Divecha Centre for Climate Change
Indian Institute of Science
BANGALORE - 560012

DCCC Seminar

Title: "From fossil foundation to firm futures - India's path to reliable clean power"

Speaker: Dr. Anasuya Gangopadhyay, Senior Associate,
CSTEP
Date: 18th March 2026

Time: 3:30 PM to 4:30 PM

Venue: DCCC Auditorium, 2nd Floor, D314.

Coffee/Tea: 3.00 PM to 3:30 PM

Speaker Bio:

Anasuya has been applying data science and statistics to solve critical large-scale challenges in the renewable energy domain for almost a decade. She is drawn to the trans-disciplinary application of analytical skills and is passionate about developing data-driven solutions for conceptualizing policy interventions and strategies. Her research interests include data analytics, energy modeling, renewable energy, energy access, sustainability, distributed generation, energy poverty, energy management, and policy. Presently at CSTEP as a senior associate, she is working on an integrated system dynamics model (SAFARI) to formulate low carbon pathways for India. She has been leading a project titled "Budgeting for Net Zero", focusing on Firm and dispatchable Renewable Energy, offshore wind, batteries, and green hydrogen in collaboration with the International Institute for Sustainable Development (IISD).

Abstract:-

Union Budget 2026–27 marks a pivotal moment in India’s energy transition by shifting attention from renewable capacity expansion to the bigger challenge of grid integration and reliability. With 50% non-fossil installed capacity in June 2025 and an additional 34.95 GW (approx.) in FY26, India’s clean energy story is now entering its delivery phase. Firm and dispatchable renewable energy (FDRE) plants, which combine renewables with standalone storage, are one of the tools that can help in addressing the grid integration challenges. The cost gap between FDRE and new pit head coal plants has been one of the core bottlenecks that has so far slowed FDRE’s uptake. Drawing on the IISD–CSTEP report, 'Budgeting for Net-Zero', published in December 2025, the discussion highlights why FDRE’s current cost disadvantage is temporary, how system design and storage can bring in parity with coal, and why the macroeconomic gains in GDP and employment make grid-ready renewables central to India’s growth strategy.

// ALL ARE WELCOME //