

CleanTX GridNEXT ATX 2025: *Transforming the Texas Grid*

Texas' electric grid faces huge demand and extreme weather, requiring faster change and new solutions. Despite Texas building transmission in 3-5 years (remarkably fast nationally), it still lags behind 6-24 month generation projects.

Key Issues

High Demand

Rapid growth from oil & gas, and crypto strains grid capacity.

Slow Approvals

Over 30 transmission projects await PUC approval, with permitting challenges in urban areas slowing development.

Investment Risk

Extended project timelines and regulatory uncertainty deter crucial grid expansion investment, leading to capital hesitation.

Data Center Boom: A Grid Game-Changer

AI & Cloud Driving Growth

Exponential data center development, fueled by AI and cloud computing, creates unprecedented load demands.

Massive & Consistent Power

These facilities require substantial and constant power, straining existing Texas grid infrastructure.

"Fidelity Risk"

Rapid expansion poses hurdles for accurate load forecasting, leading to risks in grid stability and resource allocation.

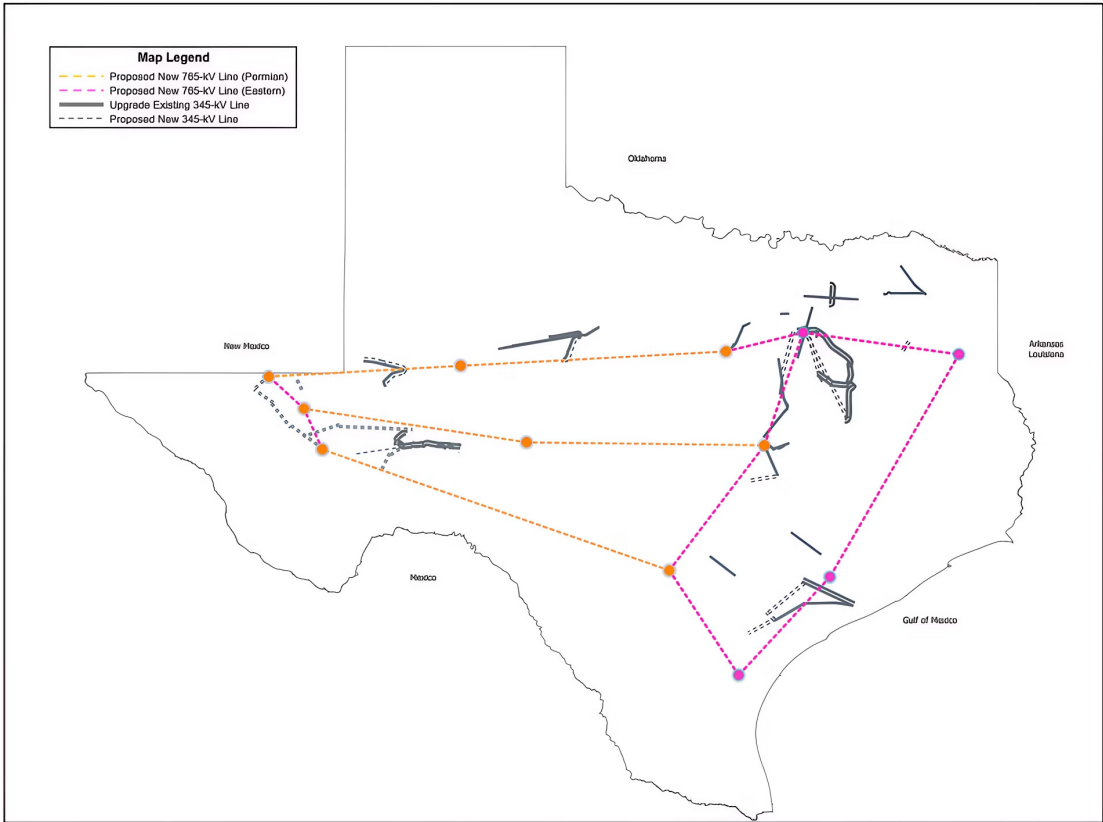
Advanced Solutions Needed

Requires localized, robust connections, microgrids, and intelligent controls for variable energy consumption.

Complex Asset Coordination

Coordinating diverse generating assets (solar, battery, natural gas, diesel) is complex due to unique characteristics and response times, critical for seamless behind-the-meter operations.

Modernizing the Grid



765kV

New High Voltage Connections

First Certificate of Convenience and Necessity filings expected by year-end, offering higher power capacity.

5-6x

More Efficient

Each 765 kV line can transmit 5–6× the power of a 345 kV line, allowing greater capacity per corridor

Key Solutions Include

Faster Approvals

Streamline processes, potentially with a "single decider" for critical state/federal projects. Federal permits on federal lands have "effectively frozen" under current Department of Interior policies.

Long-Term Planning

Develop 20-30 year grid plans, enabled by Senate Bill 6's forward, looking cluster studies for multiple scenarios. Incentivize reliability investments through performance-based returns and resource adequacy obligations.

Smart Technology

Deploy strategic battery placement for "seconds or minutes when the wind stops blowing," AI for forecasting, and dynamic grid optimization tools.

"Not making a decision is a decision, and it sets us back." Texas needs strong leadership and teamwork for energy infrastructure.

With smart policy and technology, Texas can remain an energy leader. The solutions are known; now it's time for actionable implementation.