

Indian Renewable Energy
Sector

Tariff competitiveness, clean energy adoption to spark 100 GW RE capacity in C&I segment by 2030

**JUNE 2025** 



## **Agenda**















### **Highlights**

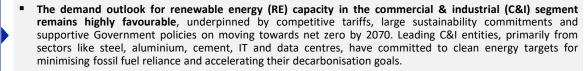




Sustainability commitments and tariff competitiveness remain the key drivers for RE growth in the C&I segment.

Assuming 20% of C&I demand is met through renewable energy by 2030, India will require ~100 GW of RE capacity.







■ With the C&I segment comprising ~45-50% of India's electricity demand, achieving 20% RE penetration over the next five years would necessitate ~100 GW of RE capacity implying a CAGR of ~30%. This marks a substantial scale-up from the current estimated open access capacity of 25-30 GW. In recent years, large RE platforms with a portfolio of more than 1.0 GW, focused on the C&I market, have emerged in the sector.



Industrial tariffs charged by discoms range between Rs. 6-8/unit across states for FY2026. In comparison, RE developers can offer 24-40% savings under the captive mode considering RE tariff of Rs. 3.5/unit. This cost advantage has been a key driver of RE capacity growth in the C&I segment. However, the recent reduction in energy charges and rise in fixed charges by Karnataka distribution utilities (discoms), if replicated across states, could dampen the competitiveness of open access RE and pose a headwind for future growth.



The segment faces regulatory risks from delays in granting open access approvals, resistance against open access in certain states and inconsistency in open access regulations across states. While the Green Open Access Rules notified in June 2022 aimed to streamline processes, uneven state implementation and the recent Karnataka High Court ruling striking down key provisions have created regulatory ambiguity. Additionally, Rajasthan's revised land registration rules are likely to raise project cost impacting viability to an extent. Consequently, cohesive policy enforcement remains crucial for sustained growth in the C&I segment.



■ ICRA's rated RE independent power producers (IPPs) in the C&I segment largely comprise investment-grade group captive projects, supported by long-term offtake agreements with creditworthy C&I off takers, demonstrated generation track record and promoters' strength. Over the years, rating upgrades have outpaced the downgrades, driven by timely execution of under-construction projects, satisfactory generation performance and favourable debt refinancing. Downgrades have been mainly due to weak generation performance and rise in leverage level.



Name	Designation	Email	Contact Number
Girishkumar Kadam	Senior Vice-President and Group Head	girishkumar@icraindia.com	022 – 6114 3408
Vikram V	Vice-President and Co-Group Head	vikram.v@icraindia.com	040 – 6939 6410
Sumit Jhunjhunwala	Sector Head and Vice-President	sumit.jhunjhunwala@icraindia.com	033 – 6521 6814
Devanshu Gupta	Senior Analyst	devanshu.gupta@icraindia.com	0124- 4545 321

















# **ICRA Business Development/Media Contact Details**

Name	Designation	Email	Contact Number
L Shivakumar	Chief Business Officer	shivakumar@icraindia.com	022-61693304
Neha Agarwal	Head – Research Sales	neha.agarwal@icraindia.com	022-61693338
Rohit Gupta	Head Business Development – Infrastructure Sector	rohitg@icraindia.com	0124-4545340
Vivek Bhalla	Head Business Development – Financial Sector	vivek.bhalla@icraindia.com	022-61693372
Vinita Baid	Head Business Development - East	vinita.baid@icraindia.com	033-65216801
Shivam Bhatia	Head Business Development – Corporate Sector - North & South	shivam.bhatia@icraindia.com	0124-4545803
Sanket Kulkarni	Head Business Development – Corporate Sector – West	sanket.kulkarni@icraindia.com	022-6169 3365
Naznin Prodhani	Head – Group Corporate Communications & Media Relations	communications@icraindia.com	0124-4545860



















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