivity Partnership¹ emphasizes the need to promote a market-driven transformation towards reliable and sustainable solutions and encourage private sector cooperation between both sides through EU and Indian business networks for enabling private investment and developing global and regional value chains.

The EU has put in law its objective to be carbon neutral by 2050 and to reduce net greenhouse gas emissions by at least 55% by 2030, compared to 1990 levels. With the objective to identifying and supporting opportunities for EU business engagement in India and laying the framework for future pilot projects in India, the EU-India Clean Energy and Climate Partnership Project is organizing a series of virtual roadshows in April and May 2022.

The roadshow will identify EU technologies in the sectors of renewable energy and energy storage, and will offer EU companies the possibility to showcase their technologies to Indian Industry. The roadshow will also offer opportunity to mobilise key EU and Indian business innovators creating low-emission technologies and service providers to collaborate.

The roadshows will focus on four key clean energy technologies in specific state (s), with an idea to bring together the stakeholders on the clean energy areas aligned to the profile and need of the state. The four technologies include wind energy (including offshore wind), solar energy (utility scale projects, and solar parks, rooftop solar, floating solar and solar thermal), storage technologies (including green hydrogen) and Distributed Renewable Energy (DRE) technologies. The states are Gujarat and Tamil Nadu for wind energy, Rajasthan for solar energy, Karnataka for storage technologies and Maharashtra for DRE.

- **Roadshow 1 on “Wind energy, particularly Offshore wind” with Gujarat and Tamil Nadu** – Gujarat and Tamil Nadu are the leading states in India in terms of wind energy capacity installations. Further, the two states together have an estimated wind energy potential of over 200GW (for wind energy projects at 120 meters height above ground level) which can contribute considerably to India’s clean energy drive. However, the current achievement is limited to 10% of this potential (about 19GW), and thus present a potential market for EU companies. Further, the two states combined, with an estimated potential of 71GW, are expected to lead the way in offshore wind energy as well, where the sector is yet to see any commercial installations. The Ministry of New and Renewable Energy (MNRE) has come up

¹ <https://www.consilium.europa.eu/en/press/press-releases/2021/05/08/eu-india-connectivity-partnership-8-may-2021/>, accessed on January 05, 2022



with a number of initiatives in the two states. This includes pre-feasibility studies, assessment of supply chain, port and logistics, grid integration, detailed feasibility reports, etc.

The EU and India have been closely cooperating in the area of offshore wind, including through the EU funded projects [Facilitating Offshore Wind in India \(FOWIND\)](#) and the [First Offshore Wind Project of India \(FOWPI\)](#), an [offshore wind study tour to Europe](#) and several smaller studies.

- **Roadshow 2 on “Solar energy technologies with Rajasthan”** – The focus of this roadshow will be on solar energy covering multiple technologies such as utility scale projects and solar parks, rooftop solar, floating solar and solar thermal. The state of Rajasthan leads the solar energy installations in the country with about 8GW capacity and has the potential to host about 142GW capacity installations. Further, the state hosts one of the largest solar parks in India at Bhadla, which has established the technical feasibility of large-scale solar projects at one location and has also helped realise low tariffs for the technology. In addition, the state has also witnessed investments and installations from a number of large-scale project developers. Thus, the state presents a potential state for the EU technology providers and investors to plan collaboration in the area of solar energy.
- **Roadshow 3 on Distributed Renewable Energy (DRE) technologies with Maharashtra** – The DRE technologies have an important role to contribute to ensure the reach of clean energy to every round and corner. The Government of India has also emphasised upon adoption of DRE technologies through draft policy framework for developing DRE for livelihood applications and with the PM-KUSUM scheme for solarising the agriculture feeders and adoption of solar pumps. Maharashtra is one of the leading industrial states in India yet has a high population which depend upon DRE technologies for domestic and commercial applications. In various parts of the state, a lot of DRE technologies in form of solar pumps, solar cold storage units, etc. have been implemented to provide access to clean energy. Further, the state is also promoting solarisation of pumps, feeders, etc. with distribution company led schemes. In addition, the state has a strong base of companies operating in the DRE sector, which could be important for collaboration with the EU companies.

The session will also share the lessons of the activities undertaken by the EU with the Government of India. This includes working with the MNRE and the Solar Energy Corporation of India (SECI) in 16 states in India on solar parks, research and innovation in solar thermal, enhancing solar rooftop uptake with innovative EU business models.

- **Roadshow 4 on Storage technologies with Karnataka** – With an increasing penetration of renewable energy technologies in the energy mix, the storage technologies are expected to contribute considerably to improve the continuous and firm supply of electricity. Recently, the Government of India has highlighted the role energy storage can contribute to various applications such as industries, electricity generation, mobility, etc. and thus, has also witnessed increasing interest from the stakeholders. The recent tender on Advanced Chemistry Cell (ACC) batteries to avail Production Linked Incentive (PLI) received overwhelming response, highlight the interest of the stakeholders to domestically manufacture and deploy energy storage systems in stationery and mobility applications. Besides, green hydrogen has witnessed keen interest from the stakeholders to replace the existing grey hydrogen usage across industries and promote adoption of clean energy. Further, the government and private sector companies, along with research institutions are working on increasing the base of green hydrogen and reduce the production cost. The state of Karnataka



would be ideal to undertake this roadshow as it houses one of the largest base of industries in India. The state has industries spanning across sectors such as manufacturing, automobile, Information Technology, healthcare, hospitality, textile, chemicals, etc. with representations from all the leading industrial houses in India which can potentially adopt storage solutions and green hydrogen. The state also has a large base of companies involved in storage technologies and thus would present an opportunity for the EU companies to explore possible collaboration.

Format for the roadshow:

The roadshow will have a duration of 2.5 hours, comprising of opening/closing remarks, keynote address, technology PPTs and Q&A from participants.



AGENDA

EU-India Clean Energy & Climate Partnership Roadshow on “Wind energy, particularly Offshore wind” with Gujarat and Tamil Nadu

Date: 21st April 2022 (Thursday)

Time: 09:00 hrs to 11:30 hrs CET / 12:30 hrs to 15:00 hrs IST

TIME (CET)	TIME (IST)	
Opening Remarks & Context Setting		
09:00 – 09:05	12:30 – 12:35	Edwin Koekkoek , First Counsellor – Energy & Climate Action, EU Delegation to India
09:05 – 09:15	12:35 – 12:45	Representative from State government – Gujarat and Tamil Nadu (10 minutes each) (TBC)
09:15 – 09:25	12:45 – 12:55	Vibhash Garg , Director, PwC and Team member- CECP <ul style="list-style-type: none"> CECP Project and Overview of EU activities in area of Off-shore wind Supply chain study for offshore wind in India Gap assessment of skills and training for off-shore wind
Keynote address		
09:25 – 09:35	12:55 – 13:05	Representative from Indian wind energy industry/association – Dr. K. Balaraman, Director General, National Institute of Wind Energy (TBC)
09:35-09:45	13:05 - 13:15	Representative from Wind Europe – Giles Dickson, CEO, WindEurope (TBC)
Presentations from EU companies		
09:45 – 9:55	13:15 – 13:25	Poul V. Jensen/Joel Fernandes , Introduction of participating EU companies and briefing on B2B
09:55 – 10:05	13:25 – 13:35	IP SME Helpdesk – Presentation
10:05 – 11:05	13:35 – 14:35	5 minutes PPT from 12 companies
11:05 – 11:20	14:20 – 14:50	Q&A
11:20 – 11:30	14:50 – 15:00	Consolidation of thoughts & vote of thanks

Registration Link:

https://teams.microsoft.com/registration/i1I9e51PaUukZtji9WnB0A,U6yBzIBqP0W1iW4waAOQsg,j-0xRreIN02u21aq_EbeUw,-Uj-mP2dNkGy75EZQgHnGA,We-Ub7XLJU25jvMHFmbfQg,CpyvyP6Z-0q1zn9oHbxStA?mode=read&tenantId=7b3d528b-4f9d-4b69-a466-d8e2f569c1d0



EU-India Clean Energy & Climate Partnership Roadshow on “Solar energy technologies with Rajasthan”

Date: 27th April 2022 (Wednesday)

Time: 09:00 hrs to 11:30 hrs CET / 12:30 hrs to 15:00 hrs IST

TIME (CET)	TIME (IST)	
Opening Remarks & Context Setting		
09:00 – 09:05	12:30 – 12:35	Edwin Koekoek , First Counsellor – Energy & Climate Action, EU Delegation to India
09:05 – 09:15	12:35 – 12:45	Representative from State government (TBC)
09:15 – 09:25	12:45 – 12:55	Vaibhav Singh , Director, PwC and Team member- CECP <ul style="list-style-type: none">• CECP Project and Overview of EU activities in area of Solar• Business models for promoting rooftop solar• R&I priorities for solar thermal
Keynote address		
09:25 – 09:35	12:55 – 13:05	Sunil Bansal , General Secretary, Rajasthan Solar Association (TBC)
09:35 - 09:45	13:05 - 13:15	Máté Heisz , Director of Global Affairs, SolarPower Europe
Presentations from EU companies		
09:45 – 9:55	13:15 – 13:25	Poul V. Jensen/Joel Fernandes , Introduction of participating EU companies and briefing on B2B
09:55 – 10:05	13:25 – 13:35	IP SME Helpdesk – Presentation
10:05 – 11:05	13:35 – 14:35	5 minutes PPT from 12 companies
11:05 – 11:20	14:20 – 14:50	Q&A
11:20 – 11:30	14:50 – 15:00	Consolidation of thoughts & vote of thanks

Registration Link:

https://teams.microsoft.com/registration/i1I9e51PaUukZtji9WnB0A,U6yBzIBqP0W1iW4waAOQsg,j-0xRreIN02u21ag_EbeUw,5TAzq9nw5k6hcCJOzINkhQ,Kw7nf8p_l0uoxki8DnFmyg,Rr3xoms3rUqWghGUTozyMQ?mode=read&tenantId=7b3d528b-4f9d-4b69-a466-d8e2f569c1d0



AGENDA

EU-India Clean Energy & Climate Partnership Roadshow on Distributed Renewable Energy (DRE) technologies with Maharashtra

Date: 29th April 2022 (Friday)

Time: 09:00 hrs to 11:30 hrs CET / 12:30 hrs to 15:00 hrs IST

TIME (CET)	TIME (IST)	
Opening Remarks & Context Setting		
09:00 – 09:05	12:30 – 12:35	Edwin Koekkoek , Counsellor – Energy & Climate Action, EU Delegation to India
09:05 – 09:15	12:35 – 12:45	Vijay Singhal , Chairman & Managing Director, Maharashtra State Electricity Distribution Co. Ltd (TBC)
09:15 – 09:25	12:45 – 12:55	Vibhash Garg , Director, PwC and Team member- CECP <ul style="list-style-type: none">• CECP Project and Overview of EU activities in area of DRE• DRE financing manual
Keynote address		
09:25 – 09:35	12:55 – 13:05	Representative from Smart Power India (TBC)
09:35 - 09:45	13:05 - 13:15	Representative from EU Industry Association on DRE - David Lecoque , CEO, Alliance for Rural Electrification
Presentations from EU companies		
09:45 – 9:55	13:15 – 13:25	Poul V. Jensen/Joel Fernandes , Introduction of participating EU companies and briefing on B2B
09:55 – 10:05	13:25 – 13:35	IP SME Helpdesk – Presentation
10:05 – 11:05	13:35 – 14:35	5 minutes PPT from 12 companies
11:05 – 11:20	14:20 – 14:50	Q&A
11:20 – 11:30	14:50 – 15:00	Consolidation of thoughts & vote of thanks

Registration

https://teams.microsoft.com/registration/i1I9e51PaUukZtj9WnB0A,U6yBzIBqP0W1iW4waAOQsg,j-0xRrelN02u21aq_EbeUw,nqPBQ9LqMUePc9XN5jl4QA,89i7gDPM3kyJqdfwPSw0g,ye219BOuQEypz4Te7ql7PA?mode=read&tenantId=7b3d528b-4f9d-4b69-a466-d8e2f569c1d0

Link:



AGENDA

EU-India Clean Energy & Climate Partnership Roadshow on Storage technologies with Karnataka

Date: 6th May 2022 (Friday)

Time: 09:00 hrs to 11:30 hrs CET / 12:30 hrs to 15:00 hrs IST

TIME (CET)	TIME (IST)	
Opening Remarks & Context Setting		
09:00 – 09:05	12:30 – 12:35	Edwin Koekkoek , First Counsellor – Energy & Climate Action, EU Delegation to India
09:05 – 09:15	12:35 – 12:45	Representative from State government (TBC)
09:15 – 09:25	12:45 – 12:55	Vaibhav Singh , Director, PwC and Team member- CECP <ul style="list-style-type: none">CECP Project and Overview of EU activities in area of Storage and Hydrogen
Keynote address		
09:25 – 09:35	12:55 – 13:05	Rahul Walawalkar , President, India Energy Storage Alliance
09:35 - 09:45	13:05 - 13:15	Jacopo Tosoni , Policy Officer, European Association for Storage of Energy
Presentations from EU companies		
09:45 – 9:55	13:15 – 13:25	Poul V. Jensen/Joel Fernandes , Introduction of participating EU companies and briefing on B2B
09:55 – 10:05	13:25 – 13:35	IP SME Helpdesk – Presentation
10:05 – 11:05	13:35 – 14:35	5 minutes PPT from 12 companies
11:05 – 11:20	14:20 – 14:50	Q&A
11:20 – 11:30	14:50 – 15:00	Consolidation of thoughts & vote of thanks

Registration Link:

https://teams.microsoft.com/registration/i1I9e51PaUukZtji9WnB0A,U6yBzIBqP0W1iW4waAOQsg,j-0xRreIN02u21aq_EbeUw,hd4izT93UEmaAO0cs8Iliw,GZ81Y5vwuEe1QKgNnwqZ9w,zbd1tZGI0UuFh9ggbjN6MQ?mode=read&tenantId=7b3d528b-4f9d-4b69-a466-d8e2f569c1d0