

Building America's New Energetics Supply Chain

Solugen's TERRAFORGE™

Our Mission

Solugen is pioneering domestic, scalable production of precursor chemicals **critical to U.S. energetics**. By delivering safe, stable, and affordable inputs, we strengthen the industrial base, reduce reliance on foreign suppliers, and accelerate adoption of advanced energetics ensuring the Department of War has access to an **entirely U.S.-based, scalable supply of energetics** to meet the warfighter's requirements—while also **enabling dual-use applications that benefit both defense and commercial sectors**.



Precursor Capabilities

Safe & Stable	Non-energetic molecules, easy to ship and handle
Ready for Defense Integration	Ideal leaving groups, readily nitrated into advanced energetics
Dual-Use Flexibility	Applicable across warheads, rockets, industrial explosives, and infrastructure chemicals
Efficient Manufacturing	Lower sustainment costs and faster scale-up



Why It Matters

- **New Energetics Supply Chain:** Establishing an independent CONUS precursor base that replaces fragile overseas dependencies
- **Predictable Cost Curve:** Domestic precursors enable a clear pathway to affordable next-gen energetics at scale
- **Rapid Scale:** Demonstrated ability to move from lab to production in under 12 months
- **Proven Capability:** 121M+ lbs of critical chemicals delivered in 2024 across 150+ customers proves execution strength

Case Study: Building a Domestic Supply of Advanced Energetic Precursors

Compared to imported incumbents, Solugen's process delivers:

- 3× lower raw material cost vs. imports
- Full CONUS precursor pathway, no overseas chokepoints
- 90% conversion yield to advanced energetic intermediates
- 50× scale-up demonstrated; >500,000 lbs/year production ready within 6 months of demand

Delivering at Scale for the Warfighter

- 50x scaleup of energetic precursor in <6 months
- 1,000x scaleup in <18 months

Strategic Partnerships

- Solugen partners with leaders across government and industry, including the U.S. Department of War, Department of Energy, NIST, and global chemical partners
- In 2025, Solugen announced a partnership with **American Rheinmetall Munitions** to expand access to **domestically produced energetics** as a step that builds on our core focus: chemicals at scale for American weapon systems



- Contact us:
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