

WE MAKE THINGS HERE

IDEAS + PRODUCTS + PROFITS

Cleveland+
Akron+Canton+Youngstown

WE MAKE

OIL AND GAS BUSINESSES PROSPER

The Cleveland Plus region is ideally situated near large oil and gas deposits in the Marcellus and Utica Point Pleasant Shale formations. The **proximity to lucrative natural gas liquids (NGLs)** in these formations, coupled with the **strength of the region's supply chain and outstanding access to customers**, makes Ohio — particularly Northeast Ohio — an ideal location for growth-oriented oil-and-gas-related businesses. Investors and workers realize the great potential here as well: Both job growth and investments continue to gain momentum as domestic and global demand for natural gas, NGLs and other end products continues to rise. Ohio's shale and petrochemical production is driving investment and helping other industries grow.

SUPPLY CHAIN STRENGTH

From exploration and production to end-product distribution, Ohio is home to companies representing every link in the supply chain. In Northeast Ohio, shale yields plentiful, sustainable, low-cost feedstocks that are powering the already strong polymer/plastics, rubber and chemical cluster, with the potential to fuel many other advanced manufacturing segments.

PROXIMITY TO MANUFACTURING MARKETS

Cleveland Plus is centrally located, affording businesses easy market access to key manufacturing customers in automotive, aviation, medical devices and many other industries. In fact, almost 50% of the U.S. population and 60% of all U.S. Fortune 500 headquarters are within 500 miles of the region. Our robust logistics network connects companies quickly, through three Class I railroads, five interstate highways and two airports. Additionally, the Port of Cleveland features the Great Lakes' only scheduled direct maritime service to the European continent, enabling shippers in our region and state, and throughout the Midwest, to access global markets faster than moving their goods through coastal ports.

RELIABLE, ACCESSIBLE ENERGY

With easy access to the natural gas found in the Marcellus Shale, manufacturers across Ohio reap the benefit of low-cost, consistent energy to power their companies. And because natural gas-fired plants emit less than half the pollutants of coal-burning plants, they are doing their part to protect the environment.

Residents are benefiting from the region's natural gas sources as well. In fact, Clean Energy Future - Lordstown is constructing a 940-megawatt combined cycle gas turbine (CCGT) electric power generation facility in the village of Lordstown to provide clean power to 800,000 homes. Once completed, this \$890 million facility will leverage the latest high-efficiency technology available.

RESOURCES FOR STRENGTHENING YOUR BUSINESS

Businesses located in Cleveland Plus can tap into the support of a variety of organizations committed to the oil and gas industry:

- + **Ohio Oil and Gas Association (OOGA)** is a trade association with more than 2,000 members involved in all aspects of the exploration, production and development of crude oil and natural gas resources within the state of Ohio. OOGA is committed to protecting, promoting, fostering and advancing the common interests of those engaged in every aspect of the industry.
- + **Ohio Oil and Gas Energy Education Program (OOGEEP)** is a non-profit statewide education and public outreach program. Created in 1998, OOGEEP provides a variety of crude oil and natural gas industry programs throughout the state of Ohio.
- + **Energy in Depth Ohio (EID Ohio)** is an education and outreach initiative exploring the promise and potential of Ohio's homegrown energy resources. EID Ohio looks to be the catalyst for a campaign that seeks to engage, educate and mobilize supporters of responsible energy development throughout Ohio.

NATURAL GAS PRODUCTION IN OHIO IS MORE THAN

4.2
BILLION
CUBIC FEET PER DAY
7 TIMES 2014 OUTPUT

Source: Energy Information Agency
June 2017

OIL AND GAS

- + **Manufacturing Advocacy & Growth Network (MAGNET)** helps advanced materials manufacturers, as well as other manufacturers, adopt innovative manufacturing strategies and techniques.
- + **WIRE-Net** leverages its relationships with more than 400 manufacturers throughout the state to determine who is currently active in the oil and gas industry. This organization can help companies identify Ohio-based manufacturing suppliers.
- + **Ohio Shale Coalition** is a broad-based, statewide partnership for affordable energy and jobs. Its membership includes local chambers of commerce, businesses, development organizations, and individuals who seek to maximize the jobs and economic potential of shale gas and affordable energy production in Ohio.

ACCESS TO TALENT

Northeast Ohio has a diverse and talented labor force, nearly 2 million strong. Higher education, government and corporations are all dedicated to R&D to support the oil and gas industry. Following are just a few of the leaders committed to education:

Case Western Reserve's Great Lakes Energy Institute is an interdisciplinary research institute dedicated to catalyzing breakthroughs in energy to expand knowledge, deepen understanding, and create innovative and sustainable energy solutions.

Case Western Reserve University's Institute for Advanced Materials aims to enhance and energize Ohio's industrial base and manufacturing capability by leveraging a broad range of materials that provide the foundation for innovations in multiple technology sectors.

Youngstown State University's Emerging Center of Excellence in Materials Science and Engineering (ECEMSE) is devoted to the preparation, characterization, and development of materials for practical applications of benefit to society. The ECEMSE is distinguished by state-of-the-art materials characterization facilities, dedicated personnel and a strong commitment to engaging industrial participants in collaborative research.

University of Akron's Institute of Polymer Science and Polymer Engineering is a leader in polymer innovations and applications of research in science, technology, engineering and medicine.

CLEVELAND PLUS OIL AND GAS SUPPLY CHAIN AND SUPPORT SERVICES

- | | |
|-------------------------------------------------|--------------------------------------------|
| + ABB | + Grimsby Exploration Inc. |
| + All States Oil & Producing Company | + Hess Corporation |
| + Central Appalachian Petroleum | + Marathon Petroleum Company |
| + Chesapeake Energy Corporation | + Mark West |
| + Clean Energy Future, LLC | + North American Petroleum |
| + Dominion | + Parker Hannifin |
| + Eaton | + Power Resources Operating Company |
| + Fairmount Minerals | + Rockwell Automation |
| + Franklin Gas & Oil Company | + The Timken Company |
| + GE Oil & Gas | + U.S. Steel |
| | + Vallourec Star |

ABOUT **\$51B TOTAL** INVESTMENT HAS BEEN COMMITTED TO OHIO'S **SHALE VALUE CHAIN** BUILDOUT FROM **2011-2016**

Source: CSU/YSU study for JobsOhio. As of May 2017



Utica Shale Marcellus Shale Cleveland Plus Region

Businesses in the oil and gas industry choose **Cleveland Plus**. From ideas to products to profits, **we make things here**. We make things happen.

Cleveland+
Akron + Canton + Youngstown

We make things here.
Ideas + Products + Profits

To find out more about Cleveland Plus, contact us at **888.NEO.1411**. Or visit **clevelandplus.com** today.

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