The newsletter focuses on key areas significant to battery value chain

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Raw materials

1. Anson Secures Major Lithium Offtake Deal with LG Energy Solution

Anson Resources has signed a Definitive Offtake Agreement with LG Energy Solution to supply battery-grade lithium carbonate. The deal covers up to 4,000 dry metric tonnes per year, beginning in 2028 — about 40% of Anson's planned 10,000-tonne annual output. The initial agreement runs for five years, with an option to extend for another five. It will take effect once commercial production begins and LG completes product qualification. The lithium will be sourced from Anson's Paradox Basin project in southern Utah. The agreement enhances Anson's funding prospects as it approaches its Final Investment Decision. LG Energy Solution's expansion across North America makes this deal a key strategic move to secure domestic lithium supply. The partnership reinforces U.S. efforts to build a reliable battery materials chain, and Anson's shares rose about 25% following the announcement.

https://wcsecure.weblink.com.au/clients/ansonresources/headline.aspx?headlineid=61285553

2. Lithium Chile Upsizes Private Placement to $7 Million

Lithium Chile has increased its private placement to $7 million, up from the originally planned $6.5 million, reflecting strong investor demand. The revised offering now includes 14 million units priced at $0.50 per unit. Each unit consists of one common share and one warrant, with each warrant allowing the holder to purchase an additional share at $0.70 within five years. The company has also granted underwriters an option to sell an extra 1.95 million units, potentially raising up to $975,000 more. Proceeds will be used to advance Lithium Chile's mineral projects across Chile and Argentina, as well as for general corporate purposes. The closing date is set for October 7, 2025, pending regulatory approvals. Conducted under the "listed issuer financing" exemption, the placement broadens investor access. This move underscores growing confidence in Lithium Chile's expansion strategy and strengthens its financial position for upcoming development phases.

chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/https://lithiumchile.ca/wp-content/uploads/2025/09/Lithium-Chile-Press_Release-Second_Upsize.pdf

3. Redwood and ESFI Champion Battery Recycling for U.S. Energy Dominance

Redwood Materials and the Electrical Safety Foundation International (ESFI) have launched a national campaign to promote safe lithium-ion battery recycling. The initiative highlights recycling as a key driver of U.S. energy independence and sustainability. Lithium-ion batteries, used in everyday electronics and electric vehicles, contain valuable recoverable materials. Redwood reports recovery rates above 95% for lithium, cobalt, nickel, and copper, feeding these back into the U.S. supply chain. The campaign aims to educate consumers, as many Americans remain unaware of proper recycling practices. It also supports South Carolina's "Be Battery Smart" program to expand local collection and awareness. ESFI contributes expertise in safe battery handling and responsible disposal. The effort aligns with Fire Prevention Week's theme on safe charging and storage. By boosting domestic material recovery, the program reduces import reliance and strengthens American manufacturing. Together, Redwood and ESFI are positioning recycling as central to the nation's clean energy future.

https://www.esfi.org/news/battery-recycling-key-to-american-energy-dominance-says-redwood-materials-and-esfi/

4. Element3 Secures Series A Funding to Launch U.S. Lithium Extraction Plants

Element3 has successfully closed its Series A funding round led by TO VC, with participation from EIC Rose Rock and Cubit Capital. The funding will support the deployment of Element3's first commercial lithium extraction plants in the United States, utilizing Double Eagle's water infrastructure. The company's innovative process extracts battery-grade lithium from oil and gas wastewater in the Permian Basin, transforming a waste product into a valuable clean energy resource. This vertically integrated approach reduces both production timelines and carbon emissions. Element3 plans to deliver its first commercial lithium carbonate output this year, positioning itself among the first new domestic producers in the industry. By leveraging unconventional sources instead of traditional mining, the company aims to address the nation's growing lithium supply gap. Over the next three years, Element3 expects to scale operations significantly, reinforcing U.S. supply chain resilience and advancing national energy independence goals.

https://www.element3.io/news/element3-closes-series-a-to-deploy-first-commercial-lithium-extraction-plants-in-the-united-states

5. CATL Mine Reserve Approval Paves Way for Production Restart

Chinese regulators have approved the reserve reports for CATL's Jianxiawo lithium mine, bringing it closer to resuming operations. The mine had suspended production in August after its mining permit expired. With the reserve approval now in place, CATL can advance its permit renewal and restart plans. The decision was part of a broader move where two major lithium producers in Yichun received similar approvals. The clearance reduces uncertainties about supply disruption in China's lithium sector. Market reactions were mixed, with some lithium miners seeing share declines despite the positive news. The move helps stabilize the lithium outlook and supports CATL's dominant position in battery materials. While challenges remain in permitting and permitting timing, the development is a key step toward restarting output. Analysts view the approval as easing short-term supply pressure in global lithium markets.

https://cnevpost.com/2025/09/30/catl-mine-reserve-report-approved-closer-resuming-production/

6. Liontown to Revise Tesla Offtake Deal, Enters Talks with Ford

Liontown Resources is renegotiating the pricing terms of its long-term offtake agreement with Tesla, shifting away from lithium hydroxide indices toward spodumene concentrate pricing. The company confirmed that the changes will not affect the remaining volume commitments under the existing contract, which runs through 2029. In parallel, Liontown is in discussions with Ford Motor Company to amend both offtake and loan agreements. Those talks could lead to adjustments in contract quantities, future delivery commitments, and debt structuring. The move reflects evolving market dynamics and the company's aim to gain exposure to a broader "pricing basket" across lithium products. By diversifying pricing benchmarks, Liontown seeks greater flexibility and resilience. These developments are significant for its role as a lithium supplier amid shifting demand pressures.

https://www.ltresources.com.au/wp-content/uploads/2025/09/61286963.pdf

7. Century Lithium Advances Permitting at Angel Island Project

Century Lithium has reported significant progress in permitting for its Angel Island lithium project in Nevada. The project has been designated under the U.S. FAST-41 Transparency program, which enhances federal coordination and oversight. The company has completed and submitted all baseline environmental studies to the Bureau of Land Management, covering biological, cultural, water, and land use assessments. These submissions mark a major milestone toward initiating the NEPA review process. Century Lithium also completed a $4.7 million LIFE offering to fund its updated Feasibility Study and ongoing permitting work. The new study will include optimized recovery processes and refined technical data. With these steps, the project has been further de-risked and strengthened for investor and offtake engagement. The next phase will involve submitting the Plan of Operations and advancing through the NEPA analysis. Once operational, Angel Island is expected to produce high-quality, battery-grade lithium carbonate, supporting the growing U.S. clean energy supply chain.

https://www.centurylithium.com/news/century-lithium-progress-on-permitting-at-angel-island

8. Pure Lithium Taps Voltaiq to Speed Battery Commercialization

Pure Lithium has entered a multi-year partnership with Voltaiq to deploy the Voltaiq Enterprise Battery Intelligence platform across its operations. The software will replace Pure Lithium's internal analytics system, offering scalable battery quality analytics and control as the company transitions toward commercialization. Voltaiq's platform can detect defects weeks earlier than conventional QC methods, potentially accelerating factory ramp-up by over 50%. This capability will support Pure Lithium's pilot production line, optimize operations in real time, and facilitate secure cloud-based historical data tracking. As Pure Lithium relocates to Chicago and begins shipping sample cells to customers, the alliance helps ensure smooth cross-site transitions. The company sees Voltaiq as essential to balancing speed to market with reliable quality in battery manufacturing. The partnership underscores the increasing role of advanced software tools in scaling next-generation energy technologies.

https://www.businesswire.com/news/home/20251001228795/en/Pure-Lithium-Partners-with-Voltaiq-to-Accelerate-Commercialization

9. Blue Whale Materials Commissions Baseline Recycling Plant in Bartlesville

Blue Whale Materials has commissioned a baseline lithium-ion battery recycling plant in Bartlesville as part of its strategy to expand U.S. battery recycling capabilities. The facility marks an early operational milestone in the company's domestic growth plans. Using its proprietary "Blacksand" process, Blue Whale aims to recover critical metals such as cobalt, nickel, and lithium from spent batteries. The plant will process end-of-life consumer and EV batteries, along with production scrap. Blue Whale's technology is designed to deliver a high-purity dry product optimized for downstream refining. The move strengthens the company's position in the evolving American circular battery supply chain. It complements a planned expansion to handle significantly higher throughput. The initiative is aligned with broader efforts to build resilient, local critical-materials infrastructure. By bringing recycling closer to end markets, Blue Whale is helping mitigate supply risks and reduce reliance on imports.

https://www.bluewhalematerials.com/bwm-commissions-baseline-plant-in-bartlesville

10. Metallium Signs MOU with Glencore to Scale U.S. E-Waste Recycling

Metallium's U.S. arm, Flash Metals USA, has entered a Memorandum of Understanding with Glencore to facilitate long-term collaboration in the supply of electronic scrap and metal offtake. The non-binding agreement, effective immediately, paves the way for Glencore to become a major feedstock supplier to Metallium's first commercial facility. As part of the deal, Glencore will also provide technical support for feedstock processing, including assaying. Under the MOU, Glencore gains rights to purchase up to 75 % of Metallium's marketable recycled outputs—metallic metals, chlorides, and hydroxides. Metallium retains freedom to independently market high-value niche products like gallium, germanium, indium, and rare earths. The framework runs until the end of 2025, with both parties aiming to convert it into a binding agreement by year's close. Metallium views this as a pivotal step in securing critical feedstock, supporting Stage 1 requirements, and reinforcing its U.S. expansion roadmap. For Glencore, the cooperation strengthens its role in the circular economy and extends its reach in U.S. recycling infrastructure.

https://investorhub.metalliuminc.com/announcements/7181457

11. U.S. Government to Acquire 5% Stake in Lithium Americas and GM JV

The U.S. Department of Energy is set to acquire a 5% stake in Lithium Americas and its joint venture with General Motors at the Thacker Pass lithium project. The investment falls under a "First Draw Terms" agreement designed to advance DOE financing for the project's next phase. While currently non-binding, the agreement signals strong federal backing for domestic lithium production. The DOE's participation aims to accelerate project development and strengthen the U.S. critical minerals supply chain. It also helps align government and private sector interests in securing strategic raw materials for the EV industry. The move could attract additional private investment by reducing project risk. For GM, this partnership ensures a reliable domestic source of battery-grade lithium. The decision reflects a broader U.S. policy shift toward equity participation in key energy infrastructure. Overall, it marks a milestone in building America's self-sufficiency in EV battery materials.

https://lithiumamericas.com/news/news-details/2025/Lithium-Americas-Reaches-Agreement-with-GM-and-U-S--DOE-Regarding-First-Draw-on-DOE-Loan/default.aspx

12. India Launches ₹1,500 Crore Incentive Scheme for Critical Mineral Recycling

The Indian government has issued guidelines for a ₹1,500 crore incentive scheme aimed at scaling up recycling of critical minerals. The scheme, approved by the Union Cabinet, is part of the National Critical Minerals Mission. Eligible feedstock includes e-waste, spent lithium-ion batteries, and other scrap materials. Incentives will support activities that extract critical minerals—not just black mass processing. Applications opened on October 2, 2025, and will remain open for six months until April 1, 2026. Subsidies are available for both capital expenditure and operational costs. Incentive caps are set at ₹50 crore for large recyclers and ₹25 crore for smaller entities. The government expects the scheme to enable recovery of around 40,000 tonnes of critical minerals annually. It also anticipates attracting ₹8,000 crore in investment and creating approximately 70,000 jobs. The move is designed to strengthen supply chain resilience and reduce dependency on import of critical minerals.

https://auto.economictimes.indiatimes.com/news/aftermarket/govt-throws-open-1500-crore-critical-mineral-recycling-incentive-scheme/124306241

13. Canada Pours Funding into Quebec's Critical Minerals Ambitions

Canada's federal government has approved conditional funding of up to CAD 735,000 for Arianne Phosphate Inc. under the Critical Minerals Research, Development and Demonstration program. This support is part of a broader CAD 80.3 million commitment unveiled at the 2025 G7 summit to fortify critical mineral supply chains nationwide. The funds will aid development of Arianne's Lac à Paul deposit, enhancing its phosphoric acid purification and rock-to-product process. Phosphorus, now recognized as a critical mineral, is a key component in lithium-iron phosphate (LFP) batteries and agricultural fertilizers. The investment reflects Canada's strategy to build homegrown capacity in minerals essential for the green economy. Officials highlight that this step strengthens sovereignty, innovates processing, and creates knowledge-intensive jobs. The move also signals Ottawa's intent to lead in the clean energy transition through domestic value chains.

https://www.canada.ca/en/natural-resources-canada/news/2025/10/canada-invests-to-strengthen-critical-minerals-supply-chains-in-quebec.html

14. E3 Lithium Produces Battery-Grade Lithium Carbonate in Phase 1 Demonstration

E3 Lithium has achieved a major milestone by producing battery-grade lithium carbonate at its Phase 1 demonstration facility. The successful run validates the company's complete process chain—from direct lithium extraction (DLE) through to final purification. Lithium chloride produced at the site was converted into lithium carbonate with an average purity of 99.7%, meeting industry standards. Four internal samples confirmed consistent quality, with third-party verification underway. The results strengthen confidence in E3's technology and support the design of its upcoming commercial facility. Phase 1 operations will continue through Q4 2025, processing brine to produce more lithium carbonate for customer qualification. The material is expected to support potential offtake discussions with battery manufacturers. Phase 2 of the project will involve drilling well pairs to enable continuous production. This progress marks a key step in advancing E3 Lithium's commercialization strategy and Canada's domestic lithium supply chain.

https://www.e3lithium.ca/newsroom/news-releases/e3-lithium-produces-battery-grade-lithium-carbonate-from-its--phase-1-demonstration

15. Sila Launches U.S. First Automotive-Scale Silicon Anode Plant

Sila has begun operations at its new automotive-scale silicon anode facility in Moses Lake, Washington, marking a milestone in domestic battery materials manufacturing. The plant spans over 600,000 square feet on a 160-acre site and is engineered for large-scale production from day one. Initial output will support 2–5 GWh of capacity, with plans to scale up to 250 GWh over five years. The facility produces Titan Silicon™, Sila's silicon-carbon anode material, aimed at electric vehicles, consumer electronics, drones, AR/VR devices, and more. By manufacturing in the U.S., Sila aims to reduce dependency on imported graphite and close the gap between battery innovation and production domestically. The company emphasizes built-in automotive-grade quality systems and environmental safeguards. The move is framed as a strategic step toward reinforcing U.S. supply chain autonomy in advanced battery technology. Over time, the plant is expected to significantly impact the scale and competitiveness of American battery manufacturing.

https://www.silanano.com/press/press-releases/sila-opens-nations-first-automotive-scale-silicon-anode-plant-ushering-in-a-new-era-for-u-s-battery-manufacturing

16. E3 Lithium Divests Saskatchewan Assets to Focus on Core Clearwater Project

E3 Lithium has agreed to sell its non-core Estevan lithium district assets in Saskatchewan for approximately USD 4.3 million. The buyer is an independent private company, with the transaction expected to close in late Q4 2025, pending customary approvals. While E3 acknowledges the long-term potential of the Estevan area, it is redirecting resources toward its flagship Clearwater Project in Alberta. Proceeds from the sale will strengthen the company's balance sheet and accelerate development of Clearwater. This strategic divestment enables E3 to focus on progressing toward a final investment decision for its fully integrated lithium production plan. The move reflects a broader optimization strategy—prioritizing high-impact assets and monetizing non-core holdings. E3 emphasizes that the sale does not rule out future opportunities in Saskatchewan. Instead, it enhances near-term value creation and operational efficiency. Overall, the transaction marks another step in sharpening E3 Lithium's commercial and developmental focus.

https://www.e3lithium.ca/newsroom/news-releases/e3-lithium-enters-into-agreement-to-sell--non-core-saskatchewan-assets

17. Pure Lithium Taps Voltaiq to Accelerate Battery Commercialization

Pure Lithium has formed a multi-year partnership with Voltaiq to integrate its Enterprise Battery Intelligence platform into Pure Lithium's operations. Voltaiq's analytics software will replace Pure Lithium's internal systems and support scaling from R&D to commercial production. The platform is expected to detect defects weeks earlier than conventional quality control, potentially speeding factory ramp-up by more than 50 %. It will help optimize pilot line operations, ensure consistent data tracking, and support the company's relocation and sample cell shipments to customers. This collaboration reinforces Pure Lithium's shift toward commercialization and ensures robust quality control systems. The alliance comes as Pure Lithium readies its first pilot line and transitions to commercial readiness. By relying on Voltaiq's battery analytics, Pure Lithium aims to accelerate time to market while letting its team focus on core technology.

https://www.businesswire.com/news/home/20251001228795/en/Pure-Lithium-Partners-with-Voltaiq-to-Accelerate-Commercialization

18. Single-Step Breakthrough in Battery Cathode Recycling

Engineers at the University of Illinois have developed a novel single-step process that recycles spent battery cathodes by dissolving their metals and redepositing them onto new cathodes in one electrochemical reaction. This method, demonstrated on lithium cobalt oxide cathodes, merges extraction and reformation into a single stage. It reportedly costs one-eighth as much and has over 50 % lower environmental impact than traditional multi-step recycling approaches. The process reduces input materials and energy use, minimizes chemical handling, and lowers health risks. It streamlines cathode recycling by eliminating separate breakdown, purification, and coating phases. Early testing shows it meets quality expectations for reclaimed metals. Researchers plan to adapt the method for a broader range of cathode chemistries beyond lithium cobalt oxide. An international patent has been filed. This advance could significantly shift the economics and accessibility of sustainable battery recycling infrastructure.

https://matse.illinois.edu/news/77759

EV and Batteries

19. Eni & Seri Industrial Launch 8 GWh LFP Battery Project in Brindisi

Eni and Seri Industrial have launched a new joint venture, Eni Storage Systems, to develop stationary lithium-iron-phosphate (LFP) battery manufacturing at Brindisi in southern Italy. The project aims for more than 8 GWh of annual capacity, primarily targeting the grid storage market. It is now in the engineering and permitting stage, with economic, financial, and authorization assessments expected to wrap up by Q1 2026. In addition to battery cell production, the facility will produce cathode active material and assemble complete battery energy storage systems (BESS). Plans also include future battery recycling infrastructure at the site, which may serve third-party operators. Eni holds a slight controlling interest (50% plus one share), while Seri's subsidiary Fib holds the remainder. The Brindisi operation is intended to complement Seri's Teverola battery plants and help form an integrated battery hub. Together, the partners aim to capture over 10% of Europe's stationary battery market. This move marks a significant advancement in Italy's domestic battery supply chain and aligns with broader energy transition goals.

https://www.eni.com/en-IT/media/press-release/2025/09/eni-storage-systems-joint-venture-between-eni-and-fib-launches-activities-brindisi-to-develop-stationary-lithium-batteries.html

20. Qcells' Detained Solar Cells Cleared by U.S. Customs for Georgia Factories

U.S. Customs and Border Protection has released Qcells' previously detained solar cell shipments to its factories in Georgia. The detainment occurred under the Uyghur Forced Labor Prevention Act (UFLPA), which scrutinizes solar imports for potential links to forced labor in Xinjiang. The released cells originated from Qcells' facilities in South Korea and Malaysia and were confirmed to contain no Xinjiang-sourced materials. Qcells emphasized its ongoing collaboration with Customs officials

to ensure full compliance and prevent future delays. The company is expanding its U.S. manufacturing footprint to reduce dependency on imported solar components. This release marks a positive step in stabilizing Qcells' U.S. production pipeline. The broader industry continues to face heightened customs scrutiny amid tightened import regulations. Trade compliance and transparent supply chains are becoming critical to solar market resilience. Qcells' proactive approach highlights its commitment to ethical sourcing and domestic clean energy growth.

https://pv-magazine-usa.com/2025/09/24/qcells-customs-detained-cells-released-to-its-georgia-factories/

21. JSW Motors Eyes China EV Tech Tie-Ups to Fuel India Entry

JSW Motors is in active talks with Chinese EV players including BYD, Geely, Chery, Xiaomi, Nio, and Li Auto to gain access to vehicle platforms and core components. The company has earmarked about ₹26,000 crore over the next five years to support its push into India's passenger vehicle market. JSW aims for its first models to roll out by mid-2026, with SUVs being the initial focus. Rather than equity partnerships, JSW is seeking licensing agreements and royalty structures to retain full control. It's also exploring contract manufacturing arrangements, for example hosting BYD production in India to bypass import duties. The firm plans a greenfield factory in Maharashtra with a capacity target of 500,000 units annually. Its strategy rests on "brutal localization" — aggressively integrating domestic content. Talks also extend to European OEMs like Volkswagen and Renault to diversify its technology pipeline. By forming flexible alliances, JSW hopes to accelerate its market entry without ceding ownership. The move positions JSW as a rising contender in India's electrified mobility landscape.

https://telematicswire.net/jsw-motors-in-talks-with-byd-chinese-ev-firms-to-power-india-entry/

22. Asaka Motors and Rosatom Push for Local EV Battery Production in Uzbekistan

Asaka Motors International and Rosatom's Fuel Division have signed a cooperation agreement to explore setting up lithium-ion battery and energy storage manufacturing in Uzbekistan. The joint project aims to develop traction batteries for electric vehicles and stationary systems domestically. Partners will define assembly line capacity, component localization plans, target customers, and export potential to Central Asia and beyond. The agreement was formalized during World Atomic Week in Moscow. Asaka Motors, primarily an auto importer, is now branching into high-technology and industrial ventures. Rosatom's Fuel Division, which handles nuclear fuel and related technologies, is also expanding into energy storage and advanced materials. The collaboration is seen as a strategic step for Uzbekistan to build local battery supply chains. If successful, it could reduce reliance on imports and support the region's EV and clean energy ambitions.

https://kun.uz/en/news/2025/09/27/asaka-motors-international-and-rosatom-discuss-lithium-ion-battery-production-in-uzbekistan

23. Kyrgyzstan Eyes Domestic Lithium Battery Manufacturing with Rosatom Tie-Up

Kyrgyzstan's Ministry of Economy has signed a cooperation memorandum with Rosatom's Fuel Division, Energy Solutions Kyrgyzstan LLC, and Elbrus Construction to explore lithium-ion battery and energy storage system production. The agreement calls for joint market analysis, proposals for localized manufacturing, and project planning within the country. It aims to attract high-tech investment, create new jobs, and bolster Kyrgyzstan's energy sovereignty. With rising imports of electric vehicles, local battery and storage production could reduce dependency on foreign supply chains. The deal aligns with broader efforts to support EV assembly and clean technology in urban centers like Bishkek. Earlier, Kyrgyzstan also inked a pact with South Korean firms to expand EV charging infrastructure. The initiative positions the country to tap into regional battery markets. If executed, it could catalyze a shift toward sustainable transport and renewables in Central Asia.

https://mineconom.gov.kg/ru/post/11214

24. China Surges Past South Korea in EV Battery Market

Chinese battery makers are now running at about 90% factory utilization, far outpacing South Korea's producers, which operate at only 50% capacity. This surge reflects China's dominance in lithium-iron phosphate (LFP) technology, which has rapidly overtaken South Korea's traditional nickel-based chemistries. Korean giants like LG Energy Solution, SK On, and Samsung SDI are struggling with shrinking margins and slower market growth. China's edge comes from large-scale integration across mining, materials, and battery manufacturing, supported by state subsidies and industrial policies. Meanwhile, Korean

firms' focus on premium nickel chemistries left them exposed as global demand shifted to cost-efficient LFP batteries. In response, South Korean companies are racing to adapt and retool production lines for LFP. Analysts warn that survival now depends on innovation in next-generation or high-performance battery technologies. This turning point highlights China's growing control over mainstream EV battery markets. The global balance of power in energy storage has clearly tilted eastward.

https://restofworld.org/2025/china-ev-battery-south-korea/

25. Greenvolt Wins Major Contract in Italy's First Battery Storage Auction

Greenvolt Group, through its subsidiary Greenvolt Power, emerged as a winner in Italy's inaugural large-scale battery storage auction under the MACSE framework. The company secured 499 MWh of contracted capacity for one of its projects in southern Italy (Calabria). The awarded contract spans 15 years and is indexed to the consumer price index (CPI). The project will be Greenvolt's first 8-hour lithium-ion battery system, with a proposed capacity of 75 MW/600 MWh. This marks Greenvolt's entry into long-duration storage in Italy, supporting grid flexibility and renewable integration. The auction was highly competitive, attracting bids exceeding four times the available 10 GWh of capacity. Italy plans two more such auctions through 2028, targeting 70 GWh of operational storage by 2030. Greenvolt's success underscores its positioning as a growing force in European battery storage.

https://greenvolt.com/greenvolt-group-among-the-winners-of-italys-largest-battery-storage-auction-securing-499mwh/

26. Lyten Advances Acquisition of Northvolt Assets in Sweden

Lyten, a U.S. battery startup focused on lithium-sulfur technology, has entered into a binding agreement to acquire Northvolt's remaining assets in Sweden, Germany, and Poland. This move follows Northvolt's bankruptcy and provides a pathway to restart European battery production. Lyten plans to reappoint former Northvolt executives to lead the revived operations, including naming Matthias Arleth as CEO of its Swedish division. The transaction is contingent on regulatory approvals from Swedish, German, and European authorities. The acquisition includes Northvolt's factories, intellectual property, and project portfolio. Lyten intends to resume lithium-ion cell manufacturing while developing its own lithium-sulfur product lines. Analysts note the deal offers a second chance to salvage Northvolt's infrastructure for Europe's battery ambitions. However, it faces skepticism from automakers awaiting proof of performance and reliability. The takeover marks a critical juncture in the European battery industry's efforts to rebuild scale and competitiveness under new leadership.

https://lyten.com/2025/09/03/lyten-announces-new-leadership-in-europe-following-announced-northvolt-acquisition/

27. LG Energy Solution Expands Beyond Batteries into Software and ESS Services

LG Energy Solution is broadening its business scope from battery manufacturing to include advanced software and energy storage system (ESS) solutions. The company is rolling out its B.around platform, which uses AI and cloud analytics to monitor battery health, predict performance degradation, and enhance safety. It has also launched B-Lifecare, a service that allows EV owners to track battery conditions through smartphones and home devices. As part of its strategy, LG is developing a Battery-as-a-Service (BaaS) model, covering battery leasing, rentals, and recycling to secure recurring revenue. The firm is expanding ESS deployments across North America and Europe, targeting residential, commercial, and utility-scale sectors. LG reports that its upgraded B.around algorithm achieves less than 2% error, setting a new benchmark for accuracy. This evolution supports LG's vision to become a full-scale "circular energy" company. The initiative marks a strategic shift from pure hardware manufacturing to integrated digital and service-driven energy solutions.

Consultant

28. Ecobat Completes Sale of French Lead Operations to Campine

Ecobat has finalized the sale of its French lead operations to Belgian recycling company Campine NV, following regulatory approvals and consultations. The transaction includes Ecobat's facilities in Estrée-Saint-Denis, Bazoches, and Pont-Sainte-Maxence. This move aligns with Ecobat's strategy to focus on its core growth platforms, particularly in advanced battery recycling and materials recovery. CEO Tom Slabe thanked the French teams for their contributions and expressed confidence in their transition under Campine's ownership. The sale marks Ecobat's exit from lead metal operations in France, though the company remains active in other European recycling ventures. Campine, listed on Euronext Brussels, will integrate the sites

into its expanding recycling and specialty chemicals portfolio. The transaction follows Ecobat's earlier binding offer and successful works council negotiations. It also supports Ecobat's plan to streamline operations and strengthen its global sustainability focus. The deal underscores ongoing consolidation in the recycling industry as companies sharpen their specialization.

https://ecobat.com/2025/10/ecobat-completes-sale-of-french-lead-operations-to-campine/

29. Dragonfly Energy to Receive Nevada Tech Hub Grant to Boost U.S. Battery Manufacturing

Dragonfly Energy has been selected for first-round funding from the Nevada Tech Hub to support its lithium battery production and workforce expansion efforts. The award, expected to be around USD 300,000, will fund modernization of manufacturing systems, pursuit of ISO 9001 certification, and upgrades to its battery production lines. The company aims to generate six-figure annual savings through these operational enhancements. Part of the initiative includes partnerships with Truckee Meadows Community College and the University of Nevada, Reno to train workers in automation, machining, and maintenance. Dragonfly plans to recruit and upskill new production staff to support scale-up. Operating in a 400,000 sq ft facility in South Reno, the company is positioned to anchor advanced battery jobs in the region. The funding is non-dilutive, meaning it won't dilute existing shareholders' stakes. This step aligns with Nevada's broader ambition to build a self-sustaining lithium battery ecosystem. The contract is currently being finalized, with implementation to follow.

https://dragonflyenergy.com/dragonfly-energy-to-be-awarded-nevada-tech-hub-funding-to-advance-battery-manufacturing-and-workforce-development/

Salt and Electrolyte

30. EcoPro & Green Li-ion Ink LOI for Recycled NCM Hydroxide Supply

EcoPro Materials and Green Li-ion have signed a non-binding Letter of Intent to form a long-term strategic partnership in battery recycling and materials supply. Green Li-ion will supply recycled NCM hydroxide from its U.S. Atoka facility to EcoPro over a five-year term starting 2026. The LOI supports expansion of Atoka's production capacity in anticipation of full commercial deals. Initially, the partnership will focus on NCM hydroxide, but may extend to other battery materials pending mutual agreement. Green Li-ion is completing a production trial before finalizing long-term contracts. EcoPro's commitment helps anchor demand for recycled battery outputs. Green Li-ion's CEO noted the LOI as a key step in scaling circular battery material supply. The deal reinforces the increasing role of recycled input in battery precursor markets. Both firms aim to concretize binding supply agreements once trials validate performance.

https://www.greenli-ion.com/post/ecopro-materials-and-green-li-ion-announce-loi-to-establish-long-term-strategic-partnership-for-recycled-ncm-hydroxide-supply

31. 24M Introduces High-Energy 'eTop' Electrode Tech to Boost U.S. Battery Manufacturing

24M has unveiled its new eTop electrode-to-pack technology, a fully integrated cell-to-pack design aimed at unlocking higher energy density and cost efficiencies. The eTop architecture eliminates many of the intermediate module structures used in conventional battery packs, simplifying assembly and reducing weight. The company claims that the new approach can reduce component needs by up to 40%, improving performance and economics. This innovation also enables better thermal management and compact packaging—key advantages in EV design. 24M says eTop is compatible with its semi-solid electrode platform and existing manufacturing lines, facilitating smoother scale-up. It's intended to lower capital costs and boost factory utilization across U.S. battery plants. The technology is expected to accelerate domestic battery production and strengthen America's supply chain. 24M positions the rollout as a bridge between lab advances and industrial deployment. If adopted widely, eTop could shift industry standards for battery pack architecture in North America.

https://24-m.com/press-releases/24m-unlocks-new-u.s.-battery-manufacturing-opportunities-with-groundbreaking-energy-dense-24m-etop-electrode-to-pack-technology

32. Enchem Pulls Plug on $143M U.S. Plant Plan

Enchem, the South Korean battery materials firm, has canceled its long-planned $143 million investment to build a production facility in the U.S. The decision reflects changing market dynamics and risk assessments around overseas expansion. The scrapped project was intended to broaden Enchem's U.S. footprint and access American demand. Analysts suggest the move may slow the company's global growth ambitions in the near term. Enchem retains its core operations and continues focusing on existing capacity and product development. The cancellation raises questions about investor sentiment and capital allocation in the battery supply chain. It also highlights the challenges faced by Asian firms trying to localize production in the U.S. Broader industry watchers will view this as a cautious signal in cross-border battery investment.

Consultant

LFP-ESS and Start ups

33. EG4 Leverages U.S.-Made Cells via LG Deal to Scale Energy Storage Domesticall

EG4 Electronics has secured a six-year agreement with LG Energy Solution for 13.275 GWh of U.S.-manufactured lithium-iron phosphate (LFP) battery cells. The deal replaces reliance on imported cells in light of tariff pressures and domestic content rules. EG4's headquarters in Texas already assembles inverters, and this partnership enables further vertical integration. The U.S.-made cells are expected to be cost-competitive once import tariffs (~60%) are factored in. LG offers a 15-year warranty on the cells, providing assurance to buyers and insurers. The move bolsters EG4's ability to expand in residential, commercial, and utility energy storage markets. Until now, many U.S. storage firms depended heavily on overseas suppliers. With a secured domestic supply, EG4 aims to drive broader adoption of behind-the-meter and distributed storage solutions nationwide.

https://pv-magazine-usa.com/2025/09/23/energy-storage-made-in-america/

34. Taiwan's EnergyTrend Reports Sharp Uptick in N-Type Solar Cell Prices & Supply Tightening

EnergyTrend reports a notable rebound in N-type solar cell prices driven by renewed demand amid tighter supply conditions. The data indicates that manufacturers are increasingly favoring top-tier N-type cells over traditional variants. Price gains have been particularly strong for advanced formats like TOPCon and heterojunction (HJT) chemistries. The trend aligns with rising adoption of high-efficiency modules in global markets. Upward pressure is also seen across wafers and upstream materials, reflecting supply stress. EnergyTrend suggests inventories are tightening as installations and policy support intensify. The firm anticipates that price strength may persist into late 2025. For manufacturers, this environment provides an incentive to accelerate upgrades in capacity and yield. The dynamic underlines how the solar value chain is recalibrating around premium cell formats.

https://www.energytrend.com/news/20250918-50162.html

CATL Stock Rockets on JPMorgan Upgrade Amid China Energy Storage Surg

CATL shares soared following a bullish upgrade by JPMorgan, which raised its 2025–26 earnings forecasts by nearly 10 %, citing strong demand and improved profitability. The Hong Kong-listed shares jumped over 10 %, while its Shenzhen shares rallied by up to 14 %. The rally reflects investor optimism tied to China's sweeping plans to nearly double new energy storage capacity to 180 GW by 2027. Analysts view CATL as a primary beneficiary of the shift toward large-scale lithium-ion battery deployment in grid systems. Offshore valuations now command a significant premium over onshore listings, signaling global appetite for Chinese battery plays. The upgrade also rallied broader battery and clean energy stocks across China. CATL's Q2 net income already surged ~34 %, outpacing many competitors. With its scale and vertical integration, the company is seen as a proxy for China's clean energy transition. The stock's strength underscores growing confidence in its role at the center of the global battery and storage boom.

Consultant

35. Korean Battery Giants Vie for Next Government ESS Contract

South Korea's government is opening a second round of ESS (energy storage systems) procurement, targeting 540 MW of new capacity under competitive bidding. The Korea Power Exchange has confirmed this fresh tender, which mirrors the scale of the first round. Samsung SDI dominated the initial auction, securing six out of eight projects (429 MW), with LG Energy

Solution taking the remaining two. Now, rivals LG and SK On aim to reclaim share and challenge Samsung's lead in the sector. The new bid criteria will give more weight to non-price factors like grid connectivity, fire safety, and technological capability. LG and SK are reportedly preparing strategies like relocating equipment, converting existing lines, and strengthening safety credentials to bolster competitiveness. Success in this procurement is seen as a strategic gateway — winning domestic ESS contracts can validate reputation and help in global tenders. Industrial observers suggest this contest will reshape the balance among Korea's battery majors. The outcome may define who becomes the dominant ESS supplier in South Korea's clean energy future.

Contract

36. Sunwoda Launches Modular 40 kWh Home & Business Storage System

Sunwoda Energy has introduced the SunESS Power, a modular all-in-one energy storage system designed for homes and small businesses. The system offers up to 40 kWh capacity and 30 kW output by combining hybrid inverters and $LiFePO_4$ battery modules. Its module-level "intelligent energy optimizer" can boost voltage from 51 V to 350-450 V, enabling stacking and parallel operation. This flexibility lets users mix new and existing modules without needing calibration and improves lifetime throughput by over 25 %. Each module works autonomously, and faulty units are automatically isolated to maintain overall performance. The system achieves over 97.4 % efficiency, with a power density of 192.3 W/dm³ and energy density of 105 Wh/dm³. It is 40 % thinner than comparable units, making it suitable for space-constrained settings. The design includes IP65 protection, corrosion resistance, active thermal management, and reliable operation across –20 °C to high heat. Sunwoda backs the product with a 10-year warranty covering both inverter and battery. This launch represents Sunwoda's push deeper into the distributed energy storage market.

https://www.pv-magazine.com/2025/10/01/sunwoda-energy-unveils-40-kwh-storage-system-for-homes-businesses/

37. EVE Energy & CommVOLT Strike 500 MWh Deal to Advance Europe's Storage Build-Out

EVE Energy and Polish smart PV systems innovator CommVOLT have signed a strategic cooperation agreement totaling 500 MWh to jointly support Europe's clean energy transition. The deal was unveiled during Solar & Storage Live UK 2025 and focuses on scaling battery deployment across European markets. EVE will bring its flagship storage technology to the partnership, while CommVOLT contributes its local market insight and PV system integration expertise. Together they aim to accelerate the commercialization and roll-out of energy storage systems. The collaboration strengthens EVE's presence in Europe and helps CommVOLT secure supply on favorable terms. It also reflects growing momentum toward integrated renewables and storage ecosystems across the continent.

https://www.evebattery.com/en/news-1875

38. Italy Awards Full 10 GWh in First Battery Storage Auction — Enel Secures Half

Italy has successfully awarded all 10 GWh of capacity in its first national battery storage auction, signaling strong investor confidence in grid-scale storage. Energy giant Enel captured over half of the awarded capacity across five large projects, cementing its leadership in Italy's energy transition. The auction achieved an average contracted price of €12,959 per MWh per year, far below the regulatory ceiling of €37,000. Developers will receive 15-year fixed revenues, reducing investment risk and ensuring long-term stability. Winning projects are slated to begin operations by 2028. Plenitude, the renewables arm of Eni, secured two projects totaling 500 MWh. Bidding was highly competitive, with offers exceeding available capacity by nearly four times. The auction represents roughly €1 billion in total investment, a major boost for Italy's storage sector. Analysts say the low clearing prices set a new benchmark for European energy storage economics. The results underscore Italy's rapid progress toward grid flexibility and renewable integration.

https://www.reuters.com/sustainability/boards-policy-regulation/italy-awards-all-battery-storage-first-auction-enel-wins-half-2025-10-01/

39. Nightpeak Energy Brings 150 MW Storage Online Near Houston

Nightpeak Energy has officially launched its Bocanova Power facility — a 150 MW, 2-hour battery storage project located 24 miles south of Houston, Texas. The facility reached commercial operation in August 2025, supplying flexible grid support

during peak demand periods. It leverages Tesla Megapack 2 XL systems and operates under a long-term power purchase agreement. The project was developed and financed in just two years, involving debt, tax equity, and bridge financing from multiple institutions. Nightpeak's portfolio now includes 240 MW of battery and gas generation capacity across the U.S. The company says it is accelerating deployment of dispatchable energy solutions in response to rising grid stress. Bocanova supports Texas's demand for reliability, renewables integration, and scalable storage assets.

https://www.prnewswire.com/news-releases/nightpeak-energy-announces-commercial-operation-of-150-mw-battery-storage-facility-near-houston-302574701.html

40. GoldenPeaks & Huawei Ink MoU for 500 MWh Grid-Forming BESS Rollout in Europe

GoldenPeaks Capital, a leading independent power producer in Central and Eastern Europe, and Huawei Polska have signed a Memorandum of Understanding to jointly develop 500 MWh of battery energy storage system (BESS) projects. The agreement leverages Huawei's grid-forming energy storage technology to help stabilize electricity networks as renewable penetration increases. GoldenPeaks will drive project deployment in its core markets — especially Poland and Hungary — where it already has a strong solar footprint. The partnership aims to deliver end-to-end solutions, combining Huawei's hardware, software, and safety standards with GoldenPeaks' regional market knowledge and development capacity. The cooperation signals a deepening of an existing relationship, as the two have collaborated on energy assets over past years. GoldenPeaks sees the agreement as a milestone in its strategy to scale battery deployment across Europe. The MoU provides a framework for future binding contracts and utility-scale projects. Observers regard this as a step toward making large-scale storage more reliable and integrated with renewables across the continent.

https://goldenpeakscapital.com/news/goldenpeaks-capital-and-huawei-expand-their-renewable-energy-partnership-with-grid-forming-bess-projects-in-europe

Technology and Regulatory

41. Chinese Sodium-Ion Batteries Challenge Korean Battery Leaders

China's CATL is preparing to begin mass production of its second-generation Naxtra sodium-ion batteries by December, posing a major competitive threat to South Korea's battery giants. These sodium-ion batteries are cheaper to produce than nickel-cobalt-manganese (NCM) types, safer from fire risks, and perform better in low temperatures. In contrast, Korean manufacturers LG Energy Solution, Samsung SDI, and SK On remain in the early stages of sodium-ion R&D. Analysts warn that China's faster commercialization could allow its firms to capture significant global EV battery market share. Korea's top three battery makers, once holding over 30% market share, have dropped to about 16.4% in 2025. Meanwhile, Chinese producers now dominate with nearly 78% of global EV battery output. Industry experts urge Korean companies to accelerate innovation and adapt to sodium-ion technology to stay competitive. Some Korean automakers are already evaluating Chinese battery supplies due to cost pressures. The shift underscores how chemistry advances and price competitiveness are redefining global battery leadership.

42. LG Chem Opens "Autonomous Smart Lab" to Elevate Materials Analysis

LG Chem has established an Autonomous Smart Lab within its analytical R&D campus in Daejeon, South Korea. The lab focuses on precision analysis of raw battery materials, including lithium, nickel, cobalt, and manganese. The facility leverages AI, robotics, and smart automation to accelerate materials characterization workflows. By reducing human intervention, it aims to improve efficiency, reproducibility, and throughput in battery materials research. LG says the lab integrates autonomous sample handling, automated measurement, and data analytics. The move supports LG's ambition to speed up innovation in battery chemistry and quality control. It also enhances its capability to respond quickly to material supply and performance challenges. The lab represents a step toward more self-driven, data-intensive R&D in the battery space. Its operation could help LG maintain competitive advantage in the evolving battery materials sector.

43. Sunrise Secures U.S. Patent for Advanced Lithium-Ion Anode Technology

Sunrise New Energy has obtained a U.S. Patent (No. US 12,371,341 B2) for its innovative method of preparing lithium-ion battery anode materials. The patented process integrates titanium, nitrogen, and fluorine co-doped porous titanium dioxide with graphite composites to significantly enhance first-cycle Coulombic efficiency and overall power performance. The technique involves dispersion, doping, heating, and carbonization steps to produce a high-performance composite material. Sunrise stated that this patent marks a key milestone in strengthening its technological leadership in the U.S. battery materials sector. The innovation supports improved energy density, stability, and faster charging capabilities for next-generation batteries. With this achievement, Sunrise aims to expand partnerships with North American battery manufacturers and electric vehicle OEMs. The company plans to accelerate the industrial application and scaling of the technology. This development reinforces Sunrise's global strategy to lead in advanced anode innovation while expanding its international footprint.
https://www.globenewswire.com/news-release/2025/09/29/3158114/0/en/Sunrise-Secures-U-S-Patent-for-Advanced-Lithium-Ion-Battery-Anode-Material-Preparation-Method-Strengthening-Its-Leading-Position-in-the-United-States.html

44. DOE Restructures Lithium Americas Deal to Safeguard Taxpayers and Boost Domestic Supply

The U.S. Department of Energy has announced a restructured agreement with Lithium Americas and GM to better protect taxpayer interests while advancing domestic lithium production. The revised deal gives the U.S. government a 5 % equity stake via warrants in Lithium Americas and another 5 % in the Lithium Americas-GM joint venture. These warrants serve as part of collateral to reduce loan repayment risk. The restructuring also includes over USD 100 million in additional equity and more robust loan amendments. The facility at Thacker Pass is projected to produce about 40,000 tonnes per year of battery-grade lithium carbonate. DOE's move aligns with the administration's goal of onshoring critical minerals and reducing dependence on foreign sources. Officials argue the updated framework improves resilience and stewardship of public funds. Once operational, the project could play a pivotal role in U.S. battery supply chains.
https://www.energy.gov/articles/department-energy-restructures-lithium-americas-deal-protect-taxpayers-and-onshore

45. Focus Graphite Secures Up to CAD 300K in IPON Grant to Push Battery Tech Forward

Focus Graphite Inc. has been accepted into Ontario's Intellectual Property Ontario (IPON) program, qualifying for non-dilutive funding up to CAD 300,000 to support its battery materials work. The company can draw CAD 100,000 per year, with IPON covering up to 80% of eligible costs. The funding will underwrite efforts like patent drafting and prosecution, claim amendments, trademark registration, prior art analysis, and commercialization benchmarking. This support comes at a pivotal time as Focus advances its silicon-enhanced spheroidized graphite technology. The company is seeking patent protection across Canada, the U.S., Europe, and Korea and is working with MBM Intellectual Property Law to expand its IP footprint. The funds are also geared toward branding, documentation, and marketing efforts to aid global commercialization. Focus positions the innovation for both electric mobility and defense uses, with dual markets in mind. The IPON backing strengthens its ability to protect core tech while scaling market reach. Overall, this marks a key milestone in capital-efficient development of next-gen battery materials.
https://focusgraphite.com/focus-graphite-secures-up-to-300k-in-ipon-funding-to-advance-patent-pending-battery-technolog

46. Cylib Secures €26.1 Million Grant to Build Advanced Battery Recycling Plant in Germany

Cylib has received a €26.1 million grant from the European Union under the ERDF/JTF program to construct a major lithium-ion battery recycling facility in Dormagen, North Rhine-Westphalia. The funding will support the first phase of development at the CHEMPARK Dormagen industrial site. The plant will recover valuable raw materials such as lithium, graphite, nickel, cobalt, and manganese from spent batteries and "black mass." Cylib's proprietary Optimized Lithium & Graphite Recovery (OLiC) process is designed to achieve over 90% recovery efficiency while reducing carbon emissions by up to 80% compared to conventional methods. Once fully operational in 2027, the facility will process approximately 60,000 tonnes of battery material annually, equivalent to 140,000 EV batteries. The project marks a key milestone in Europe's efforts to build a circular battery value chain and reduce dependence on imported critical materials. Cylib aims to establish itself as a cornerstone of Europe's sustainable battery recycling ecosystem.
https://www.cylib.de/post/cylib-confirms-eur-26-1-million-grant-for-battery-recycling-facility

47. Lithium Americas, GM & DOE Agree Terms for $435M First Draw on DOE Loan

Lithium Americas, alongside its joint venture partner GM, has reached a nonbinding "First Draw Terms" agreement with the U.S. Department of Energy to unlock a $435 million initial tranche of the broader $2.26 billion DOE loan. The DOE will defer $182 million of debt service over the first five years, and receive a 5 % equity stake in Lithium Americas via warrants, plus a 5 % economic interest in the JV. To bolster security, Lithium Americas will deposit $120 million into DOE reserve accounts within 12 months of draw. GM will amend its offtake agreement to allow the JV to negotiate external offtake contracts for volumes GM does not commit to. If DOE fully exercises its JV warrants, ownership would be 59 % Lithium Americas, 36 % GM, 5 % DOE (economic basis), while voting rights remain weighted toward Lithium Americas. DOE also gets an observer seat on the JV board while holding warrants. The total DOE loan expectation was trimmed to $2.23 billion, with construction interest estimates reduced. The loan term remains about 24 years, and the interest rate stays pegged to the long-dated U.S. Treasury rate. The First Draw is expected in Q4 2025, conditional on final agreements and approvals.
https://www.businesswire.com/news/home/20250930145378/en/Lithium-Americas-Reaches-Agreement-with-GM-and-U.S.-DOE-Regarding-First-Draw-on-DOE-Loan

48. DOE Restructures Lithium Americas Deal to Protect Taxpayers and Strengthen U.S. Lithium Supply

The U.S. Department of Energy has restructured its financing agreement with Lithium Americas and General Motors to enhance taxpayer protection and advance domestic lithium production. Under the new framework, the DOE will receive 5% equity warrants in Lithium Americas and an additional 5% stake in the joint venture with GM as part of its collateral package. The restructuring includes over $100 million in new equity, revised loan terms, and deferred repayment schedules to reduce financial risk. This move ensures the government shares in project success while safeguarding public funds. The funding supports construction of the Thacker Pass mine, which is expected to produce 40,000 tonnes per year of battery-grade lithium carbonate. The updated agreement also strengthens the project's financial base amid fluctuating market conditions. DOE officials said the revision reflects a shift toward "risk-sharing" partnerships in critical minerals development. The initiative aligns with U.S. goals to onshore key materials essential for EVs and energy storage. Overall, it marks a milestone in building a secure, sustainable American lithium supply chain.
https://www.energy.gov/articles/department-energy-restructures-lithium-americas-deal-protect-taxpayers-and-onshore