



Office of the Principal Scientific Adviser  
to the Government of India



**INDIA-EU Trade and Technology Council (TTC)**  
**Working Group 2 on Green and Clean Energy**  
**Technologies**  
**International Workshop - Hybrid Format**

**Date: October 10-11, 2023**

**Venue: Ministry of New and Renewable Energy, Atal Akshay Urja Bhawan New  
Delhi - 110003**

## **Background**

A two-day international workshop under the India-European Union (EU) **Trade & Technology Council (TTC) Working Group 2 (WG2) on “Green & Clean Energy Technologies”** was held at Atal Akshay Urja Bhawan, Ministry of New and Renewable Energy (MNRE), New Delhi during October 10-11, 2023. The workshop was organized by the Office of Principal Scientific Adviser (PSA) to the Government of India and hosted by the Ministry of New and Renewable Energy (MNRE) in hybrid mode. The India-EU Working Group (WG2) on Green and Clean Energy Technologies, is co-chaired by the Principal Scientific Adviser (PSA) to the Government of India and the Directorate-General (DG) of Research and Innovation (R&I), EU from the European side.

## **Workshop Objective**

The 2-day India-EU TTC (WG 2) Workshop on Green and Clean Energy technologies was organised (i) to exchange knowledge and information on policy and regulatory environment; (ii) to identify the state-of-the-art technologies; (iii) to identify gaps and partners for leapfrogging; (iv) to identify mutual interest on co-develop technologies; and (v) to develop institutional collaborative programmes.

## Participation

More than 50 participants attended the Workshop (hybrid mode). Distinguished speakers from both sides presented state-of-the-art technologies and innovation in their respective areas of expertise.

## Key Takeaways

- Waste to Green Hydrogen: Potential areas of collaboration with the EU on Hydrogen Storage Safety Standards, hydrogen leakage detection sensors, development of new solutions and opportunities to convert Waste into Green Hydrogen, and hydrogen safety studies.
- Marine Plastic litter and Wastewater: Develop a unified definition and standardized methods to address plastic litter, best practice sharing on citizens' campaigns, and wastewater treatment strategies to combat the ocean plastic crisis.
- E-mobility and Circulatory Aspects of Batteries: Collaboration to set up pilot recycling plants, and research cooperation on recycling technologies of critical minerals.
- Interoperability of Charging Infrastructure: Information exchange on Grid Design and management in the context of High-Power Wireless Charging, Megawatt Charging Systems, V2X.
- Standards: Focus early on R&I and standards and co-develop a Code of Practice on Standardization.

## Gallery


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**Science, Technology and Innovation in India** @PrinSciAdvOf · Oct 10 ...

Prof. Ajay Kumar Sood, Principal Scientific Adviser to GoI @PrinSciAdvGoI delivered the Inaugural address at the opening session of the International Workshop of India-EU Trade and Technology Council (TTC) Working Group 2 on Green and Clean Energy Technologies.

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He also highlighted the vital role of the India-EU TTC collaboration in strategic coordination and engagement on trade and technology between India and Europe, underscoring the trajectory of this workshop towards knowledge enhancement and paving the way for future collaborations.

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**Ministry of New and Renewable Energy (MNRE)**  
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Dr. Monoranjan Mohanty, Adviser/Scientist 'G', Principal Scientific Adviser India gave his welcome address to the delegations from India-EU and extended thanks to all the participants and appreciated [Ministry of New and Renewable Energy \(MNRE\)](#) for organising the workshop. In his address, he talks about innovations, fundamental values, sustainable development, challenges of trusted technology, and security to encourage human-centric approach to transformation and speed up the green transition towards a zero-net social

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**Outlook Planet**  
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### India-EU Workshop On Green And Clean Energy Technologies Paves The Way For Sustainable Collaboration

BY OUTLOOK PLANET DESK | OCTOBER 13, 2023

Two-day international workshop advances India-EU partnership in green technologies, charting a path to a greener and cleaner future



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The 1st session of the "International Workshop on Green and Clean Energy Technologies" titled Waste to Green Production was chaired by Shri Arun Tripathi, Advisor, MNRE and Co-chaired by Ms Helene Chraye, Head of Unit, DG R&I Directorate – Unit on Clean Energy Transition (EU).

The eminent keynote speakers were namely: Prof. S Dasappa, Professor, IISc- Bangalore; Ms Maria Georgiadou, Senior Expert DG R&I – Directorate; Prof. (Dr.) Anuraddha Ganesh, CTO, Cummins India and Mr. Anders Ponce, Waste2Energy.

And Session Rapporteurs were namely- Ms Poulami Choudhury, RISE Fellow, MNRE and Mr Pierrick Fillon-Ashida, Head of S&T Section, EU Delegation to India.



### Ministry of New and Renewable Energy (MNRE)

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Dr Parvinder Maini, Scientific Secretary, PSA concluded the workshop by thanking the chairs, co-chairs and rapporteurs in each of the sessions. She also thanked each of the stakeholder Ministries which included @mnreindia, [Ministry of External Affairs](#) ...see more



## AGENDA

TIME	Day 1: 10 <sup>th</sup> October, 2023
11:45 am - 12:30 pm (IST)	<b>Lunch (India)</b>
12.30 - 1.00 pm (IST) 9:00 - 9:30 am (CET-Brussels)	<b>Inaugural Session</b>
2 minutes	Welcome Address: Dr. Monoranjan Mohanty, Adviser/Scientist ‘G’ Office of PSA, GoI
4 minutes	Remarks by Mr. Piyush Srivastava, JS (EW), Ministry of External Affairs, GoI
8 minutes	Remarks by Dr. Arun Kumar Tripathi, Adviser (R&D in Renewable Energy), MNRE, Government of India
8 minutes	Inaugural Address: Prof. Ajay Kumar Sood, Principal Scientific Adviser to the GoI
8 minutes	Address by Mr. Marc Lemaître, Director-General of DG Research and Innovation (R&I), European Commission, Brussels
1:00 - 3:00 pm (IST) 9:30-11:30 am (CET-Brussels)	<b>Session 1 - Waste to Green Hydrogen</b>
10 minutes	<b>Chair (India):</b> Mr Ajay Yadav, Joint Secretary, Ministry of New and Renewable Energy, (MNRE), GoI- Opening remarks
	<b>Co- Chair (EU):</b> Ms Helene Chraye, Head of Unit, DG R&I Directorate C1 – Unit on Clean Energy Transition: Closing remarks
	<b>Keynote speaker 1 (India):</b> Prof. S. Dasappa, Professor, IISc-Bangalore
15 minutes each	<b>Keynote speaker 2 (EU):</b> Ms. Maria Georgiadou, Senior Expert DG R&I – Dir C1
	<b>Keynote speaker 3 (India):</b> Prof. (Dr.) Anuradda Ganesh, Chief Technical Advisor, Cummins India
	<b>Keynote speaker 4 (EU):</b> Mr. Andres Ponce, Waste2Energy,
30 minutes	<b>Open Discussion</b>
10 minutes	<b>Closing Remarks on the Session from Co-Chair</b>
	<b>Session Rapporteurs</b> <b>India:</b> Ms. Poulami Choudhury, RISE Fellow, MNRE <b>EU:</b> Mr Pierrick Fillon-Ashida - Head of S&T Section at EU Delegation to India

3:00 – 3:30 pm (IST)	<b>Tea Break</b>
3:30 – 5:30 pm (IST) 12:00 - 2pm (CET-Brussels)	<b>Session 2: Marine Plastic litter and Wastewater</b>
10 minutes	<b>Chair (EU):</b> Ms. Szilvia Nemeth, Deputy Head of Unit, Dir B4 on Healthy Oceans and Seas – <b>Opening remarks</b>
	<b>Co-Chair (India):</b> Mr. M.V. Ramana Murthy, Scientist ‘G’, Mission Director, Ministry of Earth Sciences (MoES): <b>Closing remarks</b>
	<b>Keynote speaker 1 (India): Dr Purvaja Ramachandran, NCSCM, MoEF&amp;CC</b>
15 minutes each	
	<b>Keynote speaker 2 (EU):</b> Dr. Bert van Bavel, Coordinator of Horizon 2020 project - EUROqCHARM.
	<b>Keynote speaker 3 (India):</b> Prof. M. S. Mohan Kumar, IISc, Bengaluru (Water)
	<b>Keynote speaker 4 (EU):</b> Prof. Ricardo Beiras, Coordinator of Horizon 2020 project LABPLAS.
30 minutes	<b>Open Discussion</b>
10 minutes	<b>Closing Remarks by Co-Chair</b>
	<b>Session Rapporteurs</b> <b>India:</b> Dr. Pravakar Mishra, Scientist- G, MoES-NCCR <b>EU:</b> Mr. Bertrand Vallet, Policy Officer, DG R&I – Directorate on Healthy Oceans and Seas
05:30 pm onwards 2:00 pm (CET-Brussels)	<b>High Tea (India)</b>

**INDIA-EU Trade and Technology Council (TTC)**  
**Working Group 2 on Green and Clean Energy Technologies**  
**International Workshop**



11<sup>th</sup> October, 2023

**Venue: Ministry of New and Renewable Energy, Atal Akshay Urja Bhawan CGO Complex,  
Lodhi Road, New Delhi - 110003**

Day 2: 11 <sup>th</sup> October, 2023	
<b>TIME</b>	<b>Day 2: 11<sup>th</sup> October, 2023</b>
	Opening remarks on Day 2: Nienke Buisman, DG R&I, Head of Unit/Deputy Director, Global Approach and International Cooperation on R&I- Asia, Africa, Middle East & External Relations
12:30 – 2:30 pm (IST) 9:00 – 11:00 am (CET-Brussels)	<b>Session 3: E-mobility, circulatory aspects of batteries and Interoperability of Charging Infrastructure</b>
	<b>Session- 3a: E-mobility, circulatory aspects of batteries</b>
10 minutes	<b>Chair (India):</b> Mr. Sudhendu Jyoti Sinha, Adviser (Infrastructure, Connectivity & E-mobility), NITI Aayog, GoI – Opening remarks
	<b>Co-Chair (EU):</b> Mr. Philippe Froissard, DG R&I - Head of Unit, Directorate C2 on Future Urban & Mobility Systems: Closing remarks
15 minutes each	<b>Keynote speaker 1 (India):</b> Mr. Ajoy Raychaudhuri, Battery and Recycling Foundation International
	<b>Keynote speaker 2 (EU):</b> Mr. Johan Blondelle, DG R&I, Policy Officer in C2
	<b>Keynote speaker 3 (India):</b> Mr. Sushant Naik - SIAM & Tata Motors
	<b>Keynote speaker 4 (EU):</b> Mr. Jan Tytgat, Director Government Affairs EU, Umicore
30 minutes	<b>Open Discussion</b>
10 minutes	<b>Closing Remarks by the Co-Chair</b>
	<b>Session Rapporteurs 3a:</b> India: Mr. Gaurav Kishor Joshi, Dy. Secretary, Ministry of Heavy Industry EU: Dr Vivek Dham, Policy Advisor, S&T Section, EU Delegation to India
2:30 – 3:00 pm 11:00 – 11:30 am (CET-Brussels)	<b>Tea Break</b>



3:00 – 5:00 pm 11:30 – 1:30 pm (CET-Brussels)	<b>Session- 3b: Interoperability of Charging Infrastructure</b>
10 minutes	<b>Chair (India):</b> Mr. Ashok Rajput, Member (Power System), CEA, New Delhi – Opening remarks
	<b>Co-Chair (EU):</b> Mr. Harald Scholz, Head of Mobility Lab in JRC-ISPRA- Closing Remarks
15 minutes each	<b>Keynote speaker 1 (India):</b> Mr. S.A. Sundaresan, Vice President- M/s. Ashok Leyland Ltd.
	<b>Keynote speaker 2 (EU):</b> Mr. Saki Gerassis Davite, DG MOVE, Policy Officer in Dir DDG1.B1 on Sustainable & Intelligence Transport
	<b>Keynote speaker 3 (India):</b> Sh. Abhijit Mulay, Deputy Director, Automotive Research Association of India (ARAI)

	<b>Keynote speaker 4 (EU):</b> Mr. Glenn Cezanne, Head of Public Affairs, EU at CharIN
30 minutes	<b>Open Discussion</b>
10 minutes	<b>Closing Remarks on the Session from Co-Chair</b>
	<b>Session Rapporteurs:</b> India: Mr. M. Sameer Pandita, Director, BEE, MoP, GoI EU: Mr. Tim Beerens, Policy Officer, DG MOVE, Unit International cooperations
5:00 – 5:30 pm 1:30 – 2:00 pm (CET-Brussels)	<b>High Tea and Networking</b>
5:30 – 7:00 pm 2:00 – 3:30 pm (CET-Brussels)	<b>Session 4: Standards</b>
05 minutes	<b>Chair (EU):</b> Opening remarks by Ms. Kirsi Haavisto, DG R&I - Head of Unit in Directorate C1 on Valorisation policies & IPR – Opening remarks
	<b>Co-Chair (India):</b> Mr. Pramod Kr. Tiwari, DG- Bureau of Indian Standards (BIS) – Closing remarks
15 minutes each	<b>Keynote speaker 1 (India):</b> Mr. Rajeev Sharma-Deputy Director General (Standards)
	<b>Keynote speaker 2 (EU):</b> Mr. Gergely TARDOS – Policy Officer, DG RTD, Dir E2
	<b>Keynote speaker 3 (India):</b> Prof. Chitra Rajgopal, IIT Delhi
	<b>Keynote speaker 4 (EU):</b> Mr. Ashok Ganesh, Director International Division at CEN-CENELEC
20 minutes	<b>Open Discussion</b>



05 minutes	<b>Closing Remarks by the Co-Chair</b>
	<b>Session Rapporteurs:</b> India: Dr. Ajay K Lal, Scientist ‘F’, BIS New Delhi EU: Ms. Tania Friederichs, Policy Officer, DG R&I, Global Approach, and International Cooperation
7:00 - 7:30 pm 3:30-16:00 pm (CET- Brussels)	<b>Concluding Session</b>
12 minutes	<b><i>Presentation of key takeaway:</i></b> By Dr. (Mrs.) Parvinder Maini, Scientific Secretary, O/o PSA, GoI- <b>Sessions I and III</b>
12 minutes	<b><i>Presentation of key takeaway:</i></b> By Ms. Cristina Russo, Director, Global Approach & International Cooperation in R&I, EU - <b>Sessions II and IV</b>
06 minutes	Closing Remarks by HE Hervé Delphin, Ambassador of the EU to India
	<b>Close</b>

