



Energy storage research and development india

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Today, the Strategic Clean Energy Partnership (SCEP) Ministerial was convened by U.S. Energy Secretary Jennifer Granholm and Indian Minister of Petroleum and Natural Gas Hardeep Singh Puri in Washington D.C. The sides reviewed the initiatives undertaken across the technical pillars under the SCEP, including Power & Energy Efficiency, Responsible Oil & Gas, Renewable Energy, Emerging Fuels & Technologies, and Sustainable Growth. The ministers welcomed progress made under the partnership to drive clean energy innovation, strengthen energy security, and accelerate clean energy transitions, including through more focused efforts on clean energy manufacturing and building resilient, responsible, stable, secure and diversified supply chains.

While recognizing the need to work towards a just, orderly and sustainable energy transition, which prioritizes access to reliable, affordable, and clean energy supplies, the sides welcomed the important role that energy trade plays in supporting the national priorities of both countries.

The ministers recognized the progress the two countries have made to accelerate development and deployment of emerging clean energy technologies, advancing renewable energy deployment and reliable grid integration, promote energy efficiency, and advance decarbonization of high-emitting sectors like industry, buildings, and transport.

The ministers welcomed the formal launch of the Renewable Energy Technology Action Platform (RETAP) in August 2023, aimed at developing actionable roadmaps for hydrogen, long duration energy storage, offshore wind, and geothermal, through R& D, pilots and demonstration, and incubation-investment-industry networks. They also expressed satisfaction at the progress being made by both sides under the RETAP mechanism.

The two countries welcomed collaboration on the new National Centre for Hydrogen Safety in India and partnership on the 2nd International Conference on Green Hydrogen held in September 2024. The ministers highlighted expanded bilateral expert exchanges on clean hydrogen R& D, cost reduction efforts, and implementation of hydrogen hubs in both countries through RETAP, the public-private Hydrogen Task Force. The ministers also welcomed work on use of green hydrogen in buses, tractors and heavy equipment.

The two countries highlighted the importance of modernizing the power distribution sector to supply 24/7 reliable power to consumers, welcomed support for India's smart metering deployment, as well as expanded efforts on inverter-based resources, power market reforms, system inertia estimation, and cybersecurity.

The ministers also commended the Indian Railways (IR) efforts to achieve net zero emissions by 2030 and welcomed collaboration to support India's first round-the-clock renewable energy procurement of over 1.5 GW and development an energy efficiency policy and action plan for all railway facilities.

The two countries agreed to give an impetus to sustainable aviation fuel. In this context, the sides welcomed new engagement on sustainable aviation fuels (SAF) with an inaugural SAF workshop to support training on R& D, tax incentives, supply chain capacity building, market development, financing opportunities, fuel certification, regional and international coalition building, and facilitating commercial partnerships. The ministers also welcomed the development of two joint reports on SAF and biofuels under the Biofuels Task Force.

The two countries reiterated their commitment to enhance energy efficiency and welcomed collaboration on super-efficient appliances to improve efficiency standards, boost the deployment and manufacturing of high efficiency affordable cooling systems and promote supply chain diversification.

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