



OhioSE
ECONOMIC DEVELOPMENT

John D. Rockefeller started Standard Oil in Ohio. Shale has returned Ohio into the PetChem spotlight. Eastern Ohio sits atop of the Utica Shale and adjacent to the Marcellus Shale formations, which together now account for 43% of U.S. shale gas production. These abundant hydrocarbons combined with Ohio's transparent, equitable and streamlined regulatory environment have yielded over \$90 billion in upstream, midstream and downstream investment in the shale energy and petrochemical sectors since 2011.

The Utica and Marcellus shales also produce oil and prolific amounts of natural gas liquids, which are the feedstocks of many petrochemicals and plastics. One of the primary NGLs that is being produced in mass quantities is ethane, the major building block for polyethylene, which is the foundation for making most plastic.

The availability of ethane is one reason why PTT Global Chemical is looking at taking the final steps to invest more than \$8 billion in Eastern Ohio for the construction of an ethane cracker. PTT Global Chemical owns a 500-acre site on the Ohio River in Belmont County and has moved forward with site preparation. A final investment decision on the cracker construction is due soon.



Due to shale gas growth in recent years, the OhioSE region has over 3,350 permitted wells with 2,600 drilled and 8,689 producing.

WHY OHIO SOUTHEAST



There are 3,350 permitted horizontal Utica Shale wells in Eastern Ohio



Southeast Ohio is over top of Utica Shale and next door to the Marcellus Shale



We have an abundance of raw materials far below Gulf of Mexico prices



Ohio was ranked 5th Best Regulatory Environment by *Forbes Magazine*

ENERGY + PETCHEM STATS



364

Businesses



8,007

Industry workers*

106%

More jobs in Energy + Chemicals Industry than the national average



1,620 ANNUAL DEGREES COMPLETED

in relevant industry fields

*\$112,972 Average earnings per job

ABOUT OHIOSE

Ohio Southeast Economic Development (OhioSE) is the JobsOhio Network Partner for southern, eastern, and southeastern Ohio, providing economic development services and resources in 25 rural counties.

How we help

- A single point of contact
- Site selection assistance
- Regional data and research
- Connections to key partners
- Incentives
- Talent assistance

Southeastern Ohio is the Choice

"A petrochemical facility in the Shale Crescent USA (Utica & Marcellus shale regions) generates a net present value four times higher than the Gulf Coast."

JERRY JAMES

PRESIDENT, ARTEX OIL COMPANY

RECENT INVESTMENTS

Guernsey Power is currently completing construction on a \$1.6 billion, 1800mw gas-fired, combined-cycle power plant near Byesville.

KEY REGIONAL ASSETS

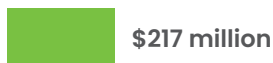
- ▶ We offer great market access by highway, rail & Ohio River barge. A study by IHS Markit Insight found polyethylene production in the Ohio-Pennsylvania-West Virginia region could result in 4X better earnings based on cheaper feedstock and lower freight costs of the end product since 70% percent of the U.S. market for polyethylene is within a day's drive of the tri-state area.
- ▶ Our taxes, wage rates, and utility costs are below national and regional averages. Ohio taxes are some of the most favorable in the USA for manufacturing or any business selling goods and services outside of Ohio.
- ▶ In 2021, the Tax Foundation ranked Ohio 4th most favorable for capital-intensive manufacturers for mature firms and 3rd for capital-intensive manufacturing for new firms.

Net Present Value in 2020, Shale Crescent USA vs Gulf Coast

Plant located in Shale Crescent USA



Plant located in US Gulf Coast



REGIONAL SNAPSHOT

\$42.9 billion Gross Regional Product (GRP)



0%

State corporate income tax



20

Colleges + universities enroll 88,000 annually



89.2

Cost of living index

1,000,447

Regional Population

440,591

Regional Workforce

FAST FACTS

- ▶ Over top of Utica Shale and next door to the Marcellus Shale
- ▶ Abundance of raw materials below Gulf of Mexico prices
- ▶ Ohio ranked 5th Best Regulatory Environment by *Forbes Magazine*
- ▶ Great market access by highway, rail & Ohio River barge
- ▶ Taxes, wage rates, and utility costs below national and regional averages
- ▶ Ohio is the 3rd largest state measured by manufacturing output



LEADING ENERGY + CHEMICAL COMPANIES IN THE OHIOSE REGION

