



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

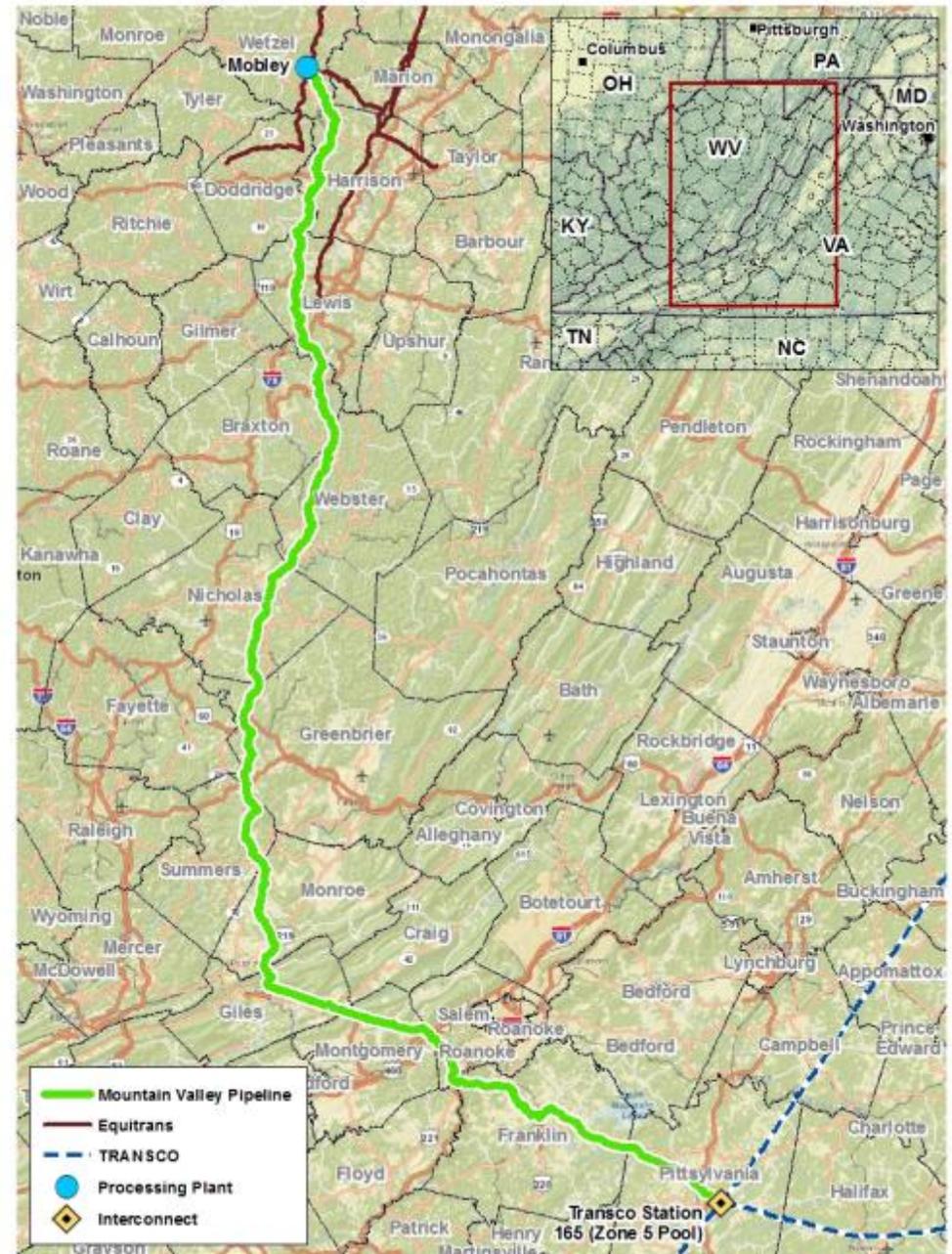
- Approximately 300 miles from Wetzel County, WV to Pittsylvania, VA
- Pipeline diameter of 36” – 42”
- Total of 3 – 4 compressor stations

Current capacity

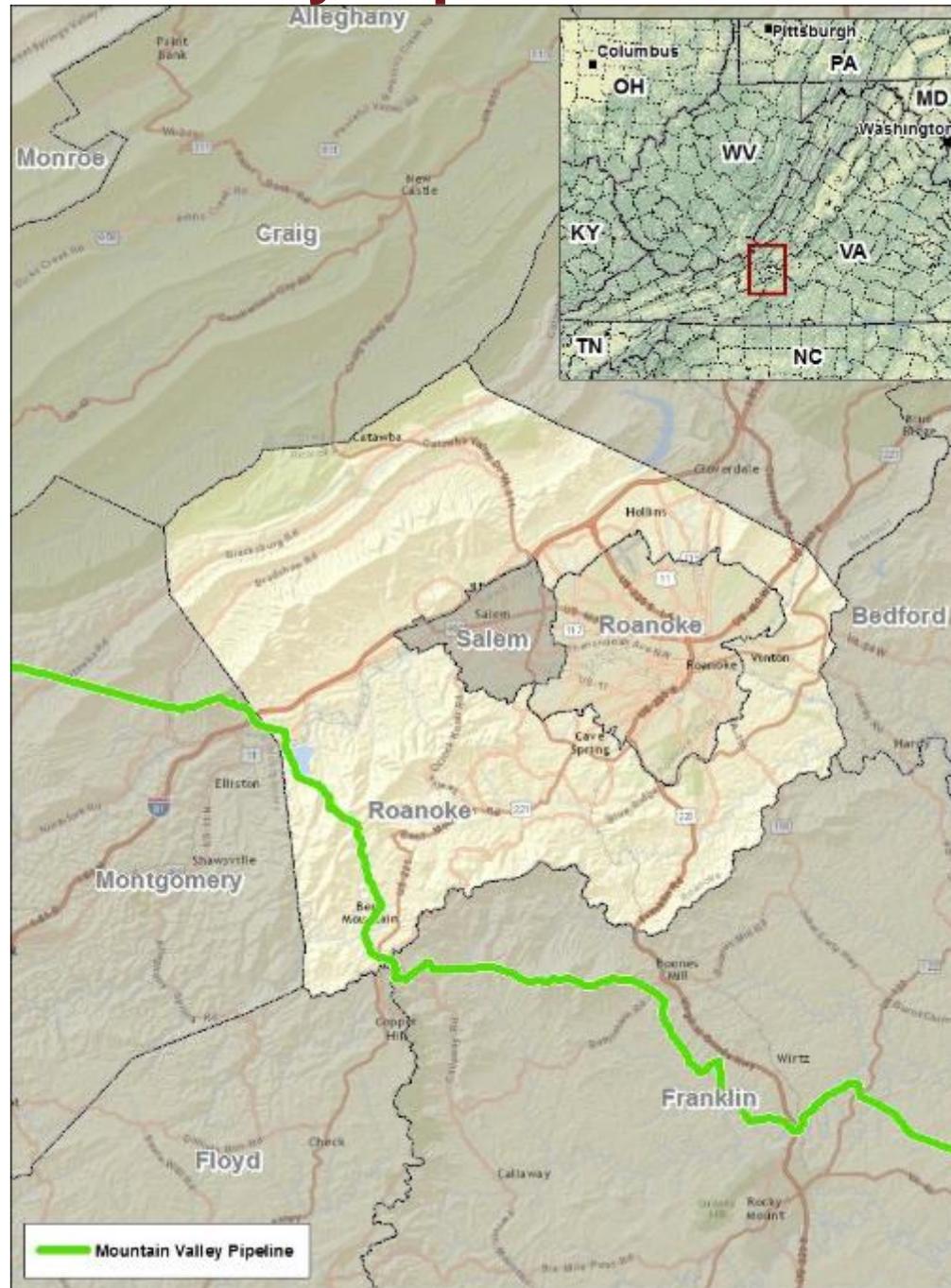
- Secured 20-year commitments of 2 Bcf/day
- Shipper interest continues; open season extended

Estimated Cost

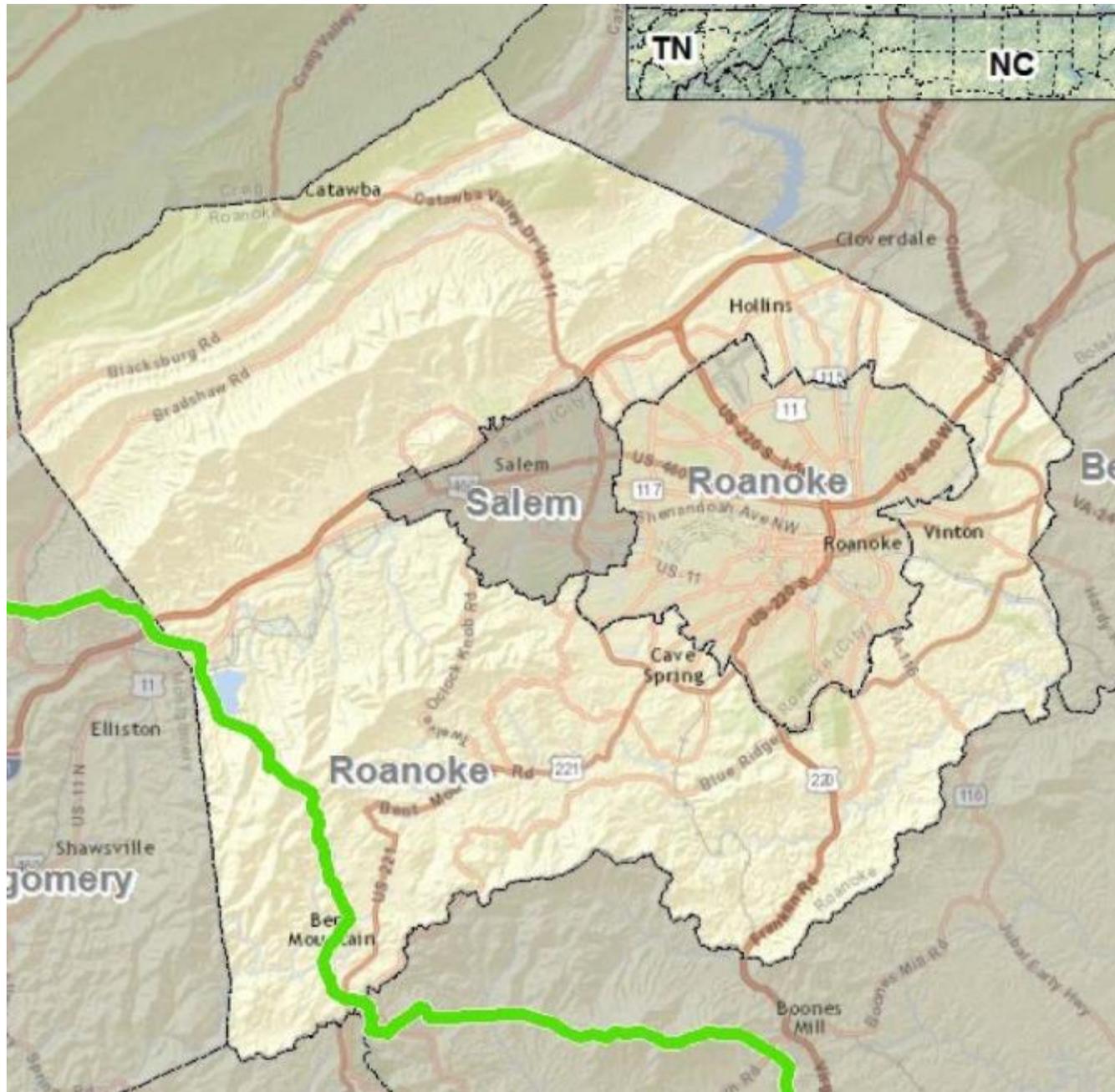
- \$3.0 to \$3.5 Billion



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



Mountain
Valley
PIPELINE