



# Dalton Expansion Project

Pipeliners Club of Atlanta  
January 8, 2018





## Williams Speakers

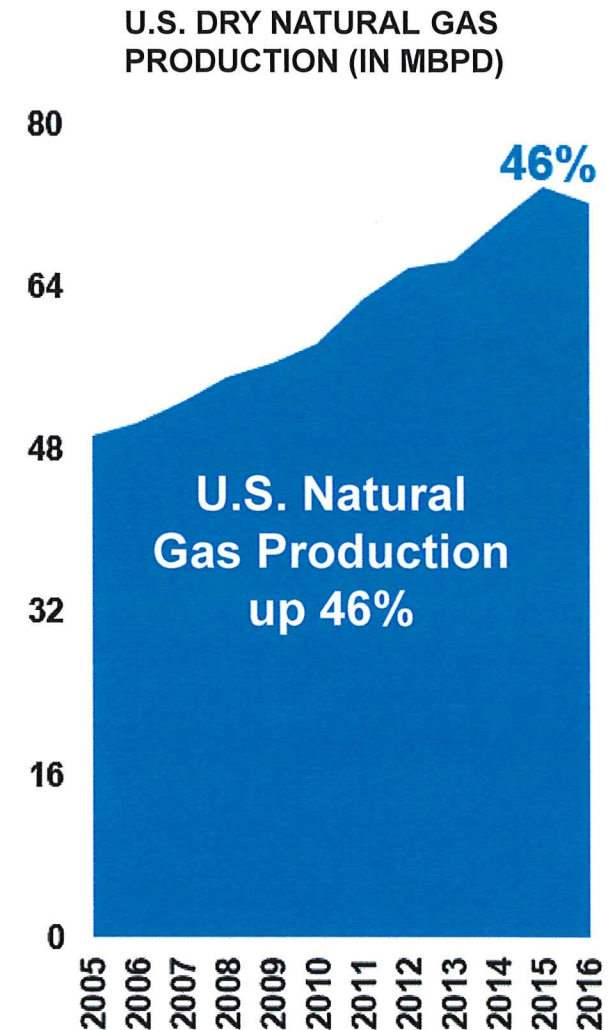
- James Mathis PE, PMP, Dalton Expansion Project Manager
- Kristen Drew PE, PMP, Manager of Projects

# Agenda

- Industry Overview
- Introduction to Williams
- Dalton Project Summary
- Regulatory Process
- Successes
- Questions

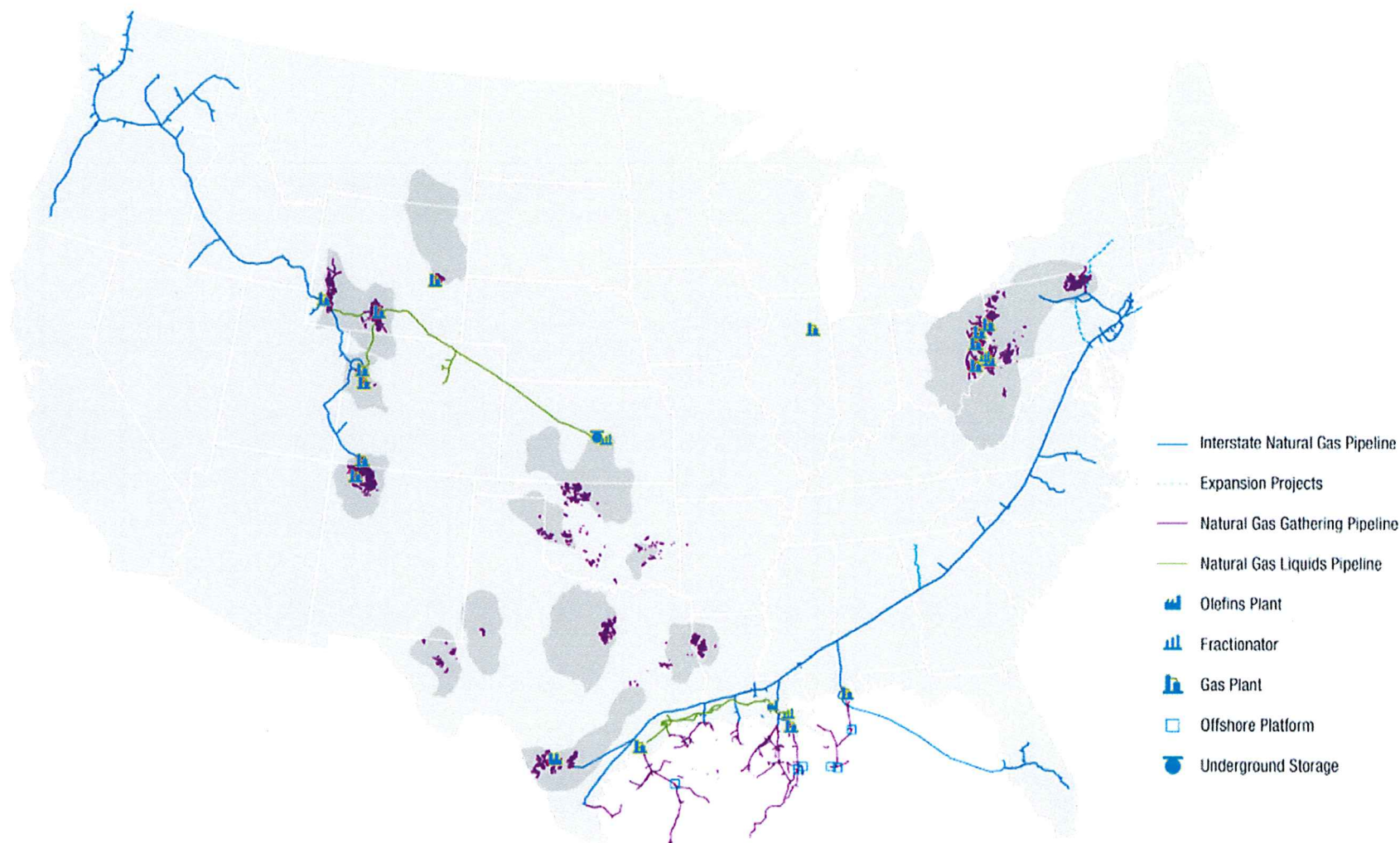
# Natural gas fueling U.S. energy revolution

- Low prices and the public's desire for cleaner burning fuel has led to the growing popularity of natural gas
- U.S. leads the world in natural gas production
- Natural gas fuels one-third of electric power generation in the U.S. and heats half of all homes.
- Increasing demand for natural gas has fueled need for additional pipeline infrastructure to connect emerging supply areas with established consuming markets



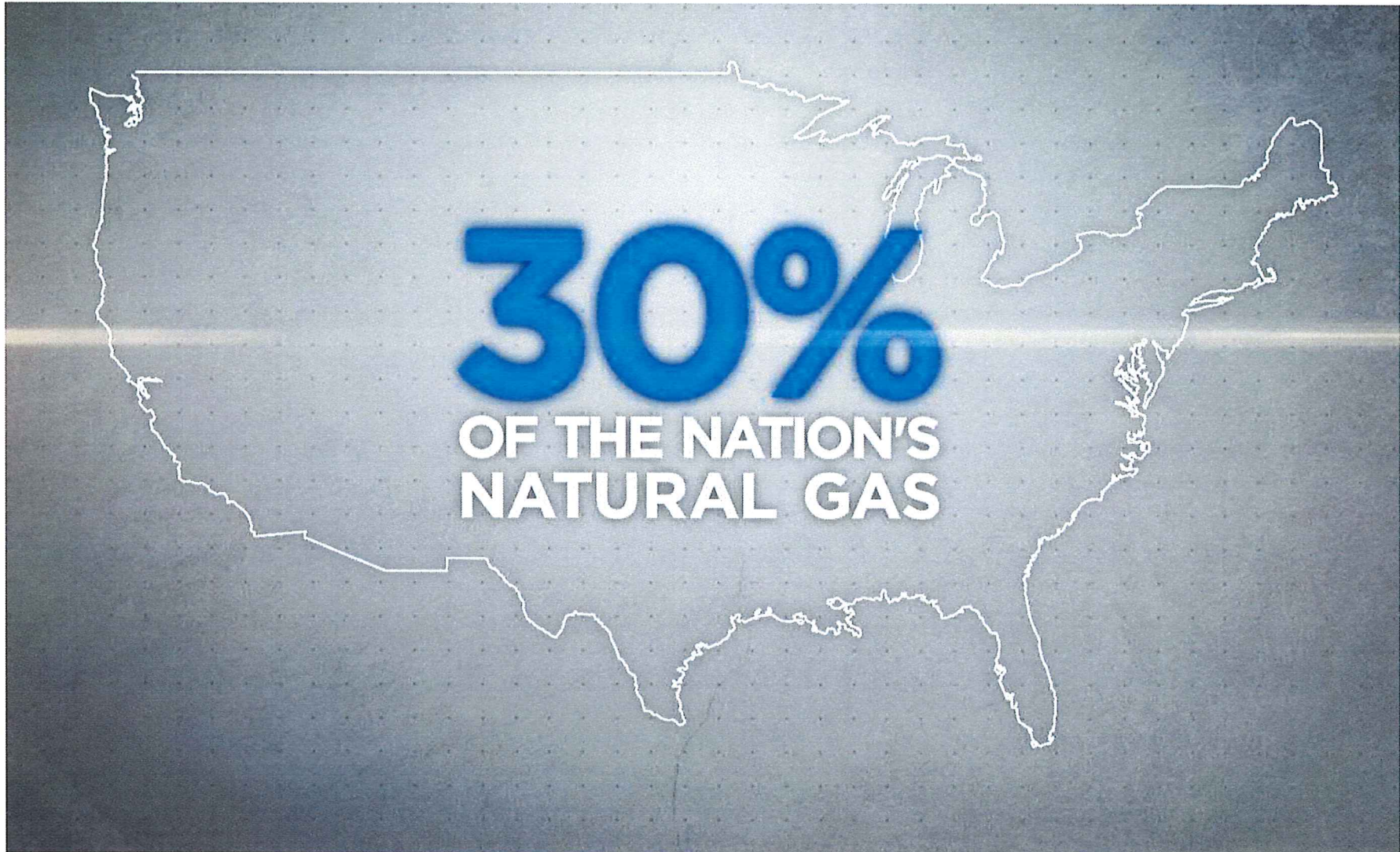


# Williams is one of the premier natural gas infrastructure providers in North America





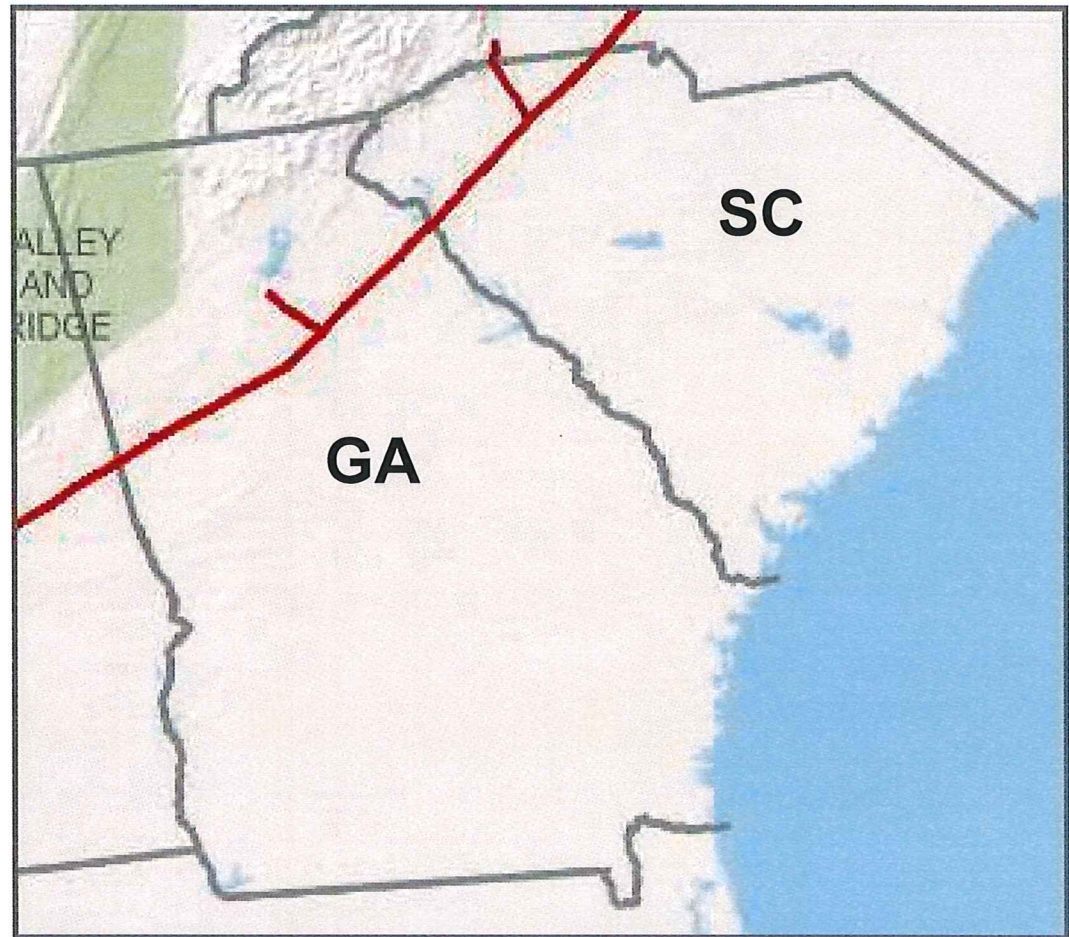
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## Williams has reliably served Georgia for more than 60 years

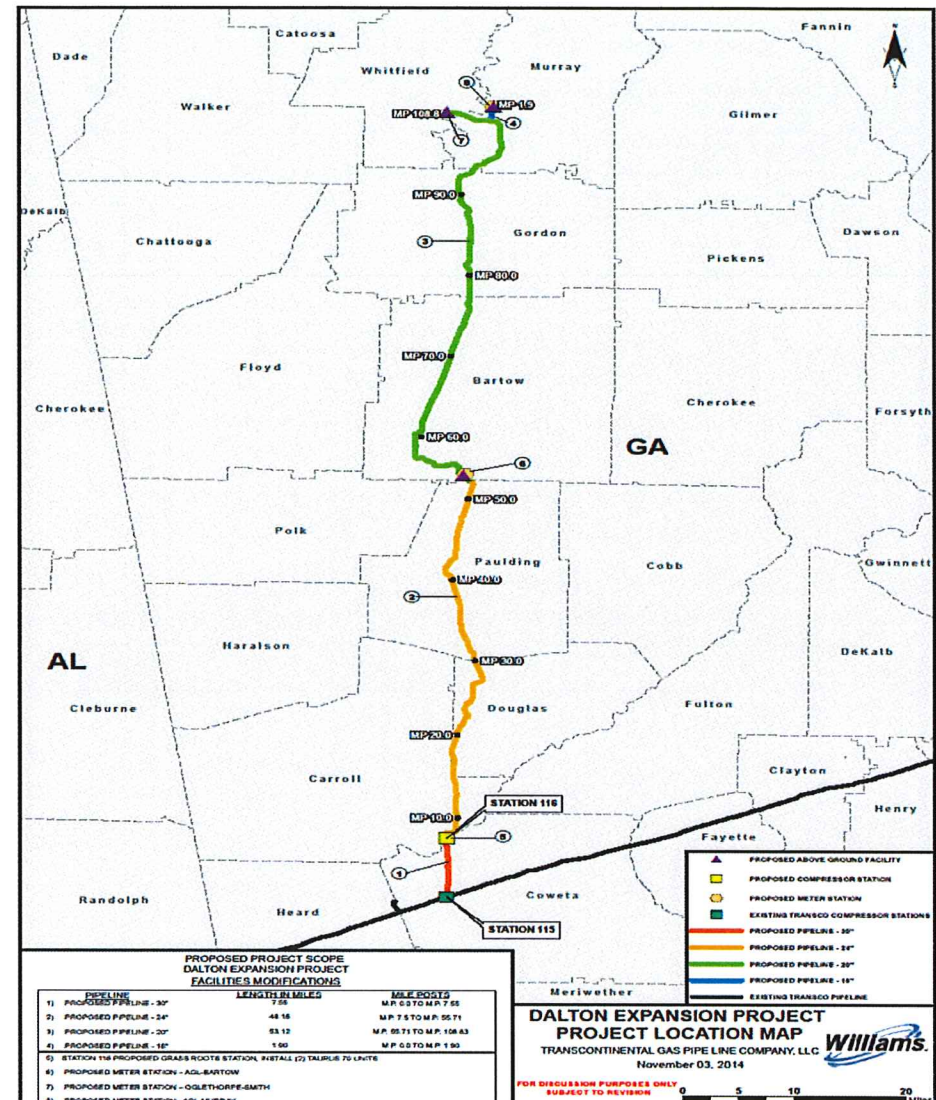
- Reliably served Georgia for more than 60 years
- Provides service to major local distribution companies such as Atlanta Gas Light -- the largest natural gas distribution company in the Southeast
- Delivered 40% of the natural gas consumed in Georgia in 2016
- Operates 821 miles of transmission pipe
- Delivered 299 billion cubic feet in 2016





# Dalton Expansion Project

- Designed to transport approximately 448,000 dekatherms of natural gas per day (enough natural gas to meet the daily needs of about 2 million homes).
- Customers:
  - Atlanta Gas Light (local distribution)
  - Oglethorpe Power Corp. (electric generating)
  - City of Cartersville (municipality)
- Permit application filed with the FERC in March 2015
- Construction started late 3Q 2016; In-service date: August 1, 2017





# Project Scope

- Approximately 115 miles of new transmission pipeline
- Greenfield 21,800 HP compressor station (Compressor Station 116) consisting of two gas turbine-driven compressors in Carroll County.
- Three new meter stations in Paulding (1) and Murray (2) Counties.
- Additional equipment associated with the new pipeline include mainline valves and pig launchers/receivers facilities.
- Modifications to Transco's existing mainline facilities in Virginia and North Carolina to enable transportation of natural gas to the Dalton Lateral.



# Land Facts

## Affected landowners

- Total affected tracts: 770
- Landowners within 600' survey corridor: 1,333

## Collocation in existing right of way

- The Dalton pipeline is adjacent to or collocated with existing utility corridors for approximately 55% of the 115 miles

## Landowner relationships

- Critical to treat landowners fairly and with respect, maintaining communications with them throughout the construction process





# Land Civil, Environmental and Cultural Surveys

## Used to Collect Critical Information in Route Development

- With permission, each property was visited by various specialists in land, engineering, cultural, and environmental sciences.
- All information collected was used to help Williams determine the location of the proposed pipeline facilities.
- Survey corridor was 600 feet in width.
- Worked closely with the GA SHPO, Native American Tribes, GDNr, FERC, and other stakeholders to mitigate any adverse effects.



# Environmental meetings with county, state and federal agencies

**As part of the permitting process, Williams worked closely with:**

- Federal Energy Regulatory Commission (FERC)
- US Fish & Wildlife (USFWS) Service
- Georgia Department of Natural Resources (GDNR)
- US Army Corps of Engineers (USACE)
- Georgia Environmental Protection Division (GEPD)
- Other various state / county environmental agencies

Williams gave a “Pipeline 101” course to explain general pipeline construction methodologies and waterbody crossing techniques.



## Pipe Storage Yard





# Pipeline Construction





# Pipeline Construction





# Compressor Station Construction





# Successes

- Project Team overcame a five month FERC delay in schedule
  - Utilized Georgia Writ of Entry laws to gain access to survey 98% of route.
  - Received all other federal, stat and local permits in advance of FERC Certificate.
- Built and leveraged relationships and environmental mitigation strategies with state and local agencies.
  - Worked with USFWS to write the Biological Opinion (BO) before FERC officially requested “consultation” to begin, resulting in the BO being submitted to FERC a few weeks later instead of the typical 150 days.
  - Worked with USFWS and the state agencies to fund a white nose bat syndrome field study.
- Compressor Station 116 executed with minimal change orders, no safety issues.
  - Pre-built foundation forms offsite to allow for concrete to be poured quickly.
  - Incentivized contractor for both schedule and safety.
  - Contractor was able to be mechanically complete and pre-commissioned in 7 ½ months.
- Earned Value Management (EVM) helped mitigate Extra Work Requests (EWRs).
- Successfully crossed the Etowah River with a wet, open cut.
  - Completed the crossing of the river with no issues and on time for the Lake Altoona Dam to begin normal releases in the spring.
- Customer confidence and coordination with Operations.
  - Successfully cleaned, dried, commissioned system with no customer impacts or delays.



**Questions?**

**and**

**Thank you**