

Sandeep Nimmagadda

Director of Energy Storage

Sandeep is responsible for Energy storage business at Apex to include all aspects of market strategy, project origination, and execution. Sandeep's experience includes managing the electrical design, SCADA and interconnection for over 3GW of utility scale projects in Apex portfolio. Prior to joining Apex, Sandeep led an energy center called GLEAMM at Texas Tech University, where he led a research team that developed solutions in energy storage, hybrid generation and microgrids for energy intensive loads. Sandeep holds a PhD in electrical engineering from Texas Tech University and a Bachelor of Electrical and electronics engineering from Anna University.

EXPERIENCE

- **Director of Energy Storage. Apex clean energy, Sept 2020- Present**
 - Develop and lead implementation of the Apex company strategy for deployment of energy storage systems (ESS) with its portfolio of utility scale and distributed wind and solar energy assets across most ISO/RTO regions in the United States.
 - Determine and communicate highest-value use cases to customers through competitive RFPs and bilateral discussions and presentations.
 - Design the use-case and provide cost estimates for ESS systems to support proposals to customers.
 - Responsible for establishing and maintaining relationships with vendors to procure equipment and contracts.
 - Provide Support transactional process as a technical expert.
 - Support the Project Management and Asset Management teams as needed to ensure quality control of facilities and delivered services.
- **Director- Office of Research and Innovation, Texas Tech University, Aug 2019- Sept 2020**
 - Develop and lead a large-scale multidisciplinary center-based team in the area of energy systems.
 - Provide leadership and mentorship for GLEAMM. Set the agenda for research and set the vision for the center.
 - Develop a road map and strategic plan for the center.
 - Supervise and train project team members, as necessary. Manage, review, and maintain client communications.
 - Team, cultivate, write and submit funding opportunities to increase research expenditures for GLEAMM and University.
 - Develops and implement advanced R&D control solutions to microgrid systems to improve resiliency of power systems.
 - Perform complex research and develop recommendations for equipment testing and seamless integration into microgrids.
 - Proactively provides guidance and direction on design guides, standards, systems, applicable engineering codes.

- **Electrical Engineering Manager- Apex Clean Energy, Jan 2016 – July 2019**
 - Manage transmission and interconnection requests for a 13GW wind and solar portfolio in multiple ISOs (PJM, SPP, MISO, ISONE, NYISO, ERCOT, WECC) by filing interconnection requests, tracking progress in the interconnection queue, and coordinating with system operators and transmission operators on design, schedule, and cost.
 - Manage electrical design consultants performing the detailed electrical design for wind and solar projects.
 - Provide SCADA architecture and manage SCADA consultants for wind projects.
 - Lead coordination with clients, off-takers, utilities and contractors on electrical engineering and SCADA requirements of the project
 - Support project management team in creating solutions which enable the construction of wind energy plants in a tight schedule.
 - Track progress in wind farm and solar plant design practices in the industry.
 - Support procurement team in maintaining informative relationships with equipment vendors.
 - Evaluating transmission for Greenfield projects and supporting Interconnection related activities
 - Lead R&D efforts and implement novel systems to overcome electrical engineering issues, improve efficiency and reduce CAPEX on the project.
- **Electrical Engineer- Apex Clean Energy, June 2014 – Dec 2015**
 - Perform preliminary design for project substation, transmission lines and collection systems.
 - Analyze and rate wind turbine electrical performance and capabilities.
 - Perform calculations and develop methodologies to determine cable sizing, loss calculations, cost difference between various configurations etc.
 - Develop and maintain specifications for wind farm substation, transmission line and collection system.

EDUCATION

PhD: Electrical & Computer Engineering:
Texas Tech University, Lubbock, TX

GPA: 3.96
Graduation Date: 15 Aug 2014

BS: Electrical and Electronics Engineering:
Anna University, India

Percentage – 79.18, April 2009
Graduated on: 09 May 2009

CERTIFICATIONS

- Professional engineer in the State of Texas (PE# 132057)

PROJECTS

- GLEAMM 1MVA microgrid deployment, 2019-2020

PUBLICATIONS

- Peer Reviewed Journals - 7
- Peer Reviewed Conference Publications - 4

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