

CONNECTING THE DOTS FOR ROUND-THE-CLOCK RENEWABLE ENERGY PROCUREMENT

Background

In recent years, the global energy landscape has been rapidly evolving, with a significant shift towards green and clean sustainable energy sources. For South Asian countries, this transition is both a necessity and an opportunity. System-friendly renewable energy designs are increasingly being adopted across the region to address grid integration issues while ensuring that renewable variability does not result in higher electricity supply costs. Hybrid projects, time-based delivery, and Round-the-Clock (RTC) power supply are among the solutions that policymakers, regulators, and utilities are exploring to make renewable energy procurement more competitive and reliable.

This shift in renewable energy (RE) tenders has been evident, moving from traditional solar or wind projects to hybrid models, peak power assurance, and RTC power procurement. Round-the-Clock (RTC) renewable energy procurement offers a practical solution by combining diverse renewable resources, such as solar, wind, and hydropower, with advanced storage technologies and grid management systems. This approach ensures continuous, reliable energy supply while addressing grid integration challenges and reducing dependency on fossil fuels. For example, under the MOU signed between Indian Railways and USAID, RTC power procurement is a key focus area in achieving the goal of Net Zero by 2030.

This session will explore the various aspects of RTC renewable energy procurement, focusing on design, implementation, challenges, and benefits. Participants will also learn from India's experience with RTC deployment, gaining insights that can be applied in other South Asian countries to advance their renewable energy transitions.

DATE: OCTOBER 23, 2024
TIME: 14:00 - 15:30

Session Objectives

To evaluate and explore:

- The significance of RTC RE for energy security in South Asia
- Development in the area of energy storage and its role in making renewable supply firm and reliable
- Grid integration of RTC RE and enhancing solar/wind capacity
- Procurement strategies followed for large scale RTC RE projects in India.

Agenda

14:00 – 14:05	Opening Remarks by Apurva Chaturvedi , Senior Regional Clean Energy Specialist, Indo Pacific Office, USAID/India
14:05 – 14:15	Presentation: RE RTC Procurement Planning at Scale: Insights, Approaches, and Future Directions by Manish Tiwari , General Manager, Railway Energy Management Company Ltd. (REMCL)
14:15 – 14:25	Presentation: Developers Perspective on RE RTC Design and Deployment Strategies by Sarit Maheshwari , CEO, NTPC Renewable Energy Ltd
14:25 – 15:10	Panel Discussion: South Asia Perspective of Why and How of RE RTC Planning and Deployment Moderator: Debmalya Sen , India Lead, World Economic Forum Panelists: <ul style="list-style-type: none">• Rajendra Mistry, Chief Project Officer, Gujarat Power Corporation Limited (GPCL)• Dr. Arun Kumar, Professor, Indian Institute of Technology Roorkee• Ajay Kumar Sinha, General Manager, Solar Energy Corporation of India• PNBV Chalapathi Rao, Scientist-D, Ministry of New and Renewable Energy, Government of India• Ankit Rastogi, General Manager, Renew
15:10 – 15:20	Q&A Session
15:20 – 15:30	Vote of Thanks by Atul Dhir , USAID's SAREP

