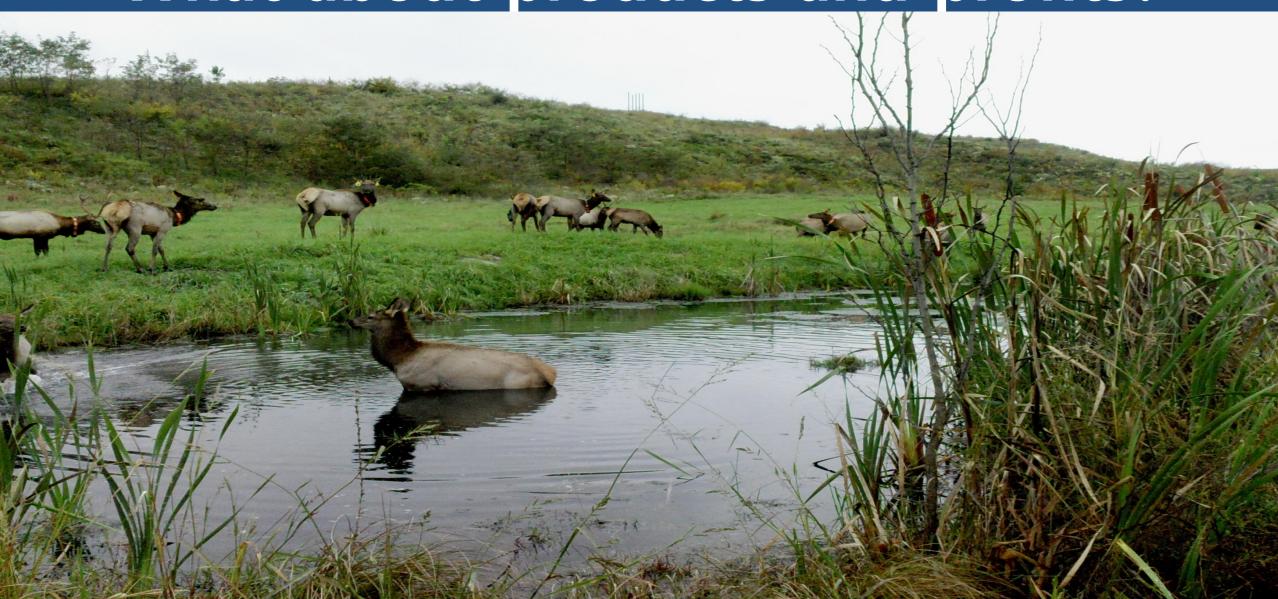


We All Want Clean Air and Clean Water What about products and profits?



Can We Have it All?

An Industrial Dream

- Secure Energy/Feedstock
- Shorten Supply Lines
- Increase Profitability
- Reduce Emissions



We Can Now Reduce U.S. Imports Causing SOx, NOx & CO2



Emissions Advantage:

VS

SHALE CRESCENT USA SUPPLY CHAINS



GLOBAL SUPPLY CHAINS

≈ 20,000 MILES





Build in the Center of Customers:

30% of Canadian population within a 1 day's drive

MARKET DEMAND

70% of North American Polyethylene demand is within a 1 day's drive* SHORTEN SUPPLY LINES Ottawa Toronto Milwaukee New York Detroit Cleveland **Philadelphia** Chicago Pittsburgh Columbus Washington DC Indianapolis Charleston St. Louis Lexington Raleigh Nashville Knoxville Charlotte Memphis Charleston Atlanta **1 DAY'S DRIVE**

50% of the U.S. population is within a 1 day's drive

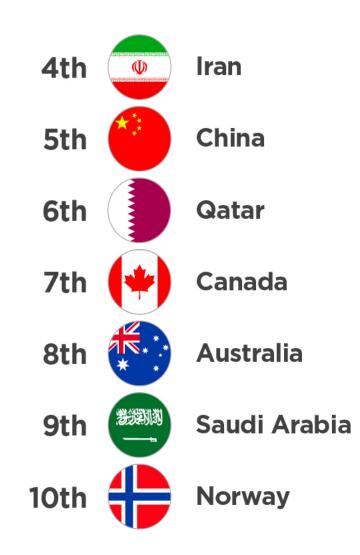
MARKET DEMAND

77% of North American Polypropylene demand is within a 1 day's drive*

*Source: IHS Markit

Build on Top of the Feedstock:





A new global leader in natural gas production:

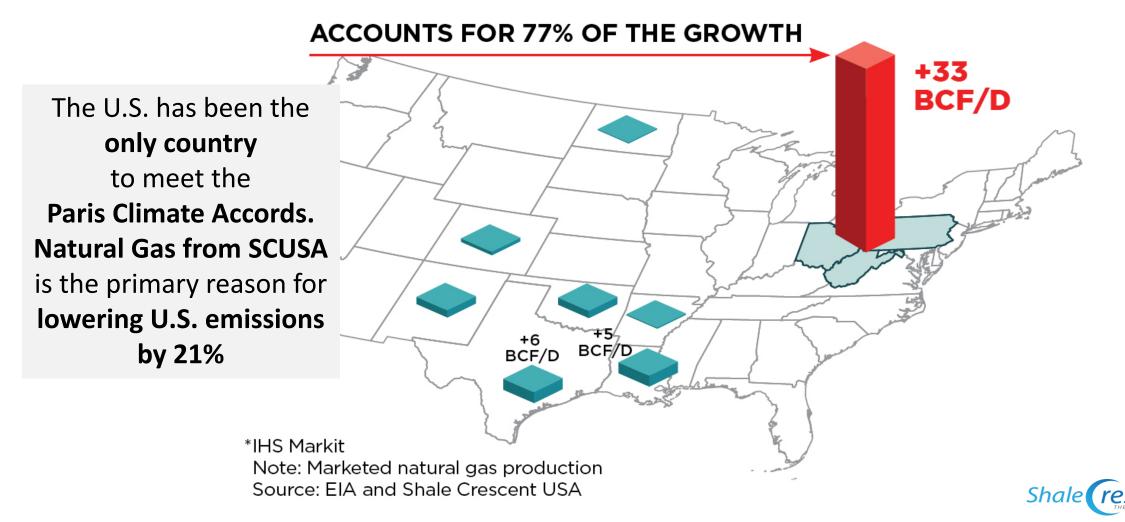
- If Shale Crescent USA were a country, it would be the **3rd** largest producer of natural gas in the world.*
- These 9 countries produce nearly 70% of the natural gas in the entire world.



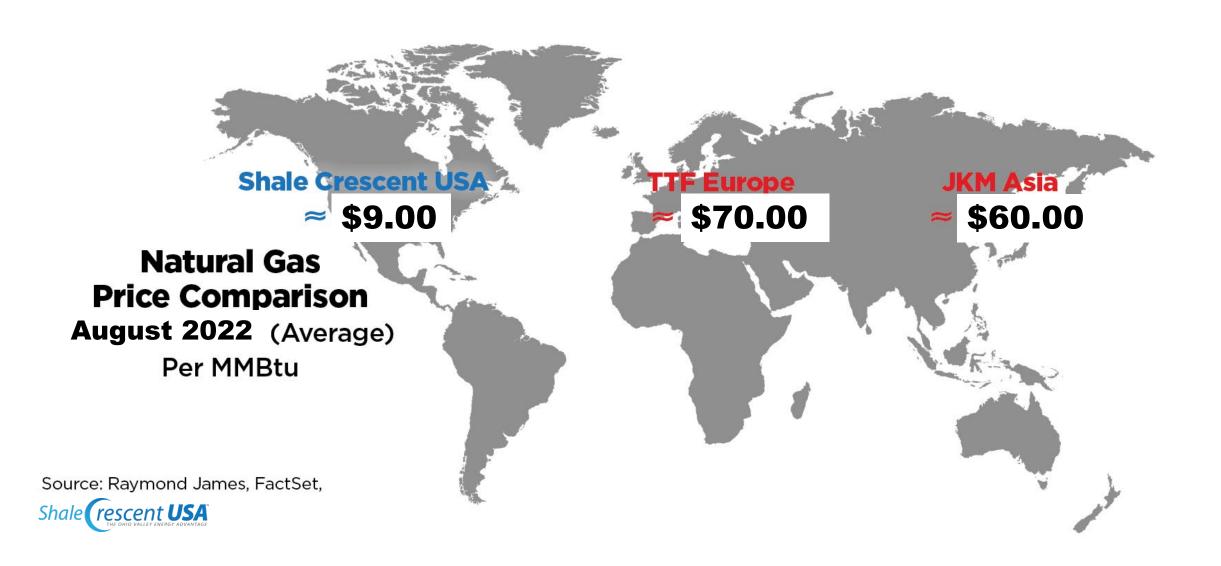
^{*}Shale Crescent USA is Ohio, West Virginia, and Pennyslvania. Source: BP Statistical Review, EIA, Shale Crescent USA

Build on Top of the Feedstock:

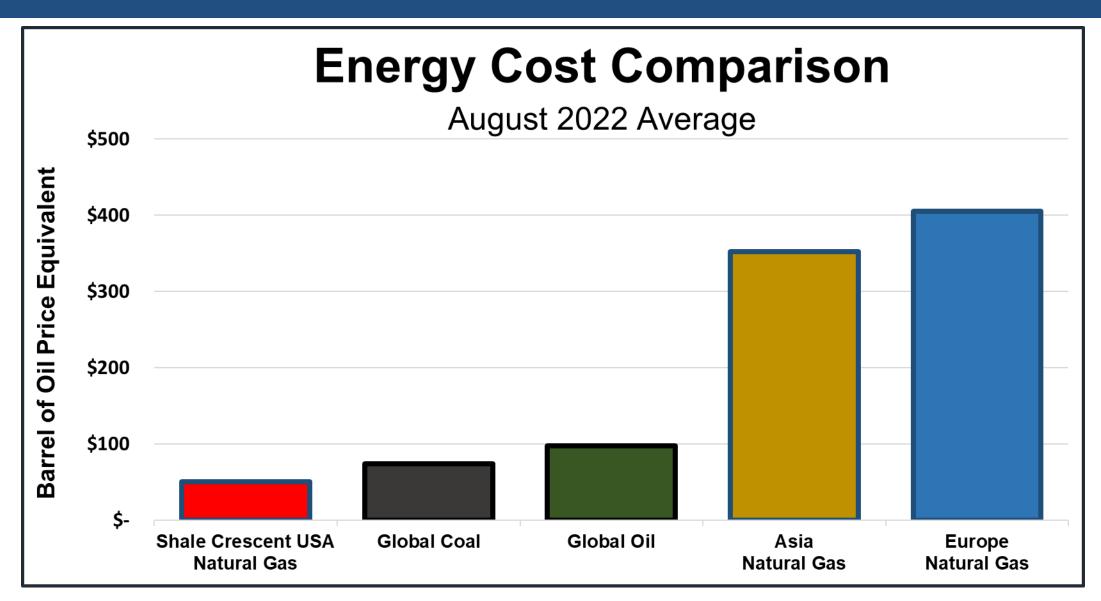
GROWTH IN MARKETED NATURAL GAS PRODUCTION 2008–2021



Profitability: Affordable Energy

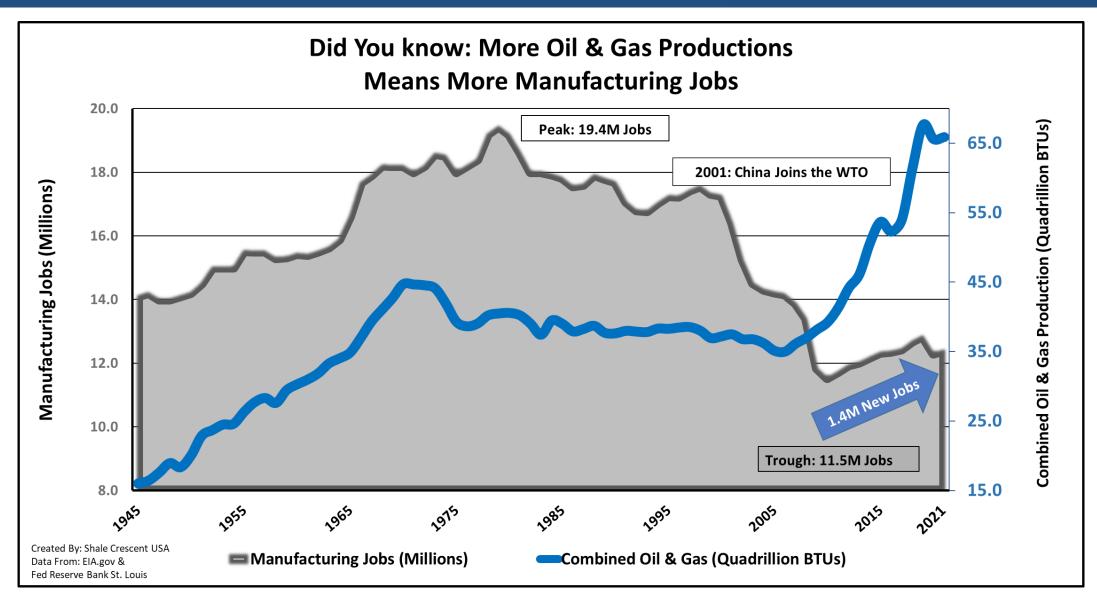


Shale Crescent USA: Most Affordable





Abundant & Affordable Energy is the Key:

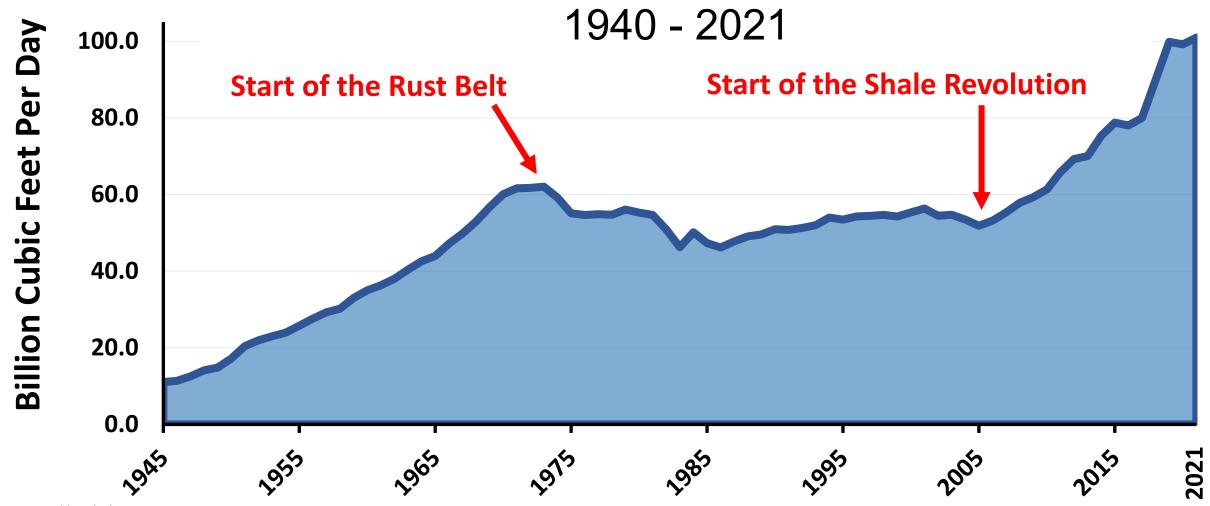




Build on Top of the Feedstock:

U.S. Natural Gas Marketed Production

Shale rescent USA



Created by Shale Crescent USA Source: U.S. Energy Information Administration



World Class Companies

Investing
Tens of Billions
of Dollars
in the



1,100 acres of these are needed to replace...



One of these...

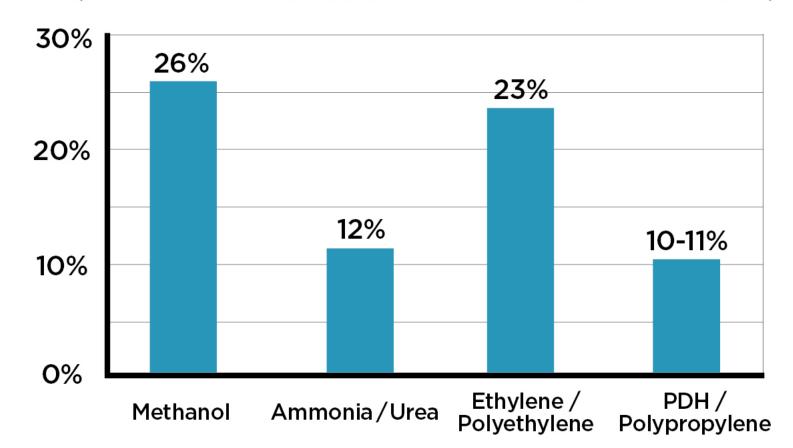




Profitability: Cost of Manufacturing Advantage

SHALE CRESCENT USA COST ADVANTAGE VS. U.S. GULF COAST

(WHEN DELIVERED INTO SCUSA MARKET)



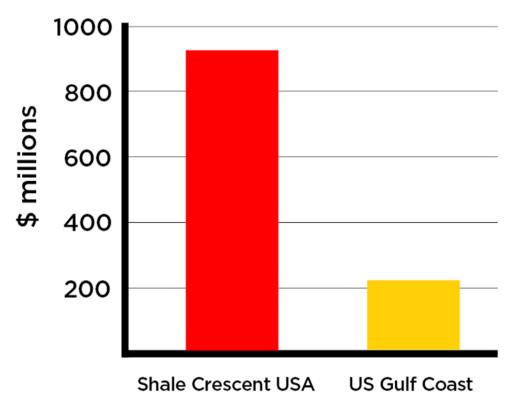


*Source: IHS Markit

Profitability: PE Plant Manufacturing Advantage

NET PRESENT VALUE IN 2020 SHALE CRESCENT USA VS U.S. GULF COAST

APPLYING A 15% DISCOUNT RATE

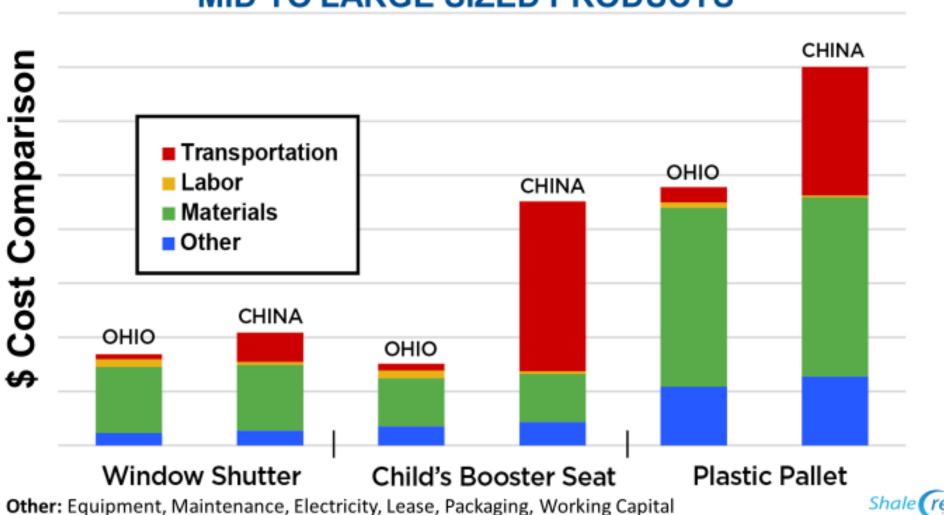




Profitability: Plastics Converter Cost Advantage

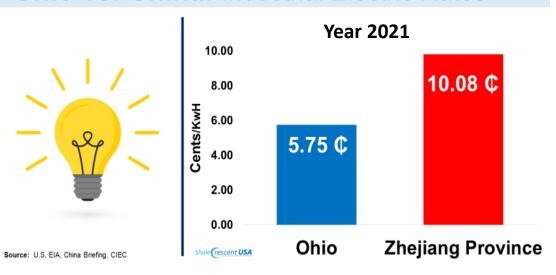
Ohio vs. China Cost of Manufacturing & Transportation



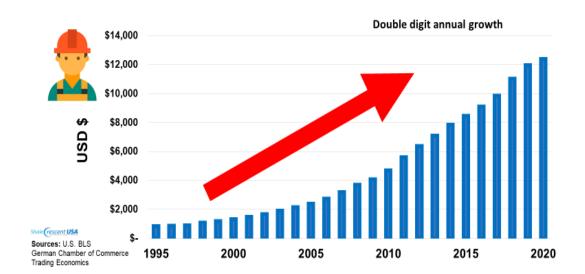


Profitability: Manufacturing Cost Advantage

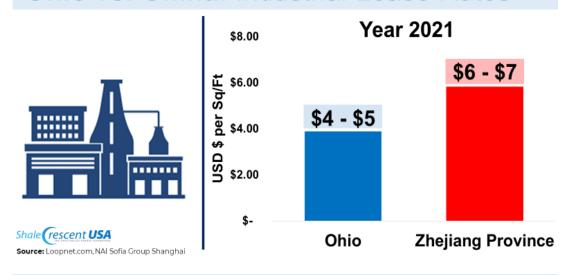
Ohio vs. China: Industrial Electric Rates



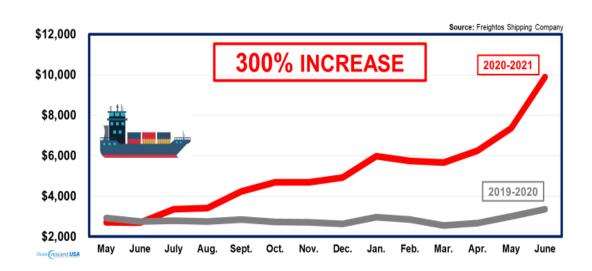
Chinese Manufacturing Labor Rates



Ohio vs. China: Industrial Lease Rates

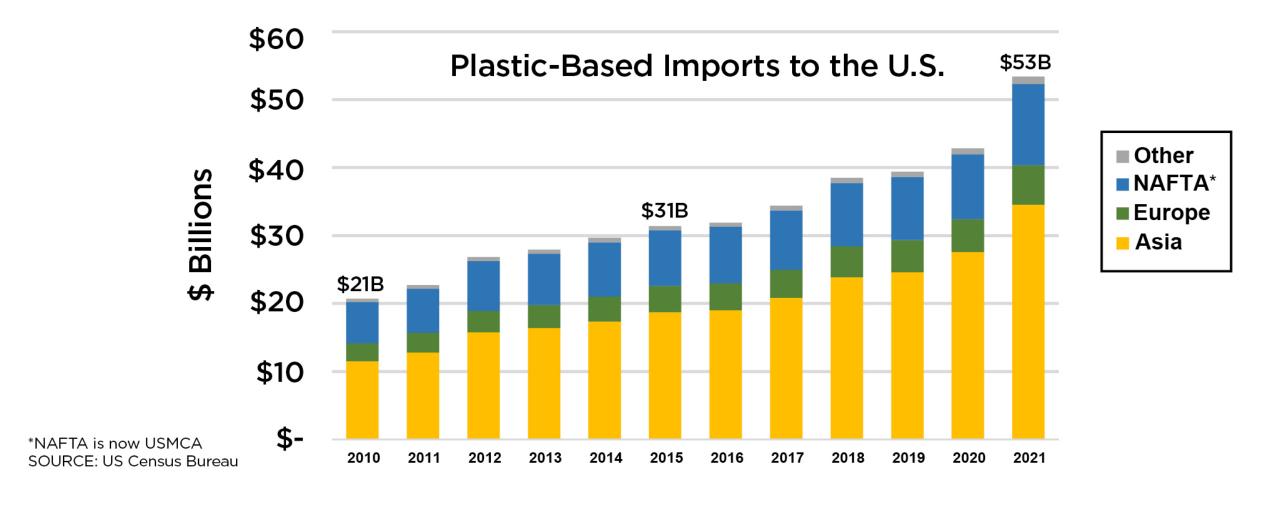


Transportation: China to North American East Coast



Capturing Market Share: Plastics Converter

U.S. MANUFACTURERS ARE COMPETITIVE TO CAPTURE THE ANNUAL \$53 BILLION OF IMPORTED PLASTIC-BASED GOODS



The USA Leads the World in Emissions Reduction as per IEA March 2022

- USA only major country to meet Paris Targets
- USA lowered emissions 21% since 2005 to 4.6GT
- Use of natural gas has increased
- **❖**U.S. consumers saved over \$1.1 Trillion because of lower natural gas prices since 2010
- Chinese emissions doubled to 12 GT since 2005
- SCUSA's natural gas is a major reason for reductions

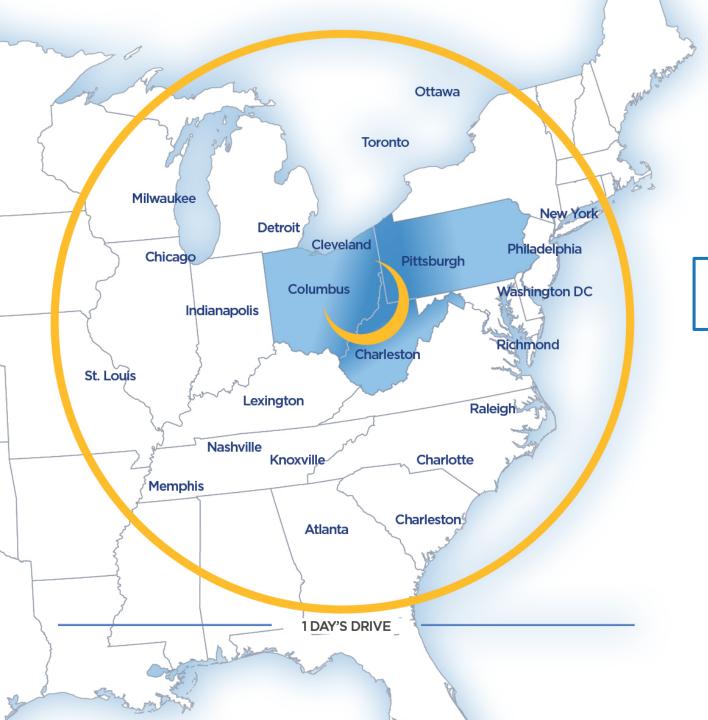


We Can Have It All!

- Secure Energy/Feedstock
- Short Supply Lines
- Increased Profitability
- *Reduced Emissions & High Wage U.S. Jobs







Shale Crescent USA

An American Legacy Reborn.



Thank You:



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Regional Organizations









