

SANDEEP KUMAR

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 +91 8299-596269  Kanpur, Uttar Pradesh  Indian Citizen

"A transition to clean energy is about making an investment in our future."

Energy professional driving regulatory and policy reforms in India's power sector with a focus on renewables and emerging technologies. Expertise in RPO, Energy Certificates, RE procurement, power market analysis, and stakeholder engagement.

ACADEMIC QUALIFICATIONS

September 2021
August 2023



Madan Mohan Malaviya University of Technology
Master of Technology | Control & Instrumentation
Specialized in systems problem, automation, and regulatory with hands-on experience in system modeling and real-time applications.

- > Supervisor: Prof. Vinod Kumar Giri
- > Final Grade: 7.64 out of 10

September 2017
August 2020



Rajkiya Engineering College Sonebhadra | AKTU Lucknow
Bachelors of Technology | Electrical Engineering
Focused on renewable energy, power generation and transmission, system operations, and electrical analysis of power systems.

- > Final Percentage: 69.00

September 2017



Government Polytechnic College, Farrukhabad | BTE Lucknow
Diploma | Electronics Engineering

- > Final Percentage: 71.00

PROFESSIONAL EXPERIENCES

December 2024
Present



Centre for Energy Regulation & Energy Analytics Lab - IIT KANPUR
PROJECT ENGINEER

- > Worked with the Power Team at the Centre for Energy Regulation (CER), IIT Kanpur under the Department of Management Sciences (DoMS), with extensive experience in power sector regulation and policy. Skilled in regulatory compliance, data analysis, and policy research, with hands-on experience collecting and analyzing data from key portals such as CEA, CERC, SERCs, MNRE, and MoP.

Broad exposure to regulatory frameworks across the power value chain, including tariff orders for generation (both conventional and renewable), transmission, and distribution licensees. Proficient in analytics, modeling, and compliance monitoring (RPO, RE integration, etc.), with additional focus areas including Green Hydrogen, climate change policy, energy transition, and financial/economic modeling.





Centre for Energy Regulation

Key Contributions include:

- ✓ Analyzed national and regional demand profiles, RE generation, and IEX market data for the Power Chronicle newsletter.
- ✓ Managed flagship programs such as the Regulatory Certification Program (RCP) and IIT Kanpur's e-Masters in Power Sector Regulation.
- ✓ Conducted brief studies on RPO and REC compliance for the Conclave on Energy Transition and Framework for RPO.
- ✓ Provided analysis and consultation on ESCerts for one of the key stakeholders.
- ✓ Supported a range of regulatory and data-driven tasks in the power and energy sector.

July 2021
July 2022



Thermal Training Institute (UPRVNL) | Obra Sonebhadra Engineering Apprentice - Electrical

- ✓ Collaborated with the Electrical Design team on projects involving electrostatic precipitators, dust and gas control systems, and site-level electrical integration.
- ✓ Led engineering design tasks—preparing reports, electrical drawings, specifications, load calculations, and equipment selection for diverse power and industrial projects.
- ✓ Involved in the management and procedural oversight of energy transmission systems, ensuring compliance with design standards and operational efficiency.

CERTIFICATIONS

April 2023

Appreciation Certificate from UDEMY for Python Programming

Appreciation Certificate from UDEMY for MATLAB, Simulink and State flow

Appreciation Certificate from NIELT for CCC

July 2015
July 2016

Appreciation Certificate from JNCSM For Master Diploma in Office Professional Publishing

March 2024

Regulatory Certification Program on "Power Sector Regulation: Theory and Practice
Regulatory" Centre for Energy Regulation (CER), IIT Kanpur

TECHNICAL SKILLS

- Climate and Energy Policy Analysis
- Regulatory and Stakeholder Engagement
- Data Analysis and Dashboard Management
- Research and Technical Writing
- Project Coordination and Implementation
- Communication and Presentation Skills
- MS Office (Excel, PowerPoint, Word)
- MATLAB, Simulink, Python (Basic)

PUBLICATIONS

- ✓ Sandeep Kumar, V.K. Giri "Optimization of MPPT and UPF in Grid Connected PV System" in the International Journal of Scientific Engineering and Science, Volume 7 Issue 5 2023
- ✓ Sandeep Kumar, Prof. V. K. Giri, "Optimal Reactive Power Compensation Using Thyristor Switched Capacitors for Power Factor Correction", IJRAR - International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348- 1269, P- ISSN 2349-5138, Volume.10, Issue 2, Page No pp. 45-51, May 2023
- ✓ Regulatory Insights - Vol 07 Issue 02 (October, 2024), Vol 07 Issue 03 (January, 2024) and Vol 07 Issue 04 (March, 2025)
- ✓ Draft Report on "Energy Transition on framework for Renewable Purchase Obligation" Centre for Energy Regulation, IIT Kanpur (Applied for ISBN No.)