



TEXAS A&M UNIVERSITY

Department of Electrical  
& Computer Engineering

TRANSFORMING ENGINEERING EDUCATION

# ENERGY & POWER GROUP SEMINAR

## Renewable Development in ERCOT

### Abstract

This presentation will explore the strategic considerations for developing solar, wind, or battery resources within the Electric Reliability Council of Texas (ERCOT) region. It will commence with an introduction to Avantus, the presenter's company, followed by an in-depth analysis of the site selection process for new solar developments in ERCOT. Key factors such as transmission, origination, permitting, land acquisition, finance, and regulatory issues will be examined. The presentation will also address the recent regulatory changes implemented by the 88th Texas Legislature in response to Winter Storm Uri and discuss the implications for securing off-take agreements, financing, operations, and trading. A special focus will be placed on the importance of anticipating congestion in the grid and how this foresight is crucial for selecting optimal sites for new developments in the ERCOT market.



**Joseph K. Nasser, CFA**  
MS Student  
Texas A&M University

**Friday, April 19**  
**11:30 am**  
**241 ZACH**

### Biography

Joseph Nasser plays a pivotal role in synthesizing ERCOT Energy Market data to support strategic decision-making related to new and existing interconnection queue positions. His expertise in strategic planning is demonstrated through his active engagement in industry conferences, consultations with regulatory and lobbying experts, and adept management of complex analytical tools like the UPLAN production cost model. His work integrates extensive market analysis, revenue forecasting, and participation in ERCOT's stakeholder processes, complemented by his skill in data visualization using Tableau.

Prior to his current role, Joseph honed his skills in Energy Market Operations at Austin Energy, where he served as a Senior Energy Marketing Analyst, and in Real Time Operations at EDF Trading/EDF Energy Services as a Real Time Trader. He has dual bachelor's degrees in Mathematics and Finance from the University of Houston, along with a Chartered Financial Analyst designation. Joseph is furthering his education by pursuing a Master's degree in Electrical Engineering.

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