### **Large Load Modelling**

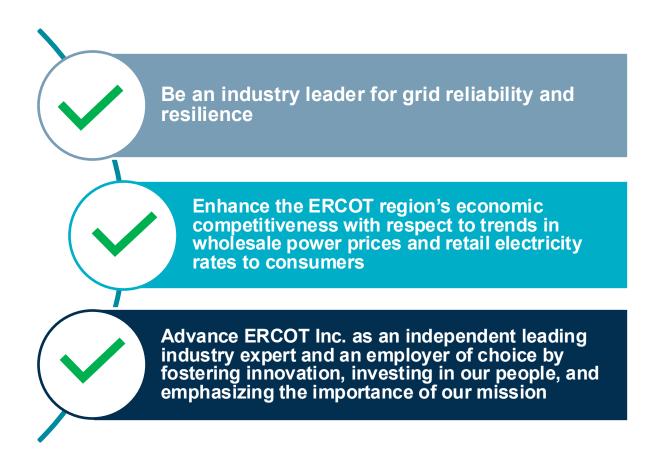


Prashant Kansal
Director, Grid Transformation

November 20, 2025

#### Grid Research, Innovation, and Transformation (GRIT) Serves ERCOT's Strategic Objectives

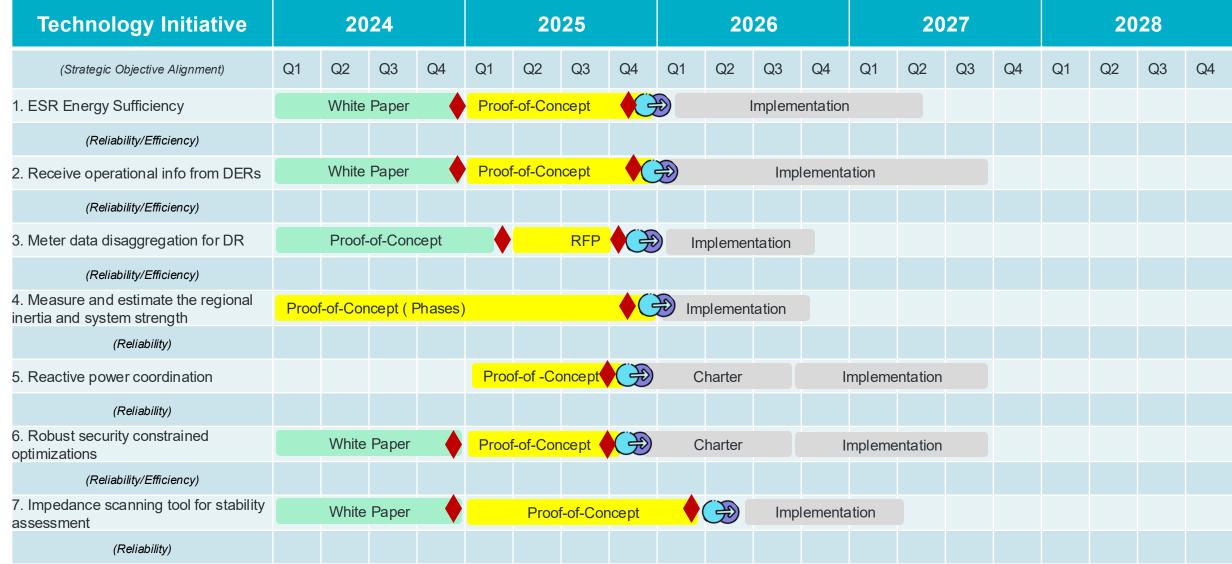




GRIT's purpose, vision, and mission are fully aligned with ERCOT's strategic objectives—driving innovation that enhances grid reliability, improving market efficiency, and ensuring readiness for a rapidly evolving energy landscape.



# **GRIT Roadmap**







In-Progress

# **GRIT Roadmap**







## **Large Load Modelling**

#### **Background:**

- Models developed in collaboration with Texas A&M University
- **Generic** models with the goal of summarizing our understanding of large electronics load in a model that can help save time on circular conversations
- The **site-specific models** should reflect the actual site which will be <u>different from generic models</u>

#### Models:

- Crypto Mining
- Data Centers Four architecture based on Open Compute Project (OCP) public information
- Electrolyzer

