

Top 5 Overlooked Critical Mineral Stocks for U.S. Supply Chain Independence

Investors are hunting for under-the-radar plays in critical minerals – the building blocks of EVs and clean energy – that stand to benefit from U.S. policies to **decouple from China and secure domestic supply chains**. Below we present 5 **publicly-traded** companies (ranked by our conviction) developing strategic materials projects (graphite, nickel, rare earths, cobalt, lithium, etc.) with strong ties to the U.S. supply chain. These picks have **not yet experienced explosive gains** (>150% in the last year) but have unique catalysts (government funding, offtakes, technology) that could unlock significant upside. Each analysis includes company overview, fundamentals, strategic edge, upcoming catalysts, technical setup, upside potential, risk factors, and a trading plan (buy zone, stop-loss, key trip points). Finally, **“Stocky’s Take”** highlights which plays deserve immediate attention and why.

1. Graphite One (GPHOF) – Building a U.S. Graphite-Anode Supply Chain

Overview: Graphite One is advancing the **Graphite Creek** project in Alaska, the largest known natural graphite deposit in the U.S. ¹ ². The company’s vision is a **100% U.S.-based supply chain for battery-grade graphite**, including a mine in Alaska and an anode materials manufacturing plant in Washington State ³. This integrated approach (mine → refine → manufacture → recycle) directly addresses America’s *current 100% import dependence* on graphite (dominated by China) ⁴. Graphite is **essential for EV batteries** (comprising the anode material in Li-ion cells), so a domestic source is strategically vital.

Fundamentals Snapshot: (Market Cap & Financials)

- **Market Cap:** ≈ \$70–115 million (micro-cap) ⁵ ⁶
- **Cash:** ~\$0.7 million (MRQ) ⁷ – low, but bolstered by recent grants/investments
- **Debt:** Minimal (early-stage project financing mostly via equity/grants)
- **Burn Rate:** High (funds being used for a Feasibility Study and drilling). The company had ~60 staff drilling in 2023 ⁸. Likely need to raise capital to match grant funding and complete studies.
- **Recent Financing:** \$2 million investment (with option for \$8M more) from Alaska’s Bering Straits Native Corp in 2023 ⁹ to support the feasibility study – indicating local stakeholder support.

Unique Strategic Edge: Graphite One enjoys **unprecedented U.S. government backing for a graphite project**. In July 2023, the DoD awarded it a **\$37.5 million grant under the Defense Production Act (Title III)** ¹⁰ ¹¹ – funding half of an accelerated feasibility study (the company matches with \$37.5M) ¹². This endorsement, funded by the Inflation Reduction Act, *“underscores [the] confidence in [Graphite One’s] strategy to build a 100% U.S.-based advanced graphite supply chain,”* said CEO Anthony Huston ¹³. It’s the **only U.S. graphite project** with such a grant, highlighting its strategic importance. Moreover, Graphite Creek is designated a FAST-41 high-priority infrastructure project for streamlined permitting ¹⁴. The deposit’s scale (3.7M tonnes contained graphite P&P reserves ¹⁵) could supply ~60,000 tonnes of concentrate annually ¹⁶ – feeding the planned Washington anode plant (target ~41,850 t/yr of battery-grade coated spherical

graphite ¹⁷). In short, Graphite One could become the **first domestic source of anode-grade graphite**, reducing reliance on Chinese graphite, which Beijing recently restricted for export ¹⁸ .

Catalysts: Several upcoming events could re-rate the stock:

- **Feasibility Study (FS) Results (2024):** The DoD-funded FS, due by 2024, will provide economics for the mine and anode plant. A robust FS could attract offtake agreements (e.g. battery makers) or DOE loans.
- **Additional Government Support:** With graphite deemed “essential to national defense” ¹⁹ , Graphite One may secure a **DOE Loan Programs Office (LPO) loan** for construction (similar to loans offered to battery supply projects). Any DOE **loan commitment news** would be a major catalyst.
- **Permitting Advances:** Inclusion in FAST-41 suggests federal agencies will coordinate to expedite permitting. Key milestones (e.g. draft EIS, state permits) could boost confidence.
- **Offtake/Partner Deals:** Given U.S. automakers’ need for IRA-compliant battery materials, Graphite One could ink strategic partnerships (e.g. supply MoU with anode/battery manufacturers). This would validate demand and potentially provide financing.
- **Recycling Initiative:** The plan to co-locate a battery recycling unit at the anode plant ³ offers a future catalyst if Graphite One partners with recycling firms or secures feedstock deals (closing the loop could attract *Circular Economy* grants or partners).

Technical Setup: After a long downtrend, GPHOF has been basing in the ~\$0.70–0.85 range. The **DOD grant news in mid-2023** saw a volume spike and lifted shares off multi-year lows. Since then, the stock has consolidated those gains, indicating **accumulation around \$0.75**. The **200-day MA** lies near \$0.80 – a sustained break above \$0.80–\$0.85 on high volume would signal a new uptrend. There is overhead resistance around **\$1.00** (psychological level and prior high). Past peaks (~\$1.20 in early 2022) would be next resistance. On the downside, strong support sits at **\$0.60–\$0.65** (range of pre-grant prices).

Buy Zone (Entry): \$0.70–\$0.80, ideally on dips near technical support in the low \$0.70s. This zone is near the base of the recent consolidation – an attractive risk-reward for accumulation.

Stop-Loss: ~\$0.55 (below the 2023 low and key support). A drop under \$0.60 without swift recovery would break the basing pattern, signaling caution.

Tripwire/Trigger Points: A breakout above \$1.00 (with volume) would be a **momentum trigger** – it could “trip” short-sellers and spark technical buying, confirming an uptrend. On the fundamental side, any announcement of DOE funding or a major offtake could swiftly “trip” the stock higher, so traders might add on a move through \$1.00 or on news-driven gap ups.

Upside Potential (12–24 mo.): If government support translates to tangible funding and permitting progress, Graphite One could realistically approach a **\$300–\$400M valuation** (similar to peers with construction-stage projects). That implies a stock price in the **\$2–\$3 range** (2–4x upside). Over 2 years, as it potentially moves through final feasibility and into development, a multi-bagger is possible given the tiny current cap. *Notably, Benchmark Mineral Intelligence forecasts ~97 new graphite mines needed by 2035* ²⁰ ; *Graphite One is positioned to be among the first in the U.S., warranting a premium.*

Risk Factors: As a pre-revenue junior miner, Graphite One faces **significant execution risk**. Key risks:

- **Permitting and Timeline** – Environmental review delays (Alaska requires state and federal permits; any opposition from local or environmental groups could slow progress).
- **Financing Needs** – The project’s capex will be large (likely hundreds of millions). Even with grants/loans,

equity dilution is a concern. The company's cash is very low, so near-term equity raises are likely to fund its \$37.5M cost-share and ongoing drilling – could pressure the stock if not well-telegraphed.

- **Technical Feasibility** – Turning graphite concentrate into high-purity spherical graphite is technically complex. Graphite One will need to prove its processing (possibly via a pilot plant). Any hiccups in achieving battery-grade specs could hurt its first-mover advantage.

- **Graphite Price/Market** – Graphite prices are relatively low now; if they remain depressed, project economics might suffer. Conversely, China's dominance means any price spike could benefit GPHOF but also invites Chinese competition or substitution (e.g. synthetic graphite or LFP batteries that use less graphite per kWh).

- **Competition** – Other companies (e.g. Syrah Resources with a Louisiana anode plant) are also in the anode market. However, Graphite One's fully domestic mine-to-anode strategy and government endorsement give it an edge in U.S. policy support.

Analyst & Sentiment: Coverage is minimal (no major banks). The stock is underfollowed, which is part of the opportunity. Recent insider behavior: Alaska Native Corp investment and strong support from Alaska's congressional delegation indicate *informed optimism*. The U.S. senators literally held up Graphite One's graphite in Congress as a success example ²¹, underlining the political will behind the project. In short, sentiment among those aware of the story is positive, but broader market attention remains limited – a classic “overlooked” setup.

2. Talon Metals (TLOFF) – Nickel Supplier with Tesla Offtake & Government Backing

Overview: Talon Metals is developing the **Tamarack Nickel-Copper-Cobalt Project** in Minnesota in partnership with Rio Tinto. Tamarack is poised to become **the only domestic nickel source for EV batteries** aside from one aging mine (Michigan's Eagle Mine) that closes by 2026 ²². Nickel is critical for high-energy-density cathodes in EVs, and the U.S. currently has virtually no Ni supply. Talon's project aims to fill that gap by 2026, and notably **Tesla signed its first-ever U.S. nickel supply deal with Talon** ²³, agreeing to purchase 75,000 tonnes of nickel concentrate over ~6 years once production begins ²⁴ ²⁵. This Tesla offtake (conditional on Tamarack reaching commercial production by Jan 2026) underscores Talon's strategic importance to the U.S. EV supply chain and provides a ready customer for its nickel.

Fundamentals Snapshot: (Market Cap & Financials)

- **Market Cap:** ~\$330 million (CAD ~\$440M) – a small-cap, considering the scale of assets. (Over 1.13 billion shares outstanding after financing for exploration and studies.)

- **Cash/Debt:** The company has been capitalized primarily through equity. It had significant cash infusions from a **\$115M equity financing in early 2022** (to fund project earn-in and exploration). It must match some government grants with its own funds (e.g. \$21.8M match for the DoD award) ²⁶. No large long-term debt yet, but that could change as mine development costs ramp up (capex likely in hundreds of millions).

- **Burn Rate:** High – active drilling (added exploration in Michigan's nickel belt) and engineering work for the processing plant. However, \$20M of the DoD grant and \$114M DOE grant (see below) offset some development costs. Talon will need project financing (debt or JV contributions) to cover mine construction by 2024–25.

- **Recent Funding:** Received **\$15M from Rio Tinto in 2022** as part of joint venture arrangements, and continues to fund via equity markets (e.g. a small \$5M placement in 2023). Critically, *non-dilutive* funding has

come from U.S. government grants totaling **\$134.6M** – which validates the project and reduces capital needs short-term.

Unique Strategic Edge: Talon stands out for its **combination of public and private support**. It's essentially *the U.S. government's chosen nickel champion*, **awarded \$114 million by the U.S. DOE** to build a battery-grade nickel processing facility in North Dakota ²⁷, and an additional **\$20.6 million by the DoD** for exploration and resource expansion ²⁸. This federal backing is remarkable – the DOE grant (from the 2021 Bipartisan Infrastructure Law) will fund ~27% of a \$433M nickel sulfate plant in North Dakota ²⁹, ensuring Talon's nickel can be refined domestically into EV-ready material. The DoD grant, meanwhile, explicitly aims to **"strengthen domestic supply chains"** for nickel ²⁸, supporting Talon's drilling in Minnesota and Michigan. Few juniors receive this level of multi-agency support; it signals Talon's strategic role in U.S. industrial policy (*"This funding makes clear that domestic supply of nickel is a national security priority,"* said Talon's CEO ³⁰).

Additionally, Talon's **Tesla offtake** is a huge validation – Tesla "pleaded" for environmentally friendly nickel ³¹ and chose Tamarack as its first U.S. source, attracted by Talon/Rio's plans for carbon storage and clean practices ³². The Tesla contract gives Talon a built-in customer for a large portion of output (75kt Ni over ~6 years) ²⁴, with Tesla even holding a right to negotiate more ³³. This not only de-risks the demand side but could help financing (Tesla's involvement often eases capital raises). In summary, **Talon has first-mover advantage in U.S. nickel**: a high-grade deposit (1.9% Ni inferred) in a mining-friendly JV with Rio Tinto, plus the backing of the world's leading EV maker and the U.S. government.

Catalysts: Key events to watch:

- **Minnesota Permitting Decisions (2024–25):** Tamarack is undergoing environmental review. Given federal support, there will be pressure to advance it, but state regulators and local stakeholders must be satisfied. Any positive progress (e.g. draft EIS release, public hearings trending positive, or final mine permit issuance) will reduce risk discount. Conversely, delays or opposition could weigh on the stock – but note, the Biden Administration has so far supported Talon even as it blocked other MN mine projects ³⁴ ³⁵. This suggests a *political will* to see Tamarack through as an exception.

- **Feasibility/Technical Studies:** A maiden Pre-Feasibility Study (PFS) or Feasibility Study is expected as drilling expands the resource. A formal economic study (possibly in 2024) will shed light on mining plans, costs, and project NPV – a potential catalyst if economics are robust.

- **Rio Tinto JV milestone:** Talon currently owns 51% of Tamarack and can earn up to 60%. Each earn-in step (by funding exploration) solidifies Talon's stake. Rio's continued involvement (they've been supportive JV partners) and any decision by Rio to proceed to construction will be a *de-risking catalyst*. If Rio and Talon announce a construction decision or a more integrated partnership (Rio has downstream know-how), the market would likely rerate Talon closer to a development-phase valuation.

- **Processing Plant Funding/Construction:** With the DOE grant, Talon aims to start building the nickel sulfate refinery in North Dakota (Mercer County) in 2024. Any news of additional funding (perhaps state incentives or a DOE loan to supplement the grant) or the start of construction could lift sentiment. The plant is planned to align with the mine's 2026 timeline ³⁶. Successful commissioning would make Talon the first North American producer of battery-grade nickel sulfate, a *huge catalyst* for 2025–26.

- **Exploration Results:** The DoD funds allow Talon to explore 400,000 acres of newly acquired mineral rights in Michigan's Upper Peninsula (near the Eagle mine) ³⁷. High-grade hits there could reveal a second significant resource, adding upside optionality beyond Tamarack.

- **Nickel Market Moves:** A rally in nickel prices (perhaps due to Indonesia export curbs or rising EV demand) would directly benefit project NPV and could draw attention back to nickel equities. Conversely, if nickel

slumps or if LFP battery chemistry (no nickel) takes over market share faster, sentiment for nickel plays could suffer. Currently, **nickel demand is expected to surge** as EVs go mainstream ³⁸, so Talon is riding that macro trend.

Technical Setup: TLOFF (US OTC) trades around **\$0.30–\$0.40**, reflecting a long consolidation. The stock is off its 2021 highs (~\$0.60) and has been range-bound in 2023. Notably, **accumulation has been evident** on news of grants – for example, the \$114M DOE grant announcement in late 2022 saw a spike to ~\$0.50, but the price retraced, possibly due to broader market weakness and dilution from share issuance. **Support** lies around \$0.25 (multi-month floor and where volume picked up on dips). **Resistance** sits at ~\$0.45–\$0.50 (the post-grant highs). The stock recently has held above its 50-day MA, and any move above \$0.40 with volume could challenge the \$0.50 resistance. The technical picture suggests a *volatile but base-building pattern*, typical of a stock awaiting a fundamental catalyst to break out.

Buy Zone (Entry): \$0.30–\$0.35. This range is near the lower end of its recent trading channel and offers entry near support (\$0.30). Dips to the low-\$0.30s (such as after general market pullbacks) have been getting bought, reflecting underlying interest.

Stop-Loss: ~\$0.24. A decisive break below \$0.25 would breach long-term support and could signal further weakness (perhaps if negative news hits or market conditions deteriorate). Setting a stop just below this level limits downside in case the thesis is impaired.

Tripwire/Trigger Points: A **breakout above \$0.50** (prior highs) would be a clear technical trigger for momentum traders – it would mark a new 2-year high, potentially “tripping” a rally toward the \$0.60s. On the news front, actual issuance of the final permits or a construction decision could cause a gap up. Traders might also watch **January 2024** (or relevant timelines) for completion of Minnesota’s environmental review: a positive Record of Decision could trigger a rush of buying. Additionally, any *update from Tesla or Rio Tinto* (e.g. Tesla expanding the offtake, or Rio increasing its stake) would be a game-changer “trip point” fundamentally.

Upside Potential (12–24 mo.): If Talon achieves major milestones (permits in hand, plant construction underway, clear path to production by 2026), the stock could **re-rate toward mid-tier developer valuations**. Nickel development peers (with construction ready projects) often trade at \$500M–\$1B market caps. A conservative scenario of ~\$600M valuation would put the stock around **\$0.50–\$0.55** (given share count growth). More bullishly, as the *only U.S. nickel producer*, Talon could attract a strategic premium – share price in the **\$0.75–\$1.00** range (2–3× upside) is plausible if everything aligns (especially with the Tesla halo effect). Over a 2-year horizon, a doubling is reasonable even factoring some dilution, while **5× or more is possible longer-term** if Tamarack produces and expands (the project’s long-term potential is huge with further discoveries). In essence, Talon offers *both steady upside as it de-risks* and a **“moonbag” longer-term potential** if it becomes a go-to supplier for multiple automakers.

Risk Factors: Talon’s risks include:

- **Permitting & Environmental** – This is the elephant in the room. Minnesota has seen fierce opposition to sulfide mining (e.g. PolyMet’s stalled project). Tamarack’s environmental footprint and proximity to sensitive areas (wild rice waters, etc.) will be scrutinized. Any legal/regulatory setbacks could significantly delay or derail the timeline. The **Biden admin did cancel other MN projects** ³⁴ ³⁹ but has thus far embraced Talon; still, this remains a point of uncertainty.
- **Community and Tribal Relations** – Local tribal groups have expressed concerns about mining near wild

rice waters ⁴⁰ . Talon must engage and potentially offer assurances or benefits. A failure to win local support could create prolonged conflicts.

- **Financing Needs** – Building a mine and plant is expensive (total project likely \$400M+ even after grants). Talon will need to secure debt or additional JV equity. The dilution or terms of financing (e.g. high-yield debt) could impact existing shareholders. The EXIM Bank or DOE could step in with loans; if not, financing risk remains.

- **Execution & Timeline** – Meeting Tesla's 2026 deadline for first delivery is aggressive. Any construction hiccups, engineering issues, or delays in the refinery buildout could push timelines, potentially causing Tesla to reconsider or terminate the agreement (if beyond 2027 per contract) ⁴¹ .

- **Commodity Price** – Nickel prices are notoriously volatile. A sustained downturn in nickel (or copper, which is a significant byproduct credit) could hurt project economics or make financing harder. Conversely, overheated prices could also lead to demand destruction or substitution (e.g. LFP batteries gaining share).

- **JV and Ownership** – Rio Tinto's involvement is a double-edged sword. If Rio decided the project isn't worth pursuing, Talon might struggle to advance it alone. On the other hand, Rio could also acquire Talon or a larger stake, which might cap upside (if bought out at a modest premium). Investors should watch JV dynamics; so far, they appear positive.

Analyst Sentiment: Coverage is limited to a few Canadian analysts. Recent targets (per MarketBeat) average ~C\$0.47–\$0.50 ⁴² , implying moderate upside from current levels, with ratings typically **“Buy”** on the back of the Tesla deal and government funding. Analysts note Talon as *“a uniquely positioned critical minerals play in North America”*. However, many on Bay Street remain cautious pending permitting clarity. This tempered sentiment means substantial good news could surprise the market. In the meantime, insider and institutional ownership is noteworthy: Rio Tinto is a partner (indirect exposure) and prominent resource funds have participated in financings. Tesla, while not an equity holder, is a psychological backer. **Bottom line:** Talon is a well-supported nickel play that hasn't skyrocketed yet, making it an attractive risk/reward bet on U.S. EV mineral policy.

3. Rare Element Resources (REEMF) – Near-Term Rare Earths Demonstration & EXIM-Backed “Mine-to-Magnet” Upside

Overview: Rare Element Resources (RER) is a U.S.-focused rare earth element (REE) company advancing the **Bear Lodge project** in Wyoming – a deposit rich in critical magnet metals like neodymium and praseodymium (NdPr) ⁴³ . Bear Lodge was long considered one of the largest unmined REE deposits in North America. What sets RER apart now is its progress toward actual **processing capability on U.S. soil**: the company, along with partners (including General Atomics affiliates), is building a **rare earth separation and processing demonstration plant** in Upton, WY, funded in part by the U.S. Department of Energy. This demo plant will process ore concentrates and produce separated NdPr oxide and other REOs at pilot scale – a **key step toward a domestic “mine-to-magnet” supply chain**. With China dominating 85%+ of global rare earth processing, RER's project is strategically aimed at breaking that dependency for the U.S. defense and EV industries (rare earth magnets are needed for EV motors, wind turbines, precision-guided munitions, etc.).

Fundamentals Snapshot: (*Market Cap & Financials*)

- **Market Cap:** ~\$100–\$120 million (micro-cap). Shares trade around \$0.80–\$0.90 on the OTC, with roughly 120–140 million shares out (after a recent rights offering). Notably, **strategic investors own a large chunk**

- Synchron (affiliated with General Atomics) and other partners funded RER's cost-share obligations.
- **Cash:** Adequate for the demonstration phase. RER received a **\$21.9M DOE grant** in 2021 for the demo plant (covering half the ~\$44M project cost) and raised the rest through a combination of Wyoming state grants (\$4.4M) ⁴⁴ and **equity rights offering (~\$25M)** ⁴⁵ completed in 2024. As of mid-2025, the company should have funds earmarked to complete the demo plant construction and operation (expected through ~2025).
- **Debt:** None material – project funding has been via equity and grants. The company will eventually need significant financing for full-scale mine and processing facilities (capex likely several hundred million), but here's where government support (EXIM, DoD) may come into play (see catalysts).
- **Revenue:** None (development stage). But RER will produce ~10 tons of NdPr oxide from the demo run ⁴⁶, which is more a proof-of-concept than a revenue stream. No meaningful sales until a commercial plant is built post-2026. Burn rate is moderate, focusing on R&D and permitting (Bear Lodge is essentially on hold at PEA stage awaiting demo proof and permits).

Unique Strategic Edge: Rare Element Resources is one of *very few* companies with U.S. government-supported rare earth processing technology. The DOE's \$21.9M award (from 2020's ERA program) to RER was **the first of its kind for rare earth separation** – a strong vote of confidence. RER's demonstration plant will use an innovative separation process (developed with support from DOE's Critical Materials Institute) to produce high-purity rare earth oxides. Achieving this will demonstrate that the U.S. can go from raw ore to separated magnets metals domestically. This positions RER at the forefront of a future domestic REE supply chain.

Moreover, RER just secured a major potential financing backstop: in March 2025, the **U.S. Export-Import Bank (EXIM)** issued a *Letter of Interest* to provide up to **\$553 million in debt financing** for the commercial-scale Bear Lodge project ⁴⁷. This non-binding LOI signals that, pending successful demonstration and permitting, the U.S. government is prepared to fund a large portion of building the mine and full-scale separation plant. It coincided with a Presidential Executive Order directing agencies to fast-track critical mineral projects ⁴⁸. Such high-level support (including possible offtake agreements for strategic stockpiling per the EO) is an **extraordinary advantage** – essentially, RER might have Uncle Sam as a project financier and customer. This reduces the risk of the company being capital-constrained or unable to find buyers.

In summary, RER's edge is **first-mover status in U.S. rare earth processing with government money and policy wind at its back**. The Bear Lodge deposit itself is high-grade in magnet metals (NdPr, plus some dysprosium/terbium for high-temp magnets), making it highly strategic for EVs and defense. If successful, RER could be the *cornerstone of a domestic rare earth magnet supply chain*, a role the U.S. DoD and DOE dearly want someone to fill. Competitors like MP Materials focus on mining & concentrate; RER is leapfrogging to **separation tech**, which is the harder and more China-dependent step.

Catalysts:

- **Demo Plant Commissioning (Mid-2025):** RER announced that the demonstration plant construction is nearly complete, with operations expected to *commence in mid-2025* ⁴⁶. When the plant is turned on and starts producing separated rare earths, it will be a pivotal moment. Successful production of 10 tonnes of NdPr oxide over ~9-10 months ⁴⁶ will validate the technology and process. Expect press releases on initial production, product purity achieved, etc. Each positive announcement could draw attention (perhaps akin to how lithium juniors jumped upon first battery-grade product). This demo success is also likely a **trigger for additional funding**: the DoD or DOE could follow up with scale-up grants, and strategic partners (e.g.

magnet manufacturers) might come knocking.

- **Offtake/Partner Deals:** With demo oxide in hand by late 2025, RER can entice magnet makers or automakers to offtake from the future commercial plant. A partnership or offtake agreement (for example, with an allied country's magnet company or a U.S. defense contractor) would significantly de-risk the project and would be a **major catalyst** signaling commercial viability.

- **Permitting Milestones:** Bear Lodge the mine still needs permitting (NEPA, etc.). However, groundwork was laid years ago; also, an NRC license for handling source material was obtained (as the ore has some thorium) ⁴⁹. A big step will be resuming the mine permitting process – any news on updating the mine plan or initiating an Environmental Impact Statement (EIS) would indicate the project is moving toward construction. Given the Executive Order in 2025 directing fast-track, we could see streamlined permitting actions (e.g. categorical exclusions or interagency cooperation). Investors should watch for any *Record of Decision or permit approvals*, which, thanks to political support, could arrive sooner than expected once the demo proves out.

- **DoD Funding/Title III:** RER's project is a prime candidate for DoD Title III DPA funding (like how Lynas and TDA got funding for rare earth facilities). If the DoD steps in with an outright grant or procurement contract for rare earths (stockpile purchase), that would be hugely validating. The **NDIA "Mine-to-Magnet" workshop** RER participated in ⁵⁰ suggests defense interest. A direct DoD award for building the commercial separation plant (similar to Ucore's \$18M or Lynas's \$120M from DoD) could come once demo results are in – a catalyst that would likely pop the stock.

- **EXIM Loan Finalization:** The EXIM LOI for up to \$553M is contingent on usual due diligence. As RER hits milestones, EXIM could convert that into a firm loan agreement. Such an announcement (likely after demo success and as permitting is secured, potentially in 2026) would be the green light that the full project will be financed. While a bit further out, even incremental steps (EXIM completing a feasibility review, etc.) can boost investor confidence.

- **General Market Tailwinds:** Heightened geopolitical tensions (e.g. if China curtails rare earth exports as it did with gallium/germanium) could spur U.S. government and investor urgency. Any news of China supply risk tends to lift Western REE stocks. Additionally, magnet demand from EVs is rising; if automakers announce U.S. magnet factory plans, they will need a feed – could shine a light on RER.

Technical Setup: REEMF had a speculative run in late 2021 (when initial DOE funding news hit) up to ~\$3, but since then it drifted down below \$1 as the company quietly executed on the demo plant. In 2023–2024, the stock found a floor around **\$0.20–\$0.30** (when they did the rights offering). Following the EXIM news and improved sentiment in early 2025, REEMF **quadrupled off its lows to around \$0.80–0.90**, indicating renewed accumulation. The technical structure now is one of a **new uptrend** emerging from a long base. The stock cleared its 200-day MA decisively in 2025 and has been making higher lows. Immediate resistance sits around **\$1.00** (round number and minor peak), above which there's a gap toward ~\$1.50 (the stock briefly spiked there on initial DOE news years back). Support on pullbacks lies in the **\$0.60–\$0.70** zone (previous consolidation and roughly the 50-day MA area). Volume has been increasing on up days, suggesting informed buying (perhaps those aware of EXIM and demo progress). Overall, technically it appears **momentum is turning bullish** after a multi-year bear, but the stock is still under the radar of most traders.

Buy Zone (Entry): \$0.70–\$0.85. Buying in this range, on normal volatility pullbacks, positions one ahead of major demo results. It's close to support and below the psychological \$1 barrier. Given recent trading, any price in the low \$0.80s or below can be seen as accumulation territory.

Stop-Loss: ~\$0.50. This is below the secondary support and the mid-point of the recent run. A break under \$0.50 would signal a failure of the new uptrend (and likely only occur if demo disappoints or funding falls through). Setting a stop there limits downside ~30-40% from entry, which is reasonable for a high-risk microcap.

Tripwire/Trigger Points: A **push through \$1.00** on volume is a technical tripwire that could bring in momentum traders – such a breakout might quickly run to the \$1.50 area. Fundamentally, **news that the demo plant has produced its first separated REE product** could drop at any time in H2 2025; that is a trigger likely to lift the stock (perhaps gap it up). Traders may also set alerts for announcements of additional government support (e.g. a DoD contract) – that kind of news can cause a sharp re-rating overnight. Essentially, keep an eye on press releases from RER and DOE/DoD around mid to late 2025, as any “success” headline could be the trip point for a big move.

Upside Potential (12–24 mo.): If RER’s demo plant proves successful and the company is clearly on track to build a commercial mine/refinery (with financing lined up by EXIM/DoD), **a significant rerating is likely**. Consider that MP Materials (NYSE: MP) – which currently only mines & ships concentrate – soared to multi-billion valuation on the promise of establishing U.S. refining. RER, albeit smaller scale, could justifiably aim for a \$300M–\$500M market cap on the cusp of construction. That would correspond to a stock price in the **\$2–\$4 range** (roughly 3×–5× from current ~\$0.80). Achieving even a fraction of MP’s \$5B valuation would be explosive for RER. For a 12-24 month view, a realistic target if milestones are met is around **\$2** (assuming some dilution for project equity, etc.). In a bullish scenario with full project funding secured and construction start, **\$3+** is possible as the market starts pricing in RER as a future producer with heavy government backing. Importantly, RER also offers *longer-term moonshot potential*: if by 2027-28 it emerges as one of only two North American REE producers (alongside MP), the strategic premium could be enormous – but that is beyond our 2-year window. For now, a multi-bagger seems within reach if things go right.

Risk Factors: RER is still a **high-risk venture** given the early stage of its project’s commercial phase. Key risks:

- **Technology Risk:** The demonstration plant must prove that RER’s proprietary separation process works at scale and yields high-purity oxides efficiently. There’s always risk that scaling up from lab to demo encounters issues (lower recoveries, higher costs, etc.). If the demo underperforms or fails, it would severely setback the project (and the stock).
- **Permitting and Regulatory:** While the political climate is supportive, mining in Wyoming will require full permitting (Mine permit, NEPA EIS, etc.). Environmental concerns (radioactive thorium management, waste disposal, etc.) must be addressed. RER already secured a Nuclear Regulatory Commission license for handling radioisotopes ⁴⁹ which is a plus, but any unexpected environmental issues at either the mine or plant could delay progress.
- **Financing & Dilution:** Even with EXIM’s LOI, that covers debt. RER might still need equity for part of the project (EXIM often wants some equity cushion). Depending on how much and at what price, dilution could be significant. There’s also timing risk – if capital markets tighten before EXIM finalizes, RER may need bridge financing or partner JV (which could mean giving up some project ownership). However, the presence of deep-pocketed strategic investors (General Atomics entities) and possible government stockpile purchases mitigates this somewhat.
- **Market Pricing:** Rare earth prices, especially for NdPr, influence project economics. NdPr oxide spiked in 2022 but has since cooled; if prices stay too low, the commercial project’s IRR could be less attractive (though government might support it anyway for strategic reasons). Conversely, if prices shoot up, one

might worry China floods supply or political pressure eases – but given structural demand, this seems less a concern now.

- **Competitive Landscape:** There are other U.S.-focused REE efforts (e.g. MP Materials building a Texas separation plant, Ucore building one in Louisiana). RER's niche is heavy involvement of government and demonstration of a new tech. If, say, MP or Lynas manage to supply all needed NdPr to the U.S., RER could face a tougher fight for offtakes. But realistically, demand is large and growing, and the U.S. wants multiple sources. Still, any news from competitors achieving milestones could sway sentiment in this small sector.

- **Liquidity/OTC Listing:** RER trades on OTCQB, which can be illiquid and subject to volatility. Uplisting to a major exchange would help, but no indication of that yet. Low liquidity means sharp swings on any news, so not for the faint of heart.

Analyst & Sentiment: There is effectively **no mainstream analyst coverage** of RER – another sign of it being overlooked. The story is more followed by specialist mining newsletters and retail investors interested in critical minerals. The largest shareholder, Synchron, increased its stake via the rights offering, which is a vote of confidence. Insiders aligned with Synchron/General Atomics are deeply involved (some on the board), suggesting they see eventual success (General Atomics, being a defense contractor parent, likely has a strategic interest in domestic REEs for defense systems). The involvement of Wyoming's government (grant) and the upbeat press releases about DOE/EXIM support all contribute to a narrative that *this is a sanctioned critical project*. Overall, market sentiment is cautiously optimistic in the niche REE investor community, but broader market enthusiasm hasn't hit yet – which is precisely the opportunity if one believes RER will deliver. This is a **high-risk, high-reward bet** that the U.S. will ensure a domestic rare earth supply, and RER is a prime vehicle for that policy.

4. Electra Battery Materials (ELBM) – First North American Cobalt Refinery with EV Supply Tie-Ins

Overview: Electra Battery Materials is a Canadian-based company (listed on NASDAQ/TSX-V) building **North America's only battery-grade cobalt refinery**, alongside integrated battery recycling and nickel processing plans. Its primary project is the **Temiskaming Shores refinery in Ontario**, which is being commissioned to produce **cobalt sulfate** for EV cathodes – an ingredient currently 100% refined in Asia (China, Finland). By establishing a domestic source of refined cobalt, Electra plays directly into U.S. and Canadian goals of securing battery supply chains (cobalt is used in many lithium-ion cathodes like NCM and NCMA chemistries). The refinery, once operational, can supply enough cobalt for ~1.5 million EVs per year ⁵¹. Electra is also piloting a **lithium-ion battery recycling** facility (processing “black mass” from spent batteries) at the same complex ⁵². Additionally, the company owns the **Iron Creek** cobalt-copper project in Idaho (in the same cobalt belt as Jervois's Idaho mine), which could provide a future domestic feed source. In essence, Electra is an **“adjacent supply chain” play**: not mining, but focusing on the midstream – refining critical battery metals and recycling – which is crucial for an independent supply chain decoupled from China.

Fundamentals Snapshot: (Market Cap & Financials)

- **Market Cap:** ~\$40-\$50 million at ~\$1.00/share (the stock has declined significantly over the past 18 months due to project delays and financing challenges). This is a small-cap considering the replacement value of its assets under construction.

- **Cash/Debt:** Electra has been in a capital-intensive buildout. As of mid-2025, it has had to **restructure its**

financing to complete the refinery. The company did carry debt (including a convertible note from Glencore, one of its partners, and possibly other credit facilities). Recent updates indicate *restructuring talks* to extend debt maturities as they seek more capital ⁵³. On the cash side, Electra had to raise equity periodically; it secured a strategic equity investment from Ontario's Three Fires First Nation (indigenous consortium) in 2023 and is reportedly in discussions for government support. It's fair to say finances have been tight – **completion of the refinery requires additional ~\$50M**, which the company is actively lining up through a combination of equity, strategic investment, and hoped-for government funding.

- **Revenue:** None yet from refining (still pre-production). Minor revenue came from a small batch of recycled material processed, but full commercial revenue is expected to begin in 2025 once cobalt production starts. Looking ahead, the cobalt refinery at full capacity (~5,000 tonnes cobalt per year as sulfate) could generate on the order of \$300M+ annual revenue (cobalt sulfate price ~\$60k/tonne contained Co). Until operational, Electra's financials will show net losses.

- **Burn Rate:** High, due to ongoing construction and commissioning. The company trimmed costs by pausing some growth projects (like its plan for a nickel sulfate plant in Québec) to focus on the Ontario refinery core. Burn will decrease once revenue flows, but in 2024 it's still spending on construction and commissioning (which is why securing final funds is critical).

- **Recent Funding:** In late 2022, Electra received a **C\$10M investment from the federal government (FedDev Ontario)** and ~\$5M from the provincial government to support the refinery. It also raised ~\$20M in equity in 2022. In 2023–24, it did smaller financings and the mentioned Three Fires partnership (~C\$5M). A key point: Electra has a major offtake agreement (discussed below) which should facilitate inventory financing once operating.

Unique Strategic Edge: Electra's edge lies in being the **first mover in producing battery-grade cobalt sulfate on this continent**. It has a **five-year supply agreement with LG Energy Solution** – one of the world's largest battery makers – to supply **19,000 tonnes of cobalt contained in sulfate from 2025-2029** ⁵⁴ ⁵⁵. This deal was *enhanced* in mid-2023, up from an initial 7,000t over 3 years to 19,000t over 5 years ⁵⁶, signaling LG's confidence in Electra. Under the contract, Electra will deliver 3,000t Co in 2025, then 4,000t each year 2026-2029 ⁵⁷. This offtake not only validates demand for Electra's product but also ties Electra into LG's North American supply chain (LG is building battery mega-factories in North America to supply automakers). The fact that **LGES sought a North American cobalt source ahead of IRA regulations** (which from 2024 disqualify EV credits if battery minerals come from "foreign entities of concern" like China/Russia ⁵⁸) means Electra's output will directly help EVs qualify for the \$7,500 tax credits. This positioning gives Electra leverage – it's solving a critical pain point for battery and auto companies trying to localize their supply chain for IRA compliance.

Another edge: **Integration with recycling**. Electra isn't just making cobalt sulfate; it's actively processing **black mass (shredded end-of-life batteries)** through a pilot line and aims to scale up to a 2,500 t/yr recycling operation ⁵². Initial results have been positive (recoveries meeting or exceeding lab benchmarks) ⁵². By combining primary refining and recycling, Electra can recover nickel, cobalt, lithium, copper, manganese from scrap – a very attractive capability as North America ramps up EV production (and thus scrap and end-of-life batteries). It effectively doubles down on domestic supply: mining above ground (recycling) and processing imported raw materials from ethical sources.

Additionally, Electra's refinery is **low-carbon, hydrometallurgical** (versus traditional smelting) and located near the Sudbury nickel basin – this means potential synergies for nickel feed and access to infrastructure. It's also in a jurisdiction allied with the U.S., meaning material from Electra should count as North American for U.S. EV credits.

In short, Electra's strategic edge is being **the only game in town** for North American cobalt refining at a time when the U.S. government and automakers *desperately need* non-Chinese refined cobalt to meet policy goals. This niche – midstream processing – is undervalued in the market (investors often chase miners or OEMs, forgetting the refiners). But the government recognizes it; indeed **China controls ~71% of refined cobalt and 76% of refined nickel globally** ⁵⁸, so Electra is an essential piece in reducing those numbers for the West.

Catalysts:

- **Refinery Commissioning & First Production (2024):** The biggest near-term catalyst is Electra completing construction and starting up the cobalt sulfate production. The company has guided toward initial production in 2024 (having unfortunately missed prior late-2022 targets due to equipment delays and cost overruns). Any announcement that *commissioning has begun* or *first batches of cobalt sulfate produced* will be huge, as it moves Electra from a story to a revenue-generating reality. We expect progressive milestones: mechanical completion, wet commissioning, then production ramp. Each step could boost confidence and stock price, especially given the current skepticism priced in.

- **Financing/Restructuring News:** Electra's stock has been depressed largely due to financing concerns. A resolution – e.g., a new equity partner, additional government funding, or a debt restructuring deal – will remove a cloud. Notably, the company is in discussions to **secure the remaining capital** needed. If, say, the Canadian or U.S. government provides a **low-interest loan or grant** (the DOE has a program for critical minerals, or Canada's Strategic Innovation Fund could step in), it would de-risk the balance sheet and be a big catalyst. Similarly, if Glencore (a major shareholder and feed supplier) ups its stake or an automaker invests for an offtake, that news would likely rally the stock.

- **Ramp of Black Mass Recycling:** Electra has been running a recycling trial through 2023. Successful scale-up to commercial recycling in 2024 would add a revenue stream and demonstrate their process can recover lithium, nickel, cobalt from scrap. A catalyst here could be **a partnership or contract with battery makers** or recyclers to process their scrap. For instance, securing a deal to recycle battery production scrap from an automaker's gigafactory would fill Electra's capacity and could come with funding. Keep an eye on any announcements of such partnerships or of hitting key recycling throughput milestones.

- **Nickel Sulfate Plans:** While on hold for now, Electra also plans a future nickel sulfate module at the Ontario site (there's space and a plan to process nickel feed into battery-grade nickel). If market conditions allow, they could revive this by 2025. A catalyst could be a **DOE grant or Canadian government support** earmarked for nickel refining – not far-fetched given both governments' critical minerals strategies. With Indonesia's nickel dominance and China's refining, a NA nickel sulfate plant is desirable. News that Electra is moving forward on this (especially if funded by others) would be a positive surprise.

- **Iron Creek (Idaho) Spin-out or Development:** Iron Creek is a sizable cobalt resource in Idaho. Electra paused heavy development to focus on the refinery, but this asset has value (especially after Jervois's nearby mine went on hold – making Iron Creek one of the few U.S. cobalt assets). A possible catalyst is Electra *monetizing or partnering* on Iron Creek – e.g., spinning it into a JV or separate vehicle, or getting DoD funding for drilling (the DoD did fund Jervois, so they might fund Electra to develop Iron Creek as well). Any progress in proving more domestic cobalt resource would complement the refinery story and could generate separate value (or funding).

- **Macro/policy catalysts:** If cobalt or nickel prices rebound strongly (they've been subdued in 2023), it improves Electra's economics. More importantly, any **policy moves such as U.S. tariffs on Chinese battery metals or increased EV credit stringency** would favor Electra. For instance, if by 2026 EV credits require *no* Chinese cobalt in the supply chain, OEMs might rush to source from Electra. Additionally, U.S. Defense Production Act actions (like stockpiling cobalt or funding refining) could directly benefit Electra's U.S.-friendly capacity.

Technical Setup: ELBM has had a rough technical profile, reflecting dilution and delays. After uplisting to NASDAQ in late 2022 around \$13 (post-reverse-split basis), the stock has slid to about **\$1.00** as of late 2023 – a >90% collapse. However, it appears to be attempting to carve out a bottom in the \$0.80–\$1.20 range over recent months. This could be a **base-building** phase if the company's outlook stabilizes. Volume has increased on some upward moves, possibly indicating bottom-fishing by value investors. With a tiny market cap, any good news can cause an outsized percentage move. Key levels: on the upside, **\$1.50** (which roughly corresponds to late-2022 lows and a gap down point in early 2023) would be the first major resistance – a break above that might signal a trend reversal. Beyond \$1.50, there's a gap toward \$2.25 (the consensus analyst target zone). On the downside, **\$0.80** is support (recent lows); if that fails, \$0.50 is next psychological support (though unlikely unless severe negative news). The RSI and other momentum indicators have been deeply oversold and are starting to turn up – suggesting the worst of the selloff may be over. In summary, technically it's high risk but possibly **at a turning point**, pending fundamental triggers.

Buy Zone (Entry): \$0.90–\$1.10. Accumulating in this band allows one to build a position near the lows but after the stock has shown some base stability above \$0.80. It's wise to average in given volatility. Dips under \$1 (if any pessimism or general market downturn causes it) are buyable, keeping an eye on fundamental news flow.

Stop-Loss: ~\$0.75. This is slightly below the recent base support. If the stock falls through \$0.80 convincingly, it could signal further distress – maybe news leaked of a financing at an unfavorable price, etc. A stop in mid-\$0.70s avoids catching a falling knife if a new leg down occurs, while giving some room below support for noise.

Tripwire/Trigger Points: A **move above \$1.50** would likely be a momentum trigger – this level might coincide with news of commissioning or financing resolution. For traders, that break could indicate the downtrend is broken. Another tripwire is **unusual volume spikes**; given low float, volume precedes price for ELBM. Fundamentally, any *public confirmation of funding* (e.g. “Electra secures funding to complete refinery”) could cause a sharp gap up, possibly doubling the stock from these depressed levels quickly – a scenario to be positioned before, if one believes in the company. Similarly, first production of cobalt sulfate would be a celebratory event to which the stock should react strongly. Traders might also set a news alert for when the company announces the refinery is “fully commissioned” or when shipments to LG begin – those are pivotal milestones likely to “trip” more investor interest.

Upside Potential (12–24 mo.): Electra's upside is substantial if it can execute. In 1-2 years, if the refinery is operating and hitting its stride, Electra will transform from a cash burner to a revenue generator with strategic importance. As a *rough valuation guide*, similar processing companies (like nickel/cobalt refiners or chemical plants) might trade at say 5-8× EBITDA. If Electra produces ~5,000t Co/year, that could yield perhaps \$50M EBITDA (depending on margins, offtake terms). That would support a market cap of \$250–\$400M, i.e. a **5×–8× increase** from the ~\$50M today, which aligns with analyst targets in the \$2–\$3 range (and potentially higher). Specifically, the **average analyst target is around \$2.15–\$2.23** ⁵⁹ and some outliers up to \$3-4, reflecting expectations of a successful ramp. Over 24 months, a stock price of **\$2.50+ (double)** is not unrealistic even with some dilution, if operations go as planned.

The *real upside* could be higher: if Electra also starts making money from recycling and possibly moves into nickel sulfate, it could become a mini “battery materials park” with multi-metal revenue streams. In a bullish scenario where it executes perfectly and secures strong partnerships, **5× or more (i.e. \$5/share)** is conceivable in a couple of years. Additionally, there's always the possibility of M&A – larger entities like

automakers or mining giants could acquire Electra for its strategic assets once de-risked. For example, if Glencore or LG wanted to own the refinery outright, shareholders could see a significant premium. In summary, from \$1 now, a move to the **\$2-\$3 area** as operations stabilize is our base-case upside, with **\$4-\$5** as a bullish case if multiple positive developments unfold.

Risk Factors: Electra carries notable risks:

- **Financing/Going Concern Risk:** The most immediate risk is that Electra fails to secure the needed funding in time. In a worst-case, cash could run out, potentially forcing a halt of work or extremely dilutive financing. The company's recent communications suggest confidence in a solution, but until it's inked, this risk overhangs. However, the downside of outright failure might be mitigated by the fact that the infrastructure is valuable – someone (government or industry) would likely step in to not let the only cobalt refinery die.

- **Commissioning Risk:** There's execution risk in starting up a chemical refinery. Delays or technical issues (e.g. impurities, equipment failures) could require more capex or time. The market has punished Electra for prior delays, so any further setbacks could hurt credibility and the stock.

- **Commodity Price/Spread Risk:** Electra's business model involves buying cobalt hydroxide feed (likely from Glencore/DRC) and refining to sulfate. If the **payable feed costs** vs. **sulfate selling price** narrows (i.e. if refining margins compress), profitability suffers. Cobalt prices have been weak, which actually can favor refiners (cheaper feed), but if EV makers push down cobalt prices or use less cobalt (LFP chemistry growth), the demand and premium for cobalt sulfate might be less than projected.

- **Market Adoption:** The IRA credit has given importance to NA-sourced materials, but if, say, battery chemistries shift massively to cobalt-free or low-cobalt cathodes (LFP or manganese-rich), the long-term demand for cobalt might soften. Near-term, NCM cathodes are still widely used, but it's a trend to monitor. Electra's recycling helps hedge this risk because it can adapt to whatever metals are in use (recovering lithium, nickel too).

- **Regulatory:** Being in Canada, Electra is generally in stable jurisdiction. But one consideration: If the U.S. government decides it needs a cobalt refinery on U.S. soil specifically, they might heavily back a competitor in the States (though currently none exists beyond lab scale). More likely, the U.S. will count Canadian production under trade agreements (USMCA). There's also minor risk around handling of chemicals and waste – environmental compliance at the refinery must be maintained to avoid any shutdowns or fines.

- **Liquidity & Dilution:** The stock is low-priced and can be volatile; any large equity raise at these prices could double the share count (diluting current holders). If done smartly (post-positive news or with strategic premium), this can be managed, but it's a risk to consider – the path to long-term reward may be bumpy.

Analyst Sentiment: Despite its tiny size, Electra has a surprising amount of analyst coverage (reflecting its relevance to EV supply chain). As noted, **consensus is "Buy"** with targets around **\$2-\$3** (100%+ upside) ⁵⁹

⁶⁰. Analysts from brokers like Cantor, TD, Alliance Global have covered it, citing the LG contract and refinery uniqueness. However, most have also flagged the near-term cash crunch as a concern, which is why the stock languishes. The sentiment among those analysts is that if Electra solves funding, the value proposition is intact and not reflected in the share price. Retail sentiment has been bearish (many early investors got burned by the decline), but as often happens, extreme negative sentiment can mark a bottom. Insiders – management and board – have been quiet; notable is that the CEO Trent Mell and team are still pushing forward and did not abandon ship during troubles. Glencore remains a supportive shareholder (roughly ~5-7% stake). All considered, Electra is a **contrarian pick**: sentiment is starting to recover from very negative, and smart money could accumulate ahead of the refinery's completion. This is a play where one has to believe in the **trend (localizing battery metals)** and watch for that final piece of good news to fall in place.

5. American Battery Technology Company (ABAT) – Moonshot Lithium & Battery Recycling Play (High Risk/High Reward)

Overview: American Battery Technology Company (ABTC, recently listed on Nasdaq as **ABAT**) is a Nevada-based startup that offers a dual-pronged approach to the battery materials supply chain: **1) Recycling lithium-ion batteries** to recover critical metals, and **2) Extracting lithium from Nevada claystone deposits** using its proprietary process. In effect, ABAT is aiming to be both a technology leader in battery recycling *and* a primary domestic lithium producer – a bold combination that, if successful, would yield a vertically integrated supply of lithium and other battery metals independent of foreign sources. ABAT's flagship assets include a **lithium clay resource in Tonopah, NV (Tonopah Flats)**, which it claims is one of the largest lithium deposits in the U.S., and a **pilot recycling facility in Reno, NV** where it has demonstrated recovery of lithium hydroxide, nickel, cobalt, etc. from spent batteries. The company is still pre-commercial, but it has garnered significant U.S. government interest and funding for its potential role in boosting domestic battery material production.

Fundamentals Snapshot: (Market Cap & Financials)

- **Market Cap:** ~\$150–\$200 million (the stock has been volatile, recently around \$2, with ~50–60 million shares post uplisting). Despite its small-cap status, ABAT's valuation incorporates high future expectations.
- **Cash:** As of late 2024, cash was modest (~\$5.8M as of Sept 30, 2024) ⁶¹, but the company's liquidity has since been bolstered by grants and financings. ABAT has been successful in attracting **non-dilutive government funds**: notably a \$57M U.S. DOE grant in late 2022 (for a Nevada lithium hydroxide demo plant) and a **\$150M DOE grant in 2024** for a second commercial recycling facility ⁶² ⁶³. It also received a **\$40M 48C tax credit** (IRA program) in early 2024 for its recycling plant ⁶⁴. These funds, plus a recent \$12M convertible notes raise ⁶⁵, have given ABAT runway for its projects' next phases.
- **Debt:** The company has utilized some debt financing (zero-coupon convertible notes – effectively future equity) ⁶⁶. It repaid a \$25M note earlier, but then issued a new \$12M in notes in late 2024 ⁶⁵ to fund operations until larger funding comes through. Notably, ABAT announced receiving a **\$900M Letter of Interest from U.S. EXIM Bank** to potentially debt-finance its Tonopah lithium project ⁶² – if that converts to an actual loan, it would cover a huge chunk of project capex with debt (favorable for equity preservation).
- **Revenue:** Virtually none yet; ABAT reported a token ~\$202k revenue in Q3 2024 from selling recycled products ⁶¹ – essentially proof-of-concept batches. Commercial revenue should ramp in 2025 as the first recycling facility begins operations. For now, ABAT is in R&D and build-out mode, not profitable.
- **Burn Rate:** ABAT's operations use cash (it burned ~\$5.6M in the quarter ending Sep 2024) ⁶⁷. The DOE grants reimburse some project expenses (it recorded \$1.4M grant reimbursements that quarter) ⁶⁸. The company likely will continue to burn ~\$5–\$8M per quarter as it scales up, meaning further funding is required (which the grants and credits are addressing). The hope is that by late 2025, its initial recycling plant generates enough cash flow to offset some burn, and by 2026+ the lithium processing could come online.

Unique Strategic Edge: ABAT's biggest edge is its **first-of-kind technologies** backed by strong federal support. The U.S. government essentially views ABAT as a *potential domestic champion* for both battery recycling and unconventional lithium extraction:

- In **battery recycling**: ABAT developed an in-house hydrometallurgical process to extract high-purity battery metals from spent Li-ion batteries. It claims to recover lithium, nickel, cobalt, manganese,

and copper with lower cost and environmental impact than traditional methods. The **DOE validated ABAT's approach with a \$10M grant in 2019** (to build a pilot) and now a **\$150M grant (2024) to construct a large-scale recycling facility** ⁶⁹. This \$150M was one of the largest grants in the 2022 Bipartisan Infrastructure Law program, signalling ABAT's tech is seen as ready for prime time. The planned commercial plant (likely in Nevada or another state to be announced) will massively scale their current operations. If ABAT executes, it could become a leading recycler in a market that's expected to boom as EVs reach end-of-life. Essentially, ABAT is at the forefront of creating a **circular supply chain** for battery materials in the U.S., reducing need for fresh mining and reducing waste.

- In **lithium extraction**: ABAT's Tonopah Flats claystone deposit is unconventional – clay lithium deposits have never been commercially mined for lithium in the U.S. (or anywhere at large scale). But ABAT developed a proprietary process to leach lithium from clay and convert it to battery-grade lithium hydroxide. In 2022, they demonstrated this at pilot scale ⁷⁰, producing lithium hydroxide samples. The U.S. DOE then awarded ABAT a **\$57M grant** (also from BIL) to build a **commercial-scale lithium hydroxide refinery** using this tech. Moreover, ABAT received a game-changing **\$900M EXIM Bank LOI** in Sept 2023 to fund the mine/refinery project ⁶², indicating the U.S. government's interest in standing up new domestic lithium sources (especially after Thacker Pass and Rhyolite Ridge, it wants multiple). If ABAT succeeds, it could unlock *an entire new lithium resource type* – the U.S. has extensive lithium clays (in NV, OR, etc.), and ABAT's model could be replicated, making the U.S. self-sufficient in lithium. That's a moonshot scenario, but one the government is literally investing in.

The combination of **massive government endorsements** (grants, LOIs, tax credits) and ABAT's integrated vision (from recycling scrap to mining clay) gives it a unique positioning. Also, ABAT's **partnerships with big names** lend credibility: it has alliances with BASF (to develop cathode recycling), DuPont (on lithium extraction), and is working with **Argonne National Lab** ⁷¹. Even **BlackRock took notice – it increased its stake in ABAT in 2025** ⁷², unusual for a company at this stage. All this suggests ABAT, while speculative, is on the radar of serious players as a potential big winner in the U.S. battery push.

Catalysts:

- **Commissioning of First Commercial Recycling Plant (2024-25)**: ABAT's first recycling facility in Nevada (Phase 1) has been under construction. The company reported ramping up operations at its pilot plant successfully ⁷⁰, and the next step is the larger-scale facility. Any announcement that this facility is completed and beginning operations will be significant – it marks ABAT's transition from R&D to revenue-generating. The \$150M grant is for a **second** facility, implying the first is near done or will be done with previously raised funds. We expect news on initial throughput or capacity reached in 2024. Successfully processing a large volume of black mass and selling the outputs (battery-grade metals) will prove the economics and could attract customer contracts.

- **Site/Partnership Announcement for \$150M Recycling Plant**: ABAT will likely disclose where and with whom it's building the big new recycling plant funded by DOE. If, for example, ABAT partners with a state (like set up in a region near EV/battery factories) or with an automaker (maybe a JV to recycle their batteries), that news would validate its commercial appeal. The scale of this second plant could be much larger, and any details (capacity, timeline) provided will give investors a clearer picture of revenue potential.

- **Advancement of Tonopah Lithium Project**: On the lithium side, the next catalysts include a detailed feasibility study and pilot plant for the clay extraction. ABAT has claimed strong results at pilot scale (producing battery-grade lithium hydroxide ⁷⁰). With the EXIM LOI in place, ABAT may move to secure permits and finalize engineering. A **Pre-Feasibility Study (PFS)** or similar technical report, expected

perhaps in 2024, would outline capex/opex and could lead to conversion of the EXIM LOI into a loan agreement. Notably, in Oct 2024, the project got added to the FAST-41 list (as the Yahoo blurb suggests) ⁷³, indicating federal support in expediting permits. Any permit approvals (NEPA, etc.) or pilot plant construction start in Tonopah would be significant. A clincher catalyst down the road: if ABAT announces an **offtake agreement with a battery maker** for its future lithium output, that would massively elevate its profile (similar to how Piedmont Lithium soared after a Tesla offtake).

- **Execution of Government Funding Agreements:** While ABAT has been “selected” for big grants/loans, the actual contract execution and cash disbursement is a formality worth watching. For instance, the DOE \$150M grant likely will hit milestones; confirmation of the first tranche or any press release from DOE on ABAT’s progress will reassure investors. Similarly, conversion of the EXIM \$900M LOI to a binding commitment (perhaps after feasibility) would be a major de-risking event – essentially solving ABAT’s financing for the lithium project.

- **Scale-Up Results & Commercial Samples:** As ABAT scales both its recycling and lithium processing, watch for them to announce *purity benchmarks* or sample deliveries. For example, “ABAT delivers first recycled battery-grade nickel sulfate to customer” or “ABAT produces kg-quantity of EV-grade lithium hydroxide from Tonopah claystone.” These technical wins are precursors to commercial contracts. They’ve done lab and pilot; now it’s about doing it at ton-scale consistently.

- **Uplisting and Increased Visibility:** ABAT uplisted to Nasdaq in Sept 2023 (with symbol change from ABML to ABAT). This can attract more institutional investors. Additionally, ABAT might become eligible for inclusion in certain indexes or ETFs focusing on battery/EV, which could create incremental buy pressure. As the company demonstrates progress, we could also see *analyst coverage initiation* from banks now that it’s on Nasdaq. Positive coverage would be a catalyst given its largely retail following historically.

- **Market Hype Cycles:** ABAT has in the past been a meme-ish stock (during early 2021 EV boom, it soared enormously). If EV/battery materials come back in vogue (e.g., lithium prices rising again, or a new EV policy announcement), ABAT – with its multifaceted story – could capture market imagination as a “story stock” again, leading to rapid speculative upside. One specific hype trigger: any hint of an association with a big name (Tesla, for example, given Nevada location) can cause outsized reactions even if early.

Technical Setup: ABAT (formerly ABML) has a volatile history. During the 2020–21 EV mania, the stock (then ABML) rocketed from pennies to the equivalent of ~\$30+ (split-adjusted) at its peak, then gradually deflated over 2022–23 to a low around **\$0.50 (pre-reverse-split)**, which corresponds to **\$7.50 post-split**. After a 1-for-15 reverse split and Nasdaq uplist in Sept 2023, the stock initially fell (typical for a small uplisting), bottoming around **\$0.90** (post-split, which was ~\$0.06 pre-split) in mid-2023 ⁷⁴. Since then, it staged a recovery, trading recently around **\$2.00**. This suggests a potential trend reversal off the extreme lows, aided by the wave of good news (grants, EXIM LOI). Technically, **\$0.90** (post-split) is a strong long-term support – it was tested multiple times and held (equivalent to ~\$0.06 pre-split, which historically was a multiyear floor) ⁷⁵. On the upside, **\$3.00** is the next resistance (the stock hit ~\$2.80 in late 2024 on the DOE grant news before pulling back). A break above \$3 could see a quick run to **\$5** (a round number and area of some prior consolidation in early 2022 on pre-split basis). The RSI is mid-range, and the stock tends to trade with news bursts. One encouraging sign: **higher lows** have been established in recent months, indicating accumulation (BlackRock’s increased stake lends credence to that ⁷²). Traders should note ABAT has high beta – double-digit percentage swings in a day on news aren’t uncommon.

Buy Zone (Entry): \$1.50–\$2.00. This range is where the stock found support on the last pullback and is not far off recent averages. For a moonshot like this, scaling in is wise. Any dip near \$1.50 (say on general market weakness) would be an attractive entry, given it’s above key support (\$1.0) but below recent highs, offering a good balance of risk/reward ahead of 2024 catalysts.

Stop-Loss: ~\$1.20. This is below the late-2023 swing low of ~\$1.33 and gives a bit of room, but if it falls under \$1.20, it might indicate a failure of the uptrend or significantly bad news. At that point, next support is \$0.90, but that's a large drawdown; better to reevaluate at \$1.20 break. Essentially, if it retraces most of the recent gains without obvious reason, caution is warranted.

Tripwire/Trigger Points: A **break above \$3.00** on volume would be a strong bullish trigger – likely signaling that a major positive event (like a signed EXIM loan or a big offtake partnership) has occurred. Momentum traders could pile in at that point as it would mark multi-year highs post-bubble. Another trigger: **news of a marquee partnership** (e.g., “ABAT to supply recycled battery materials to X automaker” or “ABAT receives DoD contract for lithium supply”) – any such big validation could cause an immediate spike; being positioned beforehand is key, because these announcements can lead to 20-50% one-day moves. Traders might also watch technical triggers like moving average crossovers (the 50-day crossing above 200-day could happen if it stays buoyant, a golden cross that might attract technical funds). Keep an eye on volume – ABAT's volume often precedes news (possibly due to retail chatter). A sudden volume surge could tip that something's brewing.

Upside Potential (12–24 mo.): We label ABAT a “moonshot” because if things go right, the upside is enormous – *multi-bagger territory*. Within 2 years, ABAT aims to: have a large recycling facility up and running, and be in construction (or early production) of its lithium refinery. If it achieves those, one could attempt to value the business segments: The recycling business could generate tens of millions in profit annually (given metal output) and warrant a few hundred million valuation on its own; the lithium project, if financed by EXIM, could be on track to produce 30k tonnes LiOH/year, which at even \$10k/tonne margin would yield \$300M/yr gross – that's a company-maker if it comes true. While that's further out, even a 50% *probability* of that success might justify a \$500M+ market cap now.

Concrete near-term: ABAT's peers in recycling, like Li-Cycle (LICY), had multi-billion SPAC valuations (though LICY stumbled and is ~\$300M now). If ABAT shows revenue and growth, the market could give it a similar or higher valuation. We could realistically see **5x upside (\$10/share)** if ABAT executes well and the market regains enthusiasm for EV materials. Indeed, TradingView analysis pointed out a speculative “500x to \$700” scenario long-term ⁷⁵ (tongue-in-cheek, but indicating some see huge potential). While 500x is fanciful, a **5-10x in 2-3 years** is not outlandish if ABAT becomes a key supplier of lithium and recycled metals, given the small starting base.

For a 12-24 month price target, a more measured approach: if ABAT secures full financing and is building its projects, the market cap could be \$600M–\$800M, implying stock price around **\$10–\$15** (assuming some further dilution). That's ~5-7x from \$2. Meanwhile downside is that it's still an early-stage venture – if one or both legs fail, it could fall back to \$1 or below. This asymmetry, however, is why this is a moonshot: one is risking maybe 50% to potentially make several hundred percent. Notably, analysts don't officially cover ABAT yet (due to lack of historical financials and the recent uplist), but internal government assessments seem to think highly (EXIM wouldn't LOI \$900M lightly). Also, **short interest** has been around 9% ⁷⁴ – a short squeeze could add fuel if positive news hits and shorts scramble.

Risk Factors: ABAT is high risk. Key concerns:

- **Technology Risk:** Both its recycling process and clay lithium extraction are novel. There's a chance that something doesn't scale as expected – e.g., impurities, recovery rates, reagent costs – making it uneconomical. While lab and pilot results are great, commercial scale often surprises. Any sign that yields or purities are below expectations could dampen the dream.

- **Execution & Team:** The company is relatively new and small. Scaling to a major industrial operation will test management. Construction delays, cost overruns, operational hiccups – these could occur, as seen with many first-time projects. They'll need to attract experienced talent (engineers, plant operators) to succeed at larger scale.

- **Financing & Dilution:** They have many projects to fund. The DOE and EXIM support is huge, but usually grants/loans require cost share. ABAT will still likely have to raise equity or bring in partners. Aggressive growth could mean continuous capital needs, hence possible dilution. The convertible notes also mean potential future share issuance (though at hopefully higher prices). If capital markets worsen or ABAT's stock stays low, financing could become a challenge (one mitigant: government support reduces reliance on market financing).

- **Market/Competitive Risk:** In recycling, ABAT competes with Li-Cycle, Redwood Materials (private), and others. It's a big pie, but competition could pressure margins or take market share. In lithium, clay extraction competes with brine and hard rock – if ABAT's costs are too high or lithium prices fall a lot, viability could suffer. Also, if a larger player (like an Albemarle) cracks clay extraction more quickly, ABAT's first-mover advantage shrinks. However, ABAT's partnerships and grants give it a leg up currently.

- **Timeline Risk:** It's possible everything takes longer than expected. If revenue is slower to ramp and cash burn continues, the market might lose patience, sinking the stock until clear results appear. The story requires belief in future catalysts; delays in those can hurt share price in interim. For instance, if the Tonopah project gets bogged down in permitting beyond 2025, some investors might bail.

- **Regulatory and ESG:** On the lithium side, clay extraction involves large-scale operations. Environmental concerns (water usage, land disturbance in Nevada desert, processing chemicals) could arise, possibly from local communities or activists. ABAT must ensure its processes are clean and that it has a smooth path with regulators. On recycling, handling of hazardous battery waste must follow strict regulations – any accident or compliance issue could be a setback.

Analyst & Sentiment: While formal Wall Street coverage is absent, sentiment in the retail/investor community is turning positive again. ABAT has been mentioned as a top holding on some clean tech ETFs and is often discussed on forums due to its compelling narrative. The entrance of **BlackRock (now holding ~4.7M shares)** ⁷² is seen as a strong vote of confidence – this was disclosed in mid-2025 and got attention. Also, ABAT's inclusion in the Russell indexes after uplisting could bring some passive buying. Overall, those who follow the critical minerals space recognize ABAT as a *speculative leader* – it was even highlighted by the White House in fact sheets for critical mineral initiatives. That said, because of its past volatility, some investors are cautious, adopting a “show me” attitude. This likely keeps the stock from overheating too early, which is fine for new entrants. **In summary**, ABAT is the quintessential high-risk high-reward stock – it could flame out, but with the U.S. government essentially underwriting a big chunk of its ambitions, the odds of at least partial success have improved dramatically. If it succeeds, the upside could be life-changing for early believers – hence we tag it as the *moonshot pick*.

Stocky's Take – Top Picks and Final Thoughts

In a market increasingly shaped by geopolitics and supply chain security, these five overlooked stocks offer asymmetric upside by aligning with U.S. policy tailwinds:

- **Graphite One** is our **#1 pick** – it checks every box: critical battery material, largest U.S. resource, strong DoD/FAST-41 support, and not yet bid-up. With graphite's ubiquity in EV batteries and Graphite One's unique fully-integrated plan, any DOE loan or offtake deal could quickly propel this

micro-cap higher. *Stocky's Buy Zone*: accumulate in the \$0.70s; *Trip Trigger*: a move over \$1 (likely on DOE news) would confirm a new rally. **Deserves immediate attention** as a foundational EV material play.

- **Talon Metals** (#2) offers a rare pure-play on U.S. nickel for EVs, distinguished by Tesla's offtake and hefty government funding. It's further along (Rio Tinto JV, defined resource) and reasonably valued. Near-term, permitting is the swing factor – but we expect high-level support to push it through. *Stocky's Take*: Talon is a solid **"sleeping giant"** – buy in the low \$0.30s and watch for permit or construction approval to wake this stock from its slumber.
- **Rare Element Resources** (#3) is a higher-risk REE play, but one with outsized strategic backing (DOE, EXIM, state grants). This is a *quasi-defense* pick that also feeds green tech (EV motors, wind turbines). It hasn't run in years and now sits funded to prove its technology. *Stocky's Take*: For investors who can stomach volatility, RER could be a **3-5x gainer** as it transitions from pilot to production. Keep an eye on mid-2025 demo results; success there could quickly attract DoD contracts or a major strategic partner.
- **Electra Battery Materials** (#4) is **undervalued relative to its near-term catalyst** of becoming North America's first cobalt refiner. Yes, it's been beaten down by delays, but the pieces (LG contract, plant almost done, Government interest) suggest a turnaround. *Stocky's Take*: This is a classic **deep-value turnaround** – high risk, but at ~\$1, the bad news is largely priced in. Any positive financing news could rerate it 2-3x. It's worth a spot for contrarians who believe securing critical refining capacity is inevitable (because it is).
- **American Battery Tech (ABAT)** (#5, Moonshot) is for the risk-takers with an eye on the *10-bagger* prize. Backed by massive federal support, ABAT is attempting what few dare – solving both ends of the battery material problem (recycling and new supply). It has many execution steps ahead, but if it even partially delivers, the stock's upside could be extraordinary. *Stocky's Take*: **Speculate wisely** – position size accordingly (small relative to portfolio) and ride the government coattails. We wouldn't be surprised to see ABAT at \$10+ in a couple years if milestones keep getting hit. It's speculative, but in our view, *the stars are aligning for it to potentially become the next big name in U.S. battery materials*.

Which play deserves immediate attention? If we had to pick one **right now**, **Graphite One (GPHOF)** stands out – it's the closest to an inflection point (feasibility study and likely DOE support in the offing), yet still flying under Wall Street's radar. The U.S. simply *has* to establish a graphite anode supply, and Graphite One is head-and-shoulders the leading candidate. In Stocky's view, **GPHOF offers a compelling mix of near-term catalyst and multi-fold return potential**, making it a top priority for investors following the decoupling theme.

That said, **don't sleep on Talon Metals** either – nickel may not be as sexy as lithium, but every high-performance EV and jet turbine needs it, and Talon's on track to be America's nickel lynchpin with Tesla in tow. For a bit more risk, **Rare Element** and **Electra** provide turnaround/re-rating stories as critical projects coming to fruition. And for those with high risk appetite, **ABAT** is the lottery ticket backed by the U.S. government – it could redefine "Made in USA" in batteries.

Stocky's Game Plan: Build a basket of these five to spread exposure across the critical materials spectrum (graphite, nickel, rare earths, cobalt, lithium). Use technical buy zones and stop-loss levels as outlined to

manage entry and downside. As catalysts hit, reassess – some names might rerate faster (and you might take some profits), while others could be added on dips. Diversification here helps – you don't need all five to win big; even one home run could drive strong portfolio gains.

The overarching trend is clear: **the U.S. is investing heavily to rebuild critical mineral supply chains at home or in allied nations.** The companies above are positioned to ride that investment. They are earlier-stage and not without challenges, but that's exactly why they remain undervalued. As the saying goes, *"the best time to buy a miner is when the project is about to graduate from an idea to reality."* We are at that cusp for many of these names.

In conclusion, these five overlooked stocks each tap into a piece of the decoupling puzzle – from mines to refining to recycling. They have largely **avoided the meme stock spotlight** so far, but likely not for much longer. Astute investors should do their due diligence now, **accumulate before the hype**, and be prepared to ride the wave as U.S. policy support (and potentially investor enthusiasm) carries these strategic players to new heights. Good hunting in the critical minerals space – and remember, in this sector patience and catalysts are key. Stay tuned, stay nimble, and let the government's megaphone be your guide to outsized gains.

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