

Majority
U.S Market



Natural Gas Price Comparison

2023 Average Price per
Million BTUs (USD\$)



Shale Crescent USA

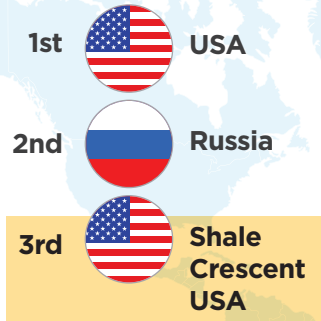
Europe

Asia

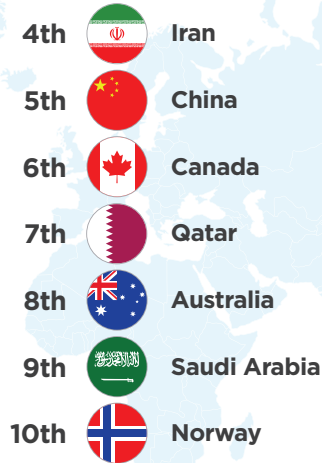
1 Day's Drive

A World Class Opportunity for International Manufacturers

Top Natural Gas Producers in the World



*Shale Crescent USA is Ohio, West Virginia, and Pennsylvania.
Source: BP Statistical Review, EIA, Shale Crescent USA

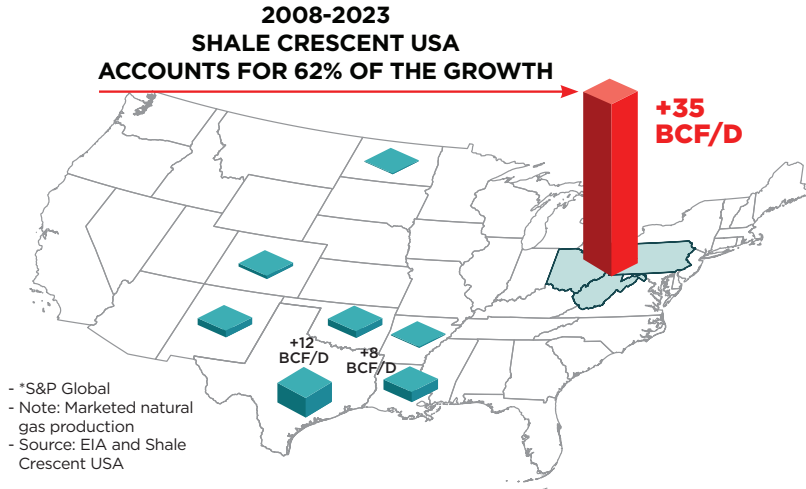


A new global leader in natural gas production:

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

Shale Crescent USA Increased Natural Gas Production

propelled the U.S. as the dominate producer in the world.



Shale Crescent USA:

- Accounts for **34%** of total U.S. natural gas production.
- Will continue to account for over **one-third** of U.S. natural gas production through 2050.*
- NGL production will increase 20% to **0.72** million barrels per day through 2050.*
- Produces **more** natural gas than Texas.

Massive Market & Short Supply Lines

This circle represents **one-third** of U.S. land area

MARKET DEMAND

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

*Source: IHS Markit

Location of Demand



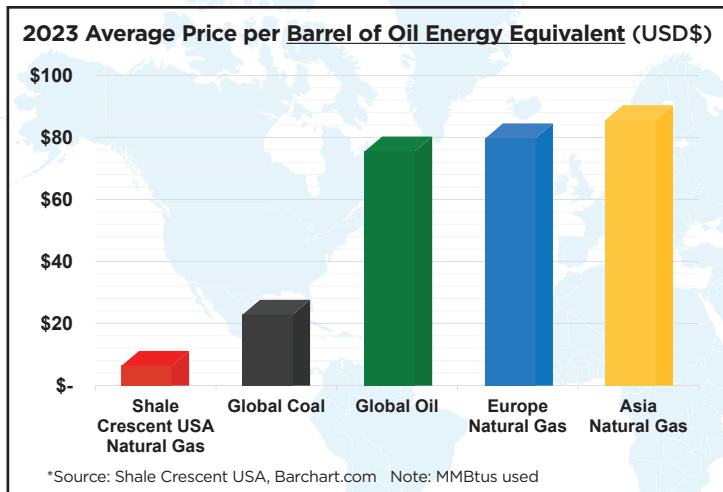
50% of U.S. GDP & **50%** of U.S. Population is within a 1 day's drive*

MARKET DEMAND

70% & 77% of North American Polyethylene & Polypropylene demand is within a 1 day's drive*

1 Day's Drive

Global Energy Costs



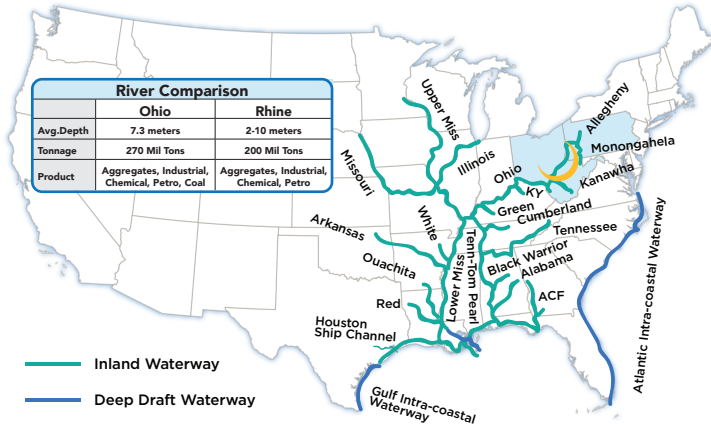
Cost Comparison Facts:

- SCUSA has the **lowest** cost hydrocarbons in the industrialized world and the **lowest** prices in the U.S.
- 2023 Natural Gas Prices per MMBtu on average:
 - **Shale Crescent USA = \$1.80**
 - NYMEX = \$2.70
 - Europe = \$14.50
 - Asia = \$15.50

Energy Cost Advantage

Robust River System and Rail Transportation

Major U.S. Waterways

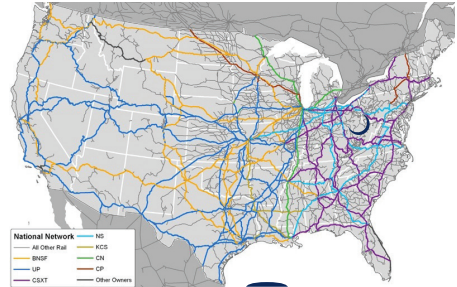


Ease of Transport



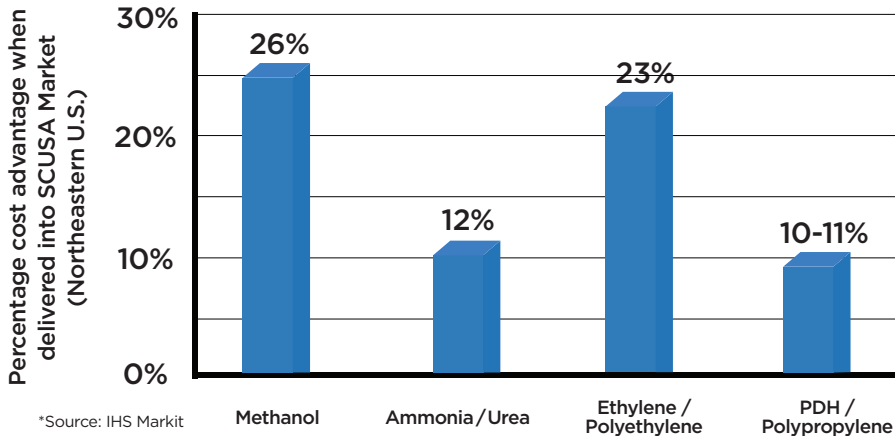
U.S. Rail Network

- Moves over **2 Million** carloads of plastics, fertilizers and chemicals.
- Over **225,000 km** of rail. A majority of which operates in the greater Shale Crescent USA region.



Cost of Manufacturing

Shale Crescent USA advantaged vs. U.S. Gulf Coast

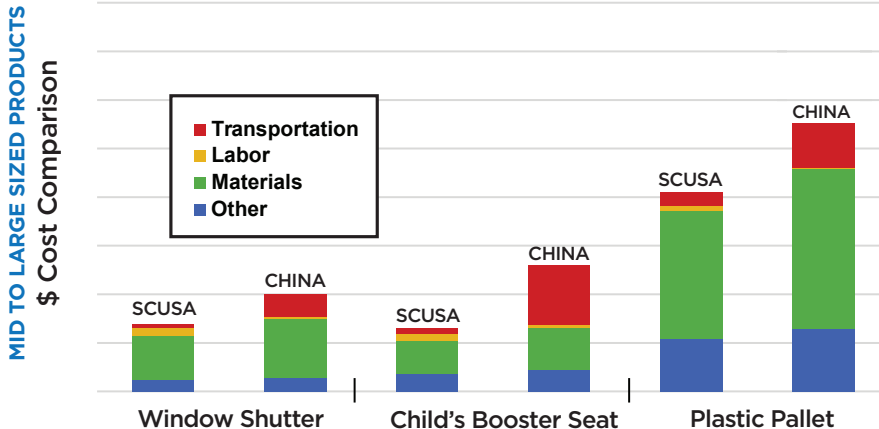


Petrochemicals Cost Advantage

Consumer Plastic-Based Goods

U.S. advantaged over Chinese manufacturing

Ohio vs. China Cost of Manufacturing & Transportation



Plastics Cost Advantage

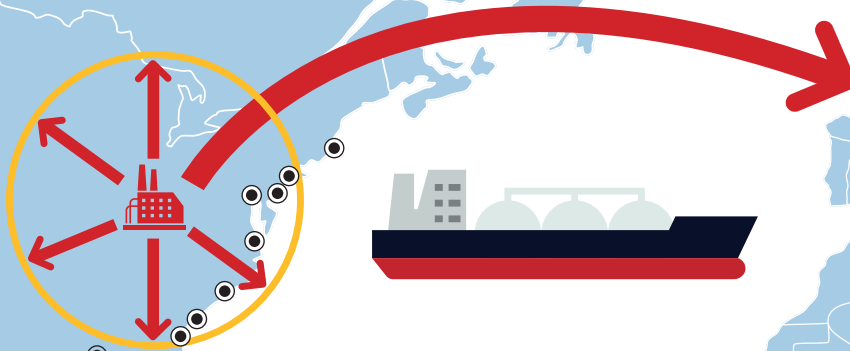
Market Opportunity:

- U.S. Manufacturers are competitively positioned to capture the annual **\$50 billion** of imported plastic-based goods.

- Other: Equipment, Maintenance, Electricity, Lease, Packaging, Working Capital
- Source: Shale Crescent USA (SCUSA)

Exports to Europe

Sell product in U.S. & European markets



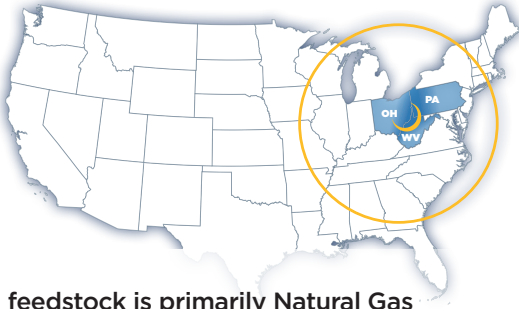
Average Transport Time: 10 - 20 days
Average Distance: 4,000-5,000 nautical miles
Major Ports: ●

Export Opportunity

Reduce Transportation & Emissions

Build on top of your energy & feedstock and in the center of your customers.
Permanent Location Advantage

SHALE CRESCENT USA
SUPPLY CHAINS
≈ **500 MILES**



- U.S. feedstock is primarily Natural Gas
- U.S. CO₂ emissions are less than half of China's

VS

CHINESE
MANUFACTURING MODEL
≈ **20,000 MILES**



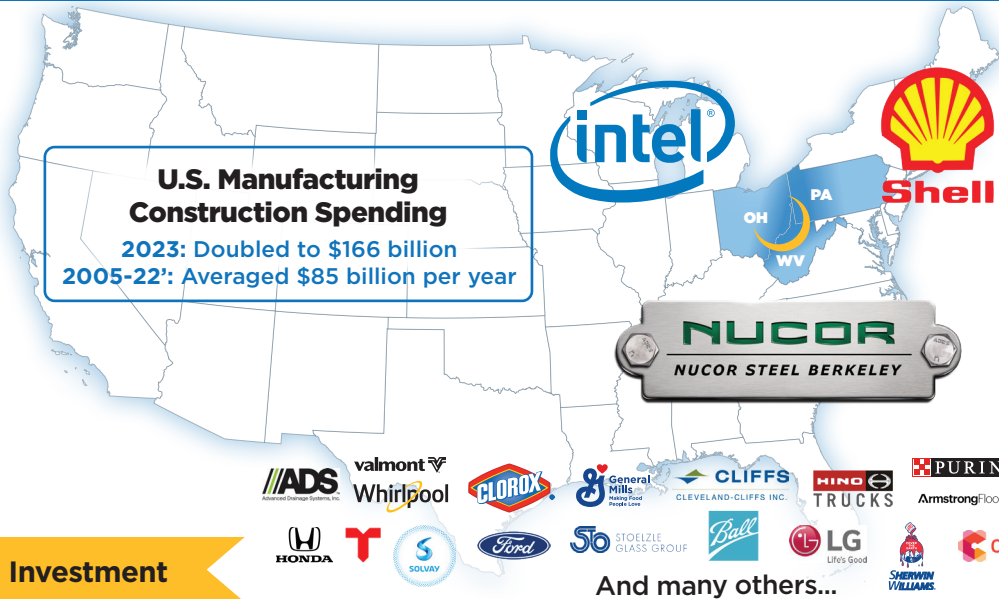
- China feedstock is primarily oil based Naptha

Emissions Advantage

*Source: EIA & Statista

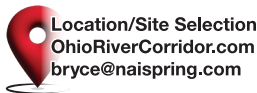
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