



PROFILE

I am a transmission planning and renewable interconnection engineer with hands-on experience supporting grid integration of inverter-based resources, including solar PV, battery energy storage (BESS), wind, hybrid, and HVDC systems. My expertise includes load flow, contingency, reactive power, power evacuation, and stability analyses using tools such as PSSE, PSCAD, PSLF and DiGILENT PowerFactory.

I have supported interconnection and feasibility studies across major North American ISOs and regions, including ERCOT, CAISO, MISO, SPP, and WECC, working closely with developers and stakeholders throughout the study lifecycle. My work emphasizes technical rigor, regulatory compliance, and practical solutions to enable reliable, cost-effective renewable energy integration.

CONTACT

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MONIKA DIXIT

Power System Consultant

EDUCATION

National Institute of Technology, Warangal, India

2012 - 2014

Master of Technology (Automobile Engineering) Uttar Pradesh Technical University, India

2007 - 2011

Bachelor of Technology

WORK EXPERIENCE

Siemens Energy, Power System Consultant

February 2025 - Present

- Supported interconnection and transmission planning studies for renewable, HVDC and inverter-based resources using PSSE, PSCAD, PSLF and DiGILENT PowerFactory.
- Automated power system studies using Python scripts.

Independent Power System Consultant & AI Researcher

July 2022 – January 2025

- Explored AI solutions ML/DL to make power systems more efficient, reliable, and flexible, especially for smart grids and integrating renewable energy.

Power System Solutions, Engineer

March 2020-July 2022

- Performed power system modeling and grid code compliance studies using PSSE and PSCAD, and prepared proposals, scopes of work, and technical reports.

PSAC Pvt. Ltd., India, Engineering Intern

December 2019–March 2020

- Look after the operation performance, maintenance and upgrading of asset management device.
- Develop existing life maintenance plans for transformers.

CERTIFICATION: - Machine Learning from Stanford University
- Generative AI from DeepLearning.AI

SKILL

