



*Utica East Ohio Harrison Plant,
Scio, Ohio*



The New Home
of American Energy

The Revolution Has Begun

Innovative technology has unlocked vast geological energy reserves present in the Utica and Marcellus shale formations underneath Ohio. Together these plays in Ohio, West Virginia, and Pennsylvania have accounted for 85 percent of U.S. shale gas production growth since the start of 2011. A recent study from IHS Markit estimates that by 2040, nearly half of all U.S. natural gas production will come from the Ohio Valley. The abundance of natural gas and natural gas liquids (NGLs) derived from these shale plays has dramatically changed the energy landscape. Combined with a deregulated energy market allowing for low-cost electricity, and the state's proximity to end markets, the availability of these plentiful and low-cost feedstocks make Ohio the best option for midstream and downstream investment. That's why the state has seen more than \$93 billion in upstream, midstream, and downstream private investment to date.



MarkWest Processing Plant, Hopedale, OH. This plant is critical to separating valuable natural gas and NGLs, and getting both to market.



Unprecedented Investment in Ohio's Energy Infrastructure

3,537 Permitted wells in Ohio's Utica Shale through January 2022

Through December 2020, a Cumulative Investment of **\$93 Billion**

Upstream	\$63.7 Billion
Midstream	\$21.3 Billion
Downstream	\$8.0 Billion

What Ohio Can Do for You

What you find here, you won't find anywhere else.



Benefit from an efficient start-to-finish process including a swift permit issued by the Ohio EPA within 180 days of receipt of a completed application as required by law. JobsOhio connects you to the Ohio EPA and other resources to expedite processes and operations.



Ohio's integrated transportation infrastructure provides seamless national and global access. The state ranks second nationally with 10 major rail yards and 13 intermodal terminals. Ports on the Ohio River and Lake Erie provide water access to other states and to destinations around the world.



Ohio offers low-cost energy, a robust electrical grid and a deregulated power market that allows for unique and customized plans.



Ohio is #1 in polymer and plastics output and the #1 consumer of polyolefin in the Midwest. (OH, PA, NY, MI, IN, KY, WV, IL)

The Energy Landscape Has Changed. Have you?

A recent study finds significant financial advantages for downstream producers in Ohio when compared to the Gulf.

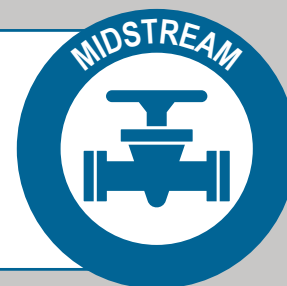
A report commissioned by Ohio Valley energy advocate Shale Crescent USA from IHS Markit evaluated and compared the hypothetical returns of major petrochemical and plastics investments made in both Ohio and the Gulf region of the U.S. The result? Ohio comes up with a big win. Low-cost, locally produced supplies of NGLs like ethane bring down ethylene and polyethylene manufacturing costs. Plus, Ohio enjoys close proximity to more than two-thirds of U.S. polyethylene consumption. The bottom line: the same plant transplanted from the Gulf to Ohio could offer a pre-tax cash flow advantage of \$3.6 billion over a 20-year time span.



Upstream Extractors



Fractionators/Processors • Liquid Storage • Gas Pipelines • Liquid Pipelines



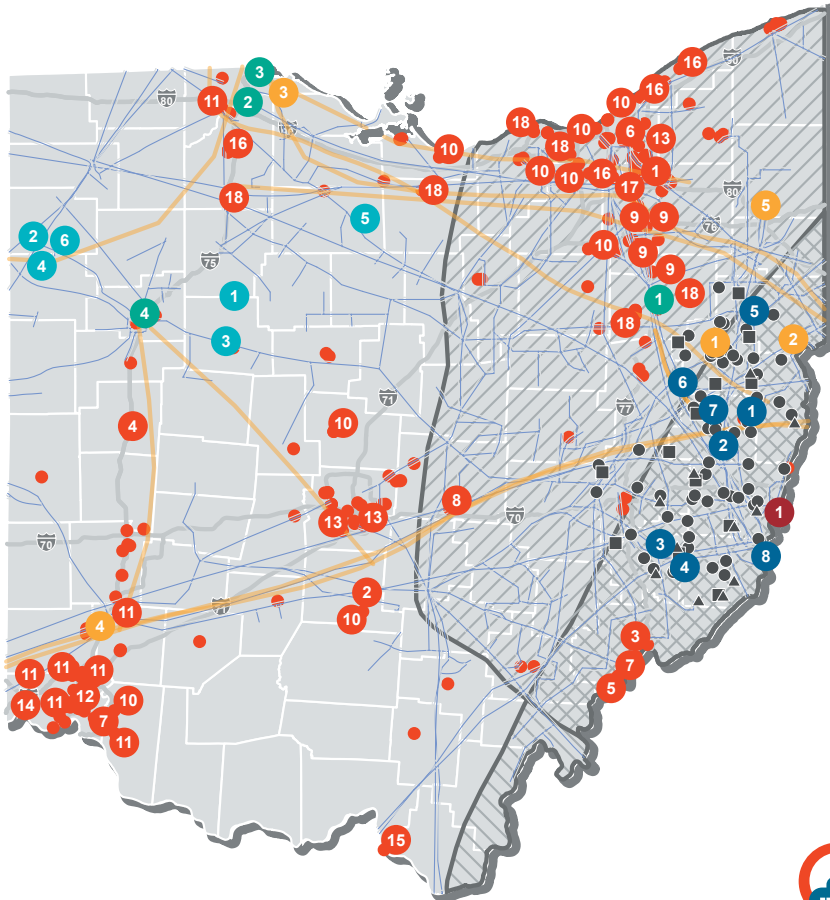
Industrial Chemicals, Coatings and Polymers Companies • Power Generators • Refineries • Ammonia Plants Ethane Steam Crackers • Methanol Plants



These Energy and Chemical Companies Call Ohio Home

Our Infrastructure. Your Advantage.

Every part of the energy value chain is represented in Ohio. This means companies that choose Ohio gain the advantages that come with having an accessible, affordable, and sustainable source of natural gas and NGLs. The availability of these natural resources, along with Ohio's proximity to U.S. and Canadian markets, its integrated transportation network, its business-friendly regulatory environment and established infrastructure explain why Ohio is an ideal location to launch or grow an energy-related company.



UPSTREAM

Wells & Exploration Production

- - Producing Wells
- - Drilled or Drilling Wells
- ▲ - Permitted Wells
(1 Dot Indicates 25 Wells)
- ▨ - Utica Region
- ▩ - Marcellus Region

MIDSTREAM

Fractionators & Processors

- 1 - MarkWest Hopedale
- 2 - MarkWest Cadiz
- 3 - MarkWest Seneca
- 4 - Berne Cryogenic Processing Plant
- 5 - Momentum UEO Kensington
- 6 - Momentum UEO Leesville
- 7 - Momentum UEO Scio
- 8 - BRM Natrium
- - HGL Pipelines
- - Natural Gas Pipelines

DOWNSTREAM

Gas Powerplants

- 1 - Advanced Power Carrollton
- 2 - Advanced Power Wellsville
- 3 - Oregon Clean Energy
- 4 - NTE Energy
- 5 - Lordstown Energy Center

Refineries

- 1 - Marathon
- 2 - PBF Energy
- 3 - BP Energy
- 4 - Husky Energy

Renewables

- 1 - EDP
- 2 - Amazon Web Services Central 1
- 3 - Amazon Web Services Central 2
- 4 - Iberdrola Renewables
- 5 - Seneca Wind
- 6 - Starwood Energy

Chemical Companies

- 1 - Saint Gobain
- 2 - Dupont
- 3 - AmSty
- 4 - Mitsui Chemicals
- 5 - Kraton Polymers
- 6 - Omnova
- 7 - Solvay
- 8 - Covestro
- 9 - LyondellBasell
- 10 - PPG
- 11 - Sun Chemical
- 12 - Emery Oleochemicals
- 13 - Sherwin Williams
- 14 - St. Bernard Soap Co.
- 15 - Altivia
- 16 - Lubrizol
- 17 - Gojo Industries
- 18 - Polyone

- #### Ethane Steam Cracker
- 1 - PTT Global (Planned)

Additional Chemical Companies

To learn about the partnerships and resources available in Ohio, visit JobsOhio.com or reach out to our team:



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