Transactive Energy Challenge Kickoff Workshop: Vanderbilt University

(project in collaboration with MIT and Univ. of Michigan)

- **Area of Interest:** Modeling & Analysis of SmartGrid, TE approaches, Communication Network, Cyber Threats, and Grid Stability
- **Functionality / Capabilities**: C2 Wind Tunnel is an existing HLA-based generic co-simulation platform. It will be extended to support tools for power flow dynamics, transmission & distribution, and market dynamics for evaluation of TE approaches
- **Proposed Scenario**: Model and analyze stability of grid in the presence of unpredictable network behavior (potentially cyber exploits) and market-based demand-response variations
- **Impacts/Why:** Answers critical questions about viability of TE approaches and the smartgrid itself
- **Partners Needed:** TE tool users/suppliers interested in bringing it to the C2WT co-simulation platform