



# Mariner East Pipeline System

**The Mariner East pipeline system provides the needed infrastructure to transport propane, ethane and butane, all known as natural gas liquids or NGLs, from the Marcellus and Utica Shale fields to markets in Pennsylvania and beyond.**

The Mariner East system comprises the Mariner East 1, Mariner East 2 and Mariner East 2X pipelines. Together, these pipelines continue to create thousands of well-paying construction jobs and support hundreds of permanent, family-sustaining jobs. The pipelines provide a safer means of moving NGLs that are otherwise transported through neighborhoods on trucks and trains. They also support continued production in the shale fields in western Pennsylvania, Ohio and West Virginia, bringing further economic growth and opportunity across the state.

The Mariner East system will connect along its route to a new power plant in Cambria County for ethane feed, as well as two local area propane and butane distribution terminals.

Propane, butane and ethane are products of natural gas development. They are gases that come out of the ground with traditional natural gas and are shipped in liquid form. Propane is used to heat homes, businesses and farms, ethane can be used as a fuel for power generation, and butane is a component of gasoline. All three are used as basic feedstocks for making plastics, coatings, clothing and a host of other products we use every day.

## Mariner East 1

Mariner East 1 is an existing eight-inch pipeline that was improved and refitted for the transportation of ethane and propane. Energy Transfer built a new, 50-mile section to the beginning of the line in western Pennsylvania for added connectivity. The Mariner East 2 and 2X pipelines predominantly follow the existing Mariner East 1 right-of-way across Pennsylvania.

## Mariner East 2

The Mariner East 2 pipeline was put into service in December 2018 using mostly 20-inch pipeline. While some areas of the 20-inch pipeline remain under construction, we are temporarily using sections of our 16-inch and 12-inch pipelines in Chester and Delaware counties. Mariner East 2 traverses approximately 350 miles from Ohio through West Virginia and Pennsylvania to our Marcus Hook Industrial Complex in Delaware County, PA. The pipeline also connects to onloading and offloading points within Pennsylvania.

## Mariner East 2X

Our Mariner East 2X pipeline, which parallels Mariner East 2, is currently under construction and is expected to be put into service in late 2019. Mainline construction of the 16-inch NGL pipeline is nearly complete, with the remaining work including horizontal directional drills, pipeline tie-ins and restoration.

## Marcus Hook

As part of the Mariner East project, the Marcus Hook Industrial Complex in eastern Pennsylvania is being revitalized from a former refinery into a world-class NGLs hub. Improvements at the facility have required nearly 9 million man hours, involving more than 5,000 individual workers. In April 2019, Energy Transfer announced a project labor agreement (PLA) with the Philadelphia Building Trades, an association of some 50 local unions. The two-year, \$200 million agreement is estimated to create 1,200 jobs. The facility processes, stores and distributes the NGLs to local markets in and around Pennsylvania, and abroad. Seasonally dependent, approximately 200 trucks per day pick up propane for local deliveries.

## Economic Benefits

In 2018, independent consultant EconSult Solutions released an updated economic impact analysis of the Mariner East pipelines:

**Estimated economic impact of Mariner East 1 and 2 and related projects: \$9.1 billion**

**Ongoing annual impact:**  
\$140 million - \$210 million

**Estimated taxes generated during construction: \$122 million**

**Construction-related jobs:**  
9,500 a year over six years

**Permanent jobs: 360 - 530**

Our presence as a corporate citizen, employer and benefactor in Pennsylvania has had a positive impact on its communities and citizens. Over the last five years, Energy Transfer has contributed more than \$5.8 billion to Pennsylvania's economy, including more than \$7 million in donations to local causes from our Energy Transfer/Sunoco Foundation and corporate commitments. In the last five years, we have contributed:

- **\$3.7 billion** in taxable wages
- **\$50 million** in taxes paid
- **\$1.9 billion** in sales tax
- **\$52 million** in property tax
- **\$7 million** in donations

## Built for Safety and Security

Pipelines are a proven safe mode of transportation for petroleum products that are central to our everyday lives and essential to the United States economy. Energy Transfer is committed to safety at the highest level.

The safety of our employees and the community is our highest priority, and we believe that no project is worth doing if it cannot be done safely. It is every employee's responsibility to conduct business in accordance with this mission, and it is management's commitment to provide the resources, equipment, training and tools to ensure continued improvement.

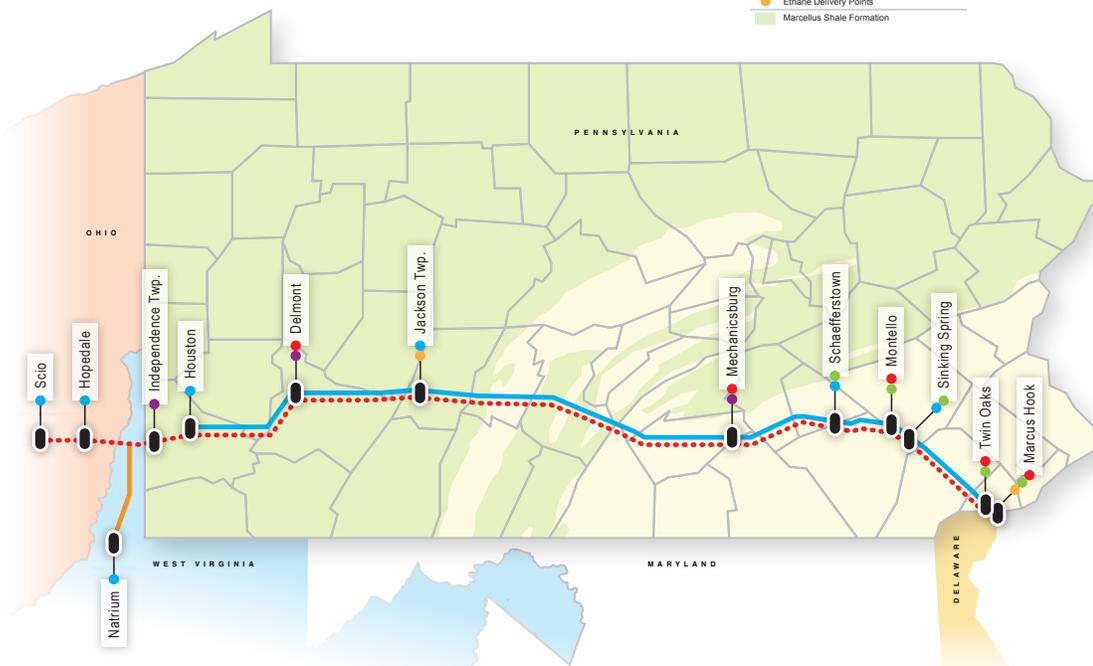
That means rigorous testing of all pipes, using the most advanced technologies available to analyze a pipeline's condition and monitor its operation in real time. Certified controllers closely watch the

pipeline's pressure, temperature and flow, 24 hours a day, seven days a week, from a control center dedicated exclusively to the safe operation of our pipelines. These operators can shut down pipeline operations remotely. We routinely patrol the pipeline route on the ground and by air for any potential hazards, exceeding federal safety regulations in these and other areas. We also reach out to neighbors, contractors and first responders to educate them about the pipelines in their communities.

America's vast pipeline network stretches more than 2.5 million miles. Each year, pipelines carry billions of gallons of petroleum products - including crude oil, gasoline, diesel and natural gas liquids such as propane - from areas where they are produced to areas where they are processed and ultimately used.

**Energy Transfer owns and operates more than 86,000 miles of pipeline, which have been safely moving petroleum products for decades. In fact, Energy Transfer owns the former Sunoco Logistics, which has been operating for more than 85 years.**

## Mariner East Pipeline Project



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