



Infrastructure Deep Dive

November 15, 2024

The Leader in Energy Market Simulation Systems

Providing energy companies, consultants, and regulators advanced tools to support:

- **Investment and M&A Strategy**
- **Environmental and Sustainability Goals**
- **Credible Risk Analysis**
- **Trading Strategy**
- **Policy Development and Assessment**
- **Energy Security**

GPCM 24Q3base

Infrastructure Update

November 15, 2024

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Infrastructure Update

1. East Tennessee Changes
2. New GDS Pro preview
3. Gulf South & West Lake Expansion
4. Transco Regional Energy Access Expansion (REA)
5. Louisiana Energy Gateway (LEG)
6. Double E Pipeline
7. Blackcomb

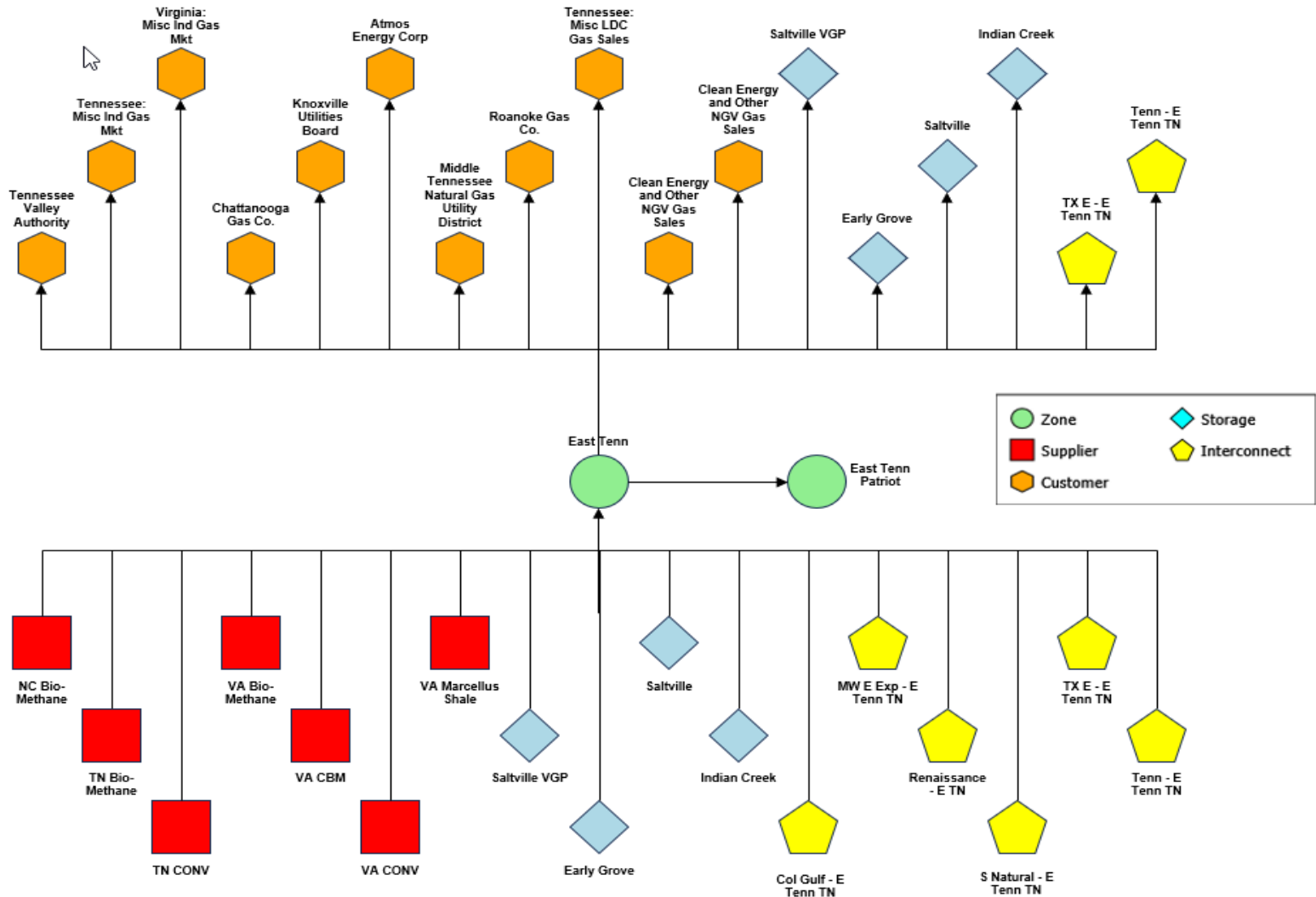
Rates/Fuel

Disclaimer:

Many rates and fuels as well as capacities are estimated based on public information, open seasons, filings, other similar projects, or subjective estimates.

East Tennessee 24Q2base

New GDS
PRO



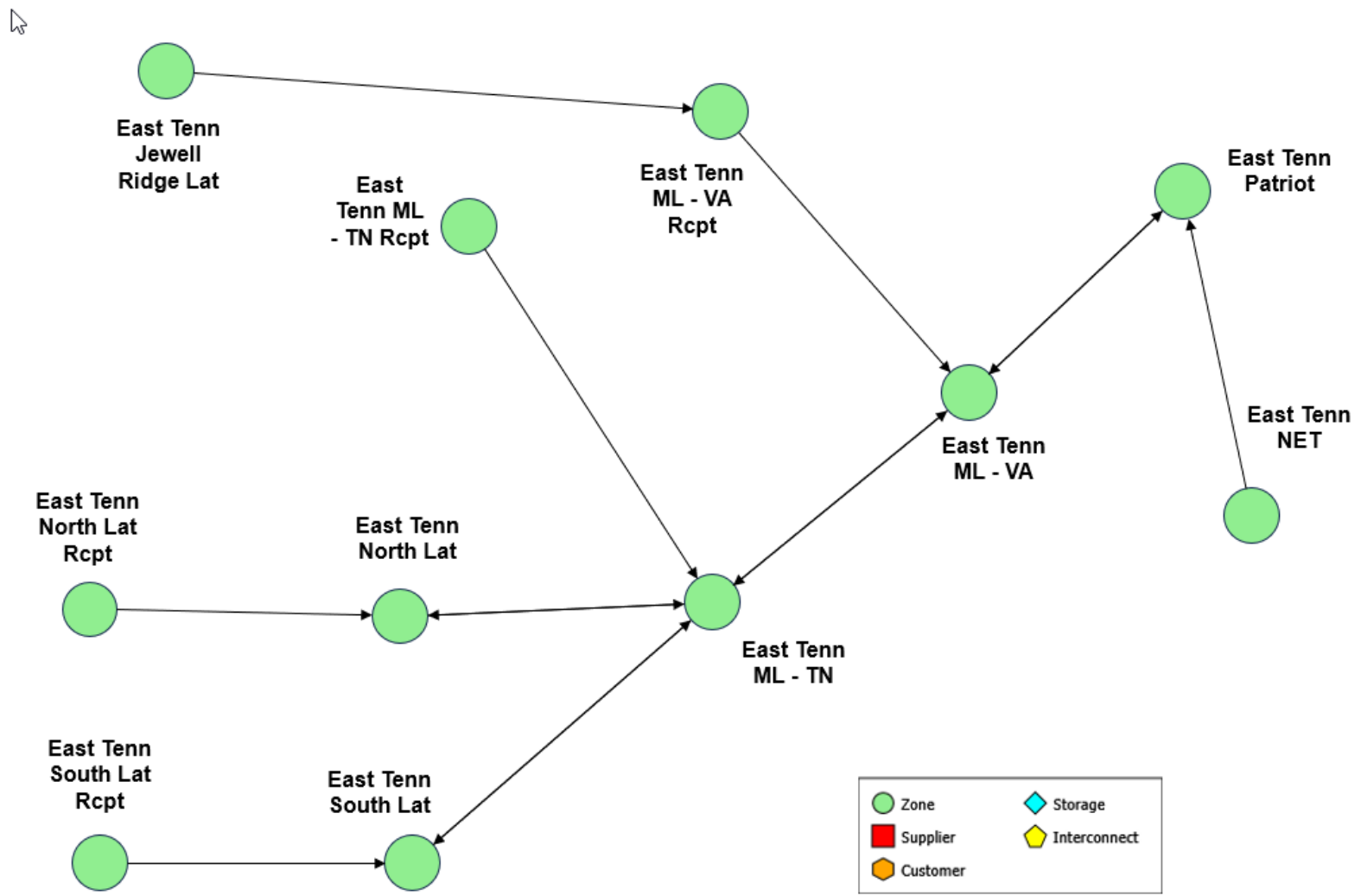
East Tennessee Pipeline

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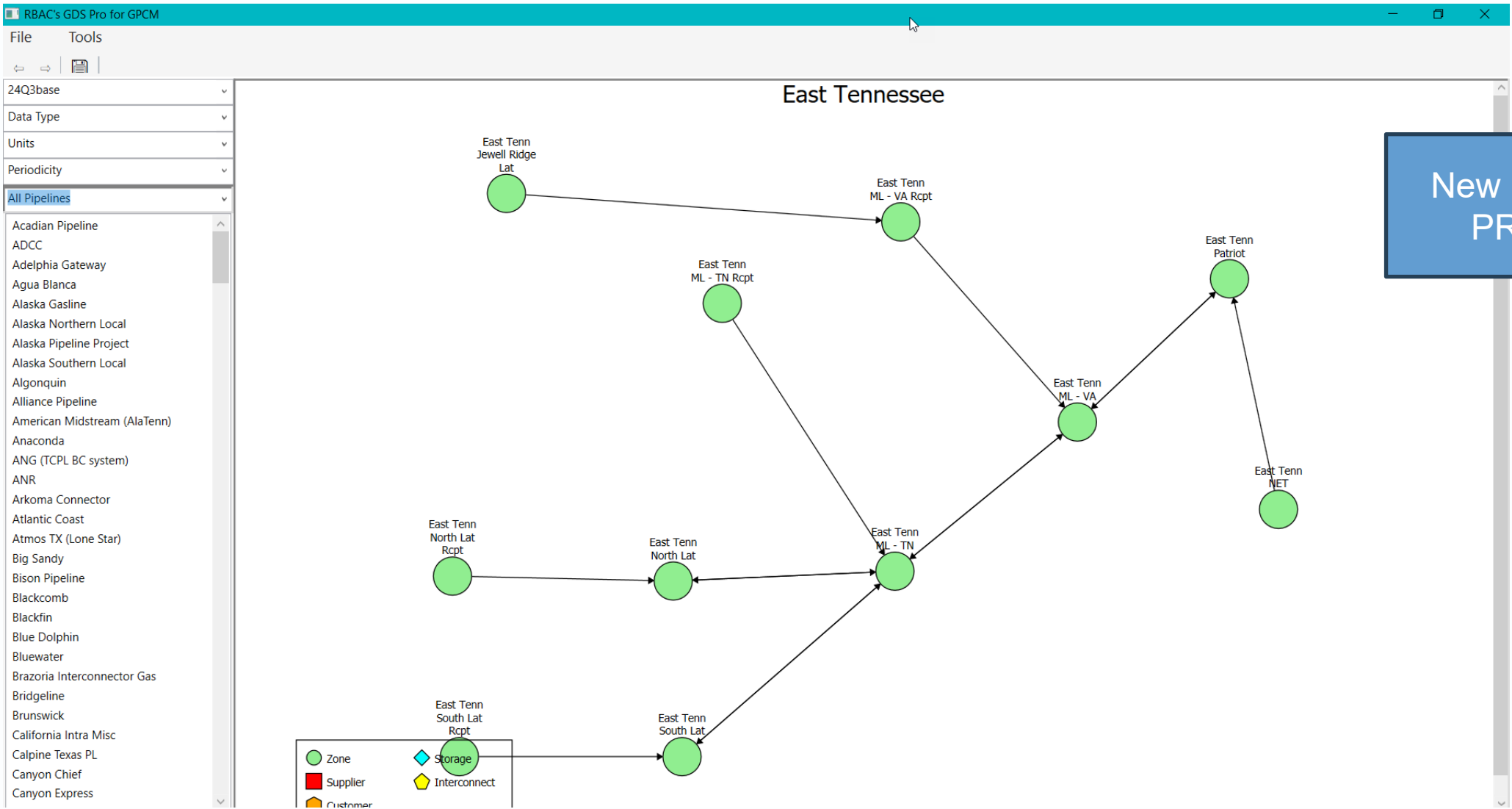


East Tennessee 24Q3base

New GDS
PRO



New GDS Pro



New GDS
PRO

Gulf South West Lake Expansion

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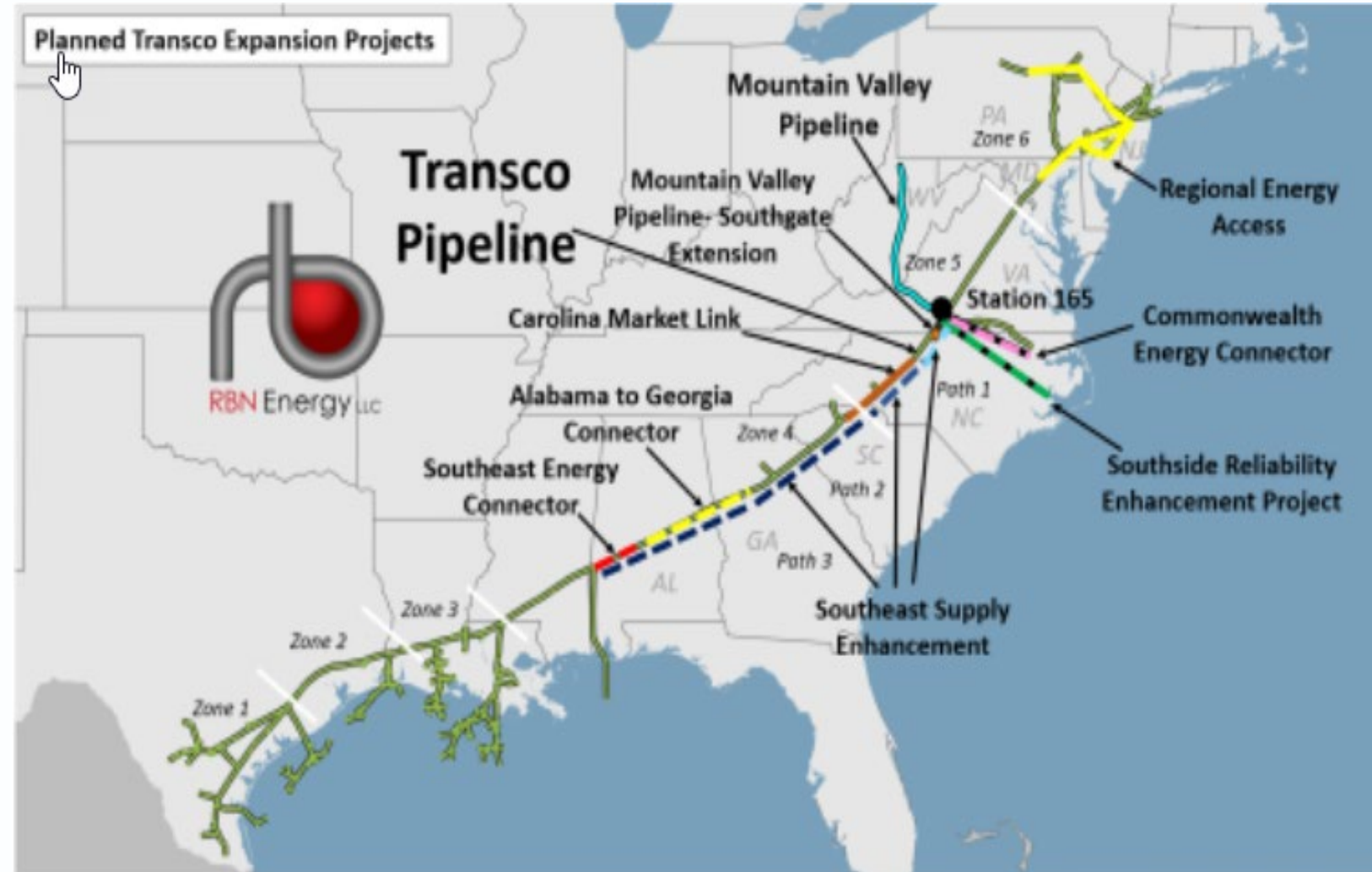
- ❖ Rework pipeline to reflect tariff changing from zonal to postage stamp rates
- ❖ West Lake Expansion added
 - ❖ Lateral in SW LA to serve Entergy LA



Transco Regional Energy Access

Updated to reflect:

- ❖ Partial in-service of 450/d in Oct 2023
- ❖ Full in-service of 829/d in Nov 2024

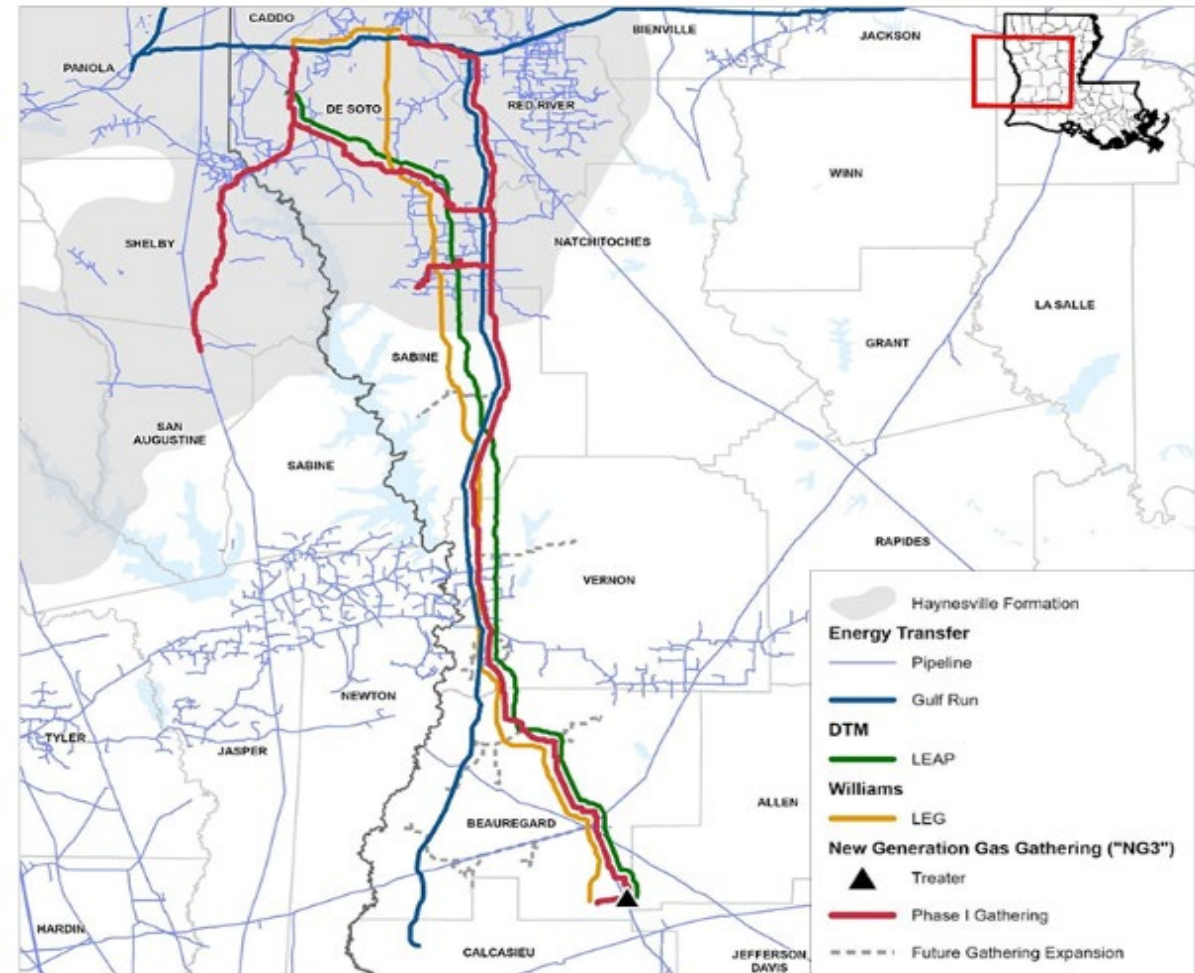


Louisiana Energy Gateway (LEG) Pipeline

- ❖ 1,800 mmcf/d capacity
- ❖ In-service July 2025
- ❖ Delivers to Industrial customers along the route
- ❖ Ties into Transco Z2 LA Rcpt zone

Competing Haynesville Shale Takeaway Projects

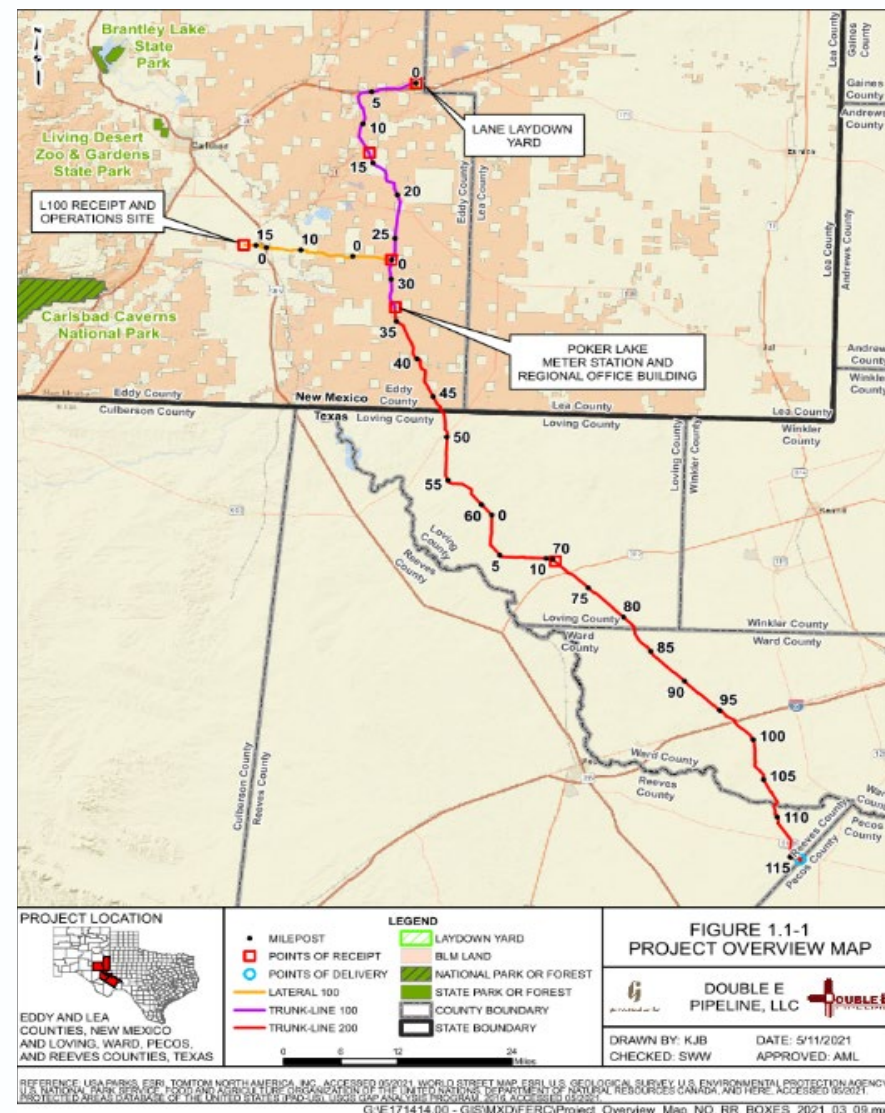
NGI



Source: 42nd Judicial District Court filing by New Generation Gas Gathering LLC

Double E Pipeline

- ❖ 1,350 mmcf/d capacity
- ❖ In-service Nov 2021
- ❖ Picks up NM & TX 8 Permian supply
- ❖ Ties into Gulf Coast Express, Permian Highway Pipeline, & Trans-Pecos



Blackcomb

To be continued...

GPCM Infrastructure Update



Questions?



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RBAC leads the market in global and regional gas and LNG market simulation and predictive analytics in support of corporate investment and M&A strategy, ESG, risk analysis, planning, and commodity trading. Our products and expertise help companies go beyond the narratives and hype to identify the opportunities and define the risks inherent in the uncertainties of energy transition using reality and fact-based fundamentals and analysis.

We continuously enhance our market simulation systems with the latest software and computer technology while applying the best of mathematical economics to assist our clients achieve their goals. This is especially needed as we see fundamental shifts taking place in the energy industry to achieve energy transition goals and meet increasingly demanding requirements of ESG. We provide regularly scheduled updates of our simulation systems and databases to keep our clients up-to-date with the most current market information. We enhance the functionality of our systems to enable our customers to simulate the effect of new regulations or industry requirements.

Our aim is to continue to lead the market in best practices which raise the standard of market simulation, enabling rapid and flexible scenario generation, sensitivity analysis, risk-assessment and forecasting, giving clients the edge in the rapidly changing energy market.

Those using RBAC's products and services include energy industry firms and consultants, as well as government agencies involved with energy, transportation, and the environment.

RBAC's principal products include:

- **GPCM® Market Simulator for North American Gas and LNG™** focused on the North American gas & LNG markets. GPCM is the industry standard market simulator for North American gas.
- **G2M2® Market Simulator for Global Gas and LNG™** for simulating increasingly integrated gas and LNG markets worldwide.
- **Gas4Power®** for integrating gas and power market fundamentals to produce credible forecasts for both.
- **NGL-NA®** Market Simulator for North American Natural Gas Liquids

With RBAC's advanced simulation systems, licensees can create and run scenarios involving bio-methane (Renewable Natural Gas – RNG) mixed with natural gas and to assess the implications of carbon taxes and markets on supply, demand, and prices. Future enhancements will include the ability to simulate the advent of a future hydrogen market with both pure hydrogen pipelines as well as mixtures with methane. The Energy Analyst of today and the future needs these kinds of tools to conduct realistic assessments and help develop realistic strategies and plans to achieve the goals of the energy transition.

Dr. Robert Brooks founded RBAC in 1987 based on experience developing several well-respected predictive models for government and industry. He designed the first gas transportation model while getting his PhD at MIT and has led the industry ever since.

RBAC's staff includes industry-trained experts in natural gas supply and demand, transportation, storage, marketing, and trading. Our team applies its world-class expertise in mathematical modeling, statistical analysis, mathematical algorithm development, software engineering, and database design to current and future challenges, risks and opportunities in energy.