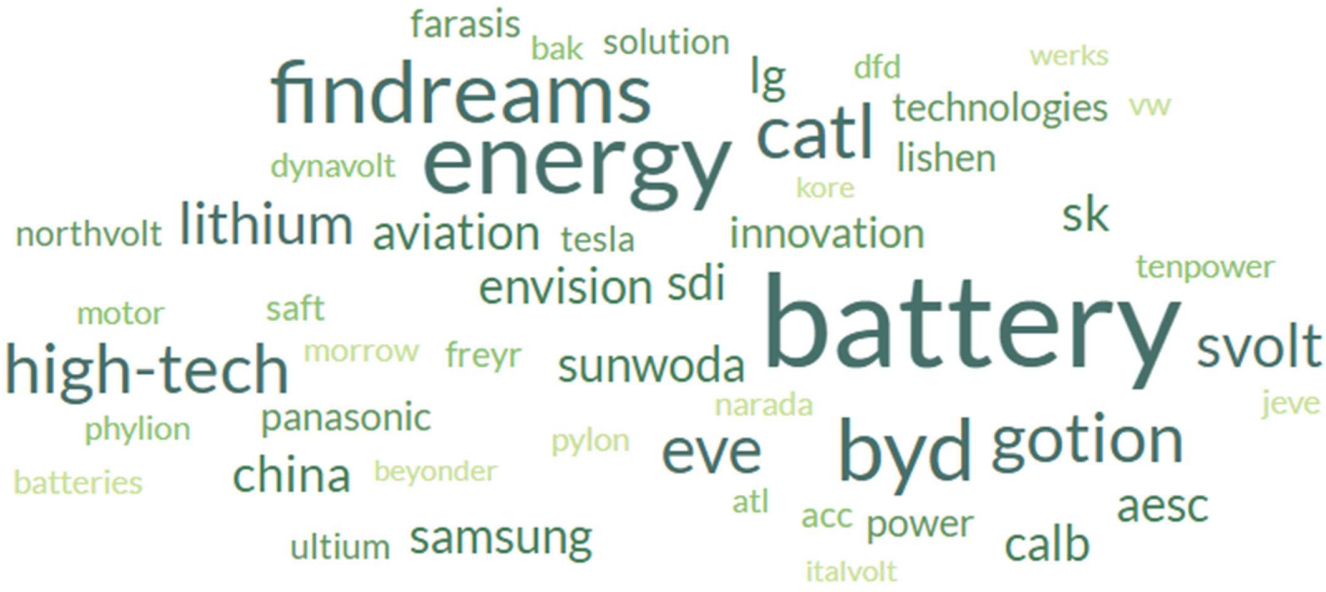

The newsletter focuses on key areas significant to battery value chain

Contents

Raw materials

1. Germany Digging for 'White Gold' in the Ore Mountains"

Germany is exploring sizeable lithium deposits hidden beneath the Ore Mountains, a region steeped in centuries of mining legacy—earning lithium the nickname "white gold." Preliminary drilling suggests the presence of vast lithium reserves, driving renewed interest in domestic sourcing amid surging demand. European energy strategies increasingly prioritize local supply for battery production and decarbonization. Environmental compatibility and sustainability are vital as the project develops. Germany is positioning itself to reduce reliance on imported lithium. The initiative entails innovative mining techniques designed for minimal landscape impact. If successful, it could anchor Europe's battery ecosystem for decades. The project underscores Germany's broader push toward renewable energy autonomy. Local communities and stakeholders are closely watching and engaged in the discussion.

2. E3 Lithium's Clearwater Demo Facility Enters Phase 1 Commissioning

E3 Lithium has begun commissioning Phase 1 of its Clearwater Demonstration Facility in Alberta, marking a milestone in its Direct Lithium Extraction (DLE) program. The core components, including a 30-column DLE system and purification units, are now active and designed to produce high-quality lithium chloride for conversion into battery-grade lithium carbonate. Initial brine has already been introduced into the DLE system, launching live operations. The commissioning of the DLE system is expected to wrap up within a week, after which the purification units will be activated. Once both are online, the facility will transition into full operations. Stored brine will support continuous Phase 1 operations into early Q4 2025. The project aims to demonstrate an optimized process before moving to Phase 2 later this fall. CEO Chris Doornbos highlighted this phase as a critical step toward scaling the technology. The facility is designed to showcase a faster and more sustainable alternative to traditional lithium mining. This development positions E3 Lithium at the forefront of North America's clean energy supply chain.

https://e3lithium.ca/newsroom/news-releases/e3-lithium-begins-commissioning-the--clearwater-project-demonstration-facility

3. Ascend Elements Achieves U.S. First: Over 99% Pure Recycled Lithium Carbonate

Ascend Elements has achieved a major breakthrough by producing more than 99% pure recycled lithium carbonate from used lithium-ion batteries at commercial scale in the U.S. This milestone was reached at its Covington, Georgia facility using a 3,000 metric-tons-per-year recovery line. The company plans to expand production to over 15,000 metric tons annually across the U.S. and Europe by 2027. Currently, the U.S. and Europe rely heavily on imported lithium carbonate, mainly from South America and China. By recycling domestically, Ascend aims to boost supply chain security and reduce dependence on imports. The process also delivers significant environmental benefits, cutting CO_2 emissions by up to 86% and fine particulate emissions by up to 97% compared to traditional mining. Black mass, the faeedstock from used batteries, has lithium concentrations nearly ten times higher than Chilean brine pools, making it an efficient resource. This achievement highlights the potential of recycling in meeting surging demand for battery materials. CEO Linh Austin emphasized that it supports electrification, localization, and critical mineral independence. The development marks a turning point in creating a sustainable and secure lithium supply chain in North America and Europe.

https://ascendelements.com/ascend-elements-produces-recycled-lithium-carbonate/

4. KoBold Secures Seven Exploration Permits in the DRC's Lithium-Rich Manono Region

US-based exploration firm KoBold Metals has been granted seven exploration permits in the Democratic Republic of Congo (DRC), covering lithium and other strategic minerals in the southeastern Manono and Malemba Nkulu regions. These permits, held entirely by KoBold through its subsidiary KoBold Exploration DRC, span lithium, coltan, rare earths, tin, and gold. They significantly deepen KoBold's engagement in Manono, one of the world's largest undeveloped lithium deposits, estimated to contain 400 to 669 million tonnes of lithium ore—potentially enough to support between 500 million and 1 billion electric vehicle batteries. Earlier this year, KoBold signed a non-binding agreement to acquire AVZ's stake in the Manono project—a move aimed at reducing Western dependence on Chinese-controlled mineral supply. AVZ, meanwhile, has asserted ownership of at least 70% of the project via Dathcom and is seeking legal confirmation of additional rights. The new KoBold

permits add complexity to an already contentious ownership landscape, with unresolved boundary overlaps and still-unofficial approvals. This situation highlights broader concerns about transparency and governance in the DRC's mining sector. As Western companies intensify their scramble for critical minerals, these developments underscore shifting geopolitical stakes and intensified competition for strategic supplies.

https://www.argusmedia.com/pages/NewsBody.aspx?id=2726894&menu=yes

5. Kodal Minerals Clears Export Permit for Bougouni Spodumene – First Mali Lithium Exports Imminent

Kodal Minerals has received government approval to export 125,000 tonnes of spodumene concentrate from its Bougouni Lithium Project in southern Mali. The permit, signed by Mali's Minister of Mines, marks a key step for the country's entry into the global lithium supply chain. Under local-content rules, Malian logistics companies will handle transport. Pricing will be based on the Shanghai Metals Market, with Mali retaining rights to verify or adjust if required. Kodal has already secured a transport route through Côte d'Ivoire's port for overseas shipment. All taxes, duties, and levies will be paid in accordance with Malian regulations. CEO Bernard Aylward called the approval a critical milestone reflecting government support for the project. Final administrative steps are now underway before truck mobilization begins. The first shipments are expected soon, positioning Bougouni for transition into full production. This development signals Mali's emergence as a new player in global lithium exports.

https://www.mining-technology.com/news/kodal-minerals-bougouni-lithium-export/

6. Vulcan Energy Locks Exclusive NESI Partnership to Propel Europe's First Climate-Neutral Lithium Operation

Vulcan Energy has finalized an exclusive supply and technology agreement with Canadian firm NORAM Electrolysis Systems (NESI) for its Phase One Lionheart Project, a cornerstone move expected to unlock project financing and kickstart construction. NESI will serve as the sole technology provider for the Central Lithium Plant (CLP), located in Frankfurt's Höchst Industrial Park, covering everything from process design and equipment procurement to commissioning support. The agreement builds on the successful energisation of Vulcan's pilot Electrolysis Optimisation Plant (CLEOP) in late 2024 and follows groundwork engineering and pre-purchase arrangements. NESI's technology includes advanced NORSCAND® electrolysers with Swedish-sourced electrodes, enabling green-powered, cost-effective production of high-purity lithium hydroxide for the European EV battery market. The deal aligns with a recent Germany-Canada declaration aimed at strengthening critical minerals supply chains. Vulcan is now poised to secure additional contracts, finalize project financing, and commence construction in the second half of 2025. This partnership marks a pivotal step toward delivering Europe's first climate-neutral lithium operation.

https://api.investi.com.au/api/announcements/vul/7699131d-1cf.pdf

7. Ioneer Stock Soars on Boosted Rhyolite Ridge Economics

Ioneer's share price jumped 17.2% after releasing upgraded economics for its Rhyolite Ridge lithium-boron project in Nevada. The updated mine plan shows a 38% increase in unlevered pre-tax net present value to A$1.89 billion and a 45% rise in internal rate of return to 16.8%. Lithium hydroxide production is now projected to increase by 20%, reaching 25,500 tonnes annually from years 3 to 25. Boric acid output is also set to rise 9%, averaging 126,700 tonnes per year. The project remains one of the world's lowest-cost lithium producers, with all-in sustaining costs of just US $5,626 per tonne of lithium carbonate equivalent. Analysts note that the stronger economics make Rhyolite Ridge far more appealing to investors and strategic partners. Investor sentiment was already building, with earlier updates pushing shares up 4% in anticipation of positive results. These new figures have further boosted confidence in Ioneer's long-term growth. The project is now positioned as a highly profitable and strategic U.S. critical minerals asset. Rising global demand for lithium and boron makes Rhyolite Ridge a cornerstone of future supply chains.

https://coinspectator.com/mainstream/2025/09/05/ioneer-rallies-on-upgraded-assessment-of-nevada-lithium-boron-project/

8. Patriot Files NI 43-101 Technical Report for Shaakichiuwaanaan Resource in Québec

Patriot Battery Metals has filed its NI 43-101 technical report for the Shaakichiuwaanaan project in Québec's James Bay region, effective June 20, 2025. The report, prepared by independent consultants BBA Inc. and Primero Group Americas, follows the company's disclosure of a major pollucite-hosted cesium pegmatite resource in July. Earlier in May, Patriot had released an updated mineral resource estimate for its CV5 and CV13 spodumene pegmatites, but that update did not trigger a formal NI 43-101 filing. The July update, however, introduced a maiden cesium resource at the Rigel and Vega zones, which was deemed material and required submission. This marks Shaakichiuwaanaan as a rare dual-metal project containing both lithium and cesium resources. The filing ensures transparency and compliance under Canadian securities regulations. It provides stakeholders with detailed, independently verified data on the project's resource base. The project is now positioned as a strategic critical-minerals asset in Québec. The NI 43-101 report also sets the stage for feasibility studies and development milestones. This step strengthens Patriot's role in advancing North America's battery materials supply chain.

https://patriotbatterymetals.com/patriot-files-ni-43-101-technical-report-on-the-shaakichiuwaanaan-mineral-resource-estimate-quebec-canada/

9. Piedmont & Sayona Merge to Create Elevra Lithium—North America's Hard-Rock Lithium Powerhouse

Piedmont Lithium and Sayona Mining have completed their all-stock merger, creating a new company called Elevra Lithium. The merger was finalized on August 29, 2025, following shareholder approval and satisfaction of all closing conditions. Piedmont's common stock and CDIs have now been delisted from Nasdaq and the ASX, with shareholders receiving Elevra shares on agreed exchange ratios. Ownership of the new entity is split roughly 50:50 between former Piedmont and Sayona investors. Elevra brings together a globally significant portfolio of hard-rock lithium projects across North America and beyond. The company aims to become a leading supplier for the electric vehicle and energy storage industries. The merger simplifies corporate structures while boosting operational scale and efficiency. It also strengthens Elevra's ability to advance development projects and secure long-term supply agreements. Leadership restructuring is underway to align with the new corporate identity. This marks a milestone consolidation in the lithium sector, enhancing supply chain resilience for the clean energy transition.

https://www.piedmontlithium.com/piedmont-lithium-announces-completion-of-merger-with-sayona-mining/

EV and Batteries

10. TDK Opens $340 Million Li-Ion Battery Plant in Haryana, Boosting India's Self-Reliance

TDK Corporation has inaugurated a $340 million lithium-ion battery manufacturing plant in Sohna, Haryana, India. The facility is designed to produce about 200 million battery packs annually, meeting nearly 40% of India's domestic demand. These batteries will support a wide range of consumer electronics, including smartphones, wearables, hearables, and laptops. Built under India's Electronics Manufacturing Cluster Scheme, the project aligns with the government's push to strengthen local supply chains. The plant is expected to generate around 5,000 direct jobs, with workforce training programs already underway. Union Minister Ashwini Vaishnaw highlighted the project as a step forward for "Atmanirbhar Bharat" by reducing reliance on imports. TDK, a key global supplier to major tech brands, plans to begin small-scale production in Q4 2025 before scaling up. The facility will help integrate battery production into India's broader electronics and EV ecosystem. Expansion potential has been built into the plant to match growing domestic and global demand. This milestone marks a major boost to India's ambitions of becoming a global hub for battery and clean-energy manufacturing.

https://evertiq.com/news/2025-09-05-tdks-340-million-li-ion-battery-plant-inaugurated-in-india

11. HiTHIUM Surpasses 100 GWh in Shipments, Accelerates Long-Duration Storage Growth

HiTHIUM Energy Storage has crossed the milestone of 100 GWh in cumulative shipments as of August 22, 2025, marking a rapid rise in the global battery market. Since beginning deliveries in late 2021, the company has advanced from 5th in global rankings in 2023, to 3rd in 2024, and into the Top 2 in the first half of 2025. This achievement reflects its focused strategy of specializing solely in energy storage solutions. HiTHIUM has introduced innovations such as its ∞Cell 1175 Ah and ∞Power 6.25 MWh BESS, designed for long-duration storage and now nearing mass production. Its manufacturing is supported by AI-driven quality control, low defect rates, and full-process traceability to ensure reliability. In 2025, HiTHIUM conducted the world's first open-door fire test on its ∞Block 5 MWh BESS, proving safety under extreme conditions. The company has

distinguished itself by delivering both technical excellence and operational safety. The 100 GWh milestone highlights HiTHIUM's capacity to compete with the largest global players. Rather than an endpoint, this benchmark serves as a launchpad for expanding leadership in long-duration storage. HiTHIUM aims to accelerate the worldwide transition to clean, green energy.

https://www.hithium.com/newsroom/latest/details/77.html

12. CATL Unveils 9 MWh TENER Stack at Smarter E South America to Accelerate Energy Storage in LATAM

CATL made its debut at Smarter E South America 2025 in São Paulo by unveiling the TENER Stack, the world's first 9 MWh stackable energy storage system, purpose-built for South America's diverse and demanding environment. The modular system offers groundbreaking efficiency—occupying 45% less land and delivering 50% higher energy density than standard 20-foot containers—while significantly reducing transport costs and deployment complexity. Designed to endure high temperatures or deliver up to five years of zero degradation, TENER Stack merges adaptability with long-term resilience. At its core, the technology uses LFP cells enhanced with advanced safety features, including sensitive gas sensors and multiple protective layers. Its lighter "two-in-one" form factor (under 36 tonnes) ensures it remains compliant with 99% of global transport restrictions. CATL highlighted Brazil's renewable-energy growth potential and reaffirmed its regional commitment by announcing the opening of a new South America office in Chile. The launch not only strengthens CATL's presence in LATAM but signifies a leap forward in deploying ultra-large capacity, safe, and efficient energy storage tailored to local grids and terrains.

Consultant

13. LG Energy Solution Accelerates U.S. Expansion with LFP Battery Rollout for Energy Storage

LG Energy Solution has begun mass production of lithium iron phosphate (LFP) batteries for energy storage systems at its Holland, Michigan plant as of June 2025. This makes it the first major global battery maker to manufacture LFP ESS batteries at scale in the U.S. The company strategically pivoted from EV battery lines to ESS production in response to slowing electric vehicle demand and favorable subsidies. The Michigan facility has an annual production capacity of up to 16.5 GWh, designed to deliver high safety, cost efficiency, and strong energy performance. LG's U.S. subsidiary, LG Energy Solution Vertech, will provide end-to-end ESS services including supply, installation, design, monitoring, and predictive maintenance. The rollout strengthens domestic supply chains and reduces reliance on imports while mitigating tariff-related risks. LG is currently the only supplier of LFP ESS cells manufactured in the U.S. With this advantage, the company plans to expand its North American ESS capacity from 17 GWh in 2025 to over 30 GWh in 2026. This move highlights LG's commitment to the growing U.S. energy storage market. It also positions the company as a key enabler of clean energy transition and grid stability.

Consultant

14. LG Energy Solution Signs MOU to Supply 1 GWh Batteries to Vietnam's Kim Long Motors

LG Energy Solution has signed a Memorandum of Understanding (MOU) with Vietnamese automaker Kim Long Motors to supply approximately 1 GWh of cylindrical battery cells. These are expected to be deployed for electric bus applications, leveraging the higher output and capacity of LG's advanced 46-series cells. Kim Long Motors plans to assemble the complete battery packs in a newly constructed facility in Hue, central Vietnam, slated to begin operations in early 2026. The plant will feature an automated, high-speed production line within Kim Long's industrial park. This collaboration bolsters LG's presence in Southeast Asia while supporting Vietnam's transition to clean energy mobility. Kim Long sees the partnership as a means to secure reliable, high-quality batteries and boost the competitiveness of Vietnamese-made EVs. The project aligns with national goals to scale up electric mobility and clean energy manufacturing. It also accelerates the localization of critical EV components through domestic assembly. The agreement underlines a strategic shift toward integrating global technology with regional manufacturing strength. Ultimately, it represents a key milestone in embedding Vietnam deeper into the global EV supply chain.

Consultant

15. PowerCo Awards Key Construction Contracts for St. Thomas Gigafactory in Ontario

PowerCo Canada has advanced its $7 billion St. Thomas, Ontario gigafactory by awarding major construction contracts. Steelcon Group of Companies will handle the structural steel work for the first cell production building. Magil Construction Canada Inc. will manage foundation work for three buildings, one of the largest foundation packages in Southwestern Ontario. The scope includes over 32,500 cubic meters of concrete and 500,000 square feet of formwork. Steelcon will deploy more than 500 skilled Canadian fabricators, including over 30 from the London and Southwestern Ontario region. Magil's work will cover about 850,000 square feet in total. These contracts emphasize strong local participation and job creation. CEO Frank Blome called the milestone pivotal for Canada's role in the global EV battery supply chain. Recruitment of hundreds of workers is already underway to support construction and operations. Once completed, the gigafactory will create thousands of direct and indirect jobs. This marks a significant step in Canada's emergence as a hub for EV and clean-energy manufacturing.

https://powerco.de/en/news/press-release-08-21-2025.html

16. Toyota to Build Its First European-Made BEV with €680M Czech Investment

Toyota Motor Europe will produce its first battery electric vehicle (BEV) at its Kolín plant in the Czech Republic, marking a major milestone for the automaker in Europe. The company is committing approximately €680 million to expand production facilities, including a dedicated battery assembly, paint, and welding shop. The Czech government will support the project with up to €64 million. The expansion will increase the factory's footprint from 152,000 to 173,000 square meters, accommodating new BEV production and infrastructure upgrades. The move is expected to create around 245 additional jobs at the plant, which currently employs about 3,200 people. The facility currently builds the Aygo X and Yaris Hybrid models. Toyota's decision underscores its multi-pathway strategy toward achieving carbon neutrality in Europe by 2040. The investment also reinforces Slovakia's ambitions to modernize its auto-industry and maintain strong domestic vehicle production. While Toyota has launched nine fully electric models in Europe between 2025 and 2026, this will be the first BEV actually manufactured on the continent. The announcement reflects growing alignment of industrial strategy and clean-mobility goals within the region.

17. Electrovaya Delivers Custom 1.5 kWh Battery Modules to Major Japanese Construction OEM

Electrovaya has successfully shipped its first custom-designed battery modules to a global construction equipment OEM headquartered in Japan, produced at its Canadian facility. The 1.5 kWh modules utilize a newly developed 51 Ah NMC cell format, incorporating Electrovaya's proprietary Infinity technologies for enhanced safety and longer cycle life. These modules passed rigorous third-party UN38.3 certification by TÜV SÜD, ensuring proven transport safety and reliability. The company plans to equip its Jamestown, New York manufacturing facility to produce both the new 51 Ah cells and its existing 54 Ah format to meet diverse customer needs. Expansion through this delivery is expected via the Japanese market, with sales facilitated in part by Sumitomo Corporation Power and Mobility. This marks a strategic milestone for Electrovaya, reinforcing its leadership in industrial and heavy-duty vehicle battery applications. The tailored solution underscores the company's capability in high-safety, heavy-duty battery technology tailored to OEM specifications. Electrovaya's CEO highlighted the shipment as a significant step toward global market expansion and increased demand. Continued growth is anticipated as electrification efforts ramp up in construction and earthmoving sectors. This development advances Electrovaya's position in the industrial battery landscape.

https://electrovaya.com/press/electrovaya-delivers-newly-developed-custom-battery-modules-to-global-japanese-headquartered-construction-equipment-oem/

18. LG Energy Solution Secures Massive ~$10.8 B Deal to Supply 107 GWh of EV Batteries to Mercedes-Benz

LG Energy Solution has signed two landmark long-term battery supply agreements with Mercedes-Benz and its affiliate, marking one of the largest EV battery contracts to date. The combined deal comprises a total of 107 GWh—32 GWh for Europe (2028–2035) and 75 GWh for the U.S. (2029–2037). Industry analysts estimate the agreement's value at around ₩15 trillion (roughly US $10.8–11 billion). Deliveries will feature LG's next-generation 46-series cylindrical batteries, designed for higher energy and power output and improved space efficiency. The battery volume under this agreement is sufficient to power approximately 1.5 million Mercedes-Benz electric vehicles. This new deal builds on a previous supply agreement signed in October 2024 for 50.5 GWh and solidifies LG's strategic role in Mercedes' global electrification roadmap. The move also underscores LG's growing competitive edge over other suppliers, particularly Chinese firms, by emphasizing technology, reliability, and safety. With growing commitments from premium automakers, LG Energy Solution is positioning itself as a dominant Western battery partner in the evolving EV industry.

19. Altilium & JLR Showcase UK's First EV Battery Cells Made from Recycled Materials

Altilium and Jaguar Land Rover (JLR) have demonstrated the UK's first EV battery cells made using recycled cathode and anode materials at Cenex Expo 2025. The automotive-grade NMC 811 multilayer pouch cells use cathode active material recovered through Altilium's EcoCathode™ process. These materials already meet future EU 2036 recycled-content targets, including 26% cobalt, 12% lithium, and 15% nickel. Early tests show the cells perform on par with those made from virgin materials. A life-cycle assessment revealed that using 100% recycled CAM cuts greenhouse gas emissions by 32%, particulate matter by 30%, freshwater ecotoxicity by 58%, and mineral resource impact by 38%. JLR is conducting a full validation phase at its advanced battery testing facilities. The showcase also included single-layer pouch cells made entirely from recycled cathode and graphite anode materials, proving full circularity is achievable. A VR model of a Jaguar I-PACE battery pack demonstrated integration of these recycled cells. Altilium's CEO called the achievement a milestone in combining sustainability with high performance. The project forms part of the UK's ARMD 3 programme to build a resilient, low-carbon domestic battery supply chain.

https://altilium.tech/2025/09/03/altilium-and-jlr-to-demonstrate-uks-first-ev-battery-cells-made-from-recovered-materials-at-cenex-expo/

20. Ashok Leyland Commits ₹5,000 Crore to Build India's Battery Ecosystem

Ashok Leyland has announced an investment of over ₹5,000 crore (about US $571 million) over the next 7–10 years to develop and manufacture advanced batteries in India. The company has formed an exclusive partnership with China's CALB Group to localize battery production for both automotive and energy storage sectors. This initiative will directly support Ashok Leyland's EV brand Switch, while also supplying other vehicle makers and ESS providers. A Global Centre of Excellence will be established to focus on innovation in battery materials, recycling, battery management systems, and advanced manufacturing. The investment aligns with India's broader sustainability goals and efforts to strengthen its green economy. By localizing production, the company aims to reduce dependence on imported batteries. It also positions Ashok Leyland as a major player in India's growing EV ecosystem. The move is expected to create significant employment opportunities and spur domestic innovation. It will also help develop a circular supply chain through recycling and reuse. Overall, this marks a strategic leap for India's electrification and self-reliance in critical battery technologies.

21. Ultion Achieves North America's First Fully Domestic LFP B attery Cells with High Discharge Performance

Ultion Technologies has manufactured the first lithium-iron-phosphate (LFP) battery cells made entirely from North American-sourced materials, marking a milestone in regional energy independence. Developed with First Phosphate, the cells were designed, assembled, and tested in Nevada. The cylindrical 18650-format cells delivered a stable 1.6 Ah capacity, strong consistency across units, and a projected cycle life of more than 2,000 cycles at 80% retention. They also sustained a 5C discharge rate—ten times higher than typical LFP cells—making them ideal for grid storage, data centers, and defense systems. With over 90% of LFP production concentrated in China, this achievement demonstrates North America's ability to compete globally. Torus, a Utah-based storage provider, has already committed to using these cells in its systems. Ultion's approach ensures a fully domestic supply chain, from mined materials to finished cells. CEO Johnnie Stoker emphasized that this validates North America's capability to deliver world-class battery technology. The breakthrough strengthens U.S. energy security while supporting high-quality local jobs. It also signals a critical step in building a resilient domestic battery ecosystem.

22. Seoul Condemns U.S. Immigration Raid at Hyundai–LG Battery Plant

South Korea voiced strong regret after a large-scale U.S. immigration raid at a Hyundai–LG battery plant under construction in Georgia, where more than 475 workers, including over 300 South Koreans, were detained. Graphic footage showing detained workers in shackles has fueled outrage and heightened diplomatic tensions. The raid took place just weeks after a summit aimed at strengthening U.S.–Korea ties, deepening concerns over trust between the allies. South Korea's Vice Foreign Minister urged Washington to resolve the issue fairly and swiftly. A chartered flight was arranged to repatriate those detained, following diplomatic intervention. Hyundai said it would audit its contractors to ensure compliance, while LG suspended most U.S. travel and sent teams to support staff. The incident has been described as the largest single-site enforcement in U.S. Homeland Security's history. Analysts warn it could chill South Korean investment in U.S. manufacturing

projects. Korean officials are considering high-level visits to Washington to ease tensions. The episode underscores the fragile balance between economic cooperation and immigration enforcement in bilateral relations.

Consultant

Salt and Electrolyte

23. BASF Extends Long-Term Supply Agreement for CAM Production at Schwarzheide

BASF Battery Materials has renewed its long-term supply agreement for cathode active materials (CAM) produced at its Schwarzheide plant in Germany. The move underscores strong customer confidence in BASF's advanced CAM technology and high-quality production standards. The Schwarzheide site is unique as Germany's only high-performance CAM production facility and the only fully automated, large-scale CAM plant in Europe. This renewal ensures a secure supply chain for European customers while reinforcing BASF's role in regional battery material manufacturing. It also strengthens Europe's strategic autonomy in critical raw materials for EVs and energy storage. Alongside its global partnerships, BASF is pursuing a balanced strategy of consolidating European operations while expanding internationally. The agreement highlights the company's commitment to supporting the fast-growing EV and energy storage industries. It also reflects BASF's contribution to Europe's clean energy transition. By extending this supply contract, BASF positions itself as a reliable partner for long-term growth in sustainable mobility. This milestone demonstrates the company's focus on resilience, innovation, and regional value creation.

LFP-ESS and Start ups

24. CVC DIF Acquires Gabriela Phase of Oasis de Atacama: 272 MW Solar + 1.1 GWh Battery Storage Deal

CVC DIF, the infrastructure unit of global asset manager CVC, has agreed to acquire the Gabriela phase of Grenergy's Oasis de Atacama solar-plus-storage megaproject in northern Chile. The deal encompasses 272 MW of solar photovoltaics paired with 1.1 GWh of battery energy storage, currently under construction. Backed by a 15-year, USD-denominated, inflation-indexed hybrid power purchase agreement, the transaction underscores growing investor confidence in Chile's renewable energy and storage sector. Although the financial terms aren't publicly disclosed in detail, it's understood the acquisition includes earn-out provisions. Grenergy will remain involved by providing operations and maintenance services for five years post-operational launch. Commercial operation is expected in the first half of 2026. This move marks a strategic win for CVC DIF, which already manages over 7 GW of renewable energy assets. The Gabriela phase represents one-tenth of the Oasis de Atacama platform, which totals 2 GW solar and 11 GWh storage capacity. Industry analysts view the acquisition as further validation of the Chilean market's robust regulatory framework for energy storage investments.

https://www.cvcdif.com/news-insights/cvc-dif-to-acquire-a-large-scale-hybrid-solar-pv-and-battery-storage-project-in-chile

25. Canadian Solar Launches 8.36 MWh FlexBank 1.0 Modular Energy Storage System

Canadian Solar's e-STORAGE division has unveiled its FlexBank 1.0, a next-generation utility-scale battery system with 8.36 MWh capacity per unit, slated for deployment in 2026. The system uses a modular open-frame design, allowing each cabinet to function as a standalone building block for easier transport, installation, and flexible layouts. Powered by 314 Ah lithium-iron-phosphate (LFP) cells, it is also future-ready to integrate larger-format, higher-amperage cells. Safety features include heat barriers, three-level electrical protection, and cell-level monitoring, with inter-cabinet designs to prevent thermal propagation. Its skid-mounted structure enables quick onsite assembly, reducing EPC costs and improving energy density. FlexBank 1.0 can be configured as 4 MW for 2 hours or 2 MW for 4 hours, with round-trip efficiencies of 93–94%. It integrates smoothly with existing power conversion systems, making it suitable for both new builds and system expansions. The system is one of the market's densest battery solutions, second only to CATL's 9 MWh stack. With high safety, adaptability, and cost-efficiency, FlexBank 1.0 is positioned to accelerate renewable energy adoption. The official launch will take place at the RE+ 2025 conference in Las Vegas this September.

https://csestorage.com/e-storage-launches-flexbank-1-0-an-8-36-mwh-energy-storage-modular-battery/

26. SK On Lands First Gigawatt-Scale U.S. ESS Contract, Expands into Energy Storage Market

South Korea's SK On has secured its first gigawatt-scale contract in the U.S. energy storage systems (ESS) market by signing an agreement with Flatiron Energy Development to supply lithium iron phosphate (LFP) batteries. The deal involves up to 7.2 GWh of ESS battery capacity to be delivered between 2026 and 2030. The initial phase of the agreement includes supplying 1 GWh of containerized LFP units for a project in Massachusetts, with production due to start in the second half of 2026. To support this, SK On plans to convert part of its Georgia-based EV battery production lines for ESS-dedicated manufacturing. The company's expansion aims to diversify its portfolio amid slowing demand in the electric vehicle segment and reflects a broader industry trend of pivoting towards energy storage solutions. While financial terms were not disclosed, industry estimates value the agreement at approximately ₩2 trillion (around US$1.4–1.5 billion). SK On's move strengthens its footprint in the U.S. market and underscores its strategy for long-term sustainable growth in the clean energy sector.

27. HD Hyundai Electric Lands $100 Million Battery Storage EPC Deal in Texas

HD Hyundai Electric has inked a significant $100.5 million engineering, procurement, and construction (EPC) contract for a 200 MWh battery energy storage system (BESS) project in Runnels County, Texas. This "Rutile BESS Project" represents the company's formal entry into the North American energy storage market. The battery installation will capture surplus power and redistribute it across Texas when demand surges, aiding grid stability and managing renewable energy variability. Construction is slated to commence in Q3 2025, with completion targeted by Q3 2027. Industry analysts highlight the growing BESS market, with global capacity projected to surge from $25 billion in 2024 to $114 billion by 2032. HD Hyundai Electric is partnering with Korea Southern Power, Alpha Asset Management, and KBI Group to drive the project. Earlier this year, the company established a Texas-based subsidiary to better manage its expansion into the U.S. BESS sector. CEO Kim Young-ki stressed that this milestone launch positions HD Hyundai as a serious contender in the global energy storage arena and aspires to lead across North America and Europe. This move signals the company's strategic pivot into high-demand, sustainable infrastructure.