

Contents

Raw materials	3
1. Namibia Approves Xinfeng's Lithium Export Amid Ongoing Probe	3
2. Chevron Enters U.S. Lithium Market with Major Land Acquisition	3
3. Serbia's Jadar Valley Lithium Mine Divides EU Ambitions and Local Resistance	3
4. Rock Tech and Ronbay Partner to Localize Europe's Battery Material Supply Chain	3
5. Halliburton to Develop GeoFrame's Lithium-Geothermal Wells in Texas	4
6. EV Metals' Lithium Chemical Plant in Saudi Arabia Wins Special Recognition	4
7. CATL Accelerates European & Australian Expansion with Battery-Swap & Manufacturing Plans	4
8. POSCO to Build Lithium Brine Pilot Plant in the U.S. with Anson Resources	5
9. Codelco Secures Lithium Quota for Landmark SQM Partnership	5
10. American Battery Technology's Nevada Lithium Project Gains Federal Fast-Track Status	5
EV's and Batteries	5
11. Peregrine Energy Storage Project Powers 200,000 Homes and Prevents Blackouts	5
12. Scania Steps In to Save Northvolt Labs Amid Insolvency	6
13. CATL Launches Advanced CTP 2.0 Battery Lines at Seres Super Factory	6
14. Construction Begins on UK's Largest EV Battery Factory in Somerset	6
15. Neuron Energy Launches Gen 2 Lithium-Ion Battery Packs in India	6
16. Lyten Acquires Northvolt's Polish Factory to Build Lithium-Sulfur Energy Storage	7
17. ProLogium Surpasses 2.4 Million Lithium-Ceramic Battery Shipments	7
18. Indonesia-China Lithium Battery Plant to Begin Operations by End-2026	7
LFP-ESS and Start ups	8
19. Major 300 MW/1.8 GWh Energy Storage Project by Yongzhen in Inner Mongolia	8
20. Envision Energy Enters French Energy Storage Market with 120 MW / 240 MWh Project	8
21. Arevon Launches 200 MW/400 MWh Peregrine Battery Storage Project in San Diego	8
22. Construction Begins on 200 MW/800 MWh Solid-State BESS in Wuhai, Inner Mongolia	8
23. LG Energy Solution and Tesla Expand LFP Battery Manufacturing in the U.S.	9
24. Ganfeng Lithium Kicks Off 12 GWh Energy Storage PACK Project in Jiangxi	9
Technology and Regulatory	9
25. Aquatech Unveils PEARL™ Platform for End-to-End Lithium Processing	9
LFP Startups.....	10
26. LG Energy Solution Expands LFP Battery Production for Energy Storage in Michigan	10

Raw materials

1. Namibia Approves Xinfeng's Lithium Export Amid Ongoing Probe

The Namibian government has permitted Chinese-owned Xinfeng Investments to export 16,000 tonnes of lithium concentrate from its Uis site, despite an active investigation into the company's illegal mining activities. The clearance comes after a November 2024 shutdown when Xinfeng was found extracting lithium without proper permits on EPL 8397. Trucks have resumed ore transport to Walvis Bay, while Director Xie Yiming admitted the company had overstepped its exploration rights. Investigations revealed that mining operations had continued unlawfully since 2023, and ore was relocated even after being ordered to stop. The initial shutdown affected 180 workers and triggered public outrage over desecrated ancestral graves. Mines Minister Tom Alweendo's successor, Johannes Ithete, has now granted conditional approval—requiring local managers, compensation for grave sites, improved worker housing, and fencing of disputed areas. Xinfeng also committed to social investments, including a clinic and wage increases. Minister Ithete emphasized the export only applies to legally obtained material and would not hinder the ongoing investigation.

<https://neweralive.na/xinfeng-gets-greenlight-for-lithium-exports/>

2. Chevron Enters U.S. Lithium Market with Major Land Acquisition

Chevron U.S.A. has made a significant move into the domestic lithium market by acquiring approximately 125,000 acres across Northeast Texas and Southwest Arkansas. This land sits atop the lithium-rich Smackover Formation, where the company plans to extract lithium from underground brine using advanced direct lithium extraction (DLE) technology. The acquisition, made through agreements with TerraVolta Resources and East Texas Natural Resources, marks Chevron's first step toward building a commercial-scale lithium operation in the United States. With lithium demand projected to surge over 400% by 2040, the company aims to bolster the U.S. critical mineral supply chain, particularly for electric vehicle batteries and grid storage. Jeff Gustavson, President of Chevron New Energies, emphasized that the move aligns with U.S. energy security goals. Chevron joins other energy giants like ExxonMobil in targeting domestic lithium production, leveraging its experience in drilling and brine management. While financial terms remain undisclosed, the deal signals a growing commitment from traditional energy players to support the transition to cleaner energy sources.

<https://www.chevron.com/newsroom/2025/q2/chevron-enters-domestic-lithium-sector-to-support-us-energy-security>

3. Serbia's Jadar Valley Lithium Mine Divides EU Ambitions and Local Resistance

A newly released TRT World report highlights the contested Jadar Valley lithium project in western Serbia, which promises vast reserves vital to Europe's shift to electric vehicles. Spearheaded by Rio Tinto, the mine could supply up to 90% of the EU's lithium needs—but not without fallout. Recycling halted in 2022 amid mass protests that sparked environmental, social, and political alarm. Though the Serbian Constitutional Court reinstated licences and the EU designated it a strategic critical-mineral project in 2024, farmers, activists and nationalists continue to express deep concerns about water contamination, farmland loss, and ecosystem damage. Rio Tinto has since revised projected costs—originally €2.55 billion—to meet stricter EU environmental and human-rights standards, with operations still dependent on a field exploitation licence. With widespread opposition still evident, local groups vow further action if drilling commences. The saga underscores a broader geopolitical struggle: balancing Europe's green energy objectives with grassroots environmental rights and Serbia's geopolitical orientation between East and West.

<https://www.trtworld.com/video/news/jadar-valley-lithium-project-in-serbia-faces-controversy-18273151>

4. Rock Tech and Ronbay Partner to Localize Europe's Battery Material Supply Chain

Rock Tech Lithium Inc., a German-Canadian company, and Chinese battery materials firm Ronbay Technology have signed a strategic memorandum of understanding to develop a localized lithium-ion battery materials supply chain in Europe. Under the agreement, Rock Tech will supply battery-grade lithium hydroxide from its upcoming Guben converter plant in Germany to Ronbay's European cathode material production sites, including its new facility in Konin, Poland. The Guben facility is

expected to produce 24,000 tonnes of lithium hydroxide annually—enough for over 500,000 electric vehicles. Ronbay's Polish plant, acquired from Johnson Matthey, is projected to reach 25,000 tonnes per year capacity by 2026. As part of the deal, Ronbay will provide engineering support and explore potential investments in Rock Tech's operations to meet European sustainability standards. The collaboration aims to reduce dependence on Asian imports and strengthen Europe's domestic battery value chain. Joint efforts will also target customer acquisition and long-term market development. This move underscores the growing importance of securing critical mineral resources and refining capabilities within Europe as the electric vehicle industry expands. Binding agreements and potential joint ventures are expected to follow as the partnership evolves.

<https://rocktechlithium.com/en/ronbay-technology-and-rock-tech-lithium-sign-strategic-mou-on-extensive-local-battery-materials-partnership-in>

5. Halliburton to Develop GeoFrame's Lithium-Geothermal Wells in Texas

Halliburton has been awarded a major contract by GeoFrame Energy to design and execute lithium extraction demonstration wells in East Texas' Smackover Formation. This project aims to harness geothermal brine through Direct Lithium Extraction (DLE) technology, producing both battery-grade lithium carbonate and clean geothermal energy. Scheduled to begin in late 2025, the initiative is expected to produce enough lithium to meet current U.S. demand—approximately 83,500 tonnes annually. Halliburton will leverage its long-standing expertise in well development and advanced drilling to support this cutting-edge effort. The site will also generate surplus zero-emission electricity via binary cycle generators, feeding clean power into the local grid. GeoFrame's leadership emphasized that this project could lead U.S. efforts toward securing a domestic lithium supply chain. The integration of mineral extraction with renewable energy makes this a model for low-carbon, sustainable resource development. Halliburton sees this as a milestone opportunity to contribute to energy transition and supply security. The project marks a critical step in reducing reliance on foreign lithium and building the U.S. electric vehicle ecosystem.

<https://www.halliburton.com/en/about-us/press-release/halliburton-awarded-lithium-well-project-by-geoframe-energy>

6. EV Metals' Lithium Chemical Plant in Saudi Arabia Wins Special Recognition

EV Metals Group's Lithium Chemicals Plant (LCP) in Yanbu Industrial City, Saudi Arabia, has received a Special Recognition Award in the "Best New Project" category at the 2025 Fastmarkets Voltas Awards. The award celebrates the project's role in advancing a sustainable and strategically located battery materials supply chain aligned with Saudi Arabia's Vision 2030. Recognized for its innovation, the plant features next-generation technology to produce high-purity lithium chemicals. Initially focused on lithium hydroxide, the facility is expected to expand to lithium carbonate production, supporting global electric vehicle and energy storage markets. The project was chosen among strong international competition for its technical excellence and strategic significance. EV Metals emphasized that the award reflects its commitment to industrial transformation and green energy leadership in the Kingdom. The LCP is designed to serve as a key midstream hub in the lithium value chain. This recognition marks a major milestone in positioning Saudi Arabia as a global player in clean energy materials. The company views the achievement as a validation of its long-term sustainability vision.

<https://www.evmetalsgroup.com/newsroom/evms-lithium-chemical-plant-project-receives-special-recognition-at-fastmarkets-international-voltas-awards/>

7. CATL Accelerates European & Australian Expansion with Battery-Swap & Manufacturing Plans

CATL, the world's largest EV battery producer and Tesla supplier, is intensifying its global expansion by introducing its next-gen battery-swapping and recycling technology into Europe and Australia. With a 38% share of the EV battery market, CATL plans to deploy its "Evogo" battery swap system—capable of exchanging packs in 100 seconds and offering up to 600 km range—by building 1,000 swap stations in China this year and scaling to 10,000 over three years, then replicating the model in Europe amid discussions with major automakers. In parallel, CATL is expanding its manufacturing footprint: alongside existing plants in Germany and Hungary, the company is involved in a €4.1 billion joint venture with Stellantis to build a battery factory in Spain by late 2026. These efforts, complemented by nearly 100% recycling of core minerals and adherence to circular economy principles, aim to secure sustainable EV supply chains in Europe. Despite potential regulatory hurdles and high infrastructure costs, CATL is forging partnerships across continents and signaling its ambition to shape the global clean-energy ecosystem.

<https://thewest.com.au/business/cnbc/catl-a-chinese-based-tesla-battery-supplier-and-lithium-miner-expands-its-reach-in-europe-and-australia-c-19211476>

8. POSCO to Build Lithium Brine Pilot Plant in the U.S. with Anson Resources

POSCO Holdings has announced plans to build a lithium brine pilot plant in Green River City, Utah, in partnership with Australia's Anson Resources. This marks POSCO's first application of Direct Lithium Extraction (DLE) technology in North America. The pilot project aims to validate faster, more efficient lithium recovery from brines—reducing processing time from months to just one or two days. Unlike traditional solar evaporation, DLE can extract lithium from lower-concentration brines, improving scalability and cost-effectiveness. The initiative aligns with POSCO's strategy to expand its battery materials business under its "2 Core + New Engine" framework. The company already operates major lithium facilities in Argentina and South Korea, with a combined annual capacity to supply battery-grade lithium hydroxide for about 1.6 million electric vehicles. By launching this U.S. pilot, POSCO seeks to commercialize DLE technology and tap into growing North American lithium demand. The project also enhances regional supply chain resilience and supports global energy transition goals. POSCO aims to become a key player in the future of sustainable lithium production.

<http://wcsecure.weblink.com.au/clients/ansonresources/headline.aspx?headlineid=61270996>

9. Codelco Secures Lithium Quota for Landmark SQM Partnership

Chile's state-owned copper giant Codelco has secured a crucial lithium extraction quota from the Chilean Nuclear Energy Commission (CCHEN) as part of its joint venture with lithium producer SQM. The permit allows for the extraction of 2.5 million tonnes of lithium metal equivalent (LME) from 2031 to 2060, with a potential increase to 3.02 million tonnes pending environmental clearance. This quota could enable production of up to 330,000 tonnes of lithium carbonate equivalent (LCE) annually. CCHEN also authorized earlier extraction beginning in January 2029 to prevent operational gaps. This marks the first time state capital is directly involved in Chilean lithium production. The agreement still requires approval from Chinese regulators and consultation with Atacama indigenous communities, both expected by September. SQM's existing quota expires in 2030, making this deal critical for future supply. The partnership aligns with President Boric's push for greater state involvement in strategic minerals. Once finalized, the venture will significantly strengthen Chile's role in the global lithium market.

<https://www.codelco.com/cchen-autoriza-cuota-de-extraccion-de-litio-a-minera-tarar-de-codelco>

10. American Battery Technology's Nevada Lithium Project Gains Federal Fast-Track Status

American Battery Technology Company's Tonopah Flats Lithium Project in Nevada has been added to the U.S. Federal Permitting Dashboard as a "Transparency Priority" project. This listing enhances coordination among federal agencies and streamlines the permitting process. The move follows major federal interest, including a \$58 million Department of Energy grant and a \$900 million Letter of Interest from the Export-Import Bank. Tonopah Flats is one of the largest lithium claystone deposits in the U.S., crucial for domestic battery material supply. The company has already demonstrated pilot-scale production of battery-grade lithium hydroxide and is developing a commercial-scale refinery with a planned 30,000 tonnes per year capacity. This designation supports U.S. efforts to onshore critical mineral supply chains and reduce reliance on imports. Following the announcement, ABAT's stock surged by approximately 13%. The project's inclusion reflects its strategic role in meeting growing clean energy demands. It is also aligned with recent federal priorities to accelerate development of essential mineral resources.

<https://americanbatterytechnology.com/american-battery-technologys-nevada-lithium-project-added-to-federal-permitting-dashboard/>

EV's and Batteries

11. Peregrine Energy Storage Project Powers 200,000 Homes and Prevents Blackouts

Arevon Energy has launched the Peregrine Energy Storage Project, a 200 MW/400 MWh lithium-iron-phosphate battery system in San Diego, California. Designed to power up to 200,000 homes for two hours, it activates during peak demand or grid failures to prevent blackouts. The \$300 million facility stores excess renewable energy and delivers it when needed, supporting grid stability. It plays a vital role in integrating intermittent solar and wind power into California's energy mix. The battery's chemistry ensures safety, long life, and efficiency. The project supports the state's clean energy goals and enhances energy resilience. It also brought over 90 construction jobs and is expected to generate \$28 million in local tax revenue. This

large-scale storage project exemplifies the shift toward smarter, more reliable power systems. It marks a major milestone in U.S. renewable infrastructure. Peregrine sets the standard for future energy storage initiatives.

<https://arevonenergy.com/news/releases/arevon-commences-operations-at-its-200-megawatt-peregrine-energy-storage-project-in-san-diego/>

12. Scania Steps In to Save Northvolt Labs Amid Insolvency

Scania is moving to acquire Northvolt Labs, the flagship R&D facility in Västerås, following Northvolt's insolvency and bankruptcy filings. The lab employs over 1,100 specialists and is considered critical to Europe's battery innovation and clean-tech future. With Northvolt's battery cell production winding down, Scania aims to preserve this vital knowledge hub. CEO Christian Levin confirmed ongoing discussions with the Swedish government and European Commission to form a funding consortium, as Scania alone cannot shoulder the cost. Northvolt Labs has seen nearly \$750 million in investment and is central to next-generation battery development. The effort reflects Europe's broader push to retain technological sovereignty in energy storage. While public funding is not yet secured, Scania's earlier purchase of Northvolt's industrial unit kept operations running in Poland and Stockholm. The acquisition would protect valuable intellectual assets and jobs. A successful deal could reinforce Europe's leadership in battery R&D and secure its energy transition goals.

<https://batteriesnews.com/scania-pushes-to-save-northvolt-labs-in-vasteras-takeover/>

13. CATL Launches Advanced CTP 2.0 Battery Lines at Seres Super Factory

CATL has officially launched its CTP 2.0 battery production lines within the Seres Super Factory in Chongqing, China, on June 30. This marks CATL's first facility in the city and follows a "factory-in-factory" model, where CATL fully manages its operations inside Seres' EV manufacturing plant. The new lines are among CATL's most advanced, featuring intelligent, automated, and digitally optimized production systems. They will exclusively supply battery packs for AITO-branded vehicles, a premium EV line co-developed by Seres and Huawei. Over 700,000 AITO vehicles are already on the road. The integration allows real-time adjustments in production within 20 minutes, enhancing efficiency and delivery speed. Additionally, the factory includes a 50 MWh solar-powered microgrid, supporting clean energy operations. This partnership strengthens CATL's local footprint and deepens its strategic alliance with automakers. The launch underscores CATL's push for vertically integrated, green manufacturing in the high-end EV market.

<https://batteriesnews.com/catl-launches-ctp-2-0-battery-production-lines-at-seres-super-factory-for-aito-vehicle-manufacturing/>

14. Construction Begins on UK's Largest EV Battery Factory in Somerset

Construction has officially started on the UK's largest electric vehicle battery factory in Puriton, Somerset, led by Agratas, the battery subsidiary of Tata Group. Built on the former Royal Ordnance Factory site, the £4 billion project marks a major milestone with steel frames now rising after extensive groundwork. The facility will employ up to 500 construction workers by late 2025, scaling to 2,000 by 2026. Once operational, it is expected to create around 4,000 permanent jobs in green technology. The plant will produce up to 40 GWh of battery cells annually, beginning in 2026 and fully operational by 2027. Batteries will primarily serve Tata Motors and Jaguar Land Rover, with potential expansion into commercial vehicles and energy storage. All construction steel is sourced from UK suppliers, supporting local industry. National Grid is upgrading regional infrastructure to support the site. Located at the Gravity Smart Campus, it will meet nearly half of the UK's battery demand by 2030. The project represents a major leap forward in Britain's EV manufacturing ambitions.

<https://agratas.net/steel-frames-in-place-on-agratas-site-in-major-construction-milestone/>

15. Neuron Energy Launches Gen 2 Lithium-Ion Battery Packs in India

Neuron Energy has introduced its next-generation Gen 2 lithium-ion battery packs, tailored for electric two-wheelers, three-wheelers, and light commercial vehicles (LCVs). These new packs, engineered for Indian road conditions, feature improved thermal management, reinforced structural integrity, and enhanced vibration resistance. A smarter Battery Management System (BMS) ensures superior cell balancing, extending battery lifespan and reducing maintenance needs.

Designed for compatibility with diverse vehicle platforms, the Gen 2 series addresses key industry pain points. Commercial rollout across India is slated for July 2025. The initiative supports Neuron's goal of generating revenue exceeding ₹250 crore while targeting EV manufacturers, fleet operators, logistics firms, battery dealers, startups, and government institutions. Co-founder and CEO Pratik Kamdar highlighted that the Gen 2 launch marks a pivotal step toward reliable, intelligent, cost-efficient, and sustainable EV power solutions. Positioned as a frontrunner in India's evolving EV battery market, Neuron Energy aims to meet both current demands and future scalability needs.

<https://www.pv-magazine-india.com/press-releases/neuron-energy-unveils-gen-2-lithium-ion-battery-packs-for-2-wheelers-3-wheelers-lcvs/>

16. Lyten Acquires Northvolt's Polish Factory to Build Lithium-Sulfur Energy Storage

California-based battery innovator Lyten has acquired Northvolt's energy storage systems factory in Gdansk, Poland, marking its first large-scale manufacturing move in Europe. The 25,000 m² facility, once Europe's largest BESS plant, was inactive after Northvolt's bankruptcy earlier this year. Originally designed with a 6 GWh capacity, expandable to over 10 GWh, the site will now be repurposed for Lyten's proprietary lithium-sulfur battery technology. These batteries offer high energy density, enhanced safety, and use abundant, non-rare materials. Lyten plans to restart production swiftly to meet existing and future energy storage contracts through 2026. The acquisition includes engineering talent and helps Lyten scale without greenfield delays. This expansion supports growing European demand for stationary battery storage, especially amid clean energy transitions. Local and federal government support is expected to aid the Q3 2025 closing. The move solidifies Lyten's presence in Europe and advances sustainable battery production goals.

<https://lyten.com/2025/07/01/lyten-acquires-europes-largest-battery-energy-storage-systems-manufacturing-operation-from-northvolt/>

17. ProLogium Surpasses 2.4 Million Lithium-Ceramic Battery Shipments

ProLogium has reached a major milestone with over 2.4 million units of its next-generation lithium ceramic batteries shipped since 2013. A significant portion of this volume—more than 500,000 units—was produced in just 18 months at its Giga-scale factory in Taoyuan, Taiwan. The batteries are used across electric mobility, wearables, automotive electronics, and industrial systems. ProLogium's fully automated production lines ensure scalability, consistency, and quality. The company is now preparing to build a new Giga factory in Dunkirk, France, with operations expected to start in 2028. Its advanced solid-state battery technology features all-ceramic separators, silicon anodes, and inorganic electrolytes, offering superior safety, thermal stability, and fast-charging capabilities. ProLogium remains the only company mass-producing lithium ceramic batteries using automated processes. It holds over 900 patents and collaborates with major global OEMs. This shipment milestone highlights its leadership in green energy innovation and commercialization.

<https://prologium.com/prologiums-next-generation-lithium-ceramic-battery-shipments-surpass-2-4-million-units-a-new-milestone-in-the-commercialization-of-green-energy-technologies/>

18. Indonesia-China Lithium Battery Plant to Begin Operations by End-2026

A joint venture between Indonesia Battery Corporation and China's CATL is set to launch a 6.9 GWh lithium-ion battery plant in West Java by the end of 2026. The project is part of a larger \$6 billion investment plan initiated in 2022, encompassing nickel mining, battery manufacturing, and recycling. The facility's capacity could eventually expand to 15 GWh, and up to 40 GWh if solar storage batteries are included. Initial production will target both domestic and international markets. The plant plays a central role in Indonesia's strategy to become a major EV battery hub. Complementary nickel processing projects are also underway in North Maluku to support the battery supply chain. This venture aligns with Indonesia's goal to produce 600,000 electric vehicles annually by 2030. The facility strengthens Southeast Asia's position in the global battery market. It also supports regional clean energy and industrial development objectives.

<https://batteriesnews.com/indonesia-china-lithium-battery-plant-operational-by-end-2026-official-says/>

19. Major 300 MW/1.8 GWh Energy Storage Project by Yongzhen in Inner Mongolia

Yongzhen Co. Ltd's Baotou subsidiary is investing RMB 1.31 billion to construct a 300 MW/1.8 GWh independent grid-side energy storage plant in Kundulun District, Inner Mongolia. The facility, covering over 128,000 m², will feature advanced string-type LFP battery systems with liquid cooling and perfluorohexanone fire suppression. Construction is scheduled to begin in June 2025 and aims to connect to the grid by December 31, 2025. Strategically located near the Burhantu 500 kV substation, the plant will consist of multiple 5 MW/30 MWh units, all managed through an intelligent battery management system. This marks Yongzhen's significant move downstream from its core photovoltaic framing business into the energy storage sector. The project benefits from strong government support, including a 0.35 RMB/kWh subsidy for ten years after grid connection. It is part of Baotou's broader regional energy storage plan targeting 1,500 MW/9 GWh. Yongzhen expects the project to generate long-term revenue and play a key role in advancing regional grid stability and renewable energy integration.

<https://mp.weixin.qq.com/s/15u-RslhzkEjh0Zkzxxk6xg>

20. Envision Energy Enters French Energy Storage Market with 120 MW / 240 MWh Project

Envision Energy has secured its first standalone battery energy storage contract in France, partnering with Kallista Energy for a 120 MW/240 MWh turnkey project in Saleux, Hauts-de-France. The system will use lithium-iron-phosphate (LFP) batteries and include 44 DC units and 22 AC units, providing frequency-regulation services to France's RTE reserve market. Construction is scheduled to begin in June 2025, with commissioning expected in 2026. Envision will also provide long-term maintenance under a 14-year service agreement. Battery cells will be supplied by AESC from its new 10 GWh gigafactory in Douai, France. This marks Envision's entry into the French stationary storage sector and strengthens its European presence. The project will enhance grid flexibility by storing excess energy during low demand and discharging during peaks. It supports France's renewable integration efforts and energy transition. Both companies emphasize the importance of scalable, safe solutions to meet evolving energy needs.

<https://globalrenewablenews.com/article/energy/category/ev-storage/143/1148440/envision-energy-enters-french-energy-storage-market-as-it-is-contracted-to-provide-120-mw-240-mwh-turnkey-project-for-kallista-energy-.html>

21. Arevon Launches 200 MW/400 MWh Peregrine Battery Storage Project in San Diego

Arevon Energy has commenced commercial operations at its 200 MW/400 MWh Peregrine Energy Storage Project in the Barrio Logan neighborhood of San Diego, California. The US\$300 million lithium-iron phosphate (LFP) battery system is Arevon's fifth utility-scale storage facility in the state. At peak construction, the project supported over 90 full-time equivalent jobs and is expected to generate more than US\$28 million in property tax revenue over its lifetime. Peregrine will help stabilize the grid by storing excess electricity during low-demand periods and discharging it during peak hours, potentially powering up to 200,000 homes for two hours daily. The facility aims to mitigate blackouts and manage electricity prices more efficiently. Arevon reported a perfect safety record since 2021, with no thermal or recordable incidents. CEO Kevin Smith emphasized the importance of community and stakeholder collaboration in the project's success. This project brings Arevon's operational portfolio to over 4.7 GW across 17 states. Peregrine is a key step toward greater renewable integration and grid reliability.

<https://arevonenergy.com/news/releases/arevon-commences-operations-at-its-200-megawatt-peregrine-energy-storage-project-in-san-diego/>

22. Construction Begins on 200 MW/800 MWh Solid-State BESS in Wuhai, Inner Mongolia

A groundbreaking ceremony on June 26, 2025 marked the start of a 200 MW/800 MWh solid-state battery energy storage station in Wuhai's Low-Carbon Industrial Park, Hainan District. The project spans 100 mu (≈66,700 m²) and includes a 110 kV booster station with an integrated office building, requiring nearly RMB 700 million in investment. It features semi-solid lithium-iron-phosphate battery technology designed for a 10-year operational life. The system is engineered to charge

231 million kWh and discharge 189 million kWh annually. Eleven preparatory procedures are complete, with construction and land-use permits secured. The facility supports China's national carbon-peaking and neutrality goals, strengthening grid reliability and resilience. Upon commissioning, it will optimize power system operations and substantially enhance the stability of Wuhai's green-power utilization.

<https://news.bjx.com.cn/html/20250627/1448491.shtml>

23. LG Energy Solution and Tesla Expand LFP Battery Manufacturing in the U.S.

LG Energy Solution has inaugurated a dedicated LFP battery plant in Holland, Michigan, aimed at stationary energy storage, with an annual capacity of 16.5 GWh and a US\$1.4 billion investment. The facility utilizes pouch-type LFP cells and operates two production lines, with a third set to launch by the end of the year. LG emphasizes the cost-efficiency and durability of LFP batteries, particularly for grid storage. Meanwhile, Tesla is preparing to open its first North American LFP cell factory in Nevada, using repurposed CATL equipment and a wet coating process. The plant will initially provide 10 GWh of capacity, mainly for Powerwall and Megapack systems. Both initiatives aim to strengthen domestic supply chains, reduce reliance on Chinese imports, and support U.S. energy resilience. These investments highlight a growing shift toward locally made, affordable, and long-cycle-life battery solutions. The developments are also aligned with broader clean energy goals and energy independence strategies. Together, these projects significantly boost the U.S. battery manufacturing landscape.

<https://chargedevs.com/newswire/lg-energy-solution-tesla-build-lfp-battery-plants-in-the-us/>

24. Ganfeng Lithium Kicks Off 12 GWh Energy Storage PACK Project in Jiangxi

Ganfeng Lithium's new battery research institute and PACK integration project entered near-completion and is gearing up for trial production as of June 23. Four core factory buildings are finished, with R8 lab and M10 production plant interiors fully decorated ahead of schedule, enabling the start of equipment installation. R8 production equipment is expected by early July, and M10 PACK integration machinery is already undergoing installation. The plant will house four production lines, targeting trial runs by mid-July. Investing RMB 1.5 billion across ~99,000 m² (56,000 m² built), it includes an R&D center, testing facility, automated warehousing, and administrative offices. Construction began in February 2025 and has proceeded rapidly. Once fully operational, the site will integrate 12 GWh of annual energy storage battery system capacity. Ganfeng anticipates RMB 6 billion in yearly sales and around RMB 120 million in annual tax contributions. The project aims to become a leading base for next-gen lithium battery R&D, testing, and large-scale PACK system integration.

<https://www.energytrend.com/news/20250626-49793.html>

Technology and Regulatory

25. Aquatech Unveils PEARL™ Platform for End-to-End Lithium Processing

Aquatech has launched PEARL™, a comprehensive technology platform designed to handle the entire lithium extraction, refining, and purification process. The system supports a wide range of lithium sources including hard rock, clay, brine, geothermal, and oilfield streams. PEARL™ integrates customized process development, full-scale implementation, and operational support with performance guarantees. Its modular, scalable design enables faster time-to-market, reduced capital and operating costs, and higher lithium recovery rates. Tailored to each resource type, the platform minimizes technical risks and shortens development timelines. Backed by years of in-house R&D and validation, PEARL™ is already being deployed in major lithium projects globally. Aquatech's solution addresses key industry challenges such as fragmented technologies and inefficiencies in the lithium supply chain. The company aims to streamline lithium production to meet growing demand for battery-grade material. PEARL™ supports the acceleration of the global energy transition by enabling reliable and efficient lithium supply.

<https://www.aquatech.com/blog/aquatech-unveils-pearl>

26. LG Energy Solution Expands LFP Battery Production for Energy Storage in Michigan

LG Energy Solution has completed mass production of two LFP battery pouch-cell lines at its Holland, Michigan plant, dedicated to energy storage systems (ESS), with an annual capacity of 16.5 GWh. A third production line is scheduled to start by the end of 2025, further increasing output to meet rising demand from grid-scale applications. This facility is the first in the U.S. to mass-produce LFP cells specifically for stationary storage. The project reflects LG's strategic shift from EV-focused production to ESS, driven by growing demand from data centers and renewable energy projects. The plant also includes a 5 GWh line for NMC cells, making it a hybrid production site. LG is leveraging existing infrastructure and IRA incentives to strengthen domestic battery manufacturing. The expansion reduces reliance on Chinese imports and mitigates the impact of tariffs. This move supports U.S. policy goals for resilient energy supply chains. The project positions LG at the forefront of North America's clean energy storage market.

<https://www.energytrend.com/news/20250630-49803.html>