



Tennessee Gas Pipeline
Company, L.L.C.
a Kinder Morgan company

Welcome to the

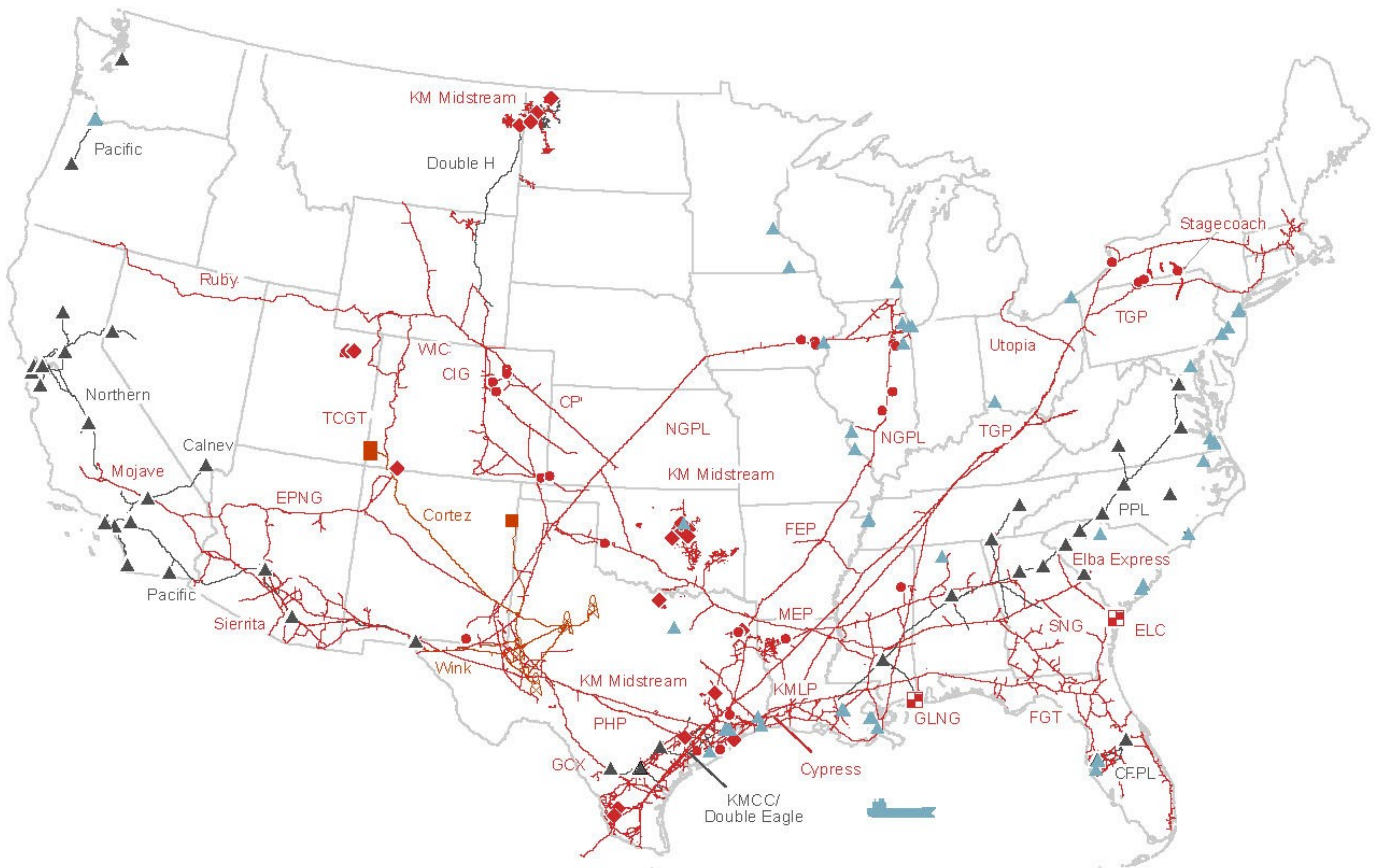
**Cumberland
Project**

Open House

Cumberland Project

About Kinder Morgan

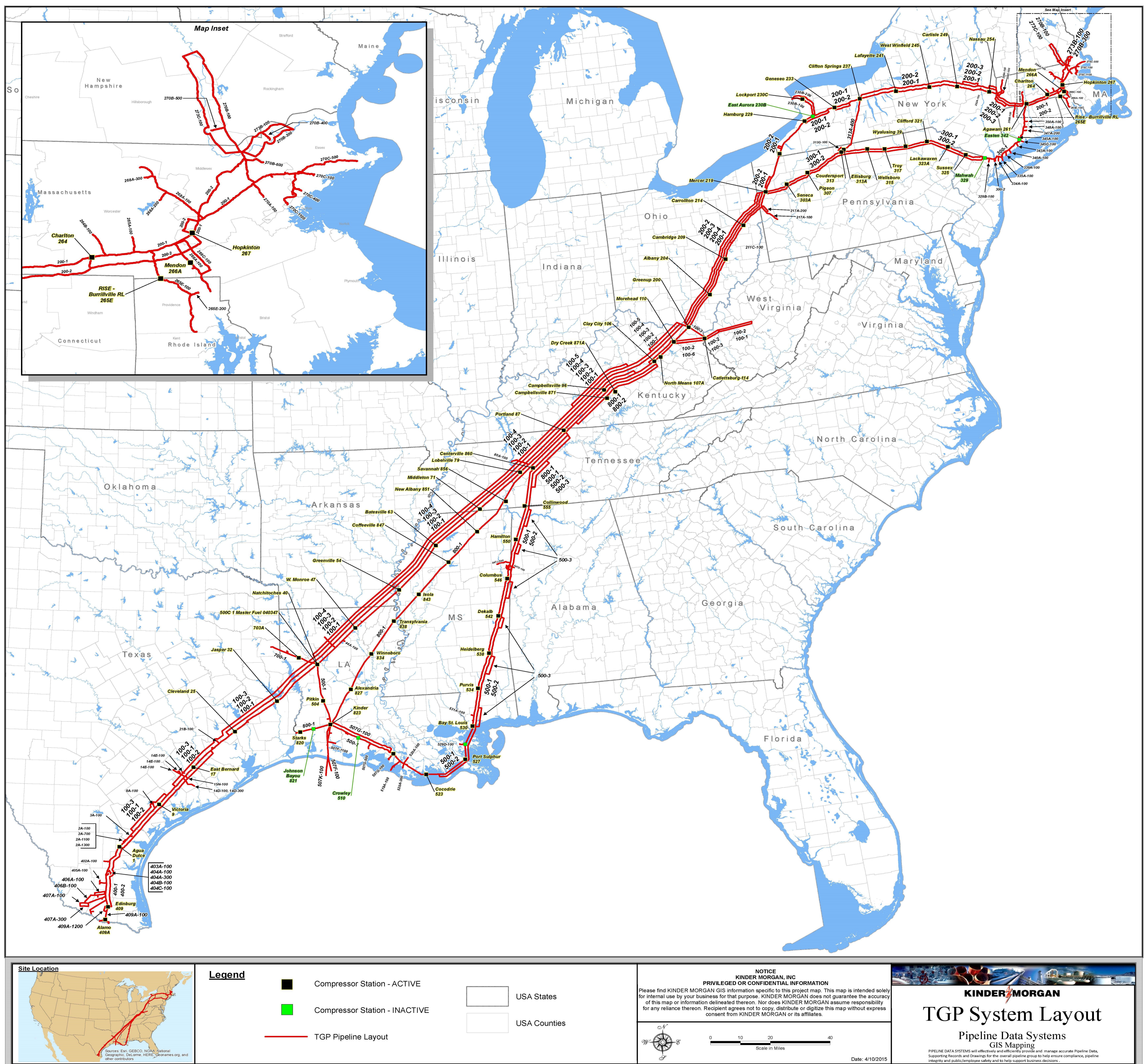
- Kinder Morgan is one of the largest energy infrastructure companies in North America. We own an interest in or operate approximately 83,000 miles of pipelines and 144 terminals.
- Kinder Morgan provides energy transportation and storage services in a safe, efficient and environmentally responsible manner for the benefit of people, communities and businesses.
- Kinder Morgan's pipelines transport natural gas, gasoline, crude oil, carbon dioxide (CO₂) and more. Kinder Morgan terminals store and handle renewable fuels, petroleum products, chemicals, vegetable oils and other products.
- Kinder Morgan is committed to being a good corporate citizen and conducting ourselves in an ethical and responsible manner. We are committed to public safety, protecting the environment and operating our facilities in compliance with industry rules and regulations.
- Approximately 40% of the natural gas consumed in the U.S. is transported through our pipelines.



Cumberland Project

About Tennessee Gas Pipeline

- Tennessee Gas Pipeline (TGP) is one of the largest interstate natural gas pipeline systems in the United States. It transports natural gas from production basins in the Northeastern and Northcentral United States across 15 states to markets throughout the country.
- The TGP system consists of ~11,760 miles of pipelines, 83 compressor stations, and ~80 billion cubic feet (Bcf) of natural gas storage capacity.
- TGP has a transportation capacity of ~12.1 Bcf/day. On a daily basis, TGP transports the equivalent amount of energy required to heat ~72 million homes for a day.



Cumberland Project

Project Overview

- **Purpose:** The Cumberland Project ("Project") will provide up to 245,000 dekatherms per day of additional natural gas transportation to the Tennessee Valley Authority (TVA) to support their proposed retirement and replacement of an existing coal-fired power plant with a natural gas-fired, combined cycle power plant.
- **Scope:** The Cumberland Project includes construction of an approximately 32 mile, 30-inch pipeline lateral originating from TGP's existing 100 Line in Dickson County, Tennessee and terminating at the proposed power plant in Stewart County, Tennessee. The pipeline lateral would be located generally parallel and adjacent to an existing TVA transmission corridor.

In addition to the proposed pipeline, the Project includes the construction of the following aboveground facilities:

- A meter station to be located on the western end of the proposed pipeline.
 - Bi-directional back pressure regulation facilities on TGP's Line 100-1.
 - An in-line inspection trap at each end of the proposed pipeline.
 - One mainline valve to be located at an intermediate location along the proposed pipeline.
- **Location:** Dickson County, Houston County and Stewart County in Tennessee.
 - **Lead Certifying Agency:** The Federal Energy Regulatory Commission (FERC)



Cumberland Project

Project Timeline– Key Dates

| Action | Timing |
|---|---|
| Outreach Meetings | Ongoing |
| Route Selection and Permit Preparation | Ongoing |
| Agency Consultations | Ongoing |
| FERC Pre-Filing | Ongoing |
| Kinder Morgan Open Houses | January 18, January 19 & January 27 (Virtual) |
| File Certificate Application with FERC | 2nd Quarter 2022 |
| Proposed Start of Construction Activity | 3rd Quarter 2024 |
| Proposed In-Service | 3rd Quarter 2025 |



Cumberland Project

Environmental Considerations

Pre-Construction:

- Develop a route that minimizes environmental impacts by following existing utility transmission corridors where possible.
- Conduct field surveys to identify and help protect sensitive resources including:
 - Threatened and endangered species
 - Wetlands and waterbodies
 - Cultural resources
- Obtain all necessary federal, state and local environmental permits.

During Construction:

- Utilize environmental inspectors throughout construction to ensure compliance with all necessary permits.
- Use best management practices throughout construction, including:
 - Topsoil segregation and replacement
 - Temporary and permanent erosion control

Restoration:

- Restore all areas disturbed by construction activities as close as practicable to pre-construction conditions.
- Seed and re-vegetate in accordance with landowner and agency requirements and permits.
- Monitor the restoration and reclamation process per agency requirements and permits.



Cumberland Project

Pipeline Construction Process



1. Clearing & Grading

After the right-of-way (ROW) is carefully surveyed and staked, the ROW is graded. Top soil is carefully removed and segregated.



6. Inspection & Coating

For quality assurance, technicians inspect the pipe coating prior to installation and inspect all welds using ultrasound equipment. Each weld is then coated by a coating head.



2. Trenching

A wheel ditcher or backhoe digs the trench for the pipeline. The bottom of the trench is then padded with sand to cushion the pipe.



7. Pipe Lowering

Sidebooms move together to gently lower the welded pipeline into the trench.



3. Stringing Pipe

Each piece of pipe is laid on the ROW to ensure proper positioning prior to bending, welding and installation.



8. Padding & Backfill

The pipe trench is backfilled and graded.



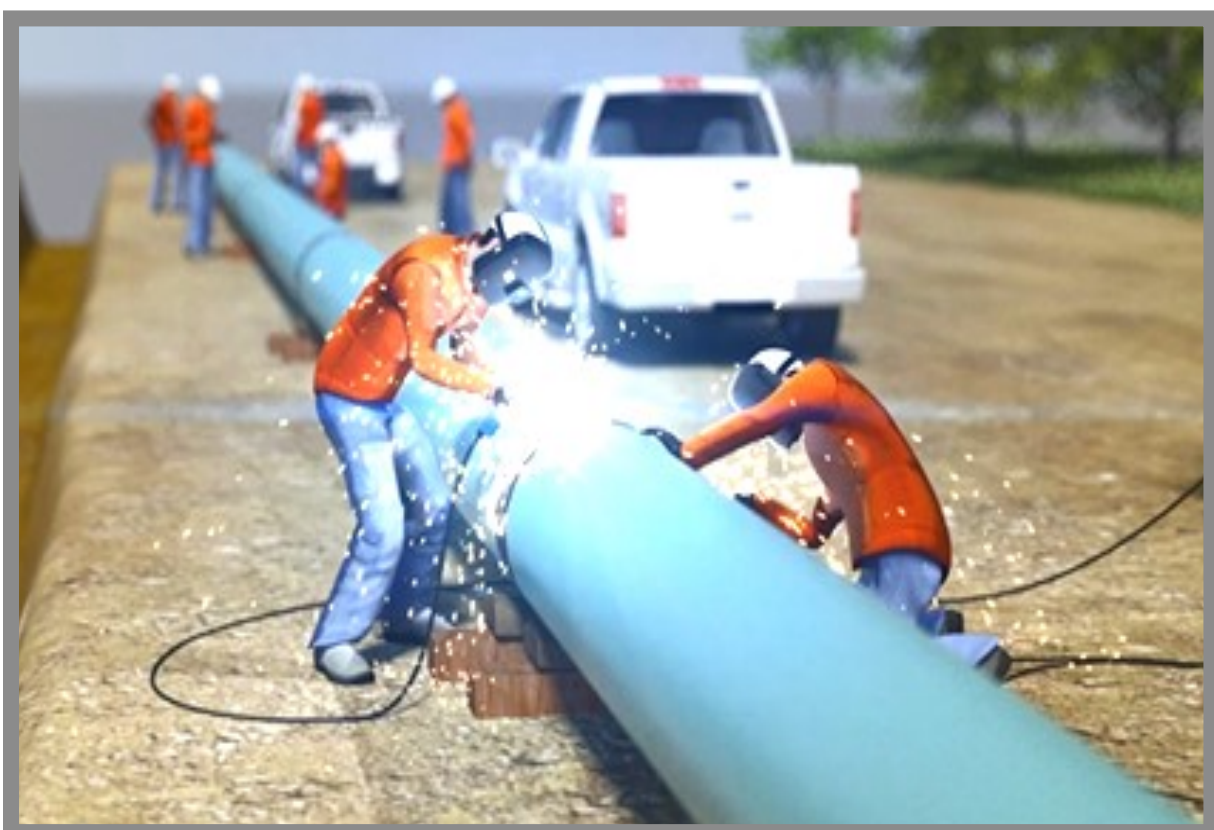
4. Field Bending Pipe

The pipe is bent, as needed, to accommodate elevation and horizontal changes.



9. Hydrostatic Testing

The pipeline is filled with water and pressurized to ensure the pipe's integrity and that it is fit for service.



5. Welding

The construction crew welds each section of pipe together into one continuous length.



10. Restoration

The pipe trench and land within the ROW are contoured and revegetated. The landowner may continue using the ROW for most purposes after restoration.



Cumberland Project

Kinder Morgan in Tennessee

Assets:

- Kinder Morgan operates ~1,300 miles of pipelines and two terminals in Tennessee.
- Kinder Morgan owns and/or operates assets in 24 different counties throughout Tennessee including: Benton, Bradley, Cheatham, Chester, Davidson, Decatur, Dickson, Hamilton, Hardeman, Hardin, Henderson, Hickman, Humphreys, Knox, Lewis, Loudon, McMinn, McNairy, Monroe, Perry, Robertson, Shelby, Sumner and Wayne counties.
- **Pipeline Systems:**
 - Tennessee Gas Pipeline (TGP)
 - Products SE Pipe Line (PPL)
 - Southern Natural Gas (SNG)
- **Terminals:**
 - Knoxville Terminal
 - Chattanooga Terminal

Economic Impact:

- Kinder Morgan employs over 110 people and maintains a payroll of ~\$12.7 million in Tennessee.
- Kinder Morgan paid approximately \$8 million annually to state and local taxing bodies in Tennessee.



Cumberland Project

Federal Energy Regulatory Commission (FERC)

The Federal Energy Regulatory Commission, or FERC, is an independent agency that regulates the interstate transmission of electricity, natural gas and oil.

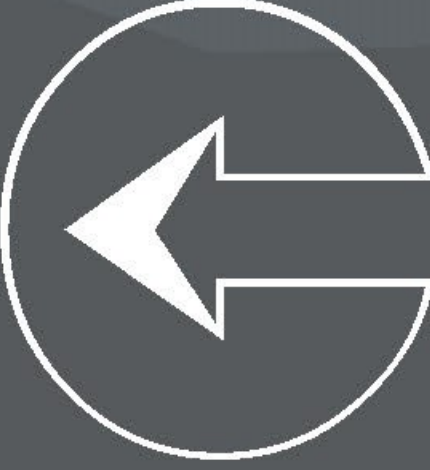
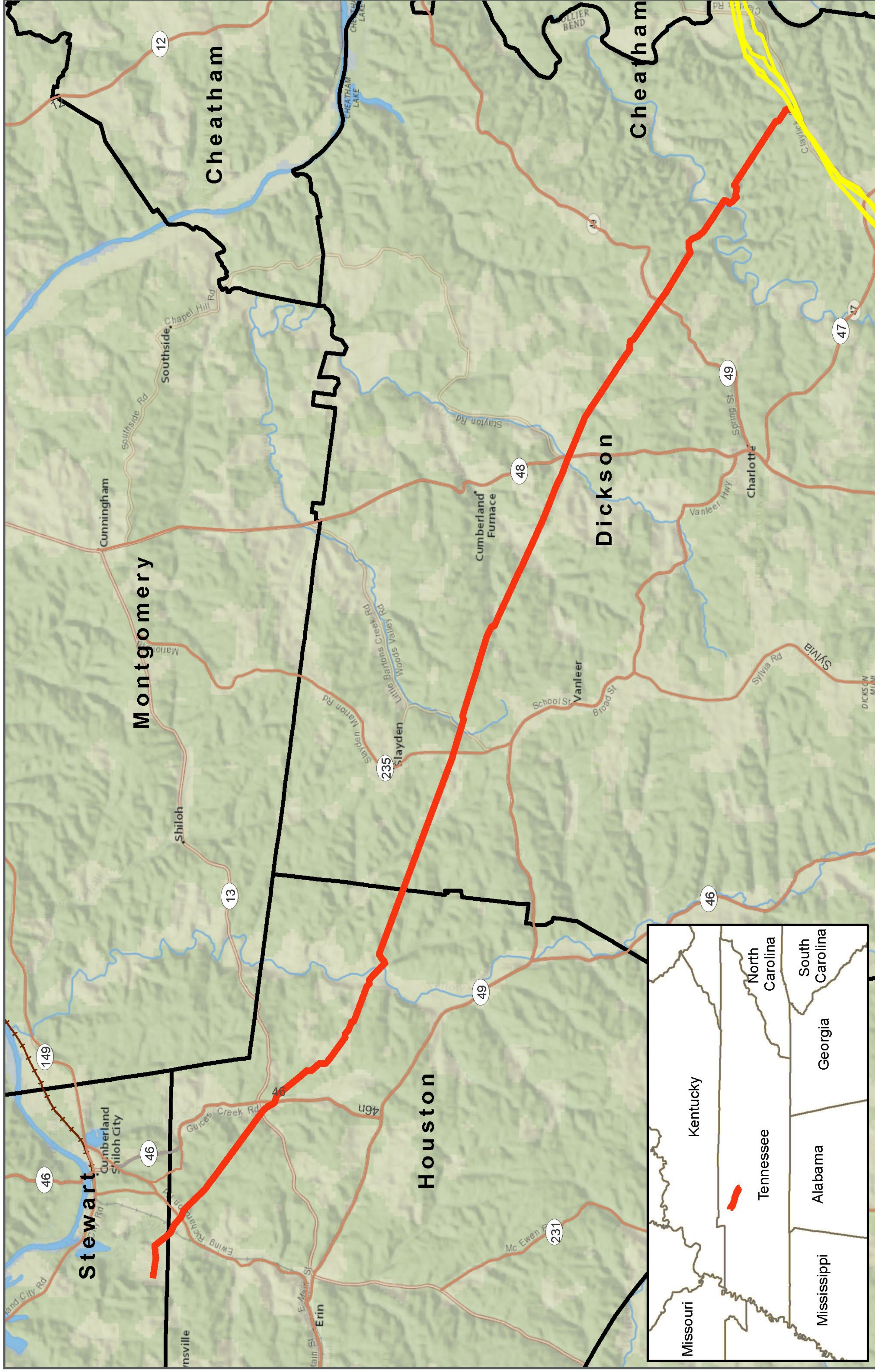
As part of its responsibilities, FERC:

- Regulates the transmission and wholesale sales of electricity in interstate commerce;
- Reviews certain mergers and acquisitions and corporate transactions by electric companies;
- Regulates the transmission and sale of natural gas for resale in interstate commerce;
- Regulates the transportation of oil by pipeline in interstate commerce;
- Approves the siting and abandonment of interstate natural gas pipelines and storage facilities;
- Reviews the siting application for electric transmission projects under limited circumstances;
- Ensures the safe operation and reliability of proposed and operating LNG terminals;
- Licenses and inspects private, municipal and state hydroelectric projects;
- Protects the reliability of the high voltage interstate transmission system through mandatory reliability standards;
- Monitors and investigates energy markets;
- Enforces FERC regulatory requirements through imposition of civil penalties and other means;
- Oversees environmental matters related to natural gas and hydroelectric projects and other matters; and
- Administers accounting and financial reporting regulations and conduct of regulated companies.



FERC Filing Docket # for Cumberland Project: PF22-2-000

Cumberland Project Map



- Proposed Pipeline
- Existing TGP Lines

Preliminary Project Location

Proposed Cumberland Project
Dickson, Houston & Stewart Counties, Tennessee



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