

Ritik Anand

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PhD candidate specializing in integrated assessment modeling for energy sector across economy, and climate change policy analysis with 25+ months of think tank experience in Global South. Keen about demand-side interventions, behavioral change, sustainable development, life cycle assessment, and just transitions.

Education

Norwegian University of Science and Technology Trondheim (NTNU)	June 2026- Present
PhD in Industrial Ecology for Maritime Sector Decarbonization	
Indian Institute of Technology Madras (IITM)	Jul 2021 – Mar 2024
MS in Civil Engineering (Environmental Engineering) CGPA – 9.82/10	
Malaviya National Institute of Technology Jaipur (MNIT)	Jul 2016 – Jun 2020
B. Tech. in Civil Engineering CGPA – 8.16/10	

Work Experience

Council on Energy, Environment and Water (CEEW)	Apr 2024 – May 2026
Research Analyst in Low Carbon Economy	
- Experience with net-zero energy modelling for national and sub-national energy systems using GCAM. Authored policy brief evaluating mitigation impact of 30+ national climate policies based on 7 socioeconomic parameters. Led data collection with 10 state departments on 15 parameters and supervising interns ensuring timely delivery. Delivered 10+ presentations to 15 internal teams at organization level, translating modelling research into clear narratives.	

Internships / Academic Projects

Catalytic Pulse Power for Removal of Toxic Organic Micropollutants	Aug 2021 – Jan 2024
Designed novel reactor configuration for catalytic system; 20% efficiency improvement; 47% cost reduction (0.2 INR/m³). Analyzed and optimized the impact of 6 wastewater parameters in the reactor, resulting in 53% lower energy footprint.	
Design of 13 MLD STP at Danapur, Patna	Feb 2022 – Apr 2022
Designed 11 elements of wastewater and biosolid management system with area footprint calculations using Excel. Formulated the hydraulic profile of 9 system elements serving 85000+ residents to meet CPCB effluent norms.	
JMJ Constructions Jaipur	May 2019 – Jul 2019
- Assisted 8 structural works supervision as intern for 7-acre project area, focusing on 4 sustainable construction materials. - Coordinated and monitored 30 days of site activities, ensuring 5 quality parameters and 5 on-site testing techniques.	

Conferences / Summer Schools

16th CESE Conference, Perth, Australia	November 2023
Presented research on "Catalytic vs. Non-Catalytic Pulsed Plasma Treatment: Environment and Economics."	
1st WSCA Conference 2023, Chennai, India	October 2023
Conducted urban water security assessments and contributed to policy implications for Chennai city.	
IGCS Summer School, Berlin, Germany	July 2023
Selected in a cohort of 30 students for understanding the integration of microgrids towards carbon-neutral society.	

Publications

- Chaturvedi, Vaibhav, Anurag Dey, and **Ritik Anand**. 2024. Impact of Select Climate Policies on India's Emissions Pathway. New Delhi: Council on Energy, Environment and Water.
- Anand, R., & Philip, L.** (2024). Catalytic pulsed plasma treatment for organic micropollutants: unveiling the synergistic role of photocatalysts in radical generation and degradation mechanisms. *Environ. Sci.: Water Res. Technol.*, 10(8), 1809–1826. <https://doi.org/10.1039/D4EW00167B>

Skills Summary

Carbon & ESG: Carbon Accounting, GHG Protocol, Scope 1-3 emissions, ESG Reporting, Net-zero Strategy
Technical Skills: Python, R, Data Visualization, Energy modeling, GCAM, OpenLCA, Microsoft Office Suite
Soft Skills: Analytical research, Team leadership, Stakeholder engagement, Cross-functional collaboration, Communication

Achievements

- Won** the Bhagyalakshmi and Krishna Iyengar Award for **Best Thesis** among **300+** MS/PhD graduands class of '24 (IITM).
- Qualified** GATE 2021 in Civil Engineering. Ranked **2305** among **115k+** candidates. Score: **634/1000**.
- Achieved Elite + Gold scores** in NPTEL courses Environmental Geomechanics and Energy, Environment and Sustainability.

Position of Responsibility / Extra-Curricular Activities

- Organized 8** events as Coordinator Career Development Cell-Research (IITM) **1000+** footfall and **10 invited speakers**.
- Instructed 40 students** at Masters/PhD level for **2 courses** as Teaching Assistant at IITM (2023) and **designed 6 assignments**.
- Spearheaded** a team of **25 members** as **General Secretary, Dramatics Society**, managing **INR 450k annual budget** at MNIT.
- Developed strategies** for **4 events** team **15+ members** as **Vice President** of NGO Rotaract Club at MNIT Jaipur (2018-19).