



# Roanoke County Board of Supervisors

October 14, 2014

# Who is Mountain Valley Pipeline, LLC

## Joint venture of EQT Corporation and NextEra Energy

- EQT: Leading Appalachian natural gas production and transmission company with operations in Virginia, West Virginia, Kentucky, Pennsylvania, Ohio and Texas
- NextEra Energy: Diversified energy company with generation assets in twenty six states and the largest generator of renewable energy from wind & solar in North America

**EQT is majority owner of the Joint Venture and an EQT affiliate company will operate the Mountain Valley Pipeline**

# Why the Mountain Valley Pipeline

## **Growing demand for low cost, clean-burning natural gas in the Southeast**

- Traditionally served by supplies from Gulf Coast
- Consumers = population growth
- Electric generation = conversion of coal-fired facilities to natural gas
- Manufacturing = access to low-cost energy and redundant supplies

## **Connect the prolific supply of natural gas in the Marcellus and Utica region to the increased demand in the Southeast**

- Production exceeds average regional demand
- Address producers' supply & infrastructure constraints
- Deliver reliable access and supply diversity to growing markets

## **Local economic benefits**

- Promotes positive economic development in regions along the route
- Creates jobs, particularly during planning & construction stages

# About Mountain Valley Pipeline

## Current design

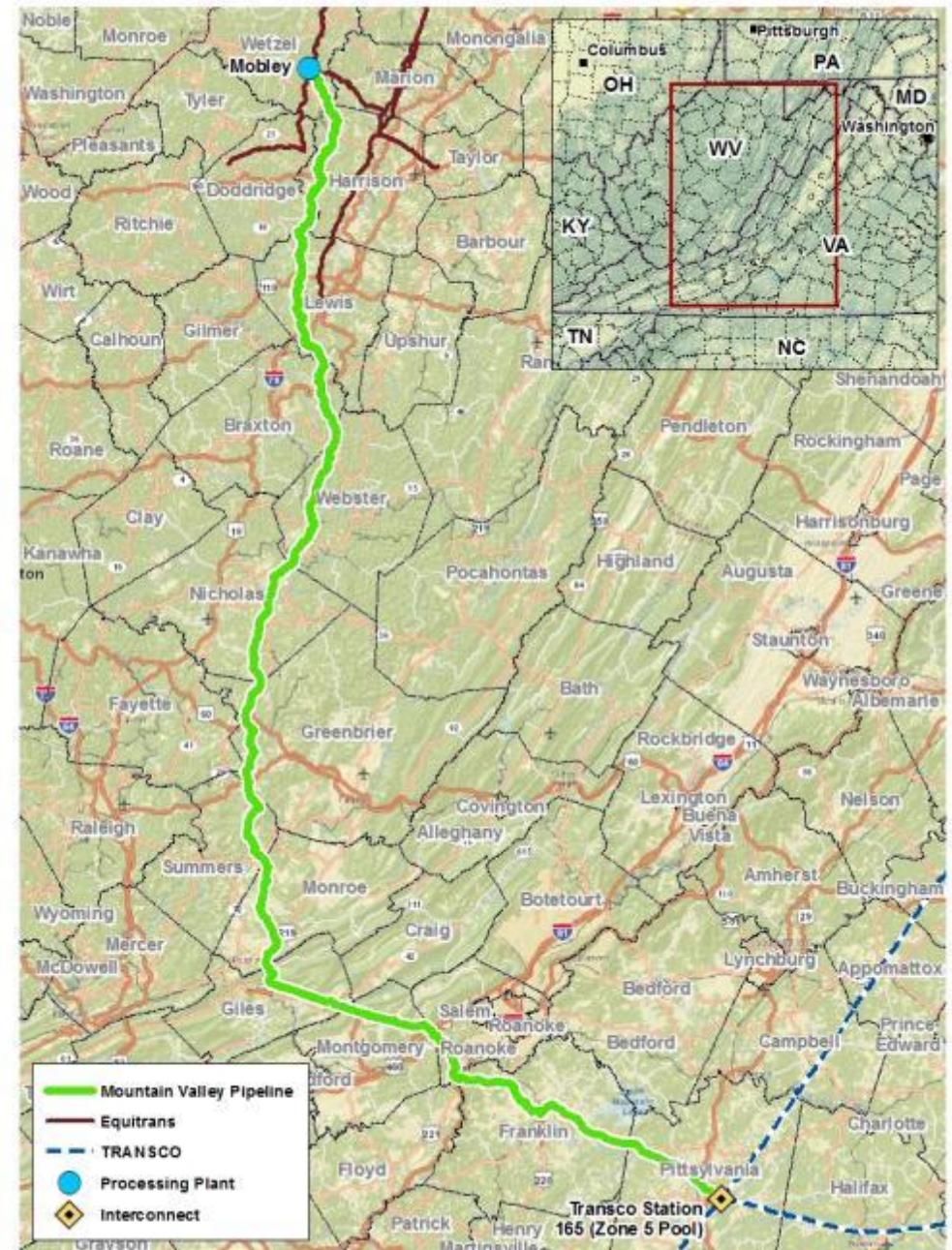
- Approximately 300 miles from Wetzel County, WV to Pittsylvania, VA
- Pipeline diameter of 36" – 42"
- Total of 3 – 4 compressor stations

## Current capacity

- Secured 20-year commitments of 2 Bcf/day
- Shipper interest continues; open season extended

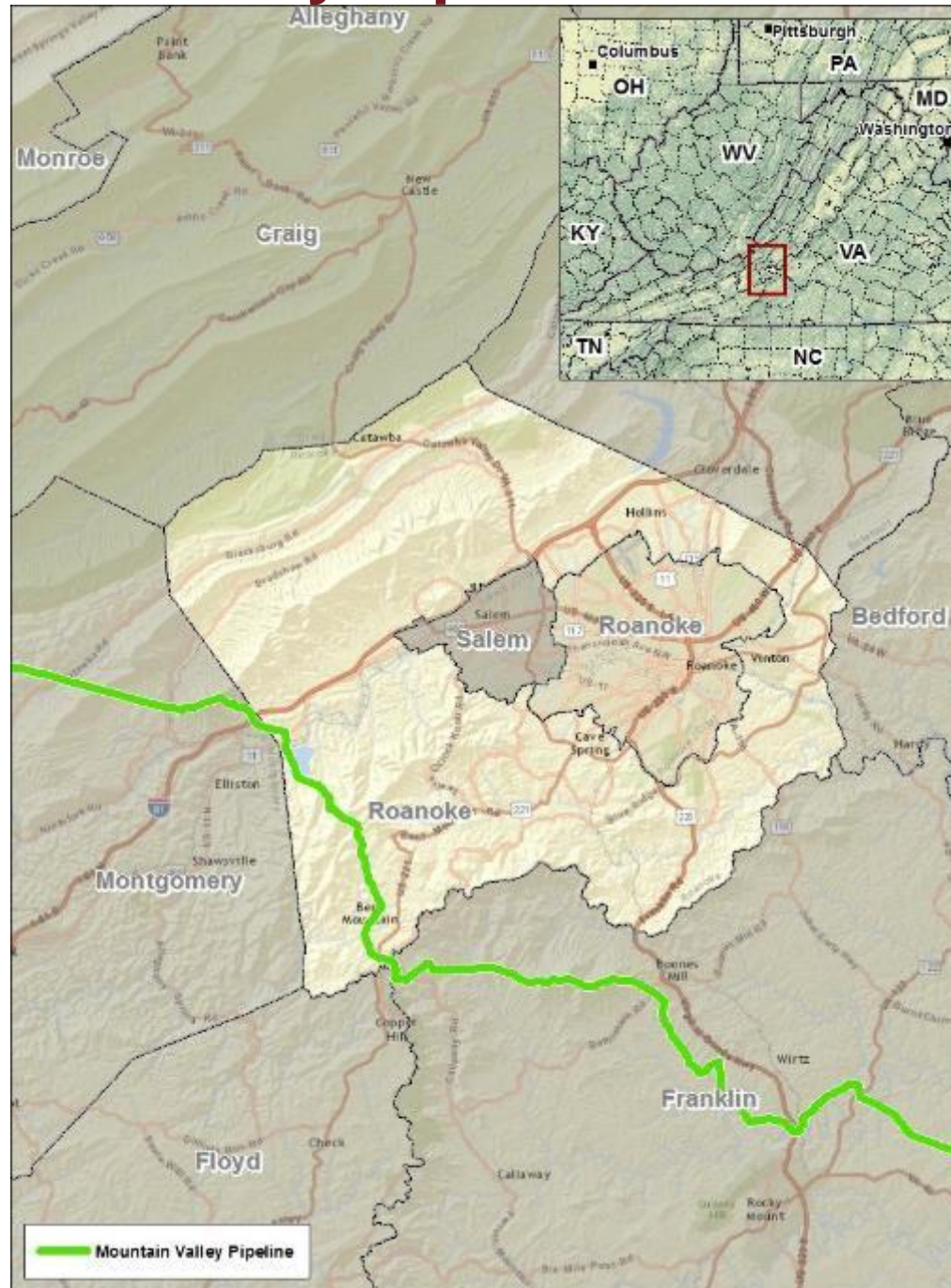
## Estimated Cost

- \$3.0 to \$3.5 Billion

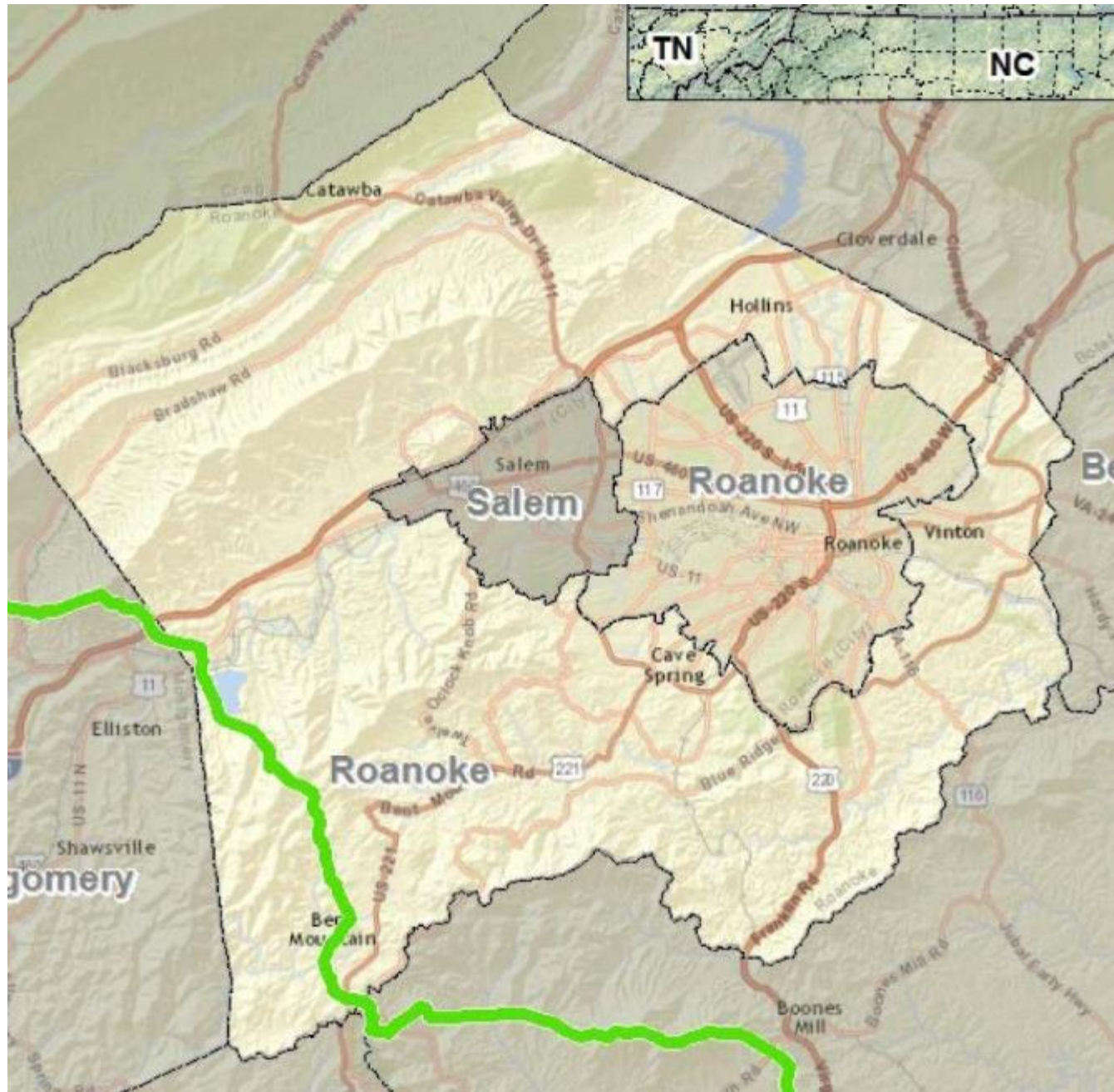




# About Mountain Valley Pipeline



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# Project Overview

## Commercial

- Extended Open Season to solicit additional commitments to ship natural gas

## Route Development

- Proposed route announced on October 7, 2014
- Permission for landowner access and survey activities
  - Letters to be sent to landowners along study corridor
  - Seeking permission to study 300 foot corridor
  - Survey activity to begin in October
- Survey data will result in route refinements

## Regulatory

- Interstate natural gas pipelines regulated under the Natural Gas Act which is administered by the Federal Energy Regulatory Commission (FERC).
- Will require a Certificate of Public Convenience and Necessity issued by the FERC

# Federal Energy Regulatory Commission (FERC) Process and Timeline

- FERC has primary jurisdiction over U.S. interstate natural gas pipeline projects
- Review by other state & federal agencies, including the U.S. Army Corps of Engineers, U.S. Fish & Wildlife Service, and each state's equivalent Department of Environmental Protection

Activity	Schedule
Route analysis & development	March 2014 (ongoing)
FERC pre-filing request	October 2014
FERC application	Fall 2015
FERC certificate	Fall 2016
Targeted construction begins	December 2016
Targeted in-service	Fourth Quarter 2018



# Community Participation & Comment

**Community engagement is integral during all phases of pipeline development – from permitting to construction, and throughout maintenance operations**

Pre-Filing Activity	Schedule
Initial project announcement	June 12, 2014
Landowner survey permission letters	Mailings began late June 2014
Letters to local officials & agencies	August - September 2014
Meetings with Boards of Supervisors and County Commissions	October 2014 (and ongoing)
FERC pre-filing process begins	November 2014
Community open houses (initial)	December 2014
FERC scoping public meetings	Spring 2015
Community participation & comment	2014 – 2016

# Environmental Protection

## Pipeline Construction Requires Compliance with federal and state environmental laws

- National Environmental Policy Act, Endangered Species Act, National Historic Preservation Act, Clean Water Act, Clean Air Act and other relevant laws

## Engineering Controls During Construction

- Erosion and sediment control measures
- Spill prevention planning and protection
- Monitoring sensitive resources and habitats

## Environmental Management During Construction

- Environmental training for all construction contractors
- MVP environmental inspectors, FERC and other agency inspectors
- Weekly monitoring and reporting to FERC

## Restoration of Disturbed Area

- FERC restoration oversight
- Enhanced reclamation for wildlife

# Pipeline Safety

## Regulated by the U.S. DOT's Pipeline and Hazardous Materials Safety Administration

### Pipeline Construction

- Steel pipe will be inspected during fabrication at the mills
- Pipes will be wrapped in protective coating to prevent corrosion
- During construction the pipeline is inspected and the welded joints will be inspected using x-rays
- Pipeline will be buried 3 to 4 feet below the surface
- Prior to operation the pipeline will be pressure tested

### Pipeline Operation

- MVP will meet with local emergency response officials, landowners and community leaders to provide education about pipeline operations and emergency response procedures.
- Pipeline will be monitored 24 hours a day through EQT's gas control center
- Right away will be maintained and inspected to protect against third party damage
- Pipeline will be equipped with remote controlled shutoff valves that are monitored 24-hours a day.
- MVP will conduct periodic maintenance inspections, including leak surveys and valve and safety device inspections



# Economic Impact Analysis

## Study on economic benefits from construction and operations

- More than 11,700 full- and part-time jobs
  - More than \$950 million in total value add
  - In Virginia, more than 3,200 full- and part-time jobs and approximately \$211 million in total value add
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- **Conducting study on potential benefits from access to low-cost supply of natural gas**
    - County-by-County Analysis
    - Study to be completed in Mid-October

