

NOVONIX **Anode Materials**

We are driving the onshoring of the graphite supply chain in North America, reducing dependence on foreign sources, and enhancing energy security. NOVONIX plans to produce synthetic graphite, a critical mineral, with a production process that leverages cleaner, more efficient processes to scale domestic manufacturing while creating high-quality manufacturing jobs in the U.S.

Our Riverside facility, located in Chattanooga, Tennessee, is poised to become the first large-scale production site dedicated to high-performance synthetic graphite for the battery sector in North America, with plans to grow output to 20,000 tonnes per annum ("tpa") to meet current customer commitments with Panasonic, Stellantis, and PowerCo.

Our Materials

NOVONIX has developed proprietary process technology that includes unique continuous graphitization systems and anode materials that exceed industry standards. Synthetic graphite is the preferred anode material, over natural graphite.

NOVONIX synthetic graphite offers:

-  Higher charge rate
-  Longer cycle life
-  Significant reduction in waste materials
-  Virtually zero emissions and use of chemicals

We are committed to keeping sustainability at the core of our business as we continue to scale our operations. NOVONIX's synthetic graphite has demonstrably lower global warming potential (GWP) than the largest producers today through our energy-efficient graphitization process and cleaner power grid. Initial LCA on NOVONIX's synthetic graphite displayed a ~60% decrease in GWP compared to conventional anode grade synthetic graphite, and an ~30% reduction when compared with natural graphite.



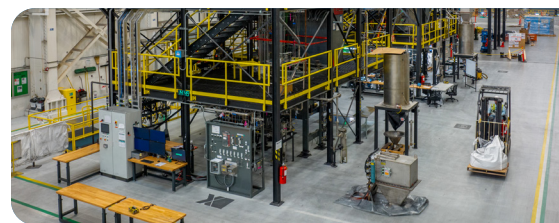
NOVONIX Synthetic Graphite Advantage

Our team can optimize the exact material properties for each customer to meet the key requirements of their project.

Properties		Typical Values	Units
Particle	D10	7-10	μm
Size	D50	13-18	μm
Distribution	D90	25-30	μm
Ash (LOI)		< 0.01	%
Surface Area		0.5 – 1.5	m2/g
Tap Density		0.9 – 1.1	g/cm3
True Density		2.23 – 2.25	g/cm3
Specific Capacity (C/10)		> 345	mAh/g
First cycle Efficiency		> 92%	%

OUR GRAPHITIZATION PROCESS

- Designed from the ground up for maximum efficiency and productivity
- Next-generation process to reduce waste, recapture byproduct, and provide high quality products
- Creating clean, scaled processes for implementation in any jurisdiction



INPUTS

Clean Power Sources

Energy input 57% carbon-free (15% renewable) with target to be net-zero by 2050 at Riverside facility

High-Purity Input Materials

Minimizes emissions and contaminants



PROCESS

Proprietary Furnace Technology

- Increased energy efficiency
- No chemical purification

Next-Generation Process

- Reduces waste byproduct
- Designed to reduce energy
- Increases overall yield



OUTPUTS

Benefits

- Supports higher performance lithium-ion batteries, maximizing value to battery customers
- Negligible facility emissions

OUR STRATEGIC PARTNERS

Tier 1 Customer
Agreements



Strategic Suppliers



Technology Agreements
& Strategic Investors



U.S. Federal
Government Supporters

