



Office of the Principal Scientific Adviser
to the Government of India



INDIA-EU TRADE AND TECHNOLOGY COUNCIL
Green and Clean Energy Technologies
Working Group 2 (WG2)

Concept Note

International Workshop

India-EU TTC (WG 2) Workshop on Green and Clean Energy technologies

Background

Rapid changes in the world's geopolitical environment highlight the need for an even deeper strategic partnership between India and the European Union. As vibrant democracies, open market economies and pluralistic societies India and the European Union share fundamental values and have a common interest in ensuring security, prosperity and sustainable development in a multi-polar world. Both partners also face a challenging and volatile global political, economic and security landscape. In that context, both sides emphasized the importance of the rules-based international order and full respect for the principles of sovereignty, territorial integrity, transparency, and peaceful resolution of disputes. As a result, it was agreed to establish a strategic platform to deepen bilateral relations to meet the challenges of trade, trusted technology and security to encourage human-centric approach of digital transformation and speed up the green transition towards a zero net society. This ensures the bilateral escalation of tangible results and the geopolitical importance of trade and technology to be achieved in a rapidly changing international environment, thereby promoting the global progress.

India-EU-TTC is strategic coordination and engagement on trade and technology between India and Europe. It was formally announced on 25 April 2022 after the bilateral cooperation meeting between the Hon'ble Prime Minister of India, Shri Narendra Modi and the President of the European Commission Ursula von der Leyen. Later, on February 6th, 2023, India-EU strategic engagement platform was established to promote strategic engagement between both sides.

Within the framework of the TTC, the following three working groups have been set up:

- i) Working Group (WG1) on Strategic Technologies, Digital Governance and Digital Connectivity, chaired by Secretary Ministry of Electronics and Information Technology
- ii) Working Group (WG2) on Green & Clean Energy Technologies, co-chaired by the Principal Scientific Adviser to the Government of India and DG of Directorate-General of Research and Innovation

- iii) Working Group (WG3) on Trade, Investment & Resilient Value Chains, chaired by Secretary, Department of Commerce

The TTC is scheduled to meet at least once a year, with the venue alternating between India and the EU.

The India-EU (WG2) is being chaired by Principal Scientific Adviser to the Government of India from Indian side and DG (R&I), EU from European side. The WG 2 focuses on green and clean tech technologies, including investment and standards, with emphasis on research and innovation (R&I), identifying areas of mutual interest for collaboration and implementation (e.g. clean energy, waste management, circular economy, plastic and litter in the ocean), cooperation between EU and Indian incubators, SMEs and start-ups working in these areas and building human resource capability and capacity in such technologies.

Both sides have met several times in online meetings to discuss the actions to be developed under WG2, more particularly, on 28th April 2023 to deliberate on Standards; on 3rd May 2023 to discuss on Batteries and e-Mobility; and on 3rd and 4th May 2023 to discuss on Wastewater and Plastic, and Waste to Energy, respectively. Through the series of these discussions, India and EU have converged on a Work Plan including three main actions to start with: Action 1: Tackling waste management, of water and plastic litter and waste to including for energy and marine plastic pollution; Action 2: E-mobility, battery performance and recycling and Action 3: Standards. This Work Plan was endorsed at the first Ministerial Meeting on 16th May 2023 which took place in Brussels on 16 May 2023.

The focussed objectives undertaken throughout these stocktaking activities included the outcome in the form of implementation of joint waste water treatment projects facilitating their market uptake, work on waste water to energy and waste to hydrogen, gap analysis to tackle marine and plastic litter pollution, knowledge share on circularity aspects of batteries as well to recover raw materials. This will also include the development of standards to ensure interoperability, renewable and green hydrogen. To take these activities forward, the WG 2 will first engage in Workshops to identify the gaps and the future roadmaps in the areas of Green and Clean Energy Technologies.

Organisation of Workshop

To pave the way for concrete achievements as mentioned in the TTC WG 2 Work Plan, it is proposed to hold an international workshop of two days, (i) to exchange knowledge and information on policy and regulatory environment; (ii) to identify state of the art technologies in in Green and Clean technologies ; (iii) identify gaps/green areas and partners for leapfrogging; (iv) to identify mutual interest on co-develop technologies by building on existing technologies and (v) to develop institutional collaborative programmes. The existence of standards, their relevance, technological gaps and technological evolution between the two sides will also be

analysed. It is to be understood that to achieve the above, more than one Workshop might be required, and more in depth analysis.

For this workshop, distinguished speakers from both sides will present the state-of-art technologies and innovation in their respective areas of expertise. This will include the share of technology know-how and its standards towards a regulatory environment that will govern these technologies. These presentations will be followed by a discussion with expert panellists, to further comprehend the technological gap(s) and streamline future engagements.
