

## What is Mariner East?

The Mariner East projects are designed to provide needed pipeline infrastructure to transport ethane, propane, and other petroleum products from the Marcellus Shale to markets in Pennsylvania and elsewhere. Additionally, the Mariner projects will play a major contributing role in repurposing of the Marcus Hook Industrial Complex as the Northeast hub for distribution of natural gas liquids to commercial markets domestically and globally.

To date, Mariner East Phase 1 has created jobs and economic development opportunities throughout Pennsylvania, and the potential for additional job creation and economic development via Mariner East Phase 2 will be recognized in Ohio, West Virginia, Pennsylvania and Delaware.

### **Mariner East Phase 1**

Mariner East Phase 1 is a project that connects a new, approximately 50-mile pipeline with existing lines to move ethane and propane from operations in Western Pennsylvania to the Marcus Hook facility along the Delaware River, where the products will be processed and sold in the United States and abroad.

Ethane and propane are byproducts of natural gas development. In order to utilize these byproducts, a new pipeline to transport ethane and propane as natural gas liquids (NGLs) from a MarkWest facility in Houston, Pennsylvania to Delmont, Pennsylvania will be built as part of the project. It will link with an existing pipeline that runs from Western Pennsylvania to the Marcus Hook facility.

The Marcus Hook facility is located in southern Delaware County, outside Philadelphia. A portion of the facility is in the state of Delaware.

### **Mariner East Phase 2**

Mariner East Phase 2 is a project to build a new pipeline from Ohio through West Virginia, Pennsylvania and Delaware to transport Liquid Petroleum Gases (LPGs), also known as Natural Gas Liquids (NGLs), to the Marcus Hook facility along the Delaware River. The project will also lead to the creation of an NGL hub for distribution and processing for commercial markets.

Mariner East Phase 2 will expand the capacity of the Mariner East project by increasing the capacity of natural gas liquids moved from the Marcellus Shale to additional on-loading and off-loading points within Pennsylvania via a new 16-inch or larger pipeline.

Phase 2 is an important enhancement to our nation's pipeline infrastructure and will utilize the region's shale resources to create jobs in Pennsylvania and the surrounding region, rather than shipping it to the Gulf Coast. Mariner East Phase 2 is scheduled to be completed in late 2016.

## Pipeline Regulation

Due to the interstate connection of the pipeline, the US Department of Transportation Pipeline and Hazardous Materials Safety Administration is responsible for regulating the pipeline. PHMSA regulates and ensures safe and secure movement of hazardous materials to industry and consumers by all modes of transportation, including pipelines. With respect to intrastate portions of product movement within Pennsylvania, the Pennsylvania Public Utility Commission (PUC) regulates the service of pipeline operators and collects public utility tax on pipeline revenue.

## Built for Safety and Security

Pipelines are a proven safe mode of transportation for petroleum products that are central to our everyday life and essential to the United States' economy. Sunoco Logistics L.P. and its subsidiary, Sunoco Pipeline L.P. are committed to safety at the highest level.

The safety of Sunoco Logistics' (SXL) employees and the community is our highest priority as an organization, 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, new and existing, 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, 7 days a week from a control center dedicated exclusively to the safe operation of our pipelines, and can shut down pipeline operations remotely. We patrol the pipeline route, or right-of-way,

on the ground and by air for any potential hazards. And we reach out to neighbors, contractors and first responders to educate them about the pipelines in their communities.

America's vast pipeline network stretches over 2.5 million miles. Each year, pipelines carry billions of gallons of petroleum products -- including crude oil, gasoline, diesel and natural gas liquids like propane -- from areas where they are produced, to areas where they are refined and ultimately used. Sunoco Pipeline has been moving all of these products safely for 75 years.

## Economic Benefits

Total amount of Natural Gas Liquids (propane, ethane and butane) per day:

**Phase 1** – 70,000 barrels per day

**Phase 2** – initial capacity of 275,000 barrels per day

Phase 2 Planned Capital Investment:  
\$2.5 billion

Total Planned Capital Investment:  
Approximately \$3 billion in Pennsylvania

## Project Timetable

**Phase 1** – Propane delivery - In-service  
Project completion - Mid 2015

**Phase 2** – Surveying complete  
Land acquisition - Ongoing  
Construction - TBD  
Completion - End of 2016

## Information & Inquiries:

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For additional information visit [SXLPipelineProjects.com](http://SXLPipelineProjects.com) and follow @SXLupdates on Twitter

# Mariner East Projects



- Proposed ME2 Pipeline
- Existing Third Party Pipeline
- ME1 Pipeline
- SXL Terminal Facilities
- Third Party Facilities
- Propane Delivery Points
- Marcellus Shale Formation

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