Olive Creek Expansion (OCE): Nebraska Made – Critical Materials

What is Monolith?

Monolith is building the future of American manufacturing in Nebraska. Using proprietary hydrocarbon pyrolysis technology, Monolith produces high value products – carbon black and hydrogen – with significantly lower emissions than traditional methods. The technology is already commercialized today at Olive Creek.

Why Carbon Black Matters

Carbon black is a critical U.S. material used in tires, vehicles, defense applications, electronics, batteries, coatings, and advanced manufacturing. Today, global supply is heavily concentrated overseas, and much of the U.S. supply comes from aging facilities. Monolith helps strengthen domestic supply chain resilience by producing carbon black here in Nebraska.

What's Changing at Olive Creek

OCE reflects a major technology breakthrough achieved in 2025:

- Monolith successfully transitioned from natural gas to carbon black oil (CBO) as feedstock while maintaining emission reductions
- This change enables ~4× higher productivity with fewer reactors
- The updated plan uses 4 reactors instead of 13
- The previously planned ammonia facility and 140-foot tank are eliminated

An Advanced Manufacturing Campus

The updated OCE plan combines:

- Carbon black manufacturing
- Hydrogen and steam to power generation
- High-performance compute (data center) capabilities

This integrated campus:

- Uses existing infrastructure built out for original expansion
- Requires significantly less water than the prior plan
- Maintains similar power and natural gas usage while delivering economic value
- Supports long-term skilled manufacturing and technology jobs