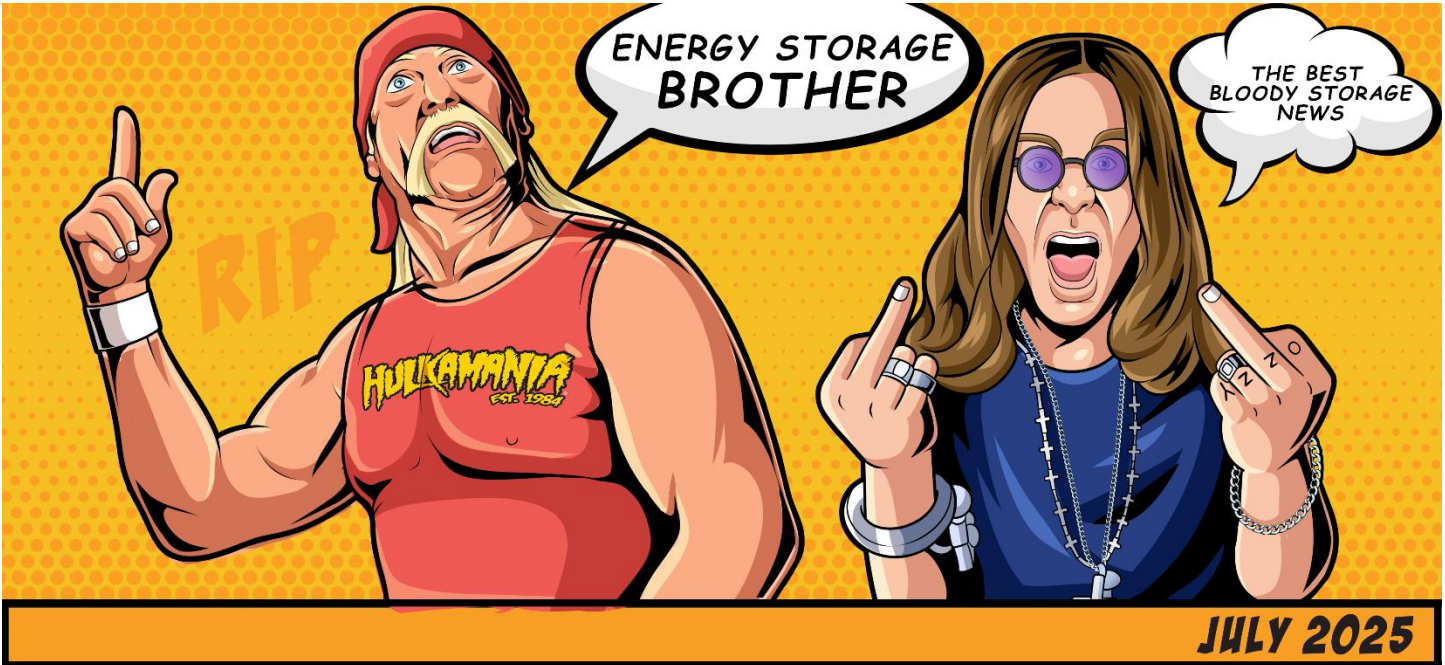


FRACTAL ENERGY STORAGE NEWS



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Recent Storage M&A Transactions and Investment News

United States

- *Jul 31st*: Greenvolt, a clean energy developer and producer, revealed a € 150M (USD 171M) capital boost, fully backed by KKR, an alternative asset and private equity investor, to fuel its expansion, particularly in large-scale battery storage solutions. Greenvolt highlighted its leadership in Europe's battery energy storage

systems (BESS) market, boasting a 4.3 GW probability-weighted pipeline across nine countries, with plans for substantial BESS investments soon. The capital raise will occur in two stages: an initial € 100M in early August, followed by € 50M by the end of September.¹

- *Jul 24th*: ArcLight Capital Partners (ArcLight) announced the acquisition of Advanced Power, a leading power developer and manager founded in 2000, and an initial \$ 1B equity commitment to build new power infrastructure. The partnership has the potential to invest more than \$ 5B in equity over the next five years, enabling over 20 gigawatts (GW) of new power and accelerating North America's AI and data center infrastructure growth. Advanced Power's existing late-stage power projects across the U.S. include 12+ GWs of conventional and renewable projects and 10+ GWh of energy storage projects, enough to provide reliable, accelerated, large-scale power infrastructure to over 20 large-scale data center campuses. The partnership combines Advanced Power's significant development expertise, power development track record, and strategic industry relationships with ArcLight's existing 26 GW operating power portfolio and electric infrastructure expertise across power, renewables, batteries, transmission, strategic gas, and digital power.²
- *Jul 24th*: SolarBank Corporation, a North American energy infrastructure developer and asset owner, announced that it will be changing its name to "PowerBank Corporation" a step that reflects the company's strategic focus, market opportunity, and established position as a trusted provider of power and energy solutions that extend beyond just solar energy. The Company's stock symbols will remain unchanged.³
- *Jul 24th*: Accel-Dev, a provider of development capital for clean energy infrastructure backed by Madison Energy Infrastructure, announced a new investment in Eddy Energy to support a growing portfolio of battery storage projects across the Pacific Northwest. This facility will accelerate execution on a cluster of projects serving high-load urban and industrial centers where localized capacity is essential to meeting growing energy demands without triggering costly distribution upgrades.⁴
- *Jul 23rd*: NOVONIX, a provider of battery materials and technology, has finalized a funding deal with Yorkville Advisors Global for up to \$ 95M. As part of the agreement, NOVONIX will issue up to \$ 100M in unsecured convertible debentures to Yorkville across multiple tranches. This capital is intended to support the ongoing construction of its Riverside facility in Chattanooga, Tennessee.⁵
- *Jul 15th*: Ultion Technologies, the only fully integrated U.S. maker of advanced lithium iron phosphate (LFP) battery cell technology and energy storage systems (ESS) shipping at scale today, closed a Series A funding round led by Torus, a Utah-based pioneer in full-stack energy storage solutions, with participation from additional mission-aligned investors, including Nevada state-sponsored venture capital program Battle Born Venture, which is overseen by the Governor's Office of Economic Development (GOED).⁶
- *Jul 10th*: Ionic Mineral Technologies (Ionic MT), a vertically integrated U.S. producer of advanced materials for the energy, defense, and technology sectors, announced the close of a \$ 29M Series B financing round. The oversubscribed round, which exceeded its initial \$ 25M target, reflects growing investor confidence in Ionic MT's mission to establish a secure, domestic supply chain for critical battery components. The capital will expand capacity at Ionic MT's 74,000-square-foot facility in Provo, UT, accelerating production of two high-performance battery materials: Ionisil™, a nano-silicon anode material engineered for next-generation electric vehicle (EV) and defense batteries, and IonAl™, a high-purity boehmite alumina used in battery

¹ <https://www.esgtoday.com/kkr-commits-170-million-to-grow-clean-energy-platform-greenvolt/>

² <https://www.prnewswire.com/news-releases/arclight-acquires-advanced-power-a-leading-power-infrastructure-developer-302512542.html>

³ <https://www.prnewswire.com/news-releases/solarbank-announces-name-change-to-powerbank-corporation-302512608.html>

⁴ <https://www.globenewswire.com/news-release/2025/07/24/3120965/0/en/Accel-Dev-Provides-Development-Capital-to-Eddy-Energy-to-Advance-Local-Storage-Infrastructure-in-the-Pacific-Northwest.html>

⁵ <https://www.novonixgroup.com/novonix-announces-entry-into-funding-agreement-for-up-to-us100-million-of-convertible-debentures/>

⁶ <https://www.businesswire.com/news/home/20250715342814/en/Ultion-Technologies-Secures-Series-A-Funding-to-Build-Critical-U.S.-Battery-Manufacturing-Capacity>

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separators and advanced technical ceramics.⁷

- *Jul 9th*: Sunnova Energy International Inc. (Sunnova) announced that it has entered into a stalking horse asset purchase agreement (the “ServiceCo Stalking Horse APA”) with Omnidian Inc. (Omnidian), a leading provider of comprehensive protection and performance plans for residential and commercial solar and energy-storage assets. Pursuant to the ServiceCo Stalking Horse APA, Omnidian would purchase the Company’s leading residential solar servicing and operations & maintenance platform for a total consideration of \$ 7M in cash and the assumption of certain liabilities.⁸

International

- *Jul 29th*: AGR Renewables has acquired a 49.9 MW solar park and co-located BESS from Cambridge Power, located near the Eaton Socon Substation in Bedfordshire, England. The project also includes a standalone 100 MW BESS. The solar park will export up to 49.9 MW of renewable electricity, while the battery assets will provide 100 MW of grid balancing capacity.⁹
- *Jul 28th*: Investment company KKR has agreed to invest AUD 500M (\$ 328.2M) in CleanPeak Energy to enhance the distributed energy platform in Australia. The strategic partnership will bolster the development and growth of distributed solar, battery storage, and microgrid solutions within the commercial and industrial (C&I) sector.¹⁰
- *Jul 28th*: Developer North Harbour has secured early-stage funding for two battery projects in New South Wales, Australia. Investment firm Washington H. Soul Pattinson has taken a one-third stake in North Harbour Clean Energy, investing AUD 40M (USD 26M) and securing one or two board seats.¹¹
- *Jul 22nd*: Innovatium Group, a company focused on long-duration energy storage, has received £ 3M (USD 4M) in funding to advance its Liquid Air Energy Storage (LAES) system, PRISMA. The funding came from the Scottish National Investment Bank and Hitachi Industrial Equipment Systems (HIES). This marks the first time HIES has invested in a Scottish company. The PRISMA system, a patented LAES technology, works by using off-peak electricity to cool and liquefy air, storing it as energy, which is then converted back into power when needed.¹²
- *Jul 20th*: T2Y Capital will invest in Prime Batteries Energy Holding, becoming the company’s second-largest shareholder after founder Adrian Polec. Based in Bucharest, Romania, Prime Batteries is a leading independent provider of lithium-ion-based energy storage services in the European Union. Established in 2016, it employs 160 people. Prime Batteries currently operates a battery factory with a 300 MWh production capacity, with a 2 GWh factory ramp-up underway. Its strategic plan aims to boost annual production output by an additional 6 GWh, targeting a total capacity of 8 GWh by 2030.¹³
- *Jul 15th*: Engie has acquired two 200 MW BESS projects in Latiano, Puglia, from Recurrent Energy, the development arm of Canadian Solar. Construction is expected in 2028. This expands Engie’s Italian portfolio as it targets 1.6 GW by 2030. The projects, having secured planning consent, can participate in Italy’s upcoming MACSE auction, offering 15-year contracts for energy storage capacity.¹⁴
- *Jul 15th*: GSSG Chikuden, LLC (GSSG Chikuden), a utility-scale battery storage developer dedicated to accelerating the Japanese energy transition, announced the launch of its business with a USD 400M

⁷ <https://www.businesswire.com/news/home/20250710745294/en/Ionic-Mineral-Technologies-Closes-Oversubscribed-%2429-Million-Series-B-to-Scale-U.S.-Production-of-Advanced-Battery-Materials>

⁸ <https://www.businesswire.com/news/home/20250709966182/en/Sunnova-Enters-into-Stalking-Horse-Asset-Purchase-Agreement-with-Omnidian>

⁹ <https://www.agr-group.co.uk/news/agr-renewables-acquires-solar-and-bess-project-from-cambridge-power>

¹⁰ [https://finance.yahoo.com/news/kkr-invests-cleanpeak-energy-expand-](https://finance.yahoo.com/news/kkr-invests-cleanpeak-energy-expand-091108852.html#:~:text=Investment%20company%20KKR%20has%20agreed,the%20commercial%20and%20industrial%20sector.)

[091108852.html#:~:text=Investment%20company%20KKR%20has%20agreed,the%20commercial%20and%20industrial%20sector.](https://finance.yahoo.com/news/kkr-invests-cleanpeak-energy-expand-091108852.html#:~:text=Investment%20company%20KKR%20has%20agreed,the%20commercial%20and%20industrial%20sector.)

¹¹ <https://www.afr.com/companies/energy/soul-patts-invests-in-big-battery-developer-north-harbour-20250722-p5mgz2>

¹² <https://www.energyvoice.com/renewables-energy-transition/576216/innovatium-investment-liquid-air-battery/>

¹³ <https://www.pehub.com/t2y-capital-invests-in-energy-storage-company-prime-batteries/>

¹⁴ <https://einfews.energyinfra.market/post/engie-acquires-200-mw-bess-projects-from-recurrent-energy-in-italy>

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commitment from Vision Ridge Partners (Vision Ridge). GSSG Chikuden will use the investment to support its development, construction, and operation of utility-scale BESS across Japan's power grid. GSSG Chikuden launches with an existing pipeline of development projects with secured grid interconnection rights and will look to opportunistically acquire projects to expand its reach.¹⁵

- *Jul 11th*: N2OFF, Inc. announced the completion of a \$ 2.7M investment to support the development of two BESS in Sicily, each with a capacity of 98 MW / 392 MWh. The company has invested over \$ 1.2M in its Italian subsidiary, which is developing these "Ready to Build" projects expected to facilitate grid stability and be sold for an estimated value of \$ 13.5M. With preliminary grid connection approvals already secured, N2OFF aims to achieve RTB status within 18-24 months.¹⁶
- *Jul 9th*: Foresight Energy Infrastructure Partners II S.C.Sp (FEIP II), the flagship energy transition fund managed by Foresight Group LLP, is pleased to announce the successful acquisition of a 49% shareholding in Harmony Energy Income Trust plc (HEIT), alongside Foresight portfolio company, Blackmead Infrastructure Limited, which acquired the remaining 51%. The transaction takes HEIT private and secures ownership of the UK's largest operational two-hour duration BESS portfolio. Comprising eight fully operational, grid-connected BESS assets located across England and Scotland, the portfolio provides a total capacity of 400 MW/ 800 MWh.¹⁷
- *Jul 9th*: Photon Energy N.V. announced that its Australian subsidiary Photon Energy AUS SPV4 Pty Ltd has obtained development approval from the South Australian Department for Energy and Mining for its Yadnarie solar and long-duration energy storage project. This milestone paves the way for the project's construction and operation. Photon Energy has come to an agreement with AGL, the largest energy generator in Australia, for the sale and transfer of the project. The facility will combine 150 MW of concentrated solar generation and 90 MW of thermal generation, integrated with at least 720 MWh of long-duration electro-thermal energy storage.¹⁸
- *Jul 7th*: European renewable energy provider SUNOTEC has completed the purchase of SIA DSE Lazars Solar's solar and energy storage project (400 MW_p Solar PV + 600 MWh BESS) in Latvia from Danish Sun Energy. The project is anticipated to be grid-connected and fully operational by March 2027.¹⁹
- *Jul 7th*: EnergyAustralia has sold a 50% stake in its 350-MW Wooreen Energy Storage System (WESS) project in Victoria to Banpu Energy Australia, a subsidiary of Banpu Public Company Limited. This move involves a \$ 700M investment, with Banpu injecting \$ 110M. The project, located in the Latrobe Valley, will have a storage capacity of 1,400 MWh. It's designed to support the grid during peak demand and is expected to be operational by the second half of 2027. EnergyAustralia will remain the sole offtaker of the project's electricity.²⁰
- *Jul 3rd*: Renewables developer Low Carbon announced the sale of the Gate Burton Energy Park (500 MW Solar PV + BESS) in Lincolnshire, a Nationally Significant Infrastructure Project (NSIP), to EDF power solutions UK. The project has received planning consent. Low Carbon has more than 1 GW of renewable capacity currently in operation and construction.²¹

¹⁵ [https://www.businesswire.com/news/home/20250715748352/en/GSSG-Chikuden-Launches-with-US\\$24400M-Commitment-from-Vision-Ridge-Partners](https://www.businesswire.com/news/home/20250715748352/en/GSSG-Chikuden-Launches-with-US$24400M-Commitment-from-Vision-Ridge-Partners)

¹⁶ <https://www.nasdaq.com/articles/n2off-inc-completes-27-million-investment-battery-energy-storage-projects-sicily-targeting>

¹⁷ <https://www.foresight.group/news/foresight-acquires-uk-s-largest-2-hour-operational-battery-storage-portfolio>

¹⁸ <https://www.photonenergy.com/article/photon-energys-yadnarie-project-obtains-development-approval>

¹⁹ https://finance.yahoo.com/news/sunotec-acquires-400mw-p-solar-600mwh-113943787.html?guccounter=1&guce_referrer=aHR0cHM6Ly93d3cuZ29vZ2xlLnVnbS8&guce_referrer_sig=AQAAAD363G5zwyYZUuQWUrHKv9eT-7K8_eVZaf7OSVXW7LZ7EYqzU97azDa4--7qROLj-qeSk_-7qpRx0SHkGshOsEDmMQIV_jdmGaczD0H4m7Y9ib72_hCvc_4S0FW56EPcKa2S0c0k2jUMfLIRE2VZtaPuHwsCH0oowAhDmDT2X

²⁰ <https://www.energyaustralia.com.au/about-us/media/news/energyaustralia-partners-banpu-energy-australia-develop-wooreen-energy-storage>

²¹ <https://www.lowcarbon.com/news-feed/low-carbon-edf-power-solutions-deal-gate-burton-dco-project>

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- *Jul 3rd*: ContourGlobal, a renewable energy power generation and a subsidiary of KKR, has acquired BESS projects in Italy with a combined power capacity of approximately 1.6 GW and storage durations of up to eight hours. Once fully developed, the portfolio could reach a total energy storage capacity of nearly 9.5 GWh, strategically positioning the company ahead of the upcoming MACSE (the Italian Storage Capacity Procurement Mechanism) auctions starting in September, as well as for future opportunities in balancing markets or other commercial initiatives.²²
- *Jul 1st*: Ecobat, a global leader in battery recycling, announced the successful completion of the sale of its battery and polypropylene recycling business in Italy to Haiki + S.p.A. The transaction includes Ecobat's facilities in Marcianise, Paderno Dugnano, and Bologna, and marks Ecobat's exit from the Italian market.²³
- *Jul 1st*: Leading global lithium-sulfur battery manufacturer Lyten announced it has secured more than \$ 200M in additional equity investment to support its recent acquisitions and overall expansion plans. This brings total investment to date in Lyten to more than \$ 625M. The additional investment is provided primarily from current investors.²⁴ Lyten intends to accelerate its acquisition strategy and expansion plans in both the US and Europe with the additional capital. Lyten, the supermaterial applications company and lithium-sulfur battery maker, announced the acquisition of Northvolt's Dwa ESS operations in Gdansk, Poland, a 25,000 square meter (270,000 sq ft) BESS manufacturing and R&D facility. Northvolt Dwa ESS is the largest BESS manufacturing facility in Europe and was part of Northvolt Systems. Neither party has disclosed the financial terms of the acquisition. The Northvolt acquisition accelerates the expansion of Lyten's lithium-sulfur batteries into Europe and provides Lyten with production capacity to meet demand in the growing BESS market.²⁵
- *Jul 1st*: Major Chinese lithium-ion battery manufacturer EVE Energy has submitted an application to list on the Hong Kong Stock Exchange (HKEX). EVE Energy is a top 10 global battery manufacturer. This follows suit with other battery manufacturers that completed Initial Public Offerings (IPO) on the HKEX such as CATL, CALB, Rept Battery Energy, and BYD.²⁶
- *Jul 1st*: Amber Group, a homegrown contract manufacturer for HVAC and consumer electronics, has entered into definitive agreements for acquiring a majority stake in Bengaluru-based Power-One Micro Systems-based Power-One Micro Systems. Power-One is a manufacturer of solar inverters, uninterruptible power supplies (UPS), BESS, EV chargers, and other power and energy solutions.²⁷
- *Jul 1st*: Luxcara, a leading independent German asset manager for clean energy infrastructure projects, has acquired a 520 MW / 1,040 MWh BESS in Waltrop, Germany. It will be constructed on an unused site that was formerly designed to develop a coal-fired power plant. The project is one of the largest BESS projects in Germany to date, has already secured grid capacity, and is planned to operate under a tolling agreement. Construction is scheduled to begin in 2026.²⁸

²² <https://www.contourglobal.com/news/contourglobal-acquires-energy-storage-projects-in-italy-ahead-of-macse-auctions/>

²³ <https://www.prnewswire.com/news-releases/ecobat-completes-sale-of-italian-business-to-haiki-302496236.html>

²⁴ <https://www.businesswire.com/news/home/20250728219568/en/Lyten-Secures-More-than-%24200-Million-in-Investment-to-Support-its-Ongoing-Acquisition-Strategy>

²⁵ <https://www.businesswire.com/news/home/20250701098618/en/Lyten-Acquires-Europes-Largest-Battery-Energy-Storage-Systems-Manufacturing-Operation-from-Northvolt>

²⁶ <https://www1.hkexnews.hk/app/sehk/2025/107513/documents/sehk25063000728.pdf>

²⁷ <https://auto.economictimes.indiatimes.com/news/industry/amber-group-to-acquire-majority-stake-in-power-one-micro-systems/122153862>

²⁸ <https://w3.windfair.net/wind-energy/news/47578-luxcara-acquires-520-mw-battery-storage-project-one-of-the-largest-in-germany>

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FRACTAL ADVISORY

Contact Fractal Advisory about your next sales process at judy@fractalba.com. Fractal Advisory has:

- A robust network of investors and asset owners to maximize your asset(s) exposure
- Unmatched energy storage and market expertise to optimize your investment model and address bidder inquiries
- Ultra-competitive advisory fees to maximize your development return.
- Projects, portfolios, platforms, and major equipment sale processes

PROJECT REDZONE SALE PROCESS – ERCOT BESS

**ERCOT PVS
AND BESS
FOR SALE**



ALERT: PHASE 2 CUTOFF IS APPROACHING
NBO DUE September 1, 2025
[CLICK HERE](#) to learn more.

The Project Redzone sale process features a portfolio of one (1) AC-Coupled 240 MW_{ac} PV + 200 MW / 400 MWh BESS project located in Kinney County, Texas (ERCOT South – target COD Q4 2027) and one (1) standalone 200 MW / 400 MWh BESS located in Midland County, Texas (ERCOT West – target COD Q4 2027). Fractal Advisory is running the process on behalf of American Wind and Solar. This is a time-sensitive opportunity for interested parties. Please submit your Non-Binding Offers (NBO) as soon as possible. Buyers prepared to submit a Non-Binding Offer (NBO) may request the process letter and access to the Virtual Data Room (VDR) by contacting Aaron Barker at aaron@fractalba.com.

PROJECT MALONEY SALE PROCESS – ERCOT BESS

**ERCOT BESS
PROJECT
FOR SALE**



THIS PROCESS IS IN PHASE 2
[CLICK HERE](#) to learn more.

The Project Maloney sale process features a 200 MW_{ac} / 400 MWh BESS in Wichita County, Texas, West Zone, in ERCOT, with an anticipated In-Service Date of Q4 2027. The project includes a term sheet for a Toll and Revenue Collar (optional). Fractal Advisory is running this process on behalf of Suncode Energy. This is a time-sensitive opportunity for interested parties. Buyers prepared to submit an NBO may request the process letter and access to the VDR by contacting Sean Bruno at sean@fractalba.com.

PROJECT CANTALOUPE SOLAR SALE PROCESS – ERCOT DC COUPLED PV+S

**ERCOT DC
COUPLED PVS
FOR SALE**




THIS PROCESS IS IN PHASE 2
[CLICK HERE](#) to learn more.

The Project Cantaloupe Solar sale process features a DC-coupled Solar PV + BESS in Reeves County, in the West Load Zone, ERCOT, with a **Ready to Build date of June 2025**, with attractive economics. Fractal Advisory is running the process on behalf of Alt Energy Developments. This is a time-sensitive opportunity for interested parties. Buyers prepared to submit an NBO may request the process letter and access to the VDR by contacting Aaron Barker at aaron@fractalba.com.

PROJECT FOX BILATERAL OPPORTUNITY – TEXAS BESS PORTFOLIO

ERCOT BESS
150 MW / 300 MWh
2 PROJECTS
FOR SALE



REPUTABLE BUYERS INVITED

Fractal Advisory, on behalf of our client Uriel Silo Development Company, is pleased to invite qualified buyers to participate in the Project Fox bilateral opportunity. This portfolio features two 150 MW_{ac}, 2-hour BESS in Van Zandt County, North Zone, in ERCOT, with anticipated In-Service Dates of Q1 and Q2 2027. This is a time-sensitive opportunity for interested parties. Buyers prepared to submit an NBO may request the process letter and access to the VDR by contacting Judy McElroy at judy@fractalba.com.

THE NBO DEADLINE HAS RECENTLY PASSED.
THIS PROCESS IS STILL ACCEPTING OFFERS.
[CLICK HERE](#) to learn more.

Recent Finance and Tax Equity News

United States

- *Jul 31st*: First Citizens Bank announced that its Energy Finance business acted as co-lead arranger and administrative agent on \$ 238M in financing on behalf of DSD Renewables (DSD) for a large portfolio of distributed generation solar projects. The DSD portfolio being financed consists of 188 distributed generation solar projects totaling 233 MW of generation capacity in 12 different states and the District of Columbia. Three of the projects are equipped with BESS. Joining First Citizens Bank as co-lead arrangers on the financing were Nomura and Mitsubishi UFJ Financial Group (MUFG).²⁹
- *Jul 30th*: BlueWave, a leading solar and storage developer, owner, and operator in the Northeast U.S., announced two new major financing milestones. With support from parent Axium Infrastructure, the company has secured both a \$ 125M revolving construction to term loan facility and a \$ 122M corporate revolving credit facility. The revolving construction-to-term loan facility led by KeyBank and National Bank of Canada will provide construction debt, including tax equity bridge loans, and initial term debt via a revolving facility that will enable BlueWave to deploy its pipeline as projects enter construction flexibly. The credit facility for \$122M, financed by KeyBank and Canadian Imperial Bank of Commerce, the New York branch, was also arranged to support the continued growth of BlueWave's project development pipeline and provide additional flexibility in the company's operations.³⁰
- *July 28th*: Treaty Oak Clean Energy, LLC (Treaty Oak), a US independent power producer (IPP), announced the successful close of a \$ 300M senior secured corporate credit facility. The Facility will significantly enhance Treaty Oak's rapidly expanding renewable energy project pipeline, which includes utility-scale solar, wind, and BESS. The Facility was led by ING Capital LLC (ING), Nomura Corporate Funding Americas, LLC (Nomura), and Sumitomo Mitsui Banking Corporation (SMBC), serving as Coordinating Lead Arrangers. ING served as the Green Loan Agent, while Nomura served as Administrative Agent for the transaction. PEI Global Partners served as Exclusive Financial Advisor to Treaty Oak. Latham & Watkins LLP acted as Borrower's Counsel, and Norton Rose Fullbright US LLP served as Lenders' Counsel.³¹
- *Jul 23rd*: Energy Vault Holdings announced the successful close of \$ 18M in project financing for its Cross Trails BESS, which serves the Texas ERCOT market. The financing supports the company's 'Own & Operate' strategy and is expected to generate a levered IRR of approximately 15%. The Cross Trails BESS, which began commercial operations in June 2025, is backed by a 10-year offtake agreement with Gridmatic

²⁹ <https://www.abladvisor.com/news/41191/first-citizens-bank-co-lead-arranges-238mm-in-financing-for-national-portfolio-o>

³⁰ <https://www.prnewswire.com/news-releases/bluewave-announces-closing-of-247-million-credit-facilities-to-support-growing-operations-302516773.html>

³¹ <https://www.businesswire.com/news/home/20250728887448/en/Treaty-Oak-Clean-Energy-Secures-a-%24300-Million-Corporate-Credit-Facility>
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and is the first deployment of Energy Vault's second-generation B-VAULT™ AC product. This project financing follows the company's earlier \$ 28M financing for the Calistoga Resiliency Center in California and the acquisition of the Stoney Creek BESS in Australia.³²

- *Jul 22nd*: Estuary Power has commenced commercial operations at its Escape solar-plus-storage complex in Lincoln County, Nevada. The site features 185 MW of solar capacity and a 100 MW / 400 MWh BESS supplied by Tesla. The first phase, a 70 MW solar plant, began supplying electricity to Overton Power District No. 5, Caesars Entertainment, and Wynn Las Vegas under long-term PPAs in June. The remaining 115 MW of solar arrays and the BESS will start supplying MGM Resorts International later this year. Estuary Power, based in Reno, Nevada, has secured additional financing for the project, increasing the long-term construction-to-term facility provided by Denham Capital. A tax equity commitment from Morgan Stanley Renewables Inc. has also been completed. The Escape PV Park, constructed by Bechtel Infrastructure and Power Corp, utilizes JinkoSolar's TopCon modules.³³
- *Jul 16th*: Independent power producer (IPP) Sol Systems announced it has secured a \$ 675M revolving construction finance facility to support the buildout of its upcoming portfolio of solar and storage projects. This financing will fund construction loans, tax equity bridge loans, and letters of credit—supporting an initial 500 MW of projects planned in Illinois, Ohio, and Texas. The first group of projects is expected to come online by the end of 2026.³⁴
- *Jul 15th*: SolaREIT, a leading solar and battery storage real estate investment company, announced it has deployed more than \$ 125M in capital for BESS projects across the U.S. The company's BESS capital solutions have now supported over 1,400 MW of projects, helping to improve grid stability, manage peak demand, and support the deployment of clean energy nationwide. The company launched its capital solutions for BESS developers last year.³⁵
- *Jul 11th*: MN8 Energy LLC (MN8 Energy), one of the largest independent renewable energy companies in the United States, announced the successful closing of its \$ 575M Senior Secured Notes offering. Natixis Corporate & Investment Banking (Natixis CIB) served as Lead Placement Agent, Ratings Advisor, and Green Issuance Coordinator for the transaction. The notes are backed by a highly diversified portfolio consisting of 972 MW of distributed generation and utility-scale photovoltaic (PV) solar projects, along with a 75 MW 4-hour BESS, collectively known as MN8 Portfolio IV.³⁶
- *Jul 9th*: Lydian Energy, an independent power producer specializing in the development, construction, and operation of utility-scale solar and battery energy storage projects across North America, announced the successful financial close of its first institutional project financing totaling \$ 233M. The financing, backed by ING and KeyBank, supports three BESS projects in Texas' fast-growing ERCOT power market. ING served as the lender for the Pintail and Crane projects, located in San Patricio and Crane Counties, Texas, respectively. The two systems, each sized at 200 MW / 400 MWh, represent a combined investment of approximately \$139M. KeyBank provided a \$ 94M financing package for Headcamp, a 150 MW / 300 MWh project in Pecos County. KeyBanc Capital Markets also structured the financing package for Headcamp.³⁷
- *Jul 8th*: Lightshift Energy, a leading energy storage developer, owner, and operator announced the financial close of a credit facility for up to \$ 40M with Aiga Capital Partners (Aiga), an institutional investment platform that specializes in innovative financing solutions for North American-based companies developing

³² <https://www.theglobeandmail.com/investing/markets/stocks/NRGV/pressreleases/33724035/energy-vault-secures-18-million-for-texas-bess/>

³³ <https://www.prnewswire.com/news-releases/estuary-power-commences-operation-of-escape-solar-and-storage-project-and-closes-additional-financing-302511082.html>

³⁴ <https://www.solsystems.com/news/sol-systems-secures-675-million-in-revolving-construction-financing-to-power-its-clean-energy-pipeline/>

³⁵ <https://www.prnewswire.com/news-releases/solareit-surpasses-125m-in-battery-energy-storage-land-financing-302505675.html>

³⁶ <https://www.prnewswire.com/news-releases/mn8-energy-successfully-closes-575-million-senior-secured-notes-offering-with-natixis-corporate-investment-banking-302503282.html>

³⁷ <https://www.businesswire.com/news/home/20250709318098/en/Lydian-Energy-Secures-%24233M-in-Project-Financing-to-Advance-Battery-Storage-Projects-Across-Texas>

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sustainable infrastructure assets. The facility will serve as a strategic tool to support Lightshift's rapidly growing portfolio by funding interconnection and power purchase agreement (PPA) security requirements, equipment deposits, and other uses. The expandable credit line comes at a critical time as Lightshift transitions a significant portion of its pipeline into construction during the second half of 2025 and into 2026.

- *Jul 1st* Arevon Energy, Inc., a leading American energy developer, owner, and operator, announced the successful closing of a \$ 600M credit facility, with the option to increase up to \$ 850M, to support its expanding portfolio of diverse, high-quality renewable energy projects across the United States. The facility includes a \$ 350M revolving loan and letter of credit facility and a \$ 250M project letter of credit facility. It will provide Arevon with flexible capital to support working capital needs including acquisitions, project development, and performance support obligations across its portfolio of solar and battery storage projects. Wells Fargo Bank, National Association led the financing, that acted as Administrative Agent. Wells Fargo Securities, LLC, Canadian Imperial Bank of Commerce, New York Branch, and Credit Agricole Corporate and Investment Bank acted as Co-Green Loan Structuring Agents and letter of credit issuing banks. Wells Fargo Bank, National Association, Canadian Imperial Bank of Commerce – New York Branch, Credit Agricole Corporate and Investment Bank, JPMorgan Chase Bank, N.A., Bank of America N.A., Barclays plc, BNP Paribas Securities Corp., Commonwealth Bank of Australia, Natixis, National Bank of Canada, and Societe Generale served as Joint Lead Arrangers. MUFG, RBC, TD, and Truist served as participant lenders.³⁸

International

- *Jul 25th*: Elements Green has reached financial close on a £ 140M facility to fund its 360 MW / 720 MWh Staythorpe BESS in the UK. Funding came from Golden Sachs Alternatives. The project is slated for operations in 2027 and is set to become one of the largest standalone BESS in the UK.³⁹
- *Jul 24th*: Renalfa IPP, a leading independent power producer focused on renewable energy, has secured a landmark € 315M Holdco Financing from a consortium of lenders, including the European Bank for Reconstruction and Development (EBRD), to accelerate the green energy transition in central and eastern Europe. The financing will support a € 1.2B investment program for Renalfa's portfolio, following which around 1.6 GW of generation assets and around 3.3 GWh of co-located BESS will be operational across Bulgaria, Hungary, Romania, and North Macedonia.⁴⁰
- *Jul 22nd*: Faria Renewables SA has secured a € 28M loan from Attica Bank to finance a 49.9 MW / 134.2 MWh BESS near Thessaloniki, Greece. The project was awarded a 10-year availability contract in last year's Greek battery storage auction. It has a planned COD in Q3 2025. Faria aims to develop 3 GW of assets in Europe.⁴¹
- *Jul 18th*: H.G. Infra Engineering Limited (HGIEL) has approved raising ₹ 4B (~\$ 46.5M) via Non-Convertible Debentures (NCDs) through private placement. The funds will enhance working capital and project equity for HG Infra's expanding clean-energy portfolio, particularly its battery energy-storage system projects in Gujarat, India, totaling 435 MW / 1,100 MWh.⁴²
- *Jul 17th*: Solar storage developer Cero Generation, a Macquarie company, and its development partner, Enso Energy, have announced the financial close of £ 200M (~\$ 269.21M) for a portfolio of solar and battery storage projects in the UK, totaling 360 MW. The financing was provided by a consortium of lenders, including ING, NordLB, Rabobank, and Santander UK. The portfolio comprises three solar and BESS projects, one of which is the 115 MW co-located Bramley Project, located in the southern English county of Hampshire. This

³⁸ <https://www.prnewswire.com/news-releases/arevon-secures-600-million-credit-facility-to-accelerate-renewable-energy-growth-in-the-united-states-302495091.html>

³⁹ <https://cleaneenergypipeline.com/news/elements-green-backed-with-140-million-from-goldman-sachs-alternatives-for-uk-bess-project/>

⁴⁰ <https://www.ebrd.com/home/news-and-events/news/2025/holdco-financing-for-renalfa-ipp.html>

⁴¹ <https://balkangreenenergynews.com/faria-renewables-secures-financing-for-49-9-mw-battery-project-in-greece/>

⁴² <https://einfews.energyinfra.market/post/hg-infra-raises-4-billion-for-energy-storage-projects>

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project will be the first to be operational and is expected to begin construction in Autumn 2025. The BESS will be provided by Chinese solar and storage provider Sungrow, while French utility EDF will provide optimisation for the battery and route-to-market services for the solar PV. Greek developer Metlen has been appointed as the engineering, procurement and construction (EPC) contractor.⁴³

- *Jul 17th*: Iberdrola this morning signed a € 2.5B credit line, as it continued to strengthen its liquidity and diversify its funding sources. The deal, closed with 32 international banking institutions, was oversubscribed by 45%, reflecting the confidence of the banking sector in Iberdrola's creditworthiness and strategy. Iberdrola is the largest utility in Europe and one of the two largest in the world by market capitalization. The credit facility has a term of five years, with the option to extend for a further two years. It is a multi-currency facility and has the most competitive cost of all credit lines currently available to Iberdrola.⁴⁴
- *Jul 11th*: Green Genius, a Lithuanian renewable energy company, has secured EUR 36.66M in financing from RGreen Invest to develop a 78 MW solar-plus-storage project in Lithuania. The project, located near Seduva, is part of a larger initiative by Green Genius to develop 199 MW of solar capacity in Lithuania and Latvia. The project is expected to be operational in 2025.⁴⁵
- *Jul 11th*: BayWa r.e. has secured a comprehensive refinancing package worth approximately € 3B, ensuring financial stability through mid-2029. This package includes bank loans, shareholder loans, and operational guarantees, as well as the € 435M in additional funding announced earlier this year. With this strengthened financial position, BayWa r.e. will continue to pursue its strategy as a leading global Independent Power Producer (IPP), focusing on the development, construction, and operation of wind, solar, and battery storage projects.⁴⁶
- *Jul 8th*: AMPYR Australia (AMPYR) announced it has achieved financial close of its 300 MW / 600 MWh Wellington Stage 1 BESS project in regional New South Wales (NSW). The project is backed by over AUD 340M in financing from major banks, including Commonwealth Bank of Australia and HSBC. The facility is expected to be operational by 2026.⁴⁷
- *Jul 4th*: German storage developer has received financing from Vienna-based Voltares to fund the development of their 7.3 GW pipeline of BEE projects in Germany, and support their recent joint venture (JV) signed with BW ESS. The terms of the deal were not disclosed.⁴⁸
- *Jul 4th*: Renewables provider Zelestra has successfully achieved Financial Close of its Aurora project (220 MW Solar PV + 1 GWh BESS) in Chile, through a \$ 282M project financing package that has been agreed with Natixis CIB and BNP Paribas, with a VAT facility granted by BCI. Zelestra has 7 GW+ portfolio of Latin American sites including solar, wind, and energy storage projects at various stages of development. Sungrow will supply the battery systems for the Aurora project with deliveries expected before end of year.⁴⁹
- *Jul 3rd*: The Green Climate Fund (GCF) has approved \$ 200M for a new Asian Development Bank (ADB)-led program which aims to unlock large-scale public and private investment in high-impact and emerging clean energy sectors in India. The concessional funding will support ADB's India Green Finance Facility (IGFF), a pioneering blended finance program that aims to crowd-in investment in emerging clean energy technologies from India's leading development finance institutions (DFIs) and from the private sector. Through this facility, ADB will seek to support lines of credit with qualifying national DFIs, which will be responsible for developing the pipeline of projects.⁵⁰

⁴³ <http://solarpowerportal.co.uk/solar-finance/cero-generation-secures-200-million-to-build-360mw-uk-solar-and-storage-portfolio>

⁴⁴ <https://www.iberdrola.com/press-room/news/detail/iberdrola-signs-2-5-billion-credit-line-32-international-banks>

⁴⁵ <https://list.solar/news/green-genius-20/>

⁴⁶ <https://www.baywa-re.com/en/news/baywa-r-e-implements-comprehensive-financing-package>

⁴⁷ <https://www.agpgroup.com/insights/ampyr-achieves-financial-close-of-wellington-stage-1-bess/>

⁴⁸ https://www.linkedin.com/posts/mirai-power_were-excited-to-share-that-weve-entered-activity-7346455946149163008-JrZY/

⁴⁹ <https://zelestra.energy/zelestra-secures-a-282-million-green-financing-package-for-the-aurora-hybrid-1-gwh-bess-220-mwdc-solar-project-in-chile/>

⁵⁰ <https://www.adb.org/news/adb-and-gcf-partner-launch-clean-energy-financing-program-india>

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- *Jul 2nd*: Atmos Renewables announced that the financial close of the Merredin BESS (100 MW / 400 MWh) has been achieved, marking a significant milestone as the company's first greenfield development to enter the construction phase, and its first BESS project. The project is located near Merredin, Australia. Construction will be led by GenusPlus Group, and the project will utilize Tesla Megapacks.⁵¹
- *Jul 2nd*: Opdenenergy, an independent renewable energy producer, has closed a new corporate debt facility of € 350M senior bonds with a group of bondholders led by EIG, a leading institutional investor in the global energy and infrastructure sectors, and Infranity, one of the largest infrastructure investment specialists. With this new corporate debt facility, Opdenenergy secures additional capital to support its efforts to accelerate the execution of its business plan, reinforce its position in the renewable energy sector, and continue its growth as a consolidated large-scale Independent Power Producer (IPP) in Europe, the United States, and Latin America.⁵²
- *Jul 1st*: Globeleq, a leading independent power company in Africa, and its project partner, African Rainbow Energy, have reached financial close on the 153 MW / 612 MWh Red Sands battery energy storage project (BESS) in South Africa. The project is Africa's largest standalone BESS facility to reach financial close. Globeleq and African Rainbow Energy raised approximately ZAR 5.4B (~USD 300M) in debt financing from Absa and Standard Bank. China Energy Engineering Corporation has been selected as the engineering and procurement contractor, with the BESS technology and long-term service agreement provided by Sungrow.⁵³

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Fractal provides energy storage due diligence services for assets, projects, portfolios, and platforms, supporting project finance, construction lending, acquisition, and investment or tax equity transactions. Our two-part process includes a red flag report and a consolidated confirmatory diligence report to de-risk the potential investment or acquisition of early-stage, late-stage, or operating assets. Our team of SMEs can quickly identify commercial gaps and assess risk across revenues, costs, technical design, and all agreements.

Contact us today for more information about financial, technical, and commercial due diligence services.



MOU and Partnerships

United States

- *Jul 30th*: Fermi America, in collaboration with the Texas Tech University System, has taken a significant step by announcing an MOU with South Korea's Hyundai Engineering & Construction. This partnership aims to plan and develop the nuclear component for what is set to be the world's largest and first-of-its-kind private power grid explicitly designed to support next-generation AI. The two companies signed the MOU in Seoul, South Korea, outlining the key terms for their collaboration. Together, they will design and implement the delivery of safe, clean nuclear power as part of this extensive private grid project. The initiative will also incorporate combined-cycle natural gas, grid power, solar energy, and battery storage, with the capacity to deliver up to 11 GW of power, along with the essential infrastructure for data centers.⁵⁴

⁵¹ <https://atmosrenewables.com.au/merredin-bess-reaches-financial-close/>

⁵² <https://opdenenergy.com/en/2025/07/02/opdenenergy-closes-a-e500-million-corporate-debt-facility-led-by-eig-and-infranity/>

⁵³ <https://www.prnewswire.com/news-releases/globeleqs-red-sands-battery-energy-storage-project-reaches-financial-close-302495262.html>

⁵⁴ <https://www.prnewswire.com/news-releases/fermi-america-to-partner-with-hyundai-engineering--construction-to-develop-nuclear-component-of-worlds-largest-first-of-its-kind-private-grid-for-next-generation-ai-302517759.html>

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International

- *Jul 31st*: Echogen Power Systems announced that its strategic partner, Westinghouse Electric Company, has signed a Memorandum of Understanding (MOU) with Vodohospodárska Výstavba (VVB) to plan the development of Europe's first grid-scale pumped thermal energy storage (PTES) system in Slovakia. Echogen's PTES technology uses an electrically driven heat pump to convert electricity into a stored thermal differential, which is later transformed back into electricity using a high-efficiency heat engine.⁵⁵
- *Jul 28th*: Czech chemical company Bochemie, battery manufacturer GAZ GmbH, and energy trading firm Second Foundation are collaborating on an investment to establish a production line for large-format containerized batteries. Currently, CATL cells are imported from China and assembled into packs by Hyperstrong. However, the companies are also exploring contracts with additional cell suppliers. The new facility is set to be built in Bohumín, with plans for setup in August and testing in September. The first deliveries of the batteries are expected before the end of this year. By early 2026, the production line is projected to have an annual capacity of 2 GWh. Additionally, Second Foundation has acquired a 50 percent stake in Bochemie.⁵⁶
- *Jul 22nd*: Trina Storage, the energy storage division of Trina Solar, and Lithuanian EPC Stiemio are partnering to deploy multi-gigawatt-hour (GWh) of BESS across Lithuania and Eastern Europe over the next two to three years. The initial phase involves three projects in Lithuania, totaling 180 MWh, with deliveries starting in December 2025 and commercial operation expected by mid-2026.⁵⁷
- *Jul 21st*: NTPC Renewable Energy Limited (NTPC REL), a wholly owned subsidiary of NTPC Green Energy Limited (NGEL), has entered into an MOU with the Goa Energy Development Agency (GEDA) to jointly develop renewable energy projects in the state of Goa, India. The collaboration will focus on setting up 300 MW or more of renewable energy capacity, with or without ESS, aimed at supporting the state's clean energy goals.⁵⁸
- *Jul 18th*: SK On, a battery producer from South Korea, has entered into an MOU with fellow South Korean firm L&F, which specializes in cathode materials, to secure supplies of LFP (Lithium Iron Phosphate) cathode materials. This alliance addresses the rising international demand for LFP batteries, allowing SK On—previously centered on manufacturing batteries for electric vehicles—to broaden its reach into the ESS sector.⁵⁹
- *Jul 16th*: Envision Energy, a battery storage integrator, has announced a framework agreement with FERA Australia to advance a project that will provide 1 GW of wind energy and 1.5 GWh of energy storage in Australia. This agreement, signed during the Australia Energy Wind Conference in Melbourne, is the first of its kind in the country. It established a framework for developing projects that could deliver up to 1 GW of wind generation capacity and 1.5 GWh of battery energy storage.⁶⁰
- *Jul 14th*: Masdar has signed an MOU with EnBW Energie Baden-Württemberg AG to jointly explore the development of ESS, offshore wind, and green hydrogen across Europe, marking a bold expansion of the UAE-based clean energy player's footprint into Germany and the United Kingdom.⁶¹

⁵⁵ <https://www.prnewswire.com/news-releases/echogen-technology-to-enable-europes-first-grid-scale-pumped-thermal-energy-storage-system-in-slovakia-302518850.html>

⁵⁶ <https://www.ess-news.com/2025/07/28/new-battery-manufacturer-with-european-software-gaz-energy-builds-factory-in-czech-republic/>

⁵⁷ <https://static.trinasolar.com/eu-en/resources/newsroom/eu-trina-storage-and-stiemio-launch-strategic-partnership-deploy-gwh-scale-bess>

⁵⁸ <https://manufacturing.economictimes.indiatimes.com/news/energy/ntpc-rel-signs-agreement-with-geda-for-renewable-energy-projects-in-go/122813464>

⁵⁹ <https://www.koreatimes.co.kr/business/companies/20250711/sk-on-signs-lfp-cathode-material-supply-deal-with-lf-for-us-ess-market>

⁶⁰ <https://www.prnewswire.com/news-releases/envision-energy-partners-with-fera-australia-to-advance-1gw-wind-and-1-5gwh-energy-storage-in-australia-302507565.html>

⁶¹ <https://fuelcellworks.com/2025/07/14/clean-energy/masdar-and-enbw-to-develop-offshore-wind-battery-storage-and-green-hydrogen-projects-in-uk-and-germany>

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- *Jul 2nd*: Storage integrator Trina Storage and Lithuanian EPC Stiemio have formed a partnership to deploy “several GWh” of BESS across Lithuania and neighboring countries over the next three to five years. The first supply agreement included three 30 MW / 60 MWh BESS supply agreements.⁶²
- *Jul 1st*: HyperStrong, a global leading provider of BESS solutions, and Repono AB, a European developer of large-scale energy storage projects, have formalized their strategic collaboration through a Partnering Agreement on 23 June, aimed at jointly advancing 1.4GWh grid-scale energy storage projects across Europe by 2027. The strategic partnership brings together complementary skills necessary for the rapid and large-scale deployment of electricity storage. Repono's project development expertise, including site development, permitting, and grid interconnection, will be complemented by HyperStrong's full-scope system integration capabilities, including BESS solution delivery and associated lifecycle services.⁶³

Recent Project and Development Announcements

United States

- *Jul 31st*: Renewables developer and IPP Arevon Energy, Inc., announced the start of construction for its Nighthawk Energy Storage Project (300 MW / 1,200 MWh BESS) in Poway, California. In 2021, Arevon signed a long-term contract under which Nighthawk will provide energy and resource adequacy to Pacific Gas and Electric Company (PG&E). The project will connect to the grid at the Sycamore Canyon Substation located on the Marine Corps Air Station (MCAS) Miramar, which distributes energy to the greater San Diego area.⁶⁴
- *Jul 31st*: Lightshift Energy, in partnership with Wakefield Municipal Gas and Light Department (WMGLD) and the Massachusetts Municipal Wholesale Electric Company (MMWEC) announced the commercial operation of a 5 MW BESS that will power two Wakefield high schools and operate as a resilient, grid-connected microgrid. This is the third project in a broader Lightshift-MMWEC partnership to bring ESS to many of the joint action agency's member utilities.⁶⁵
- *Jul 31st*: Georgia Power announced that it has requested certification from the Georgia Public Service Commission (PSC) of new resources totaling approximately 9,900 MW to meet the energy needs of a growing Georgia. The majority of resources were chosen from bids submitted in a request for proposals (RFP) process. The request includes PPAs from existing resources, as well as new company-owned natural gas generation, BESS, and BESS plus solar identified through the competitive RFP process. In the filing, the company is seeking approval of 10 new BESS facilities strategically placed on eight sites throughout the state with a total capacity of 3,022.5 MW. New BESS facilities, under construction, submitted to the Georgia PSC include:
 - Bowen Phases 1 & 2 (Bartow County): 500 MW BESS located at Plant Bowen.
 - Hammond Phase 2 (Floyd County): 192.5 MW BESS. Phase 2 is an expansion of the 57.5 MW Hammond Phase 1 BESS currently under construction.
 - McIntosh (Effingham County): 250 MW BESS located at Plant McIntosh.
 - South Hall (Hall County): 250 MW BESS.
 - Thomson (McDuffie County): 500 MW BESS.
 - Wadley (Jefferson County): 260 MW BESS paired with solar under contract with the company.

⁶² <https://list.solar/news/trina-storage-5/>

⁶³ <https://www.prnewswire.com/news-releases/hyperstrong-and-repono-forge-strategic-collaboration-to-advance-grid-scale-battery-energy-storage-projects-in-europe-302495484.html>

⁶⁴ <https://www.prnewswire.com/news-releases/arevon-celebrates-construction-proceedings-at-its-300-megawatt-1-200-megawatt-hour-nighthawk-energy-storage-project-in-california-302518268.html>

⁶⁵ <https://www.businesswire.com/news/home/20250731802316/en/Lightshift-Energy-and-Wakefield-Municipal-Gas-Light-Commission-Energy-Storage-Microgrid-to-Keep-Schools-Powered-During-Outages>

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- Wansley (Heard County): 500 MW BESS located at Plant Wansley.
- Yates (Coweta County): 570 MW total for two BESS located at Plant Yates.

Newly announced BESS plus solar facilities submitted to the Georgia PSC include:

- Laurens County: 200 MW of solar with a 200 MW BESS.
- Mitchell (Dougherty County): 150 MW of solar with a 150 MW BESS near the site of former coal-fired Plant Mitchell.

In addition to the projects above, this filing includes eleven additional PPAs totaling 2,821 MW which would allow the company to purchase generation from a mix of new BESS facilities being constructed in Georgia and natural gas generation facilities.⁶⁶

- *Jul 31st*: Energy Vault Holdings Inc. (Energy Vault), a leader in sustainable, grid-scale energy storage solutions, announced that the Calistoga Resiliency Center, in northern California, has received approval from the California Public Utilities Commission (CPUC) to pursue market-based participation in the California Independent System Operator (CAISO) energy markets. The Calistoga Resiliency Center (CRC) is a hybrid energy storage facility that couples two commercial clean energy technologies: hydrogen fuel cells and lithium-ion batteries. The 293 MWh system is designed to provide 48 hours of continuous energy, and a peak instantaneous power output of 8.5 MW during regional Public Safety Power Shutoff (PSPS) events.⁶⁷
- *Jul 31st*: Battery storage platform SMT Energy announced it has energized its SMT Dallas project (10 MW / 15 MWh BESS) within the City of Dallas. The project was constructed by Irby Construction and Flex-Gen.⁶⁸
- *Jul 30th*: esVolta, LP (esVolta), a leading developer, owner, and operator of utility-scale battery energy storage projects across the U.S., announced that a portfolio of three Texas-based battery energy storage projects has begun operations. The 300 MWh Desert Willow project and the 480 MWh Anole project are near Dallas and the 200 MWh Burksol is in West Texas. Collectively, the portfolio will provide nearly 1 GWh of energy and 490 MW of peak power – roughly 4% of ERCOT's anticipated 12.2 GW of storage capacity as of July 2025.⁶⁹
- *Jun 30th*: Renewables developer and IPP Arevon Energy, Inc. hosted a ribbon-cutting ceremony to celebrate its Peregrine Energy Storage Project (200 MW / 400 MWh BESS) in operation in San Diego. Peregrine Energy Storage is Arevon's fifth completed utility-scale energy storage facility in California. The project, located in the Barrio Logan community, became operational in June.⁷⁰
- *Jul 22nd*: Ingeteam has completed the commissioning of the Hale Kuawehi (120 MW Solar PV + 120 MWh BESS) project in Waimea, on the island of Hawaii. The project is under a 25-year PPA with Hawaii Electric Light Company (HECO).⁷¹
- *Jul 18th*: Xcel Energy has announced new generation resource additions as part of an overall portfolio to meet the rapidly rising energy needs of its Texas and New Mexico service area. The portfolio includes extensions of 521 MW of existing generation as well as the addition of 17 new power projects that will add 5,168 MW of new nameplate capacity to the region's generation fleet by 2030. Technologies selected include 3,200 MW of dispatchable generation and energy storage and 1,968 MW of wind and solar facilities, establishing the foundation for long-term system reliability, economic development, and a resilient energy

⁶⁶ <https://www.prnewswire.com/news-releases/georgia-power-requests-certification-of-approximately-9-900-mw-of-new-resources-from-the-georgia-public-service-commission-302518734.html>

⁶⁷ <https://www.businesswire.com/news/home/20250731454783/en/Energy-Vaults-Calistoga-Resiliency-Center-Receives-CPUC-Approval-for-Participation-in-CAISO-Market>

⁶⁸ <https://www.prnewswire.com/news-releases/smt-energy-energizes-first-standalone-battery-energy-storage-project-in-the-city-of-dallas-302518047.html>

⁶⁹ <https://www.prnewswire.com/news-releases/esvolta-brings-three-large-scale-storage-projects-on-line-in-texas-meeting-2025-summer-peak-302517631.html>

⁷⁰ <https://www.prnewswire.com/news-releases/arevon-hosts-ribbon-cutting-event-to-celebrate-operations-at-its-200-megawatt-peregrine-energy-storage-project-in-san-diego-302517228.html>

⁷¹ <https://www.ingeteam.com/Pressroom/Corporate/tabid/1574/articleType/ArticleView/articleId/3728/Ingeteam-Completes-Commissioning-of-a-Hybrid-Solar-Battery-Project-in-Hawaii.aspx>

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supply.⁷²

- *Jul 14th*: DESRI, in partnership with El Paso Electric (EPE), announced that the Santa Teresa Solar and Storage project has achieved financial notice to proceed (FNTP) and commenced construction. Santa Teresa is a 150 MW_{ac} solar facility with a 600 MWh BESS located in Doña Ana County, New Mexico. LG Energy Solution Vertech will provide U.S.-made BESS and software suite for the project with continuous support through a long-term service agreement. SOLV Energy will serve as the engineering, procurement, and construction (EPC) contractor for the Project and will also provide ongoing operations and maintenance services once the Project is operational.⁷³
- *Jul 11th*: The Minnesota Public Utilities Commission has approved two solar projects with a combined capacity of 475 MW, which includes a BESS. The Iron Pine Solar Project received a site permit for a 325 MW solar energy facility, which will be located on over 1,500 acres in Kettle River Township, Pine County. The Northern Crescent Solar Project, proposed by Primergy Solar, is expected to generate up to 150 MW and will incorporate a 50 MW battery storage system. A final interconnection agreement for this project is anticipated by late 2025.⁷⁴
- *Jul 8th*: Utility-scale developer NuQuest Energy II, LLC, announced the strategic marketing launch of its high-value greenfield data center and battery storage portfolio. This initiative aims to secure long-term operating partners for a robust collection of projects, building on NuQuest Energy II's proven track record, including the successful development of 2.2 Gigawatts of solar in MISO-South. NuQuest Energy II's new portfolio features four greenfield data center sites in MISO-South, strategically chosen for their access to a stable, robust power grid with ample capacity and highly competitive electricity rates. Complementing these are two advanced battery storage sites in the Permian Basin, Texas, designed to enhance grid reliability and optimize energy delivery.⁷⁵
- *Jul 7th*: Recurrent Energy, a subsidiary of Canadian Solar Inc. (Canadian Solar), and a leading global developer, owner, and operator of solar and energy storage assets announced that the 1,200 MWh Papago Storage facility in Maricopa County, Arizona, has reached commercial operation. Papago Storage is the first of three Recurrent Energy projects with tolling agreements in place with APS to become operational. Collectively, the three projects will provide 1,800 MWh of battery storage capacity and 150 MW_{ac} of solar generation.⁷⁶

International

- *Jul 31st*: The Philippines Energy Regulatory Commission (ERC) has approved Scatec ASA's JV with Aboitiz Power (SNAP) in the Philippines to receive payments at the 2023 awarded rate of 2.25 PHP/kWh (up from 1.5 PHP/kWh) for its long-term ancillary services (AS) contingency reserve contracts. Scatec began deliveries in September 2023 at the lower rate, pending regulatory approval for the higher rate. The new rate takes effect in July 2025, with past dues, totaling about NOK 231M, to be paid over the next 12 months. This retroactive revenue will be recorded in Q2 2025.⁷⁷
- *Jul 31st*: A consortium composed of five international and Vietnamese companies has proposed an investment in an energy storage battery plant located in the Saigon High-Tech Park (SHTP) in Ho Chi Minh

⁷² <https://www.businesswire.com/news/home/20250718625722/en/Xcel-Energy-Announces-Portfolio-of-New-Power-Projects-to-Meet-Growing-Demand-in-Texas-and-New-Mexico>

⁷³ <https://www.prnewswire.com/news-releases/desri-and-el-paso-electric-announce-start-of-construction-at-santa-teresa-solar--storage-facility-in-dona-ana-county-nm-302504504.html>

⁷⁴ <https://govmarketnews.com/minnesota-puc-approves-new-energy-projects-in-475-mw-grid-strengthening-effort/>

⁷⁵ <https://www.businesswire.com/news/home/20250708841012/en/NuQuest-Energy-II-Unveils-High-Value-Data-Center-and-Battery-Storage-Portfolio-to-Strategic-Partners>

⁷⁶ <https://www.prnewswire.com/news-releases/recurrent-energy-energizes-1-200-mwh-storage-facility-in-arizona-ahead-of-peak-summer-demand-302498606.html>

⁷⁷ <https://solarquarter.com/2025/07/31/scatec-secures-approval-for-ancillary-services-rate-in-the-philippines-with-retroactive-implementation/>

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City. The total investment is projected to be \$ 850M. This DCH consortium includes Dai Dung Corporation, Construction Corporation No. 1 (CC1), and Hoa Phat Group, along with international partners China Construction Eighth Engineering Division Corp., Ltd. (CCEED) and Smart Tech Group Vietnam (STG VN). The facility will initially have a capacity of 5 GWh in its first phase, with plans to increase capacity in subsequent phases. Construction is expected to begin in 2026, with completion scheduled for 2028.⁷⁸

- *Jul 31st*: RWE has secured environmental approval for its Los Durmientes solar and storage project in Chile. The project, located in the Antofagasta region, includes a 243.6 MW solar farm and a 255.4 MW / 1,277 MWh BESS. This project is part of RWE's broader 2.5 GW portfolio of wind and solar projects under development in Chile.⁷⁹
- *Jul 31st*: The Western Australian (WA) state-owned Southwest Interconnected System (SWIS) network operator, Western Power, has extended two new connection offers to major renewable energy projects. These include the 100 MW 4-hour Merredin BESS, located about 230 kilometers east of Perth, and the initial phase of the Waroona Renewable Energy Project, situated 120 kilometers south of Perth. In the 2024/25 period, a total of seven new generators received network access offers, encompassing BESS as well as wind and solar farms, adding a combined 759 MW of clean energy to the network.⁸⁰
- *Jul 31st*: Stellantis Slovakia has obtained an official waiver from Environmental Impact Assessment (EIA) requirements for a proposed 25 MW / 49.74 MWh BESS at its Stellantis Trnava Plant, an automotive production site located in western Slovakia, approximately a 40-minute drive from Bratislava. The setup will comprise 10 battery containers and 10 transformer/inverter containers, engineered to work alongside a planned nearly 36 MW photovoltaic (PV) system. The electricity generated will mainly serve on-site needs, with any excess fed into the grid.⁸¹
- *Jul 30th*: Merus Power announced that its largest BESS to date, 38 MW / 43 MWh, has achieved successful operations in Lappeenranta, Finland. The energy storage facility is owned by a JV between Ardian's Clean Energy Evergreen Fund and the local energy provider Lappeenranta Energia. It is one of the largest energy storage facilities in use on the Finnish electricity market.⁸²
- *Jul 30th*: Swedish renewables company OX2 was awarded a federal environmental permit for its Summerville project (90 MW Solar PV + 90 MW / 360 MWh BESS) near Lismore in northern New South Wales (NSW). The facility will connect to the National Electricity Market via and a short underground connection to Transgrid's existing 132 kV Lismore to Koolkhan transmission line located to the southeast of the site. OX2 expects construction of the solar farm to start in early 2027 at the latest, and operations to commence in 2028.⁸³
- *Jul 30th*: EnBW, a German utility company, is planning to construct one of the country's largest battery storage systems at the former Philippsburg nuclear power plant site in Baden-Württemberg. The system will have a power output of 400 MW and a storage capacity of 800 MWh. The project is slated for completion by late 2027, pending regulatory approvals.⁸⁴
- *Jul 29th*: Jinko ESS, a subsidiary of Jinko Energy Co., Ltd., recently announced the successful completion and grid connection of a 3.8 MWh large-scale energy storage project in Hungary, developed in collaboration with SolarToday. Commencing on-site construction on May 26, this project marks Jinko ESS's first operational venture in Hungary.⁸⁵

⁷⁸ <https://theinvestor.vn/consortium-proposes-850-mln-energy-storage-battery-plant-in-southern-vietnam-d16512.html>

⁷⁹ <https://www.rwe.com/en/the-group/countries-and-locations/rwe-in-chile/>

⁸⁰ <https://www.westernpower.com.au/news/milestone-for-large-scale-renewable-projects/>

⁸¹ <https://etasr.sk/article/22283239>

⁸² <https://www.globenewswire.com/news-release/2025/07/03/3109677/0/en/One-of-Finland-s-largest-energy-storage-facilities-commissioned-in-Lappeenranta-Merus-Power-s-EUR-15-million-delivery-completed.html>

⁸³ <https://reneweconomy.com.au/swedish-developer-gets-green-light-for-solar-and-battery-hybrid-drops-another-in-federal-queue/>

⁸⁴ <https://www.enbw.com/press/philippsburg-battery-storage-project.html>

⁸⁵ <https://www.solarbeyond.com/jinko-ess-and-solartoday-successfully-commission-energy-storage-system-in-hungary/>

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- *Jul 29th*: The Tamil Nadu Power Generation Corporation (TNPGL) plans to launch a 200 MW BESS pilot at the North Chennai Thermal Power Station. Authorities expect the BESS to minimize financial losses by avoiding the frequent shutdown and restart of thermal units, which takes 10–12 hours. Pending approval from the Tamil Nadu government and Green Energy Corporation, the project will be implemented under the Viability Gap Funding (VGF) scheme, requiring a PPA with the distribution company.⁸⁶
- *Jul 28th*: Irish renewables developer DP Energy announced its Windy Plains Renewable Energy Park (1,400 MW wind farm + 500 MW / 2,000 MWh BESS), in the state of Queensland, Australia. The project is currently in the feasibility stage.⁸⁷
- *Jul 25th*: RWE, the UK's leading power generator, has received planning permission for its Byers Gill Solar Farm (180 MW Solar PV + 180 MW BESS) located near Stockton and Darlington in the UK. RWE has 11 solar projects under construction in the UK and earlier this month marked the energization of its first UK solar site, Langford. Together, these construction and operational projects total 577 MW alongside 105 MW of co-located battery storage.⁸⁸
- *Jul 24th*: The initial phase of China's largest standalone battery energy storage project, the Huadian Xinjiang Kashgar project, was successfully connected to the grid on July 19. This first phase has a capacity of 500 MW and 2 GWh, and is designed to be expanded to 1 GW / 4 GWh. The project is located in Kashgar, Xinjiang, and is a key part of China's efforts to develop a green energy corridor.⁸⁹
- *Jul 24th*: Energiewerkung Beckum (evb), Westenergie and E.ON Energy Solutions (ESY) are jointly developing a new 20 MW / 55 MWh BESS which is expected by the end of 2025. The Munich-based company Entrix will be responsible for optimizing and marketing the battery storage system. The Entrix "FloorPlus" revenue model will be used for the first time in Germany as part of the project. DB Energie, a subsidiary of Deutsche Bahn, will take over the day-ahead flexibility for 10 years and guarantee evb fixed payments for defined capacities. This creates a stable revenue corridor that offers greater planning security and, therefore, also facilitates financing.⁹⁰
- *Jul 23th*: Edify Energy announced that its Koorangie Energy Storage System (185 MW / 370 MWh BESS) near the Gannawarra region of northwest Victoria, has achieved successful operations. Consolidated Power Projects (CPP) utilized Tesla Megapacks as the EPC. The project has a 20-year System Support Agreement with the Australian Energy Market Operator (AEMO) and a 15-year offtake agreement with Shell Energy.⁹¹
- *Jul 23rd*: Apatura has obtained development approval for a 560 MW / 1.12 GWh BESS near Glasgow, Scotland. This recent authorization brings the UK energy storage developer's total approved capacity to 2.1 GW of BESS across central Scotland, measured by power output. This approval comes on the heels of earlier successes, with Apatura gaining planning consent for two additional battery storage projects: a 100 MW / 200 MWh initiative in Killwinning, North Ayrshire in May, and a 50 MW / 100 MWh project at East Kilbride in April.⁹²

⁸⁶ <https://www.projectstoday.com/News/TNPGL-to-launch-200-MW-battery-energy-storage-pilot-at-North-Chennai-Thermal-Plant>

⁸⁷ <https://dpenergy.com/dp-energy-announces-plans-to-develop-1400-mw-wind-farm-in-queensland-australia/>

⁸⁸ <https://www.rwe.com/en/press/rwe-renewables-europe-australia/2025-07-23-rwe-secures-consent-for-byers-gill-solar-bess/>

⁸⁹ <https://www.prnewswire.com/apac/news-releases/the-largest-independent-energy-storage-power-station-in-southern-xinjiang-has-successfully-achieved-its-initial-grid-connection-302512960.html>

⁹⁰ <https://www.entrixyenergy.com/en/a-new-revenue-model-for-battery-storage-systems-launched-with-deutsche-bahn-and-energieversorgung-beckum/>

⁹¹ <https://edifyenergy.com/energy-storage-systems/koorangie-battery-powers-up-unlocking-renewable-energy-in-victorias-murray-river-region/>

⁹² <https://www.scottishconstructionnow.com/articles/apatura-wins-planning-consent-for-560mw-battery-storage-system-at-clydebank>

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- *Jul 21st*: Galileo Empower, a JV between Empower Renewables, based in Dublin, and Galileo Green Energy, has received planning permission from the West Lothian Development Management Committee for a 49.9-MW BESS at Middelrigg Farm in West Lothian. The company aims to develop a total of 10 GW of renewable energy and storage projects across northern Europe by 2030, with additional sites in Scotland currently under review.⁹³
- *Jul 18th*: AMEA Power has commissioned a 300 MWh Solar storage facility, Egypt's first-ever utility-scaled BESS, and its first storage project in North America. Financed by IFC, this battery storage facility will be an extension of AMEA Power's 500MW Solar PV Plant in Aswan Governorate, Egypt's largest operational single site Solar PV plant.⁹⁴
- *Jul 18th*: The Costești hydroelectric power plant, located in Moldova near the Romanian border, aims to double its capacity by utilizing renewable energy sources. The state-owned Costești Hydropower Node enterprise has presented feasibility studies for a floating photovoltaic park and a wind farm, each with a capacity ranging from 5-10 MW, as well as energy storage batteries. These projects will be financed using the enterprise's internal resources and will be submitted for approval to the Board of Directors.⁹⁵
- *Jul 17th*: AboitizPower is constructing a 30 MW hybrid BESS in the Mactan Economic Zone, Cebu, through its subsidiary, East Asia Utilities Corporation (EAUC). This project, set to be commissioned in the first half of 2026, will be among the first large-scale energy storage facilities in Central Visayas.⁹⁶
- *Jul 17th*: The International Centre for Integrated Mountain Development (ICIMOD) and the International Solar Alliance (ISA) have signed an MOU to enhance cooperation in the expansion of solar energy solutions throughout the Hindu Kush region of the Himalayas and its member countries.⁹⁷
- *Jul 17th*: Swedish developer OX2 has submitted plans for its Sunshine State Solar Farm (128 MW Solar PV + 128 MW / 256 MWh BESS) proposed for Queensland to the federal government for assessment under the Environment Protection and Biodiversity Conservation (EPBC) Act. The project is located 50 km northwest of Townsville. Construction is anticipated to take 18 months.⁹⁸
- *Jul 17th*: lan-B Net Zero announced this week that it is securing locations across Germany for the future expansion of BESS. The company plans to build 280 MW of battery storage capacity to support the increasing integration of renewable energy sources into the grid. Initially, Plan-B Net Zero is acquiring sites for 100 MW of storage, where it intends to operate individual storage containers ranging from 15 MW to 25 MW each. Following this phase, the company plans to expand its capacity to 280 MW.⁹⁹
- *Jul 16th*: Eneco and EP NL have announced a joint investment in a 50 MW / 200 MWh battery storage project at the Enecogen power plant in the port of Rotterdam, Netherlands. The two energy companies, which each hold a 50% stake in Enecogen, expect the battery to be operational in 2027.¹⁰⁰
- *Jul 15th*: Hungarian electricity distribution system operator (DSO) OPUS TITÁSZ has commissioned four new BESS. The new storage systems have been installed in the towns of Rakamaz (2.75 MWh), Aranyosapáti (3.65 MWh), Csenger (6.9 MWh), and Nyírlugos (2.58 MWh). Together, the units have a total power output of 4.5 MW and a combined nominal storage capacity of 15.88 MWh.¹⁰¹

⁹³ <https://list.solar/news/galileo-empowers/>

⁹⁴ <https://www.ameapower.com/amea-power-successfully-commissions-landmark-battery-energy-storage-system-in-egypt-following-successful-financial-close/>

⁹⁵ <https://logos-pres.md/en/news/kostesti-hpp-plans-to-double-its-generating-capacity/>

⁹⁶ <https://aboitizpower.com/news/bess/aboitizpower-to-construct-30-mw-bess-project-in-mactan-economic-zone>

⁹⁷ <https://www.icimod.org/press-release/international-solar-alliance-and-icimod-join-hands-to-accelerate-solar-energy-deployment-in-the-hindu-kush-himalaya/>

⁹⁸ <https://www.pv-magazine-australia.com/2025/07/21/ox2-seeks-green-tick-for-sunshine-state-solar-and-battery-project/>

⁹⁹ <https://renewablesnow.com/news/plan-b-net-zero-plans-to-add-280-mw-of-bess-in-germany-1278651/>

¹⁰⁰ <https://www.epholding.cz/en/press-releases/eneco-and-ep-nl-invest-in-200-mwh-battery-storage-project-at-enecogen-in-rotterdam-port/>

¹⁰¹ <https://ceenergynews.com/electricity/opus-titasz-commissions-four-new-grid-integrated-energy-storage-systems/>

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- **Jul 15th:** Australian developer Bid Energy Partners has revealed intentions to build the Kiar Energy Storage project (1 GW / 4 GWh) in Kiar, located on the NSW Central Coast. The initiative will undergo evaluation under the federal Environment Protection and Biodiversity Conservation (EPBC) Act and has been lodged with the NSW Major Project Portal. Construction is slated to start in 2026, pending the approval process, with Bid expecting the BESS to be operational by late 2027 or early 2028.¹⁰²
- **Jul 14th:** Developer Edify Energy is seeking approval under the Australian federal government's Environment Protection and Biodiversity Conservation (EPBC) Act for its Nowingi Solar Power Station (300 MW Solar PV + 300 MW / 2,400 MWh BESS) in Northern Victoria, Australia. The developer aims to start construction in 2026.¹⁰³
- **Jul 14th:** NLC India Ltd (NLCIL), a prominent public sector enterprise, has announced an ambitious capital expenditure plan worth Rs 1.25 lakh crore to be executed by 2030. The strategic move aims to scale up its total power generation capacity from the current 6.7 gigawatts (GW) to 20 GW over the next five years, with renewable energy emerging as the central focus of this expansion. This includes a dedicated Rs 15,000 crore earmarked for BESS.¹⁰⁴
- **Jul 14th:** Eco Stor has announced the start of construction for its Förderstedt project (300 MW / 714 MWh BESS) in Förderstedt, Germany. The project was awarded a grid connection from transmission system operator 50 Hertz. The project is being developed and built by Eco Stor's subsidiary, Eco Power Three GmbH, and will be commissioned in 2026.¹⁰⁵
- **Jul 14th:** AustriaEnergy Chile Nueve has submitted an Environmental Impact Study (EIA) for the "Sol de Algarrobal" project (390.7 MW Solar PV + 450 MW / 2,160 MWh BESS). The Sol de Algarrobal project will be located in the Atacama region of Chile.¹⁰⁶
- **Jul 11th:** DTEK and Fluence have initiated the commissioning phase of Ukraine's largest BESS, a 200 MW / 400 MWh project distributed across six sites. This installation, one of the biggest in Eastern Europe, is expected to be fully operational by October, just in time for the winter season. The project is designed to provide crucial power balancing and reserve capacity to the Ukrainian grid, enhancing its resilience and reliability.¹⁰⁷
- **Jul 10th:** Independent renewable energy company Qair has received planning permission for a 49.9 MW standalone BESS in Aberdeenshire, Scotland. This milestone marks Qair's first consented standalone BESS project in the UK, marking a significant step in establishing its presence in the country's growing clean energy sector. The newly approved project builds on Qair's expanding UK footprint, following the successful consent of over 140 MW of solar capacity across the country in the past 18 months.¹⁰⁸
- **Jul 10th:** Lucky Cement in Pakistan is installing the country's largest BESS, with a capacity of 20.7 MW / 22.7 MWh. This project, developed in partnership with Reon Energy, will be located at Lucky Cement's Pezu facility, where a 34 MW captive solar power plant is already in operation. The BESS will help manage the intermittency of solar power, provide spinning reserve, and potentially reduce reliance on fossil fuel generators.¹⁰⁹
- **Jul 9th:** IFC and IndiGrid have partnered to develop a 180 MW / 360 MWh standalone BESS project in Gujarat, India. As part of the agreement, IFC has committed long-term financing of INR 4.6B (approximately USD

¹⁰² <https://globaltransmission.info/bid-energy-proposes-1-gw-bess-project-in-australia/>

¹⁰³ <https://reneweconomy.com.au/approval-sought-for-solar-hybrid-project-with-biggest-8-hour-battery-in-australia/>

¹⁰⁴ <http://economictimes.indiatimes.com/industry/renewables/nlc-india-ltd-to-invest-rs-1-25-lakh-cr-capex-by-2030-bets-big-on-renewable-energy/articleshow/122416773.cms?from=mdr>

¹⁰⁵ <https://www.eco-stor.de/en/our%20storages/Project%20F%C3%B6rderstedt>

¹⁰⁶ <https://www.enerdata.net/publications/daily-energy-news/developer-presents-390-mw-solar-pv-and-450-mw-21-gwh-bess-project-chile.html>

¹⁰⁷ <https://dtek.com/en/media-center/news/dtek-and-fluence-start-commissioning-phase-of-ukraines-largest-battery-storage/>

¹⁰⁸ <https://www.qair.energy/qair-secures-first-planning-approval-for-50-mw-battery-energy-storage-project-in-the-uk/>

¹⁰⁹ <https://www.facebook.com/LuckyCementLimited/posts/lucky-cement-limited-has-initiated-a-project-to-install-pakistans-largest-batter/997055109133583/>

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55M) to IndiGrid. This includes around USD 38.5M from IFC's own account and an additional USD 16.5M in concessional funding provided by the Clean Technology Fund.¹¹⁰

- *Jul 8th*: Eolus, formerly Eolus Vind AB, secured its first Swedish battery site (100 MW) in SE4. The plot was won through a competitive process. The project will move into permitting. The developer recently sold its 400 MWh Pome project in California.¹¹¹
- *Jul 8th*: Danish renewable energy developer Copenhagen Energy has partnered with a local distribution company Thy-Mors Energi to build a 100 MW PV and BESS project in Ballerum, near Copenhagen. The greenfield project, developed by Copenhagen Energy, is at the ready-to-build stage and is scheduled for commissioning by 2028.¹¹²
- *Jul 8th*: Developer Green Flexibility and Allgäuer Überlandwerk announced successful operations of a 15 MW / 33 MWh BESS in Bavaria. The group stated that it is the largest BESS facility in Bavaria to date, with an investment of € 15M (\$ 17.6M). Earlier in the month, Green Flexibility also announced the start of construction on a 10 MW / 25 MWh BESS in Walkertshofen, Swabia, in the Augsburg district.¹¹³
- *Jul 4th*: China announced that construction was completed on the world's largest vanadium redox flow battery (VRFB) energy storage project in Jinusar county, Zinjiang. The project (1 GW Solar PV + 200 MW / 1 GWh VRFB) was backed by China Huaneng Group with an investment of ¥ 3.8B (\$ 520M). The project was developed by Huaneng Xinjiang Jimusar Power Co., with engineering and system integration done by PowerChina Northwest Engineering Corp. and battery systems supplied by Dalian Rongke Power.¹¹⁴
- *Jul 2nd*: Ignitis Group, a renewables-focused integrated utility, is starting the construction of BESS in Lithuania near Kelmė, Mažeikiai and Kruonis. The projects, totaling 291 MW / 582 MWh, will be the first utility-scale BESS projects in the country. The total investments into battery energy storage parks amount to around EUR 130M.¹¹⁵
- *Jul 1st*: Renewable Power Capital (RPC) and Greenfield have secured planning permission for a 49.9 MW BESS in the Vale of Glamorgan. This project, located near Cardiff, is the third BESS project approved for the partners in the UK and is part of a growing portfolio aimed at bolstering grid flexibility and supporting the UK's decarbonization goals. The project is expected to be constructed within 6-12 months and connected to the grid by 2030.¹¹⁶
- *Jul 1st*: Quinbrook Infrastructure Partners (Quinbrook) announced the successful completion of construction and the start of commercial operations of its Cleve Hill Solar Park (373 MW_p Solar PV + 150 MW BESS) in Kent, UK. Cleve Hill was the first solar and battery storage project to be consented as a Nationally Significant Infrastructure Project (NSIP).¹¹⁷
- *Jul 1st*: PowerChina announced the start of construction of the world's largest electrochemical energy storage project, located in Ulan Chab, Inner Mongolia. The project (1 GW / 6 GWh) will consist of 1,200 LFP battery containers, span 46.7 hectares, and is an investment of CNY 6B (\$ 833M). A JV between the China Hydroelectric 16th Bureau and Fujian Yongfu Electric Power Design Co. Ltd. is responsible for the design, procurement, construction, and operation of the facility.¹¹⁸

¹¹⁰ <https://www.ifc.org/en/pressroom/2025/ifc-and-indigrid-partner-to-build-india-s-largest-utility-scale-energy-storage-pro>

¹¹¹ <https://list.solar/news/eolus-lines-up/>

¹¹² <https://www.pv-tech.org/copenhagen-energy-thy-mors-energi-to-develop-100mw-solar-plus-storage-project-in-denmark/>

¹¹³ <https://www.energate-messenger.com/news/254180/net-neutral-large-scale-storage-facility-opened-in-bavaria>

¹¹⁴ <https://www.energycentral.com/intelligent-utility/post/news-china-completes-world-s-largest-vanadium-flow-battery-plant-g96trkVoQ2gi8XM>

¹¹⁵ <https://ignitisgrupe.lt/en/news/ignitis-group-starts-building-battery-energy-storage-parks-lithuania>

¹¹⁶ <https://www.renewablepowercapital.com/rpc-and-greenfield-secure-planning-permission-for-third-gb-bess-project-in-partnership-to-bolster-grid-flexibility/>

¹¹⁷ <https://www.quinbrook.com/news-insights/landmark-cleve-hill-solar-park-reaches-commercial-operations/>

¹¹⁸ <https://setpile.com/news/powerchina-breaks-ground-on-worlds-largest-power-generation-side-battery-storage-project>

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Grants and Funding News

United States

- *Jul 1st*: The U.S. Department of Energy's (DOE) Office of Electricity (OE) announced three storage technologies projects that will receive up to \$ 5M each to demonstrate the ability of energy storage to support critical facilities and infrastructure during a power outage or other emergency. Binghamton University and its partners will develop and demonstrate a Bio-Mineralized Lithium Mixed-Metal Phosphate grid-scale BESS in Endicott, NY. Inlyte and its partners will develop and demonstrate an iron and sodium long-duration ESS to improve energy resilience at the Alliance Redwoods site in Occidental, CA. Long Hill Energy Partners and its project team will develop and demonstrate Quino Energy's organic quinone flow battery to improve energy resilience at Los Angeles County's High Desert Regional Health Center (HDRHC) in Lancaster, CA. Each project was awarded \$5M in funding.¹¹⁹

International

- *Jul 30th*: The African Development Bank (AfDB) has committed \$ 1.2M to fund a feasibility study on Nigeria's BESS, a project aimed at strengthening the national grid and accelerating the country's transition to cleaner energy. The grant, provided through AfDB's Energy Transition Catalyst Program, was announced during the inaugural workshop for the study held on Wednesday in Abuja, as reported by the News Agency of Nigeria (NAN).¹²⁰

Vendor / OEM News

- *Jul 30th*: South Korea's LG Energy Solution (LGES) (373220.KS) has entered into a \$ 4.3B agreement to provide Tesla (TSLA.O) with batteries for ESS, according to an insider familiar with the arrangement, as the U.S. firm seeks to decrease its dependence on Chinese imports amid tariff pressures. The lithium iron phosphate (LFP) batteries will be sourced from LGES's manufacturing facility in Michigan, USA, the source revealed on the condition of anonymity due to the non-public nature of the details.¹²¹
- *Jul 30th*: Peak Energy, a U.S.-based company developing low-cost, giga-scale energy storage technology for the grid, announced the launch and shipment of its sodium-ion BESS for its first pilot project. Following the pilot, Peak Energy will deploy several hundred MWh of commercial-scale storage products to serve multiple IPP and hyperscale partners over the next two years, with further announcements anticipated this fall. Peak Energy is on track to fulfill its commitment to develop grid-scale battery supply chains, with its first U.S. cell factory under development and planned to start production in 2026. This news comes just one year after Peak raised its \$55M Series A and less than two years since launching from stealth in 2023.¹²²
- *Jul 30th*: Ore Energy, a Dutch startup specializing in iron-air long-duration energy storage, has revealed that it has successfully connected its iron-air battery system to the electrical grid in Delft, Netherlands. The pilot project marks the inaugural long-duration ESS to be both connected and installed within the European Union, as per the company. The setup is situated at The Green Village, a testing facility affiliated with Delft University of Technology.¹²³
- *Jul 24th*: CLOU, a BNEF Tier 1 ESS provider, has officially released its White Paper on Active Ventilation & Explosion-Proof System, offering an in-depth look into the company's next-generation fire safety architecture for ESS. The release follows the successful completion of a 59-hour and 10-minute Large-Scale Fire Test of

¹¹⁹ <https://www.energy.gov/oe/articles/doe-selects-15m-projects-advancing-energy-storage-and-critical-infrastructure>

¹²⁰ https://nairametrics.com/2025/07/30/afdb-commits-1-2-million-for-nigerias-battery-energy-storage-feasibility-study/#google_vignette

¹²¹ <https://www.reuters.com/business/energy/tesla-signs-43-billion-lges-battery-deal-source-says-reducing-china-reliance-2025-07-30/>

¹²² <https://www.prnewswire.com/news-releases/peak-energy-delivers-first-grid-scale-sodium-ion-battery-storage-system-in-the-us-302516766.html>

¹²³ <https://tech.eu/2025/07/30/ore-energy-connects-worlds-first-grid-connected-iron-air-battery-in-delft/>

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its 5 MWh Aqua C2.5 liquid-cooled BESS in April.¹²⁴

- *Jul 23rd*: GM and Redwood Materials expect to announce more details on their plans later in 2025.¹²⁵
- *Jul 22nd*: Trina Storage, a global leader of integrated BESS solutions, has successfully deployed and commissioned its Elementa 2 BESS at two utility-scale power plants in Japan's Gunma Prefecture. The project represents a key milestone for its growing footprint in APAC.¹²⁶
- *Jul 15th*: GoodWe have introduced their new storage solution for C&I applications, the high-voltage BAT series, available in rated capacities of 102.4 kWh and 112.6 kWh. Designed for integration with GoodWe's ET series hybrid inverters in the C&I range, the battery system currently pairs with the ET50kW model to form a one-stop 50 kW / 100 kWh C&I solar storage solution, ideal for small to medium-sized C&I installations.¹²⁷
- *Jul 10th*: Trina Storage, the energy storage division of global solar leader Trinasolar, has reached a significant milestone with more than 2.4 GWh of utility-scale storage capacity under execution across the Asia-Pacific region (excluding China) as of July 2025. Spanning Australia, Japan, Southeast Asia and South Asia, these deployments represent a substantial contribution to 16 GWh of new BESS capacity projected to be added in APAC (excluding China) in 2025.¹²⁸
- *Jul 3rd*: Indian battery manufacturer Pace Digitek Limited announced the inauguration of its manufacturing facility at 73-P, Bidadi Industrial Area, 2nd Phase, Sector-2, Bidadi, Karnataka, India for manufacturing BESS, which has been set up through its Subsidiary, Lineage Power Private Limited. The plant is expected to deliver 2.5 GWh of BESS per annum, extendable to another 2.5 GWh.¹²⁹
- *Jul 2nd*: Narada announced the upcoming mass production of its Center L Ultra liquid-cooled ESS. The system delivers a capacity of 6.25 MWh within a standard 20-foot container, making it suitable for energy storage applications with durations ranging from 2 to 8 hours. The system features an innovative dual-battery compatibility design, supporting both 783Ah and 587Ah battery models. Equipped with both compressor-based and natural cooling modes, the system can intelligently switch between them based on environmental temperature and operating conditions, reducing auxiliary power consumption by 30%.¹³⁰
- *Jul 1st*: Canadian battery startup Moment Energy has launched full-scale production at its new Metro Vancouver plant, manufacturing its "Luna BESS" solution that incorporates repurposed batteries from partners like Nissan and Mercedes-Benz. Moment's existing systems generally span from 400 kWh to 5 MWh. The company is also working on a larger system in collaboration with Hydro Ottawa. Additionally, Moment is extending its reach into the US with a new facility in Taylor, Texas, backed by \$ 15M in Series A funding and a \$ 20.3M grant from the U.S. Department of Energy.¹³¹

¹²⁴ <https://www.prnewswire.com/news-releases/clou-releases-white-paper-on-active-ventilation--explosion-proof-system-following-landmark-59-hour-large-scale-fire-test-302513070.html>

¹²⁵ <https://news.gm.com/home.detail.html/Pages/news/us/en/2025/jul/07/16-GM-Redwood-Materials-pursue-use-US-built-batteries-energy-storage.html>

¹²⁶ <https://solarquarter.com/2025/07/22/trina-storage-strengthens-apac-footprint-with-japan-based-dual-deployment/>

¹²⁷ <https://en.goodwe.com/goodwe-launches-bat-series-a-scalable-battery-cabinet-for-small-to-mid-scale-campi-projects-compatible-with-et50kw-inverter>

¹²⁸ <https://static.trinasolar.com/en-apac/resources/newsroom/aptrina-storage-accelerates-energy-storage-growth-across-asia-pacific-24-gwh>

¹²⁹ <https://www.prnewswire.com/in/news-releases/ipo-bound-pace-digitek-limited-inaugurates-bess-manufacturing-facility-in-bidadi-karnataka-302497531.html>

¹³⁰ <https://www.prnewswire.com/news-releases/naradas-center-l-ultra-6-25mwh-liquid-cooled-energy-storage-system-ready-for-global-delivery-302496631.html>

¹³¹ <https://www.ess-news.com/2025/07/04/moment-energy-begins-full-scale-production-of-second-life-battery-systems-in-vancouver/>

Equipment Supply, EPC and O&M Service Agreement Awards

United States

- *Jul 8th*: JinkoSolar Holding Co., Ltd. (JinkoSolar) announced the successful commissioning of 21.6 MWh of ESS supplied to Distributed Energy Infrastructure (DEI). The three newly commissioned systems, developed and constructed by DEI, are now operational under the Solar Massachusetts Renewable Target (SMART) program. Each system utilizes a mix of DC and AC coupled configurations to maximize operational flexibility and performance.¹³²
- *Jul 8th*: Synderys LLC, a leader in advanced cybersecurity and hardware integrity solutions, and U.S. BESS Corp, announced the signing of an exclusive North American integration agreement. This groundbreaking partnership will deliver advanced, military-grade security technologies into U.S. BESS Corp's energy storage hardware products, delivering the most robust and resilient systems available to support national security and critical infrastructure protection. Under this agreement, Synderys will provide plug-and-play security assurance tools that include real-time protection for hardware and firmware, reducing cyberattack surfaces and enabling continuous system operations across diverse deployment environments.¹³³

International

- *Jul 31st*: Fluence Energy, Inc. (Fluence), a global market leader delivering intelligent energy storage, services, and asset optimization software, announced that Fluence has been selected by AGL to deliver the 500 MW / 2000 MWh Tomago BESS in Newcastle, New South Wales, Australia. The deal is Fluence's largest project transaction globally, one of the largest energy storage transactions by MWh in the Australian National Energy Market (NEM) to date, and marks 5 GWh of projects by Fluence in Australia. The Tomago BESS will be the third grid-scale battery storage system Fluence will deliver for AGL, having completed the 50 MWh Broken Hill BESS and currently constructing the 1000 MWh Liddell BESS.¹³⁴
- *Jul 29th*: HiTHIUM, a leading global provider of integrated energy storage products and solutions, has been selected by Elements Green, a leading developer of solar and energy storage infrastructure, to deliver a project scale of 720 MWh BESS in the United Kingdom. This strategic partnership represents one of the UK's largest energy storage projects to date, with completion targeted for 2027.¹³⁵
- *Jul 28th*: Jinko ESS, a global leading energy storage company, announced a strategic partnership with Mauritania's renowned bottled water brand TIJIRIT to deploy an integrated industrial and commercial solar-plus-storage system at its factory. The project will utilize 10 sets of SunGiga 215 kWh intelligent ESS (total capacity: 2.15 MWh) paired with 1.3 MW Tiger Neo high-efficiency PV modules, completely replacing the factory's diesel generators.¹³⁶
- *Jul 28th*: Jinko ESS, global leading energy storage company and subsidiary of Jinko Solar Co., Ltd., has announced an agreement for a 140 MWh grid-scale energy storage project with a leading UK-based energy developer AGR Renewables. The project will feature 28 units of Jinko ESS's G2 5 MWh liquid-cooled containerized systems, with first deliveries scheduled for November 2025 and commissioning set for Q1 2026.¹³⁷

¹³² <https://www.prnewswire.com/news-releases/jinkosolar-powers-clean-energy-future-with-21-6-mwh-energy-storage-systems-for-distributed-energy-infrastructure-302499880.html>

¹³³ <https://www.businesswire.com/news/home/20250701234101/en/Synderys-LLC-and-U.S.-BESS-Corp-Announce-Strategic-Exclusive-Partnership-to-Fortify-Battery-Energy-Storage-Systems-Across-North-America>

¹³⁴ <https://www.globenewswire.com/news-release/2025/07/30/3124596/0/en/Fluence-and-AGL-sign-deal-to-deliver-the-500-MW-2000-MWh-Tomago-Battery-Energy-Storage-System-in-Australia.html>

¹³⁵ <https://www.hithium.com/newsroom/latest/details/74.html>

¹³⁶ <https://www.pv-magazine.com/press-releases/jinko-ess-powers-tijirit-factory-in-mauritania-to-achieve-100-clean-energy-transition/>

¹³⁷ <https://www.pv-magazine.com/press-releases/jinko-ess-secures-140mwh-grid-scale-energy-storage-project-in-the-uk-with-agr/>

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- *Jul 28th*: SUNOTEC, one of Europe's leading integrated solutions providers in the solar energy sector, and Sungrow, the world's leading PV inverters and ESS provider, have officially signed a strategic agreement to deploy 2.4 GWh of BESS across multiple solar power projects in Bulgaria and other European countries.¹³⁸
- *Jul 23rd*: METLEN has signed two new contracts for the Engineering, Procurement and Construction (EPC) of renewable energy projects in the UK, with a total value of the contracts amounting to £ 34.8M. On behalf of Cero Generation, METLEN will design and construct a co-located photovoltaic (PV) park and BESS in Bramley, Hampshire. The Bramley PV and BESS project will deliver a combined capacity of 115 MW. For the contract with AMPYR Solar Europe, METLEN will construct an 18 MW BESS project in Scruton, North Yorkshire, with a total storage capacity of 49 MWh. METLEN currently has 93 renewable energy projects completed or at various stages of execution or development in the UK and Ireland. These are split between 65 solar projects, with 1.82 GW in installed power, and 28 BESS projects, with a total energy capacity of 1.31 GWh.¹³⁹
- *Jul 22nd*: Jinko ESS has secured contracts for two 5 MWh grid-scale energy storage initiatives in Italy, signifying its debut in the country's large-scale storage sector. Set for completion in October 2025 and March 2026, respectively, the projects will utilize Jinko ESS's Blue Whale G2 5 MWh liquid-cooled containerized systems. These units will deliver frequency regulation and support the integration of renewable energy into Italy's national grid.¹⁴⁰
- *Jul 21st*: Vanda RE, a JV between Gurin Energy and Gentari via Gentari International Renewables, signed a framework supply agreement with Contemporary Amperex Technology (CATL) on Sunday to procure up to 2.2 gigawatt-hours (GWh) of CATL's EnerX BESS. This deal supports the Vanda solar and battery project in Indonesia's Riau Islands.¹⁴¹
- *Jul 18th*: Copenhagen Energy's 132 MWh Everspring BESS portfolio in Denmark will utilize technology from Huawei Digital Power. The project is slated for grid readiness by spring 2026.¹⁴²
- *Jul 17th*: RES announced an asset management contract for a 500 MW / 1 GWh BESS in South Lanarkshire, Scotland. The project is being developed by energy investment company Copenhagen Infrastructure Partners (CIP). Coalburn is being developed by CIP and Alcemi and is being built in two phases. The first phase began construction in late 2023 with Coalburn 1 expected to come online later this year. A second 500 MW site, Coalburn 2, is expected to follow by 2027. Both are part of a wider pipeline of battery projects across the UK being led by CIP.¹⁴³
- *Jul 15th*: VERBUND has selected integrator Fluence Energy GmbH, a subsidiary of Fluence Energy, Inc. to build two utility-scale BESS. The first project, a large battery storage facility in Weißenthurm-Kettig, Rhineland-Palatinate, will be implemented with a capacity of 50 MW and a storage capacity of 100 MWh. Another system with a capacity of 42.9 MW / 86.5 MWh is planned in Elsterberg-Coschütz, Saxony, Germany.¹⁴⁴
- *Jul 14th*: Ingeteam announced it will supply power conversion solutions to the Gentari Power Maryvale Solar and Energy Storage Project (243 MW_p Solar PV + DC-coupled 172 MW / 412.8 MWh BESS) in New South Wales, Australia. The proposed COD is Q2 2027.¹⁴⁵

¹³⁸ <https://www.ess-news.com/2025/07/28/sunotec-and-sungrow-partner-on-2-4-gwh-battery-storage-rollout-in-bulgaria-and-europe/>

¹³⁹ <https://www.metlengroup.com/news/press-releases/metlen-secures-34-8-million-new-uk-epc-contracts-for-solar-and-storage-projects/>

¹⁴⁰ <https://www.solarbeglobal.com/jinko-ess-secures-two-major-grid-scale-energy-storage-projects-in-italy/>

¹⁴¹ <https://www.world-energy.org/article/53027.html>

¹⁴² https://www.linkedin.com/posts/ess-news_copenhagen-energys-132-mwh-everspring-battery-activity-7351969517926813697-Gchv

¹⁴³ <https://www.res-group.com/resources/news/res-takes-charge-of-major-european-battery-project/>

¹⁴⁴ <https://www.globenewswire.com/news-release/2025/07/15/3115325/0/en/VERBUND-and-Fluence-launch-large-scale-battery-storage-projects-in-Germany.html>

¹⁴⁵ <https://www.ingetteam.com/Pressroom/Corporate/tabid/1574/articleType/ArticleView/articleId/3726/Ingeteam-contributing-to-Australias-decarbonisation-with-a-DC-coupled-solar-storage-hybrid-project.aspx>

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- *Jul 10th*: Danish renewables developer Copenhagen Energy has selected Energrid as EPC contractor for its Everspring project (132 MWh BESS) in Denmark. The battery is expected to be online by summer of 2026.¹⁴⁶
- *Jul 8th*: Fluence Energy, Inc. (Fluence), a global market leader delivering intelligent energy storage, services, and asset optimization software, announced that the company has been selected by AMPYR Australia (AMPYR) for the 300 MW / 600 MWh Wellington Stage 1 BESS in Wellington, New South Wales, Australia.¹⁴⁷
- *Jul 7th*: ACME Solar Holdings has placed an order for over 3.1 GWh of BESS solutions from Zhejiang Narada and Trina Energy. This order represents one of the largest battery storage procurements in India to date. The BESS will be utilized in their upcoming Firm and Dispatchable Renewable Energy (FDRE) projects and battery-linked initiatives, which are scheduled for commissioning over the next 12 to 18 months across various states in India.¹⁴⁸
- *Jul 4th*: Simtel, an engineering and technology group listed on the Main Market of the Bucharest Stock Exchange and one of Romania's leading renewable energy players, announces the signing of an EPC contract with Energy Capital Group, owned by MOGAN Bucharest SRL, part of the GÜRIŞ Group from Turkey, for the implementation of a 196.4 MWh BESS project. The value of the contract amounts to 168.9 million lei, excluding VAT, and the execution period is nine months.¹⁴⁹

Optimization and Virtual Toll Agreement Awards

International

- *Jul 28th*: Enspired, a battery storage optimization specialist, has revealed new collaborations in Spain and Poland. In Spain, Enspired will team up with Nexus Energía to advance the country's target of 22.5 GW of storage by 2030, integrating its AI-driven optimization tools into Nexus's platform for both independent and co-located battery setups. In Poland, Enspired is joining forces with Ekovoltis, the nation's pioneering balancing services provider, to provide commercial optimization for a pipeline exceeding 420 MW of storage.¹⁵⁰
- *Jul 23rd*: Statkraft, Europe's largest renewable power generator, and a leading provider of market access and optimization services, has signed a series of optimization PPAs with Gresham House Energy Storage Fund plc (GRID), covering a portfolio of 412 MW of GRID's existing BESS assets. Statkraft has agreed to provide a minimum income guarantee the following assets: Nevendon (15 MW), Cleator (10 MW), Arbroath (35 MW), Bloxwich (41 MW), Byers Brae (30 MW), Coupar Angus (40 MW), Grendon (50 MW), Red Scar (49 MW), Roundponds (20 MW), Rufford (7 MW), Stairfoot (40 MW), Tynemouth (25 MW) and Wickham (50 MW).¹⁵¹
- *Jul 1st*: Portuguese utility EDP, S.A. (EDP), through its 71.3% owned subsidiary EDP Renováveis, S.A. (EDPR), has signed a long-term Optimization Agreement with Axpo Polska sp. z o.o, in which EDPR secures revenues under a floor and revenue share structure for a 60 MW / 241 MWh BESS project in Poland. The project is expected to reach COD in 2027.¹⁵²

¹⁴⁶ <https://list.solar/news/copenhagen-energy-1/>

¹⁴⁷ <https://www.globenewswire.com/news-release/2025/07/08/3111421/0/en/Fluence-Chosen-for-300-MW-600-MWh-Wellington-Battery-Energy-Storage-System-for-AMPYR-Australia.html>

¹⁴⁸ <https://economictimes.indiatimes.com/industry/renewables/acme-solar-places-3-1-gwh-battery-energy-storage-order/articleshow/122292702.cms>

¹⁴⁹ <https://simtel.ro/en/press-releases/simtel-signs-an-epc-contract-worth-169-million-lei-for-the-construction-of-a-battery-energy-storage-project/>

¹⁵⁰ <https://www.ess-news.com/2025/07/28/enspired-expands-battery-storage-optimization-to-spain-and-poland/>

¹⁵¹ <https://www.statkraft.co.uk/newsroom/2025/statkraft-signs-multi-asset-optimisation-ppas-with-gresham-house-energy-storage-fund/>

¹⁵² <https://www.edp.com/en/investors/investor-information/market-notifications/edp-secures-long-term-contract-60-mw-storage>

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Off-Take / PPA / Awards News

United States

- *Jul 1st*: Matrix Renewables, the TPG Rise-backed global renewable energy platform, and Pioneer Community Energy, a not-for-profit electricity provider headquartered in Rocklin, California, announced the signing of a Resource Adequacy capacity contract that covers 22 MW of capacity from the Alamo Battery Energy Storage project, located in Kern County, California, USA. The Alamo facility is expected to begin commercial operations in the first half of 2026.¹⁵³

International

- *Jul 25th*: ACME Solar Holdings has signed Battery Energy Storage Purchase Agreements (BESPA) with NHPC for two pioneering standalone BESS projects, totaling 275 MW / 550 MWh, in Andhra Pradesh, India. The projects, secured via an e-reverse auction on June 24, carry tariffs of INR 2,10,000/MW/month for a 50 MW / 100 MWh system and INR 2,22,000/MW/month for a 225 MW / 450 MWh system. Supported by the Government of India's Viability Gap Funding (VGF) scheme, which provides up to INR 27 lakh per MWh or 30% of the project cost (whichever is lower), the projects are set to be commissioned within 18 months from the signing date.¹⁵⁴
- *Jul 21st*: DF Power Solutions has secured a 110 MW lithium-ion battery storage contract in Japan via the nation's second Long-Term Decarbonization Auction (LTDA). This marks the company's debut battery endeavor in the country, with the facility offering a three-hour storage capability and positioned near Okayama in the southern area of Japan's main island. It is slated for operation starting in 2029. Worldwide, EDF Power Solutions leverages more than 15 years of battery know-how, managing over 600 MW of storage assets and advancing another 1 GW in development.¹⁵⁵
- *Jul 21st*: Tata Power Renewable Energy Limited (TPREL), a unit of The Tata Power Company Limited, has inked its inaugural Battery Energy Storage Purchase Agreement (BESPA) with NHPC Limited. The deal involves building a 30 MW / 120 MWh BESS at the 220 kV substation in Areacode, Kerala. This venture was secured through NHPC's BESS Tranche-I tender via a competitive bidding mechanism.¹⁵⁶
- *Jul 20th*: The Argentinian government launched the bidding process for the AlmaGBA tender, which began in February 2025 to acquire 500 MW of BESS capacity for key points in the Buenos Aires Metropolitan Area (AMBA) power grid. A total of 15 companies submitted 27 bids, proposing 1,347 MW of capacity, exceeding the tender's 500 MW target. Qualifying BESS units must be brand new and capable of delivering power for a minimum of four hours per complete discharge cycle to ensure reliable operation. Managed by CAMMESA, the tender provides \$10 per MW for delivered electricity, with a maximum bid limit of \$15,000 per MW per month for storage. Agreements will last up to 15 years from approval or until January 1, 2027. Submissions were required by June 10, 2025, with assessments conducted in early July, awards to follow soon after, and contract signings commencing on July 28, 2025. Projects are expected to be finalized within 12 to 18 months, by December 31, 2028.¹⁵⁷
- *Jul 18th*: Greek firm Metlen and Chile's Copec EMOAC, the leading fuel distribution company in Chile, announced a 15-year PPA for four solar-plus-storage projects. The Willka, Doña Antonia, Tocopilla, and Tamarico Solar PV plants will be adding 322 MW of co-located BESS with a slated operations date in 2026.¹⁵⁸

¹⁵³ <https://www.prnewswire.com/news-releases/matrix-renewables-signs-resource-adequacy-capacity-contract-with-pioneer-community-energy-for-22-mw-battery-energy-storage-project-in-kern-county-california-302495528.html>

¹⁵⁴ <https://www.newindianexpress.com/states/andhra-pradesh/2025/Jul/26/acme-solar-signs-pact-with-nhpc-for-275-mw-battery-storage-projects-in-andhra-pradesh>

¹⁵⁵ <https://solarquarter.com/2025/07/21/edf-power-solutions-wins-110-mw-battery-storage-project-in-japans-second-ltda/>

¹⁵⁶ <https://solarquarter.com/2025/07/21/tprel-secures-first-standalone-battery-storage-project-with-nhpc-in-kerala/>

¹⁵⁷ <https://www.world-energy.org/article/53021.html>

¹⁵⁸ <https://www.pv-magazine.com/press-releases/metlen-and-copec-emoac-sign-15-year-ppa-for-renewable-energy/>

- *Jul 16th*: Indian infrastructure developer PNC Infratech was awarded a 25-year PPA with NHPC in their latest reverse auction. The developer won 300 MW Solar PV + 150 MW / 600 MWh BESS at a tariff of INR 3.13 (USD 0.036) per kWh.¹⁵⁹
- *Jul 16th*: NHPC Limited has completed the auction for establishing 1,200 MW of solar power projects linked to the Interstate Transmission System (ISTS) nationwide in India. These developments will include a 600 MW / 2,400 MWh BESS facilitated by the Green Shoe Option. The bidding procedure, launched in March 2025 as part of NHPC-Tranche-XI-Solar with Storage (2024-25), was designed to identify developers via a tariff-driven online reverse auction. The process uncovered a minimum tariff of ₹3.13 per kWh.¹⁶⁰

Bidder	Tariff (₹/kWh)	Capacity (MW)
JBM Renewables	3.13	300
Navayuga Engineering Company	3.13	60
PNC Infratech	3.13	300
Reliance Infrastructure	3.13	300
SAEL Industries	3.13	150

- *Jul 10th*: Egypt Alum, a subsidiary of the Metallurgical Industries Holding Company, has signed a significant agreement with a newly established subsidiary of Norway-based renewable energy firm Scatec to develop a solar power plant in Nagaa Hammadi with a capacity of 1,000 MWh. The project will be executed over a period of 24 months in two consecutive phases, each generating 500 MWh. Additionally, the project will include the installation of battery storage systems with a total capacity of up to 200 MW. With an estimated total investment of around \$ 650M, the project will be fully financed, built, and operated by Scatec under a PPA.¹⁶¹
- *Jul 5th*: SJVN has finalized the auction for the establishment of a 375 MW / 1,500 MWh standalone BESS in Uttar Pradesh. The process was executed under the Viability Gap Funding (VGF) initiative via a tariff-focused competitive bidding approach. Patel Infrastructure Limited and EnerGrid emerged as the successful bidders, each obtaining matching allocations of 187.5 MW / 750 MWh. Patel Infrastructure Limited proposed a rate of ₹3.59 lakh per MW per month, whereas EnerGrid bid ₹3.5999 lakh per MW per month. In total, they will construct a combined storage capacity of 375 MW / 1,500 MWh.¹⁶²
- *Jul 2nd*: Hindustan Power has secured a 100 MW solar power project linked to the inter-state transmission system (ISTS), complemented by a 200 MWh BESS, from SJVN Limited. The award was clinched via a tariff-driven competitive bidding procedure, succeeded by an electronic Reverse Auction (e-RA) conducted on the ETS platform. This initiative is integrated into SJVN's extensive program to build 1,200 MW of ISTS-connected solar projects paired with 600 MW / 2,400 MWh of ESS across the nation.¹⁶³
- *Jul 1st*: Germany's Federal Network Agency (Bundesnetzagentur) has allocated 488 MW of solar and storage capacity in the most recent phase of its innovation tender for renewable energy initiatives. The agency received 158 proposals totaling 2,020 MW, with 29 of them securing contracts. The winning bids ranged in price from € 0.05 (~\$ 0.0589)/kWh to € 0.0639 (~\$ 0.0753)/kWh. The volume-weighted average winning price stood at € 0.0615 (~\$ 0.0724)/kWh, falling significantly under the maximum allowable price of € 0.09 (~\$ 0.11)/kWh and also below the prior round's average of € 0.0709 (~\$ 0.0835)/kWh.¹⁶⁴

¹⁵⁹ <https://www.cnbctv18.com/market/pnc-infratech-shares-nhpc-300-mw-solar-energy-project-lowest-bidder-19638215.htm>

¹⁶⁰ https://www.linkedin.com/posts/solarquarter_nhpc-awards-1200-mw-solar-projects-with-activity-7351112747255771136-7iLP

¹⁶¹ <https://www.dailynewsegypt.com/2025/07/07/egyptalum-signs-agreement-with-scatec-to-develop-solar-power-plant-in-nagaa-hammadi/>

¹⁶² <https://www.energetica-india.net/news/patel-infrastructure-and-energrid-win-sjvn-375-mw-1500-mwh-bess-auction>

¹⁶³ <https://economictimes.indiatimes.com/industry/renewables/hindustan-power-gets-order-to-set-up-100-mw-solar-project-with-200-mwh-energy-storage-system/articleshow/122178989.cms?from=mdr>

¹⁶⁴ <https://www.mercomindia.com/germany-488-mw-solar-plus-storage-auction>

Open Energy Storage RFPs/RFQs/RFIs

Off-Taker	Description
BC Hydro	BC Hydro is looking to acquire 5,000 GWh/year of additional clean and renewable energy and expects to award Electricity Purchase Agreements (EPAs) in early 2026. Eligible projects need to generate clean energy, have a capacity larger than 40 MW, be at least 25% owned by the First Nations, and be operational by October 1, 2033. The pre-submission deadline is September 2, 2025, and the deadline to submit the RFP is November 25, 2025. ¹⁶⁵
CESC	CESC Limited, a power utility based in Kolkata, India, has invited bids for setting up a 40 MW/80 MWh standalone BESS project. The company issued a Request for Selection (RfS) on July 30, 2025. This project will be located at the New Cossipore Generating Station, situated at 28 Jheel Road, Kolkata. Bids are due by September 18, 2025. ¹⁶⁶
Colorado Springs Utilities	Colorado Springs Utilities intends to release a request for proposal (RFP) to secure 1,250 MW of new renewable energy and storage capacity by 2030. The utility is seeking approximately 525 MW of solar, 100 MW of energy storage, and 625 MW of wind capacity, in addition to 350 MW of natural gas. The target date for integrating these new resources is May 2028. ¹⁶⁷
DEWA	The Dubai Electricity and Water Authority (DEWA) has revealed a notable expansion of clean energy output at the Mohammed bin Rashid Al Maktoum Solar Park, now producing a total of 3,860 MW through a mix of Solar PV panels and concentrated solar power (CSP) technologies. DEWA has extended an invitation to global developers to join Phase 7, which will offer a capacity of 1,600 MW, with the potential to increase to 2,000 MW. This phase will include PV solar panels and an integrated BESS with a capacity of 1,000 MW / 6,000 MWh. ¹⁶⁸
DOER	The Massachusetts Department of Energy Resources is seeking 1,500 MW of mid-duration storage. Storage sites need between 40 and 1,000 MW of nameplate capacity. Projects will receive Clean Peak credits for their projects. Bids are due September 10, 2025. ¹⁶⁹
DTE	DTE Electric is seeking between 1,500 and 3,000 MW of firm accredited capacity from clean energy systems and ESS. Proposals must be offered through either a build-to-transfer agreement (BTA), purchase and sale agreement (PSA), or PPA with a planned commercial operation date (COD) no later than December 31st, 2032. The deadline to submit questions is November 14, 2025, and the proposals are due December 1, 2025. ¹⁷⁰
El Paso Electric	El Paso Electric Company (EPE) has issued an all-source RFP to secure capacity between 650 MW and 850 MW. EPE may opt to include capacity and/or energy needs for its New Mexico service territory as part of this RFP, and if so, would be seeking to procure renewable energy resources to fulfill New Mexico's Renewable Portfolio Standard (RPS). A notice of intent to bid is due by September 1, 2025, and bids are due by September 29, 2025. ¹⁷¹
Guatemala	Guatemala has launched a competitive solicitation process to secure the supply of up to 1.4 GW of new energy capacity as it unveiled bidding terms for the Open Tender Electricity Generation Expansion Plan. The country's power distributor, Empresa Electrica de Guatemala (EEGSA), said this 1.4 GW tender will open the way to new investments in renewable energies and clean technologies. The agency will accept technical bids till October 31, 2025. ¹⁷²
GUVNL	Gujarat Urja Vikas Nigam Limited (GUVNL) has issued a Request for Selection (RfS) on July 23, 2025, for the procurement of 2,000 MW / 4,000 MWh standalone BESS bidding process and will be supported with Viability Gap Funding (VGF) from the Power System Development Fund (PSDF). Developers must build, own, and operate the BESS assets. The minimum bid size is 100 MWh (i.e., 50 MW x 2 hours), with capacity increments in multiples of 50 MW. The last date for submission of queries is

¹⁶⁵ <https://www.bchydro.com/content/dam/BCHydro/customer-portal/documents/corporate/independent-power-producers-calls-for-power/call-for-power/2025-cfp-request-for-proposals.pdf>

¹⁶⁶ <https://solarquarter.com/2025/07/31/cesc-invites-bids-for-40-mw-80-mwh-battery-storage-project-at-new-cossipore-in-kolkata/>

¹⁶⁷ <https://www.bidnetdirect.com/colorado/colorado-springs-utilities>

¹⁶⁸ <https://dewa.gov.ae/en/about-us/media-publications/latest-news/2025/06/dewa-adds-800mw-of-clean-energy-production>

¹⁶⁹ <https://macleanenergy.com/wp-content/uploads/2025/05/attachment-a-section-83e-draft-request-for-proposals-may-5-2025.pdf>

¹⁷⁰ <https://dtee-irp-2025allsourcerfp.com/>

¹⁷¹ <https://www.epelectric.com/company/request-for-proposals/2025-all-source-rfp-to-reliably-meet-growing-demand-for-customers>

¹⁷² <https://taiyangnews.info/tenders/guatemala-14-gw-energy-tender>

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Off-Taker	Description
	August 8, 2025, by 5:00 PM, and a pre-bid meeting will be held via video conference on August 13, 2025, at 12:00 PM. ¹⁷³
IESO	The IESO has launched the LT2 RFP to procure up to 3 TWh/year of new energy supply starting in 2029. Projects should be over 1 MW, and can include solar, wind, hydro, biomass, storage, and natural gas (limited). Winning bids will receive indexed fixed-price contracts. Registration deadlines are September 4, 2025, and the submission deadline is October 16, 2025. ¹⁷⁴
KREDL	Karnataka Renewable Energy Development Ltd (KREDL) has released a tender for the development of a 250 MW solar PV power project along with a 250 MW / 1,100 MWh BESS at Ryapte in Karnataka. The system aims to supply peak power and optimize grid utilization at the Pavagada Solar Park. ¹⁷⁵
Lincoln Electric System	Lincoln Electric System (LES) is soliciting discussions with entities interested in providing LES with firm or deliverable capacity within the Southwest Power Pool to meet LES's own load and reserve requirements for the 2026-2030 period. All offers, capacity amounts, term lengths, and types of participation will be considered. Interested parties can contact the Manager of Energy & Environmental Operations, Dennis Florom, at dflorom@les.com . ¹⁷⁶
MOP	The Indian Ministry of Power (MOP) has introduced a Viability Gap Funding (VGF) program to promote the establishment of BESS throughout India. With the Power Minister's approval, a financial allocation of ₹ 5,400 crore will be drawn from the Power System Development Fund (PSDF). This funding will facilitate the development of 30 GWh of BESS capacity, offering ₹ 18 lakh per MWh as VGF support. The program targets 15 states and NTPC, which will be allocated 25 GWh and 5 GWh, respectively. Interested entities must submit proposals to the CEA within 60 days of the date of guideline issuance. BESS projects will be awarded using Tariff-Based Competitive Bidding (TBCB) under Section 63 of the Electricity Act, 2003. Contracts will be issued on a Build Own Operate (BOO) or Build Own Operate Transfer (BOOT) basis for a period of 12 to 15 years. ¹⁷⁷
MOTIE	The Ministry of Trade, Industry, and Energy (MOTIE) of South Korea will release a competitive solicitation for battery storage capacity. The capacity will be split between 500 MW of large-scale BESS on the Korean mainland and a 40 MW BESS on Jeju Island. ¹⁷⁸
MSEDCL	The Maharashtra State Electricity Distribution Co (MSEDCL) has launched a multi-gigawatt battery storage tender. The western Indian state government-owned is seeking up to 2,000 MW / 4,000 MWh of BESS in Maharashtra. Eligible projects will be capable of providing two daily cycles of their 2-hour duration battery capacity, entering into a battery energy storage purchase agreement (BESPA) with MSEDCL. A pre-bid meeting is scheduled for 18 August, and the last date for submission of technical and financial bids is 15 September. ¹⁷⁹
New Jersey Board of Public Utilities	The New Jersey Board of Public Utilities (NJBPUB) approved Phase 1 of the Garden State Energy Storage Program (GSESP) on June 18, 2025. GSESP is a multi-phase program designed to deploy 2,000 MW of energy storage by 2030. The first solicitation aims to award 350-750 MW. The pre-qualification process starts on June 25, 2025, with a final bid submission deadline of August 20, 2025. ¹⁸⁰
New South Wales	The New South Wales government has announced plans to launch a new tender seeking 500 MW of firming capacity, seeking bids from battery energy storage, gas, and virtual power plants (VPP). The new tender will be led by ASL and seek 500 MW of firming capacity for the New South Wales grid by 2028. It will focus on projects in Sydney, Newcastle, and Wollongong. ¹⁸¹

¹⁷³ <https://solarquarter.com/2025/07/01/seci-to-launch-tender-for-600-mw-1200-mwh-battery-energy-storage-project-under-vgf-tranche-2/>

¹⁷⁴ <https://www.ieso.ca/Sector-Participants/Engagement-Initiatives/Engagements/Long-Term-RFP>

¹⁷⁵ <https://www.pv-magazine-india.com/2025/05/28/karnataka-launches-tender-for-250-mw-solar-project-with-250-mw-1100-mwh-battery-energy-storage-system/>

¹⁷⁶ <https://naema.com/lincoln-electric-system-spp-capacity-solicitation/>

¹⁷⁷ <https://energy.economictimes.indiatimes.com/news/power/government-approves-5400-cr-funding-for-30-gwh-battery-storage-to-boost-renewable-energy-infrastructure/121756430>

¹⁷⁸ <https://www.energy-storage.news/south-korea-government-tenders-central-contracts-for-540mw-3240mwh-bess/>

¹⁷⁹ <https://www.energy-storage.news/maharashtra-to-leverage-indian-union-government-funding-in-4gwh-bess-tender/>

¹⁸⁰ <https://www.nj.gov/bpu/newsroom/2025/approved/20250618solar.html>

¹⁸¹ <https://www.energy-storage.news/australias-new-south-wales-to-launch-500mw-firming-tender-to-address-grid-reliability-issues/>

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Off-Taker	Description
NYSERDA	Governor Kathy Hochul announced the launch of New York's first Bulk Energy Storage Request for Proposals (RFP), intended to procure one gigawatt (GW) of bulk energy storage as part of New York's 6 GW Energy Storage Roadmap on July 28. Step One Eligibility Applications are due to NYSERDA by September 4, 2025, by 3:00 p.m. ET. Proposers that receive a Notice of Qualification will have an opportunity to submit a Step Two Bid Proposal, which is solicited in Non-Price and Price Phases. The Non-Price Submission deadline is December 11, 2025, by 3:00 p.m. ET, and the Price Submission deadline is January 29, 2026, by 3:00 p.m. ET. Submission instructions are detailed in ISCRFP25-1. ¹⁸²
PacifiCorp	According to the utility company's integrated resource plan, filed with state regulators, PacifiCorp expects to procure about 2,400 MW of solar, 2,270 MW of wind, 1,680 MW of four-hour storage, and 510 MW of 100-hour iron air battery storage through requests for proposals by the end of 2030. ¹⁸³
PGE	Portland General Electric's (PGE's) 2025 All-Source Request for Proposals (RFP) is designed to execute on the combined 2023 Clean Energy Plan and Integrated Resource Plan (CEP/IRP) action plan. PGE expects an ongoing incremental energy need of approximately 251 MW every year through 2030. Non-emitting dispatchable resources must have the capability to be dispatched at specified times when called upon by PGE. Examples of these resources include pumped hydro, lithium-ion battery storage, and geothermal resources. Bidders who intend to participate in the RFP must notify PGE via email at rpf@pgn.com with the IE copied at 025AS_PGE_IE@paconsulting.com , by August 6, 2025. Final bids are due September 26, 2025. ¹⁸⁴
Philippines Department of Energy	The Philippines Department of Energy has initiated a tender to integrate over 9.4 GW of new renewable energy capacity to enhance the country's clean energy infrastructure. This initiative involves the development of renewable power sources, including solar and wind, with some projects incorporating BESS to ensure reliability and efficiency. The supply contracts for winning projects will have a 20-year duration starting from the commercial operation date. Technical requirements mandate a minimum storage duration of four hours, an ESS inverter ratio of at least 0.2, and a round-trip efficiency of 85% or higher. ¹⁸⁵
Portugal Ministry of Environmental and Energy	Portugal is set to initiate a competitive bidding process for 750 MVA of battery energy storage prior to January 2026, within a wider € 400M initiative designed to enhance grid stability and avert future power outages. The announcement was delivered by Portugal's Ministry of Environment and Energy. ¹⁸⁶
RERC	The Rajasthan Electricity Regulatory Commission (RERC) has approved tariffs for a 500 MW / 1,000 MWh BESS project proposed by Rajasthan Rajya Vidyut Utpadan Nigam Ltd. (RRVUNL), which will be acquired through a competitive bidding process. Additionally, a green shoe option has been included for an extra 500 MW / 1,000 MWh capacity. This project will be implemented under the Build-Own-Operate (BOO) framework and will receive Viability Gap Funding (VGF) from the central government. ¹⁸⁷
San Diego Community Power	San Diego Community Power is authorized to procure 20.16 MW for its DAC-GT program. The offer must include a new solar photovoltaic, Renewable Portfolio Standard-eligible, FTM generating facility. Optional configurations that include paired battery energy storage resources will also be considered. Hybrid configurations (single CAISO meter systems) are preferred for this solicitation. The response deadline for this solicitation is September 8, 2025. ¹⁸⁸

¹⁸² <https://www.nysenda.ny.gov/All-Programs/Energy-Storage-Program/Developers-and-Contractors/Bulk-Storage-Incentives>

¹⁸³ https://www.pacificorp.com/content/dam/pcorp/documents/en/pacificorp/energy/integrated-resource-plan/2025-irp/2025_IRP_Vol_1.pdf

¹⁸⁴ <https://portlandgeneral.com/about/who-we-are/resource-planning/procuring-clean-energy>

¹⁸⁵ <https://www.pv-tech.org/philippines-opens-tender-9-4gw-renewable-energy-storage/>

¹⁸⁶ <https://www.reuters.com/sustainability/boards-policy-regulation/portugal-invest-466-million-boost-grid-management-battery-storage-after-outage-2025-07-28/>

¹⁸⁷ <https://energy.economictimes.indiatimes.com/news/power/rajasthan-erc-approves-tariff-for-1000-mwh-battery-energy-storage-system-project/121949470>

¹⁸⁸ https://sdcommunitypower.org/wp-content/uploads/2025/04/SDCP-DAC-GT-2nd-RFO-Protocol_FINAL.pdf

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Off-Taker	Description
Southeast Rural Power	Southeast Rural Power is soliciting proposals from experienced firms for PV and storage installation. The RFP prefers groups within the rural southeastern region of the United States. Not all projects require storage. Bids are due August 8, 2025. ¹⁸⁹
Spanish Ministry	The Spanish Ministry for Ecological Transition launched a tender to award up to 1,259 MW of synchronous power-generating modules and synchronous storage capacity. Applications will be chosen on a first-come, first-served basis. ¹⁹⁰
WPPI Energy	WPPI Energy (WPPI) is seeking proposals from third-party suppliers for short to medium-term capacity with or without associated peaking energy rights. The request is looking for up to 150 MW of MISO Zonal Resource Credits. Responses to this RFP are due by the close of business (5:00 p.m. CPT) on Friday, August 8, 2025. ¹⁹¹

General News

International

LG Wins Third Patent Lawsuit Over Sunwoda

Jul 25th: On July 17, the Munich District Court found that Sunwoda had violated LG Energy Solution's patent concerning the design of electrode assemblies. The court ruled that Sunwoda's prismatic batteries, utilized in Renault Group's electric vehicle Dacia Spring, breached this patent. On July 24, LG Energy Solution reported that the court imposed an injunction prohibiting the sale of these infringing batteries in Germany, mandating Sunwoda to recall and dispose of existing units, cover damages, and submit pertinent financial records. An industry analyst pointed out that this particular patent is often targeted for infringement, especially in the power battery sector, where many Chinese manufacturers are active. Prior to the third trial, in May, the Munich District Court had also determined that Sunwoda infringed two of LG Energy Solution's battery separator technologies. At that time, Sunwoda was directed to recall and eliminate all infringing batteries under its direct or indirect control, marking Germany's first injunction related to automotive batteries. Sunwoda is anticipated to challenge the decisions through appeals. ¹⁹²

Lithuania Increases Funding for Energy Storage

Jul 20th: The Lithuanian Ministry of Energy has increased funding for its initiative promoting the establishment of high-capacity electricity storage systems for companies by an additional € 37.33M. This adjustment was made in response to overwhelming demand, with over 50 applications submitted, totaling € 197.86M, beyond the initial budget of € 102M. The initiative aims to enhance energy storage capabilities, which are crucial for integrating a growing proportion of renewable energy sources and ensuring the reliability of the power grid. Funding is provided as a non-refundable grant covering up to 30% of qualifying expenses for building storage units with capacities ranging from 15 – 150 MW. These units are designed to deliver balancing services to the country's transmission system operator. The long-term objective is to reach 1.5 GW in storage capacity and a cumulative energy storage of 4.4 GWh by 2028. ¹⁹³

Bihar Targets 23,968 MW Renewable Energy And 6,100 MWh Storage

Jul 15th: The Bihar Government has unveiled the Bihar Renewable Energy Policy 2025, a thorough strategy designed to overhaul the state's energy sector by swiftly embracing environmentally friendly and renewable

¹⁸⁹ <chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/https://seruralpower.org/wp-content/uploads/2025/06/250630-SERP-RFP-FINAL.pdf>

¹⁹⁰ <https://weadapt.org/organisation/miteco/?tab=about>

¹⁹¹ [https://naema.com/wpqi-energy-rfp-for-miso-](https://naema.com/wpqi-energy-rfp-for-miso-capacity/#:~:text=WPPI%20has%20a%20peak%20demand,by%20WPPI%2C%20and%20renewable%20resources.)

[capacity/#:~:text=WPPI%20has%20a%20peak%20demand,by%20WPPI%2C%20and%20renewable%20resources.](https://naema.com/wpqi-energy-rfp-for-miso-capacity/#:~:text=WPPI%20has%20a%20peak%20demand,by%20WPPI%2C%20and%20renewable%20resources.)

¹⁹² <https://www.chosun.com/english/companies-en/2025/07/25/KT3MVAHI7FCKHMYIBDF5NZQGHU/>

¹⁹³ <https://ceenergynews.com/renewables/lithuania-increases-funding-for-energy-storage-programme/>

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energy alternatives. Superseding the 2017 policy, it lays out a strong plan to reach 23.968 GW of renewable energy capacity and 6.1 GWh of energy storage by the close of the financial year 2029–30. To attract greater investor involvement, the state has rolled out several incentives:¹⁹⁴

- Complete waiver of electricity duty for 15 years for open access and captive users.
- Full refund of SGST on materials for renewable projects over 5 years.
- Waiver of transmission and wheeling charges for intra-state electricity consumption for up to 15 years, or 20 years for projects that include energy storage.
- Exemptions from stamp duty and land conversion fees, plus recognition as deemed industries for all renewable energy projects under the state's industrial policy.

CATL Sues Hithium

Jul 9th: Chinese battery giant CATL has filed an unfair competition lawsuit against domestic rival Hithium Storage, according to the Ningde Intermediate People's Court. The case, set for trial on August 12th, marks another legal battle initiated by CATL against companies founded by former employees. The lawsuit alleges that Hithium engaged in systematic poaching of CATL's technical personnel and developed battery products, specifically the 587 Ah cell, with specifications nearly identical to CATL's patented designs. The lawsuit was described as strategic to potentially jeopardize Hithium's upcoming initial public offering (IPO) in Hong Kong. CATL has filed similar lawsuits in the past against CALB, SVOLT, and Tafel.¹⁹⁵

CATL and Partners Break Ground on USD 6B Battery Integration Project in Indonesia

Jul 1st: Ningbo Contemporary Brunp Lygend Co., Ltd. (CBL), a subsidiary of Guangdong Brunp Recycling Technology Co., Ltd. (Brunp), has officially broken ground on the Indonesia Battery Integration Project. This initiative, in partnership with PT Aneka Tambang Tbk (ANTAM) and Indonesia Battery Corporation (IBC), took place on Sunday at the Karawang New Industry City (KNIC) in West Java Province, Indonesia. Brunp is a subsidiary of Contemporary Amperex Technology Co., Limited (CATL). The Indonesia Battery Integration Project spans over 2,000 hectares and entails a planned investment of nearly USD 6B. It encompasses the entire battery value chain, including nickel mining and processing, battery materials, and battery recycling at the FHT Industrial Park in East Halmahera, North Maluku Province. Additionally, battery manufacturing will occur in both KNIC and Artha Industrial Hill (AIH) in Karawang, West Java Province. In its first phase, the battery plant in Karawang is expected to achieve an annual capacity of 6.9 GWh.¹⁹⁶

Data Center / Energy Storage News

United States

- *Jul 31st*: Arizona land developer Vermaland, LLC unveiled plans for a \$ 33B data center industrial park that would become the largest such development in the United States, positioning the Phoenix-Tucson corridor to compete directly with Northern Virginia's "Data Center Alley" for tech industry investment. The 3,300-acre complex would support up to 3 gigawatts of power capacity and will incorporate a hybrid energy system combining solar, natural gas, battery storage, and grid connectivity for continuous operations.¹⁹⁷
- *Jul 30th*: Detroit-based utility DTE Energy is in talks with data centers representing up to 7GW of potential new capacity around Michigan. To meet the new capacity, DTE plans to utilize "a combination of existing generation capacity and new energy storage solutions. And longer term, additional data center loads will

¹⁹⁴ <https://netzero.eletsonline.com/2025/07/bihar-unveils-ambitious-renewable-energy-policy-2025-to-accelerate-green-transition/>

¹⁹⁵ <https://michael7924.substack.com/p/catl-sues-top-3-rival-hithium-amid>

¹⁹⁶ <https://www.catl.com/en/news/6481.html>

¹⁹⁷ <https://www.prnewswire.com/news-releases/vermaland-unveils-33-billion-data-center-industrial-park-in-federal-qualified-opportunity-zone-302517792.html>

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require incremental investments in new baseload generation. The company is currently advancing a \$ 30B five-year investment plan, with \$24bn earmarked for DTE Electric, including \$10bn on grid investments to upscale the transmission grid. Near-term load ramps driven by data center growth will mean that DTE will have to begin construction on new battery storage assets in 2026.¹⁹⁸

- *Jul 29th*: EnCap, an investment firm, has introduced a new initiative targeting the provision of land and power for U.S. data centers. Quantica Infrastructure, LLC, launched this week, specializes in delivering fully prepared sites that combine renewable energy sources, conventional grid power, and network connectivity. The company plans to offer master-planned locations near clean energy options (wind, solar, and battery storage), grid connection points, and robust fiber access.¹⁹⁹
- *Jul 25th*: A long-duration battery company announced a strategic investment from Google. The company stated that its commercial partnership with Google will utilize Energy Dome's CO2 Battery technology to enable carbon-free energy for the grids that power Google's operations. A pipeline of sites and projects has been identified in the partnership, which are currently in development and contracting stages.²⁰⁰

International

- *Jul 18th*: The UK government's Compute Roadmap calls for at least 6 GW of AI-capable data center capacity by 2030 to maintain competitiveness, a threefold increase from current levels. To support this expansion amid grid constraints, the roadmap emphasizes behind-the-meter low-carbon energy solutions, including battery storage, to enable self-reliant AI campuses. Battery storage is highlighted as a key component for balancing energy needs, alongside onsite generation, microgrids, and flexible demand systems. The plan includes establishing AI Growth Zones, each supporting at least 500 MW, with development starting by year's end.²⁰¹
- *Jul 11th*: Apatura, a UK-based renewable energy developer, has submitted a proposal to construct a 300 MW data center complex on 69 hectares near Coldstream, Scotland, which will include up to 70,000 square meters of data center space and a rooftop solar photovoltaic array. The development features a prominent 500 MW BESS paired with an on-site substation to meet energy demands. The project is anticipated to take approximately three years to complete, with no need for an Environmental Impact Assessment before obtaining full planning approval. Apatura's broader portfolio includes 10.6 GW of energy infrastructure, featuring 1.8 GW of grid connections for data centers and additional BESS initiatives throughout Scotland. The company is also progressing with other data center projects, including a 200 MW site in East Ayrshire and a 500 MW site in North Lanarkshire, frequently incorporating battery storage solutions.²⁰²

Hydrogen News

United States

Trump's OBBBA Offers Certainty for US Hydrogen, But Concerns Loom

Jul 29th: The One Big Beautiful Bill Act, passed on July 4th, has offered long-awaited policy certainty to the US hydrogen sector, but with significantly less support than the Inflation Reduction Act. While blue hydrogen retains the 45Q tax credit at \$85/ton of CO₂ captured, the 45V credit for clean hydrogen is narrowed. Projects must now start construction by the end of 2027, leaving little time to finalize offtake and investment decisions. The bill keeps strict requirements for clean electricity sourcing, demanding incrementality, temporal matching, and

¹⁹⁸ <https://www.datacenterdynamics.com/en/news/dte-energy-in-talks-for-7gw-of-new-data-center-capacity/>

¹⁹⁹ <https://www.datacenterdynamics.com/en/news/encap-backed-quantica-launches-to-offer-powered-land-to-data-centers-in-the-us/>

²⁰⁰ <https://www.businesswire.com/news/home/20250724389814/en/Energy-Dome-Inks-a-Strategic-Commercial-Agreement-with-Google>

²⁰¹ <https://www.gov.uk/government/publications/clean-power-2030-action-plan/clean-power-2030-action-plan-a-new-era-of-clean-electricity-main-report>

²⁰² https://www.linkedin.com/posts/nsviolet-ltd_datacentre-hyperscale-digitalinfrastructure-activity-7346130533623451650-1bmz

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deliverability, which limits hydrogen developers to newly built renewables, nuclear plants, or gas with CCS. However, OBBBA phases out federal tax credits for wind and solar over the next two years, which is expected to slow renewable buildout and exacerbate competition for clean electricity. Hyperscalers and data centers, which consumed 176 TWh in 2023 and could use up to 580 TWh by 2028, are also competing for low-carbon power and gas. With most electrolyzers needing around 50–60 TWh per million tons of hydrogen, this does not favor massive hydrogen scale-up. Gas demand is set to rise from both LNG exports and data centers, pushing costs up and threatening project economics.²⁰³

Fortescue Cancels Two Green Hydrogen Projects Post-FID

Jul 24th: Fortescue has cancelled its 80 MW Arizona Hydrogen project in the US and 50 MW PEM50 project in Australia, despite approving both in November 2023. The company attributed the Arizona cancellation to a retreat in US green energy policy, calling it a “step back in green ambition” that has undermined market certainty. The Australian PEM50 project was abandoned due to a strategic shift away from PEM electrolyzers, which Fortescue had been manufacturing in-house at its 2 GW Gladstone factory. These cancellations will trigger a pre-tax write-down of around \$ 150M. While Fortescue insists it remains committed to green hydrogen, it now plans to pursue a more disciplined and cost-conscious approach, aligning with its green iron strategy. A pilot green metals plant is underway at Christmas Creek using green hydrogen from two existing 700 kW electrolyzers.²⁰⁴

Cummins Exits Chinese Electrolyzer JV with Sinopec-Backed Enze Fund

Jul 18th: Cummins has withdrawn from its JV with the Sinopec-backed Enze Fund, ending its involvement in Cummins Enze, which operated China’s largest PEM electrolyzer factory. The 50:50 JV, established in 2021, has been renamed Enze Haihe, now solely owned by the Enze Fund. It is unclear if the factory will continue producing electrolyzers using Cummins technology. The 500 MW facility in Foshan offered PEM electrolyzers under Cummins’ “Accelera” brand but reportedly struggled with poor sales and lack of commercial project deliveries. Although it secured a 2.5 MW order for an Australian project in 2024, there is no indication the unit was delivered. The exit follows a \$ 764m pre-tax loss for Cummins’ Accelera division in 2024, including a \$ 312m restructuring charge. The plant had planned to expand to 1 GW but now faces uncertainty amid rising local competition, including a new 1.1 GW PEM factory from Jiangsu Xingran Technology.²⁰⁵

Over 75% of US Green Hydrogen Projects Unlikely to Meet 45V Tax Credit Deadline

Jul 13th: Despite a two-year extension of the 45V green hydrogen tax credit under the One Big Beautiful Bill Act, more than 75% of the US green hydrogen pipeline is expected to miss the Dec 31st, 2027, construction-start deadline, according to Wood Mackenzie. Only 0.8 million tons of the 3.1-million-ton total pipeline is seen as likely to begin construction in time, and just 0.08 million tons have reached final investment decision or are in advanced stages. Projects already under construction include Infinium’s 100 MW Project Roadrunner in Texas and Avina’s green hydrogen facility in Vernon, California. Additional projects like Element’s Lancaster Clean Energy Center and Plug Power’s 120 MW Project Limestone are considered probable but still face hurdles in offtake agreements, EPC contracts, and PPAs.²⁰⁶

²⁰³ <https://www.hydrogeninsight.com/policy/analysis-trumps-one-big-beautiful-bill-act-has-given-the-us-hydrogen-industry-certainty-but-where-will-the-green-energy-come-from-/2-1-1850597>

²⁰⁴ <https://www.theguardian.com/environment/2025/jul/25/fortescue-cancels-green-hydrogen-projects-trump-us-policy-renewable-energy>

²⁰⁵ <https://www.hydrogeninsight.com/electrolysers/cummins-exits-chinese-electrolyser-joint-venture-with-sinopec-backed-fund-after-poor-sales/2-1-1848061>

²⁰⁶ <https://www.hydrogeninsight.com/production/-over-75-of-us-green-hydrogen-projects-will-miss-the-new-production-tax-credit-deadline-analyst/2-1-1845451>

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Chevron Plans \$5B Blue Hydrogen and Ammonia Project in Texas

Jul 10th: Chevron is planning a \$ 5B blue hydrogen and ammonia facility in Port Arthur, Texas, known as Project Labrador. The plant is scheduled to begin construction in 2027 and enter commercial operation by 2032. It has been proposed as part of the HyVelocity hydrogen hub, which received initial funding from the Biden administration. The project is still pre-FID, and Chevron is seeking property tax breaks and federal support to move forward. The facility would use autothermal reforming to produce hydrogen and capture CO₂ for offsite storage. Chevron plans to export the resulting low-carbon ammonia via a new terminal on the Port Arthur Ship Canal. If completed as speculated, the project could produce 700 tons of hydrogen and 4,000 tons of ammonia per day.²⁰⁷

International

EU to Allow Low-Carbon Hydrogen in Next European Hydrogen Bank Auction

Jul 30th: The European Commission will permit funding for low-carbon hydrogen that does not meet the strict RFNBO (renewable fuel of non-biological origin) definition in its third European Hydrogen Bank auction later this year. Of the € 1.1bn budget, € 400m will be open to both RFNBO and low-carbon hydrogen projects across the EU, € 400m will be reserved exclusively for RFNBO-compliant hydrogen, and € 200m will support RFNBO and low-carbon hydrogen production for the maritime sector. The latter category may receive an additional € 100m if backed by member states through the “auctions-as-a-service” program. Eligible low-carbon hydrogen must achieve at least 70% lower greenhouse gas emissions than fossil-based hydrogen, under a methodology currently under review. All bidders must have signed term sheets or heads of terms with offtakers for at least 60% of total production volumes, dated within a year of bidding. The final definition of low-carbon hydrogen is still undergoing a two-month review extension and may not be finalized until November.²⁰⁸

Repsol to Produce Low-Carbon Hydrogen from Biomethane at Puertollano Refinery

Jul 30th: Repsol will invest € 16m to replace natural gas with biomethane from waste as the feedstock for hydrogen production at its Puertollano refinery. The resulting biohydrogen will be used in a new renewable diesel facility at the site, expected to begin operations next year, which could reduce the fuel’s carbon footprint by up to 98% compared to fossil diesel. This move follows Repsol’s cancellation of a large-scale green hydrogen project in Puertollano. However, the company states that biomethane and green hydrogen are complementary in its strategy. While biomethane offers a quicker route by utilizing existing grey hydrogen infrastructure, Repsol still plans to advance three major electrolytic hydrogen projects, with two 100 MW facilities in Cartagena and Bilbao expected to reach final investment decisions this year and a 150 MW project in Tarragona due by mid-2026.²⁰⁹

India Announces First Winner of Green Ammonia Auction at Remarkably Low Price

Jul 30th: Indian renewables developer ACME has won the first award under India’s green hydrogen-based ammonia auction, securing a ten-year contract to supply 75,000 tons of green ammonia to Paradeep Phosphates Limited in Odisha. The winning bid came in at 55.75 rupees per kilogram, or approximately \$ 641 per ton, a price SECI suggests is nearing parity with India’s March 2025 grey ammonia price of \$ 515 per ton. This result is notably lower than Germany’s recent H2Global auction, which awarded a price of \$ 935 per ton to Fertigllobe in Egypt, excluding shipping. ACME is also developing a 1 million ton per year green ammonia facility in Odisha

²⁰⁷ <https://www.hydrogeninsight.com/production/chevron-plans-5bn-blue-ammonia-plant-as-part-of-texas-hydrogen-hub/2-1-1844626>

²⁰⁸ <https://www.hydrogeninsight.com/policy/eu-will-support-green-hydrogen-that-does-not-meet-strict-renewable-definition-in-next-european-hydrogen-bank-auction/2-1-1851863>

²⁰⁹ <https://www.hydrogeninsight.com/production/repsol-to-produce-low-carbon-hydrogen-from-biomethane-at-refinery-instead-of-planned-switch-to-green-h2/2-1-1851706>

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and has signed offtake deals with IHI in Japan and Yara in Norway. Results for the other fertilizer production sites in the Indian auction have yet to be announced.²¹⁰

Germany Launches Consultation on €400M Bilateral Green Hydrogen Auction with Canada

Jul 29th: Germany has opened a public consultation on a €400m green hydrogen auction with Canada under the H2Global scheme. Both governments will jointly fund the bilateral tender and will match Canadian RFNBO-compliant producers with German offtakers through 10-year direct contracts, differing from the traditional H2Global model where intermediary Hint.co procures hydrogen first. Unlike earlier auctions, offtakers will be locked in before production begins, removing the financial burden from Hint.co and shifting risk to the matched counterparties. The auction will be product-agnostic, covering renewable hydrogen, ammonia, methanol, and methane, with bids evaluated primarily on price and partially on volume flexibility. The consultation runs until September 10th.²¹¹

Saudi Arabia's Second Green Hydrogen Hub to Nearly Double Neom Capacity

Jul 28th: Saudi Arabia's Yanbu Green Hydrogen Hub will feature 4 GW of electrolyser capacity, nearly twice the size of the 2.2 GW Neom project, and will produce 400,000 tons of green hydrogen per year for ammonia conversion. The project, led by ACWA Power in partnership with Germany's EnBW, is slated to begin operations before 2030. Tecnicas Reunidas and Sinopec have been awarded a 10-month FEED contract covering the ammonia production systems, desalination infrastructure, and a dedicated export terminal. The upstream renewables are not included in this phase, though ACWA Power has stated the facility will be powered by its own captive clean energy sources. A final investment decision is pending, and the project is expected to follow a development approach similar to the Neom complex, which is now 80% complete.²¹²

Australian Firm Calix Secures A\$44.9M Grant for Green Hydrogen-Based Iron Project

Jul 25th: Calix has received AUD 44.9M (\$ 30M) from Australia's federal government to build a green iron demonstration plant using its proprietary "Zesty" process, which the company claims can produce direct reduced iron (DRI) at costs competitive with fossil-based methods. The facility aims to produce 30,000 tons of DRI or hot briquetted iron annually, with a final investment decision expected by June 2026 and operations beginning in 2028. The "Zesty" process reduces hydrogen consumption by pre-heating H2 before it reacts with iron ore in a calciner, producing excess steam and recoverable hydrogen that can be reused in electrolyzers or power generation. This closed-loop design aims to cut costs and improve efficiency. The grant from ARENA will cover up to 50% of project costs, contingent on milestones and matched funding.²¹³

Iberian Green Hydrogen Price Signal Jumps Above €6/kg After Methodology Update

Jul 25th: The levelized cost of green hydrogen in Spain and Portugal has risen to € 6.11/kg, according to Mibgas, following updates to the IBHYX index formula. The increase reflects revised assumptions, including 2027-start wind and solar PPA prices, an extended CO₂ price forecast through 2027, and a review of electrolyzer stack degradation rates. Since December 2024, the index has ranged between € 5.82 and € 5.96/kg. The model assumes a 50 MW electrolyzer at € 1,600/kW, operating 4,500 hours per year and producing RFNBO-compliant

²¹⁰ <https://chemindigest.com/green-ammonia-records-historic-low-in-latest-auction/>

²¹¹ <https://www.hydrogeninsight.com/policy/german-government-launches-consultation-on-400m-bilateral-green-hydrogen-auction-with-canada/2-1-1851305>

²¹² <https://inspenet.com/en/noticias/saudi-arabia-boosts-its-green-hydrogen-leadership-with-mega-plant-in-yanbu/>

²¹³ <https://www.hydrogeninsight.com/industrial/competitive-with-fossil-fuels-australian-firm-secures-a-44-9m-grant-for-green-hydrogen-based-iron-project/2-1-1850177>

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hydrogen. Mibgas plans further refinements by incorporating real-world price data into future updates.²¹⁴

BP Exits Massive Australian Green Hydrogen and Renewables Project

Jul 24th: BP has withdrawn from the Australian Renewable Energy Hub (AREH), stepping down as both operator and equity holder. The project, which includes plans for up to 26 GW of wind and solar to support green hydrogen and ammonia production, had seen BP take a 63.57% stake after joining in 2022. The company cited its recent strategy shift toward upstream oil and gas as the reason for exiting. BP stated the project no longer aligns with its current direction but pledged a smooth handover. Remaining partners InterContinental Energy and CWP confirmed that development will continue, with InterContinental now assuming operatorship. AREH is expected to host over 12 GW of electrolyser capacity once fully developed.²¹⁵

UK Proposes 2% Hydrogen Blend in Gas Grid as 'Offtaker of Last Resort' Mechanism

Jul 24th: The UK has launched a consultation on allowing up to 2% clean hydrogen by volume to be blended into the country's natural gas grid, primarily to act as a fallback offtake for hydrogen producers. The government states the goal is not to decarbonize heating or existing infrastructure, but to provide demand certainty in cases where offtake deals are delayed or cancelled. The proposal contrasts with a 2023 plan to allow up to 20% hydrogen blending, which received overwhelmingly negative feedback from industry. A survey conducted by Arup found most industrial, power generation, and gas storage users would face high costs, safety concerns, and long downtime with a 20% blend. Even a 5% blend was deemed problematic by most respondents, while only a 2% blend was seen as technically manageable by 13 out of 30 sites, all in power generation. The blending option would only be available to electrolytic hydrogen projects and is seen as a stopgap until dedicated hydrogen transport and storage infrastructure is built. The government also notes that cross-border impacts are expected to be minimal in the next three to five years, as neighboring EU countries either ban or tightly restrict hydrogen blending in shared gas networks.²¹⁶

UK to Release Updated Hydrogen Strategy in Fall

Jul 23rd: The UK government will publish an updated hydrogen strategy this autumn, aiming to fast-track delivery and refocus on hard-to-electrify sectors such as industry, dispatchable power, and long-duration energy storage. The strategy will also include a revised low-carbon hydrogen standard, updating the emissions threshold last set in 2023. While the UK maintains its 10 GW hydrogen target by 2030, only 125 MW of capacity was awarded in the first Hydrogen Allocation Round (HAR1), and the second round (HAR2), with 765 MW shortlisted, will not announce winners until early 2026. This means the UK's original 2025 target of 1 GW of electrolyser capacity in operation or under construction will be missed. A third allocation round is set for 2026, with a fourth in 2028. The government has confirmed plans for a Regulated Asset Base model to support hydrogen pipelines and a cap-and-floor mechanism for hydrogen storage, with the first transport and storage subsidy competitions launching in early 2026. Additional strategies for green steel, industrial decarbonisation, and maritime fuels are also in development.²¹⁷

UK Awards £63M to Hydrogen-Based Aviation Fuel Projects Ahead of SAF Mandate

Jul 22nd: The UK government has awarded £ 63m in sustainable aviation fuel (SAF) grants, with more than half directed toward projects producing e-fuels made from clean hydrogen. The funding supports the country's SAF

²¹⁴ <https://www.hydrogeninsight.com/production/price-signal-for-iberian-green-hydrogen-leaps-to-over-6-kg-as-gas-operator-updates-index-formula/2-1-1849667>

²¹⁵ <https://www.reuters.com/sustainability/climate-energy/bp-abandons-green-hydrogen-project-australia-shift-towards-oil-gas-2025-07-24/>

²¹⁶ <https://www.hydrogeninsight.com/policy/offtaker-of-last-resort-uk-launches-consultation-on-blending-hydrogen-into-natural-gas-infrastructure/2-1-1849632>

²¹⁷ <https://www.hydrogeninsight.com/policy/uk-government-to-publish-evidence-led-updated-hydrogen-strategy-this-autumn/2-1-1849460>

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mandate, which begins at 2% of jet fuel in 2025 and rises to 10% by 2030. A separate sub-mandate for hydrogen-derived synthetic fuels starts at 0.2% in 2028, increasing to 3.5% by 2040. Recipients include Essar Energy Transition, which received £2.5m for a methanol-to-jet facility linked to Manchester Airport, and companies like Equinor, Power2X, ETFuels, and Carbon Neutral Fuels. Projects use green or pink hydrogen and captured CO₂ to produce SAF. EET's plant alone is expected to process 550,000 tons of e-methanol and bio-methanol annually, with FEED completion targeted for March 2026 and FID by the end of 2027. The UK offers buy-out prices for non-compliance at £ 0.145/MJ for e-fuels, providing a price signal as the industry ramps up capacity.²¹⁸

Gasunie Reports Delays and Rising Costs in Dutch Hydrogen Pipeline Network

Jul 21st: Dutch state-owned gas infrastructure company Gasunie has confirmed delays and increased cost estimates for its national hydrogen transmission network, now expected to be completed by 2033 instead of the original 2030 target. Initial estimates of € 1.5bn have more than doubled to € 3.8bn, driven by permitting bottlenecks and a shortage of skilled labor. The first section between Rotterdam and Pernis remains on track for 2026. The company has also secured a provisional permit for its HyStock hydrogen storage project, targeting four salt caverns operational by 2030. To stimulate demand, the Dutch government plans to mandate hydrogen blending in gas-fired power stations, starting at 1% in 2030 and rising to 5% in 2035, backed by financial incentives for higher blending levels.²¹⁹

Norway's Green Hydrogen Plans Shrink by a Third as Developers Pivot to Data Centers

Jul 18th: Norway's planned green hydrogen capacity has dropped by 34% in just three months, according to grid operator Statnett. Major project cancellations, including the 600 MW Narvik Green Ammonia plant by Aker Horizons and Nordkraft, have shifted grid allocations to data center development. Statkraft has also cancelled the 50 MW Seven Steel hydrogen project and announced a full stop to new hydrogen investments. Only one new project, a 125 MW Equinor facility near Bergen, has secured grid capacity in the past year. Norwegian Hydrogen Association CEO Ingebjørg Telnes Wilhelmsen acknowledged delays and commercial challenges, citing high equipment costs, interest rates, and regulatory complexity. However, she remains optimistic due to improving support frameworks, falling interest rates, and international regulations that continue to push hydrogen forward. She emphasized Norway's strategic advantage in maritime hydrogen use and called for a more predictable CO₂ tax trajectory to enable competitiveness with fossil fuels.²²⁰

Netherlands Awards €700M in Green Hydrogen Auction, Falling Short of Full Budget

Jul 18th: The Dutch government has awarded € 700m in subsidies to 11 green hydrogen projects, supporting 602 MW of electrolyzer capacity under its € 998m national auction. While € 3.2bn in bids were submitted, only a portion of the budget was allocated, with unsuccessful applicants failing to demonstrate sufficient end-use or economic feasibility. Winners include major players such as HyCC (H2eron), Uniper (H2Maasvlakte), Vattenfall, Statkraft, Air Liquide, and Essent Hydrogen. Projects had until 2030 to complete construction and could receive up to € 9/kg to close the price gap with fossil hydrogen. Notable grants include € 10m for Den Tol's H2 Achterhoek and € 8m for FR Energyhubs' H2 Eeserwold. Vattenfall confirmed its 100 MW project is targeting a 2030 start. The auction is part of a € 2.1bn Green Growth Package that includes an additional € 662m in industrial demand-

²¹⁸ <https://www.hydrogeninsight.com/policy/uk-government-awards-millions-of-pounds-of-funding-to-ten-clean-hydrogen-based-aviation-fuel-production-projects/2-1-1848979>

²¹⁹ <https://www.hydrogeninsight.com/industrial/our-dutch-hydrogen-transmission-network-is-facing-delays-and-higher-estimated-costs-gasunie/2-1-1848409>

²²⁰ <https://www.hydrogeninsight.com/production/norways-hydrogen-plans-shrink-by-a-third-in-three-months-as-major-players-pivot-to-data-centres/2-1-1847939>

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side incentives. A 4% industrial hydrogen use mandate by 2030 is also under consideration.^{221,222}

EU Proposes Major Budget Hike for Cross-Border Hydrogen Infrastructure Funding

Jul 17th: The European Commission has proposed a massive funding increase for its Connecting Europe Facility (CEF) programs in the 2028–34 budget, with energy funding rising from € 5.84bn to € 29.91bn and transport funding doubling to € 51.5bn. These funds support cross-border infrastructure projects, including hydrogen pipelines, electrolyzers, ammonia terminals, and bunkering hubs. Hydrogen was included for the first time in the EU's PCI/PMI project list in 2024, making it eligible for CEF grants and streamlined permitting. Current PCI projects include Spain and Italy's hydrogen backbones, the BarMar subsea pipeline to France, and Austria's TransGas conversion. In early 2025, € 258m in grants were awarded to 21 hydrogen projects under this scheme. The updated budget also earmarks € 1bn to support alternative fuels infrastructure, including hydrogen refueling and maritime e-fuel supply. The proposal must now be approved unanimously by EU member states with consent from the European Parliament. A final PCI/PMI list update is expected in November 2025.²²³

Construction Begins on \$584M Green Hydrogen and Methanol Project in Northeast China

Jul 17th: A \$ 584M green hydrogen and e-methanol facility has officially broken ground in Shuangyashan, Heilongjiang province. The project aims to produce 119,000 tons of e-methanol per year using green hydrogen from a co-located wind farm and additional H₂ and CO₂ from biomass gasification. The development is led by a consortium including state-owned shipbuilder CSSC, its wind power subsidiary CSSC Haizhuang, Sichuan Hongzhan Industrial Group, and Jixian County. The site is part of a larger energy hub that also includes a separate facility under construction for 200,000 tons of methanol and 300,000 tons of synthetic aviation fuel annually.²²⁴

BHP: Green Iron Economics in Australia 'Do Not Stack Up' Compared to Other Countries

Jul 16th: BHP's Australian president has stated the economics of producing green iron using renewable hydrogen in Australia are unviable as compared to China and the Middle East, citing costs that are roughly double those in China or the Middle East. Instead, BHP will focus on maintaining Australia's dominance in upstream iron ore production and supporting emissions reductions via Chinese blast furnace innovations. BHP and Rio Tinto are still developing a green iron pilot plant in Kwinana, Western Australia, which includes a direct reduced iron (DRI) unit and electric smelting furnace. Initially, it will use fossil gas before transitioning to hydrogen. However, BHP emphasized that more meaningful emissions reductions over the next 20 years will come from improved Chinese blast furnace technology rather than reengineering iron ore processing in Australia.²²⁵

Germany Sets Hydrogen Pipeline Network Tariff at € 25/kWh/h/a

Jul 14th: Germany's Federal Network Agency has confirmed a national hydrogen pipeline usage fee of € 25 per kilowatt-hour of energy per hour annually (€ 25/kWh/h/a). This fixed tariff is designed to strike a balance between affordability for early users and long-term recovery of infrastructure investment costs through 2055. Germany's 9,000km hydrogen core network, set for completion by 2032, is expected to cost € 18.9B. A € 24B amortization account will allow operators to gradually repay costs, with the German government covering up to 76% of any remaining shortfall by 2055. The fee will be reviewed every three years, though it is expected to remain stable

²²¹ <https://www.hydrogeninsight.com/policy/dutch-government-announces-11-winners-of-near-billion-euro-green-hydrogen-subsidy-auction/2-1-1848045>

²²² <https://www.hycc.com/en/news/green-hydrogen-project-h2eron-awarded-owe-subsidy>

²²³ <https://www.hydrogeninsight.com/policy/eu-massively-boosts-budgets-for-cross-border-transport-and-energy-funds-that-provide-cash-for-hydrogen-projects/2-1-1847353>

²²⁴ <https://www.hydrogeninsight.com/production/construction-begins-on-584m-green-hydrogen-methanol-project-in-northeast-china/2-1-1847120>

²²⁵ <https://www.hydrogeninsight.com/industrial/hydrogen-in-steel-the-economics-of-producing-green-iron-in-australia-do-not-stack-up-says-local-iron-ore-giant/2-1-1847079>

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until the end of the amortization period. Initial sections of the hydrogen network, including Nowega's 55km GET H2 pipeline and a 25km connection to the Leuna refinery, are already being filled and commissioned.²²⁶

BP to Launch Buyer Call for Green Hydrogen from 100 MW Lingen Project

Jul 14th: BP is preparing to launch an open season on Jul 16th to gauge buyer interest for green hydrogen from its 100 MW project under construction at the Lingen refinery in northwest Germany. The project, which will use proton exchange membrane (PEM) electrolyzers supplied by Cummins' Accelera division (tbd), is expected to begin delivering renewable hydrogen in the second half of 2027.²²⁷

Provaris Scraps Export-Oriented Australian Green Hydrogen Project

Jul 10th: Provaris has cancelled its flagship green hydrogen project in the Tiwi Islands, which aimed to produce 100,000 tons of compressed hydrogen annually from 2.4 GW of solar power for export to Asia. The company cited two main reasons: lack of meaningful engagement from potential offtakers in Southeast Asia, and the absence of tangible support from key stakeholders. Despite the project receiving "major project status" from the Northern Territory government, Provaris admitted that the timeline and certainty of demand from buyers never materialized. Unlike other developers, Provaris intended to ship hydrogen as a compressed gas, arguing that liquefaction and conversion losses make derivatives less efficient. Lessons from the Tiwi project will now be applied to other ventures, including a proposed hydrogen shipping route from Norway to Uniper in Germany. The cancellation adds to a growing list of shelved Australian hydrogen projects due to market and infrastructure hurdles.²²⁸

World's Largest Off-Grid Green Hydrogen and Ammonia Plant Commissioned in China

Jul 10th: Envision Energy has officially commissioned the first 500 MW phase of its massive green hydrogen and ammonia complex in Chifeng, Inner Mongolia, now the largest in the world by installed electrolyzer capacity. The project will produce 320,000 tons of ammonia per year powered entirely by an off-grid system of wind turbines and batteries, with operations optimized by AI. The site began producing hydrogen in early 2024 and aims to export green ammonia starting in Q4 2025. Japanese firm Marubeni is an early offtaker. Envision plans to expand output to 1.5 million tons annually by 2028, targeting price parity with grey ammonia. The facility has already been certified by Bureau Veritas for producing renewable ammonia with a carbon intensity under 0.5kg CO₂-equivalent per kg NH₃, and it is pursuing ISCC Plus certification for EU RFNBO compliance.²²⁹

EU to Clarify Rules for Nuclear-Generated Hydrogen

Jul 8th: EU Energy Commissioner Dan Jørgensen has announced that the European Commission will soon finalize its long-awaited Delegated Act on low-carbon hydrogen, with specific guidance on hydrogen produced using nuclear power. Speaking during a visit to France's Cattenom Nuclear Power Plant, Jørgensen emphasized nuclear's potential to decarbonize hard-to-electrify sectors through hydrogen production. The draft Delegated Act released in 2024 included nuclear-powered electrolysis under its low-carbon hydrogen framework. Still, it drew mixed reactions for being both overly generous on methane leakage allowances and too strict on natural gas. Jørgensen stated the final version is imminent and aims to strike a balance that works across EU member

²²⁶ <https://www.hydrogeninsight.com/policy/german-government-officially-sets-network-fee-for-hydrogen-pipeline-users/2-1-1845812>

²²⁷ <https://www.hydrogeninsight.com/industrial/bp-to-launch-call-for-buyers-of-green-hydrogen-from-its-under-construction-100mw-project/2-1-1845724>

²²⁸ <https://www.hydrogeninsight.com/production/giant-export-oriented-australian-green-hydrogen-project-scrapped-after-failure-to-secure-offtakers/2-1-1844809>

²²⁹ <https://www.hydrogeninsight.com/production/world-s-largest-green-hydrogen-and-ammonia-plant-officially-commissioned-powered-entirely-off-grid/2-1-1844663>

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states. Additional clarity on hydrogen sourced from nuclear PPAs is also expected in 2026, though it remains unclear whether the timeline will be accelerated.²³⁰

India Cancels Green Hydrogen Hubs Tender After Deadline Passes

Jul 7th: India's Solar Energy Corporation (SECI) has cancelled its tender to establish at least two green hydrogen hubs by March 2026, despite receiving bids by the final submission deadline on July 1st. The two-billion-rupee (\$ 23.3M) program required each hub to produce at least 100,000 tons of hydrogen per year and did not include subsidies for electrolyzers, focusing instead on shared infrastructure like storage, pipelines, and ports. SECI will refund bidders' documentation and management fees, though the number of affected participants is unclear. This comes amid broader delays in India's green hydrogen rollout — including multiple relaunches of a separate 724,000-ton green ammonia procurement auction, now in its seventh iteration, with tighter delivery timelines and reduced trading margins.²³¹

Upcoming Conferences

July 1-2, 2025	Large Scale Solar Southern Europe 2025 – Athens, Greece
July 1-2, 2025	UK Solar Summit 2025 – London, UK
July 1-2, 2025	Wind Power Finance & Investment Summit 2025 – London, UK
Jul 1-2, 2025	Clean Power 2030 Summit 2025 – London, UK
July 8-9, 2025	Energy Storage Summit Asia 2025 - Asia
July 8-10, 2025	India Energy Storage Week (IESW) 2025 – New Delhi, India
July 9-10, 2025	Solar & Storage Live Vietnam 2025 - Ho Chi Minh City, Vietnam
July 10-11, 2025	RE+ Mid-Atlantic 2025 - Philadelphia, PA
July 21-23, 2025	Infocast PowerUp Data Centers 2025 – Dulles, VA
July 31-Aug 1, 2025	RE+ Storage 2025 – Santa Clara, CA
August 19-20, 2025	Infocast Midcontinent Clean Energy Summit 2025 – Indianapolis, IN
August 26-28, 2025	Infocast Texas Clean Energy Summit 2025 – Austin, TX
August 26-28, 2025	ees / Intersolar South America 2025 - São Paulo, Brazil
August 26-27, 2025	Solar & Storage Live Kenya 2025 – Nairobi, Africa
August 26-27, 2025	Battery Asset Management Summit Australia 2025 – Sydney, Australia
October 13-14, 2025	RE+ Florida 2025 – Orland, FL
September 2-4, 2025	ees Mexico 2025 – México City, Mexico
September 8-11, 2025	RE+ 2025 – Las Vegas, NV
September 10-12, 2025	SNEC 10th International Energy Storage Technology 2025 – Shanghai, China
September 16-17, 2025	Solar & Storage Live Zurich 2025 – Zürich, Switzerland
September 16-17, 2025	Large Scale Solar Southern Europe 2026 – Athens, Greece
September 23-24, 2025	Energy Storage Summit Central Eastern Europe 2025 – Warsaw, Poland
September 23-25, 2025	Solar & Storage Live UK 2025 – Birmingham, UK
September 25-26, 2025	Energy Storage Canada 2025 – Canada
September 29-30, 2025	Infocast Energy Tax Equity & Credit Markets 2025 – Houston, TX
September 30-October 1, 2025	Green Hydrogen Summit USA 2025 – Seattle, WA
September 30 – October 1, 2025	RE+ Centroamerica 2025 – Panama City, Panama
October 1-2, 2025	EV Infrastructure & Energy Summit 2025 – London, UK
October 6-9, 2025	The Battery Show North America 2025 – Detroit, MI
October 6-8, 2025	ACP Offshore WINDPOWER 2026 – Boston, MA
October 7-8, 2025	PV CellTech USA 2025 – San Francisco, CA
October 7-8, 2025	Energy Storage Summit Asia 2025 – Manilla, Philippines
October 8-9, 2025	Solar & Storage Live Italia 2025 – Veronafiere, Italy
October 12-14, 2025	Solar & Storage Live KSA 2025 - Riyadh Front, Saudi Arabia
October 14-15, 2025	Clean Energy Investment Summit 2025 – Houston, TX

²³⁰ <https://www.hydrogeninsight.com/policy/we-will-provide-more-clarity-on-hydrogen-produced-using-nuclear-power-promises-eu-energy-commissioner/2-1-1843269>

²³¹ <https://www.hydrogeninsight.com/policy/india-cancels-green-hydrogen-hubs-tender-and-offers-refunds-to-disappointed-bidders/2-1-1842723>
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October 14-15, 2025	Energy Storage Summit Latin America 2025 – Santiago, Chile
October 14-15, 2025	Battery Asset Management Summit UK & Ireland 2025 – London, UK
October 15-16, 2025	Solar & Storage Live Amsterdam 2025 - Amsterdam
October 15-16, 2025	Solar & Storage Live Cape Town 2025 – Cape Town, South Africa
October 21-22, 2025	Solar & Storage Finance USA Summit 2025 – New York, NY
October 27-29, 2025	ACP Recharge Energy Storage Summit 2025 – Austin, TX
October 28-29, 2025	Infocast Mountain West Renewables 2025 – Salt Lake City, UT
October 29-30, 2025	ACP PEAK: Performance, Modeling & Assessment Conference 2025 – Austin, TX
October 10-12, 2025	SNEC Energy Storage and Battery Expo 2025 – Shanghai, China
October 19-23, 2025	CARILEC Conference and Exhibition 2025 – Dominican Republic
October 20, 2025	RE+ Alaska 2025 – Anchorage, AK
October 29-30, 2025	All Energy Australia 2025 – Melbourne, Australia
October 31-November 1, 2025	Energy Storage Summit India 2025 – Greater Noida, India
November 3-5, 2025	Infocast Southeast Renewable Energy – Charlotte, NC
November 5-6, 2025	Solar & Storage Live Paris 2025 – Paris, France
November 6-7, 2025	Solar & Storage Live Indonesia 2025 - Tangerang, Jakarta, Indonesia
November 7-8, 2025	Reuters Energy Storage North America 2025 – Houston, TX
November 7-8, 2025	RE+ Midwest, 2025 - Chicago, Illinois
November 11-12, 2025	Battery Asset Management – San Diego, CA
November 13-14, 2025	Solar & Storage Live Barcelona 2025 - Barcelona, Spain
November 19-20, 2025	RE+ CHARGE H2 2025 – Seattle, WA
November 20-21, 2025	RE+ Península de Yucatán 2025 - Mérida, Yucatán, México
November 25-26, 2025	Large Scale Solar Central Eastern Europe 2025 – Warsaw, Poland
December 2-3, 2025	RE+ Community Energy 2025 - Schaumburg, IL
December 2-3, 2025	PV ModuleTech Europe 2025 – Malaga, Spain
December 2-3, 2025	Battery Asset Management Summit Europe 2025 – Rome, Italy
December 9-10, 2025	Reuters Energy LIVE 2025 – Houston, TX
January 14-15, 2026	RE+ Hawaii 2026 – Honolulu, Hawai'i
January 20-22, 2026	Powergen International 2026 – San Antonio, TX
January 20-23, 2026	ERCOT Summit 2026 – Austin, TX
January 28–29, 2026	Solar & Storage Live Thailand 2026 – Bangkok, Thailand
January TBD, 2026	2026 COSSA Solar Power Energy Storage
January 12-14, 2026	Infocast Projects & Money 2026 – New Orleans, LA
February 2-5, 2026	Distributech 2026 – San Diego, CA
February 3-4, 2026	Solar Finance & Investment Europe 2026 – London, UK
Feb 3-8, 2026	China International Battery Fair (CIBF2026) - Shenzhen, China
February 10-12, 2026	Solar Power Africa 2026 - Cape Town, South Africa
February 18–20, 2026	Intersolar / Energy Storage North America 2026 - San Diego, CA
February 4-5, 2026	RE+ Northeast 2026 - Boston, MA
February 24-25, 2026	Energy Storage Summit 2026 – London, UK
March 4-6, 2026	Operations, Maintenance & Safety Conference Orlando 2026, FL
March 10-11, 2026	PV CellTech Europe 2026 – Frankfurt, Germany
March 11-12, 2026	Energy Storage Show – Birmingham, UK
March 11-12, 2026	RE+ Microgrids 2026 – Houston, TX
March 11-12, 2026	RE+ Texas 2026 – Houston, TX
March 15-18, 2026	Infocast Solar Wind Finance and Investment 2026 – Phoenix, AZ
March 17-18, 2026	Energy Storage Summit Australia 2026 – Sydney, Australia
March 18-20, 2026	Solar & Storage Live Africa 2026, Johannesburg, South Africa
March 18-19, 2026	Solar & Storage Live Queensland 2026 – Brisbane, Australia
May 19-20, 2026	The Solar Show Philippines 2026 – Manilla, Philippines
March 23-24, 2026	RE+ Cono Sur 2026 – Santiago, Chile
March 24-25, 2026	Energy Storage Summit USA 2026 – Dallas, TX
March 24-25, 2026	Large Scale Solar Europe 2026 – Rome, Italy
March 30–April 1, 2026	ACP Siting & Permitting Conference 2026 – Aurora, CO
April 1-2, 2-26	Energy Storage International Conference and Expo (ESIE 2026) – Beijing, China
April 7-9, 2026	Middle East Energy (MEE 2026) – Dubai
April 9-10, 2026	Solar & Storage Live Malaysia 2026 - Kuala Lumpur, Malaysia

Fractal Energy Storage Consultants News

Fractal is a specialized energy storage consulting and engineering firm that provides expert consulting, independent engineering, and advisory services for energy storage and hybrid projects.



KEY SERVICES

Financial Analysis

- Project Lifetime Investment Analysis
- Cost Analysis and Benchmarking
- Revenue Analysis and Benchmarking
- Seller Model Preparation
- Feasibility Studies
- Bankability Analysis
- Power Market Pricing Assessment
- RFP Offer Preparation
- Long-Term Power Market Forecasts

Market Analysis

- ISO/RTO Market Analysis
- Development Roadmap / Go-to-Market
- Energy Storage Trends
- Custom Topic Whitepapers

Expert Contract Support

- Turnkey Form of Agreement Preparation (Supply, SLA, Turnkey EPC, EPC, PPA, Full Toll, Virtual Toll, ESSA, Warranty)
- Technical Exhibit Preparation or Review (DOR, Scope, EMC/MPC/SCADA, Technical Specifications, Test Plans, Performance Guarantees)
- Negotiation Support (Supply, SLA, Turnkey EPC, EPC, PPA, Full Toll, Virtual Toll, ESSA, Warranty)
- Availability and Performance Guarantees, LDs and Caps

Due Diligence Services

- Financial, Technical, and Commercial Due Diligence Review to Support Investment, Finance, M&A, and Tax Equity Transactions

Independent Engineering Services

- Independent Engineer Review and Report
- Fatal Flaw Analysis
- Technology Assessment
- Energy Production Review
- Cost Estimation and Critical Path Schedule Development
- Commissioning Test Plan Development and Review
- Commissioning Witness/Certification
- Annual Performance Verification
- Technical Dispute Resolution
- Fire Safety Review
- SLD and Site Layout Preparation
- 3D Modeling Services
- 30%, 60%, IFP, IFC Design / Drawing Review

Procurement Support

- Procurement Strategy Advising
- RFP Package Drafting
- Bid Evaluation and Scoring

M&A Services

- Arrange and Lead Competitive Sales Processes for Assets and Equipment
- Buy-side and Sell-side Representation
 - Development and Operational Assets and Platform Advisory Services

FRACTAL MODEL TECHNOECONOMIC MODELING SOFTWARE

INVESTMENT-GRADE BATTERY STORAGE AND HYBRID DESIGN AND ANALYSIS TOOL

V25.6 RELEASED ON JUNE 30TH - SCHEDULE A DEMO

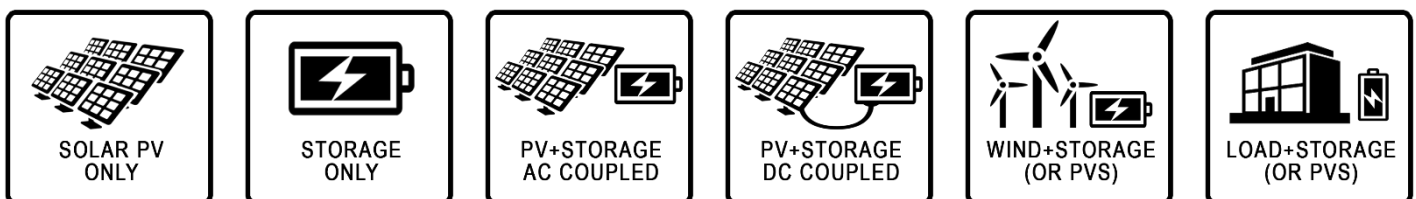


STANDALONE STORAGE OR HYBRID SYSTEM ANALYSIS

The Fractal Model is a bankable, techno-economic modeling tool used for project development, due diligence, and RFP evaluation. Used by hundreds of companies globally, the Fractal Model provides investment-grade analysis while simulating performance, degradation, warranty, costs, and revenues to optimize the economics of your energy storage and hybrid projects.

The Fractal Model platform is a cloud-based solution and is available through a license with quarterly updates. The Fractal Model is used by electric utilities and tier-1 energy companies (developers, EPCs, integrators) to perform battery storage sizing, dispatch, and financial analysis. Fractal Model strives to be the energy market's choice for transparent, real-world storage investment analysis.

Contact Rahul Verma (rahul@fractalba.com) for a demo.



Fractal Model v 25.6 Key Updates Include:

1. Custom TB benchmarks, trading horizon, and variable O&M
2. Expanded gas model with heat rate settings
3. Custom 40-year generation and curtailment profile

SUPPORTED USE CASES AND CONFIGURATIONS

STANDALONE OR HYBRID PROJECTS

- Standalone BESS
- Solar PV (AC and DC Coupled)
- Wind
- Load

REVENUE SOURCES

- ISO/RTO Market Participation
- PPAs and Tolling Contracts
- Retail Energy and Demand Charge Offsets

BESS APPLICATIONS

- Wholesale Power and Ancillary Services
- Renewable Energy Shifting
- Load Following and Peak Shaving
- Capacity Market Obligations
- Solar PV Smoothing and Firming
- Curtailment Reduction
- Solar PV Clipped Energy Recapture

WHOLESALE MARKETS

- Built-in Functionalities for all North American Markets
- Customizable for European and Asia Pacific Markets

INTERCONNECTION

- Front-of-the-meter
- Behind-the-meter

TECHNOLOGIES

- Lithium-ion (multiple LFP, NMC, LTO, etc.)
- Flow Batteries (multiple)
- Zinc Aqueous
- Sodium Sulphur Batteries

TAX INCENTIVES

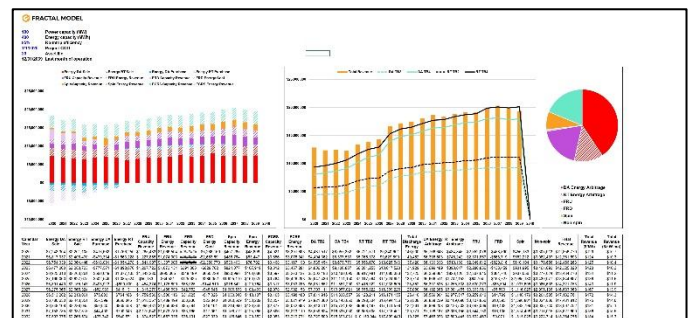
- Investment Tax Credit
- Production Tax Credit
- State Incentives

STATE LEVEL PROGRAMS

- CA Self-Generation Incentive Program (SGIP)
- MA Solar Massachusetts Renewable Target (SMART)
- NY Value of Distributed Energy Resources (VDER)
- MA Clean Peak Energy Standard
- MA / RI Connected Solutions
- NY Index Storage Credits (ISC)
- Custom – Build Your Own

INVESTMENT-GRADE ANALYSIS

Fractal Model's financial model generates detailed cash flow results used for investment analysis worldwide. Fractal Model supports tax equity cash flow, back leverage, construction loans, and other advanced financial model features. Users can perform sensitivity analysis by changing annual escalators for capacity payments, arbitrage revenue, ancillary revenue, warranty costs, aux load costs, corrective maintenance, etc., to derisk project economics.



Fractal EMS News



BMS/EMS/PPC KEY FEATURES

Fractal EMS combines advanced features with competitive pricing to create the industry's best energy storage and hybrid controls value.

- ✓

TECHNOLOGY AGNOSTIC

Flexible architecture that allows you to use different types of batteries and PCS.
- ✓

MADE IN THE U.S.A.

Fractal EMS is U.S.-made with in-house controller and FNE assembly and in-house software development
- ✓

TURNKEY CONTROLS

Full-stack controls and software for EMS/SCADA/MPC. Fractal designs, installs, and commissions the controls, networking, SCADA, historian, and HMI.
- ✓

LOCAL CONTROLS

Fractal hosts the historian and HMI on-site and off-site (the equipment controls are on-site and do not need the cloud).
- ✓

PV+S (SOLAR + STORAGE)

Hybrid (AC or DC coupled), solar-only, storage-only, AC and DC coupled.
- ✓

DATA RETENTION

Fractal stores data for the life of the contract to support warranty claims and asset sales.
- ✓

VERTICAL CONTROLS

Fractal provides a range of options including unit controller, site controller and MPC.
- ✓

SCALABLE

An open, modular platform that can control multiple sites with 100+ PCS. Fractal provides a fleet-level view of your portfolio.
- ✓

CYBER SECURITY

Built on ISO 27001, NERC CIP, and NIST 800-53 framework. Highly experienced in-house cyber/IT team with third-party auditing.
- ✓

EXPERIENCED TEAM

Our team has over a decade of energy storage controls development, integration, commissioning, and operations.
- ✓

BUILT FOR HIGH RELIABILITY

Hardened equipment backed by a high availability guarantee.
- ✓

DIAGNOSTICS

Performance analytics to maximize performance and uptime.

LATEST PROJECT AWARDS

Fractal EMS has been awarded 130 projects for 2025 and 55 projects for 2026+ – thank you so much!! Our team will be working hard to COD these projects on time. The following projects were awarded in the last few weeks:

90 MW / 360 MWh Standalone BESS	California	CAISO Market Participation
267 MW / 1068 MWh Standalone BESS	California	CAISO Market Participation
45 MW / 90 MWh Standalone BESS	Finland	Merchant and Grid Services
60 MW / 120 MWh Standalone BESS	Lithuania	Merchant and Grid Services

UNLOCK YOUR SUPPLY CHAIN

Fractal EMS can integrate, commission, and provide best-in-class cybersecurity for the following battery systems and inverters. Contact us for more information on alternative suppliers:

- Vertical equipment: Tesla, Sungrow, LGES, CLOU, Powin, AESI
- Batteries: A123, AESC, Amperon, ATESS, ATL, BYD, CALB, CATL, Cornex, COSPOWERS, CRRC, Cube Energy, Desay, ECO Power, Eneon, Envision, E-Storage, EVE Energy, EVLO, Goldwind, Gotion, Great Power, Hithium, Hyperstong, PotisEdge, JA Solar, JD Energy, JinkoESS, Kore Power, Linyang, Lishen, Narada, Our Next Energy, Power X, RCT Power, RelyEZ, REPT Battero, Risen, Samsung, Sinexcel, Sunwoda, SVOLT, Tecloman, Trina Storage, Wolong, Zentech, Zetara Power, Zenergy, ZTT
- Inverters: PE, SMA, EPC Power, Sungrow, Sineng, Dynapower, Ingeteam, Kehua, Huawei, CRRC, Sinexcel, NR Electric, TBEA

New TEAM MEMBERS

Fractal welcomes the following new team members!!

- Matt Rutter-Reese, ROC Operator
- Jacob Gulden, ROC Operator
- Kevin Greenwood, Operations Engineer

SCHEDULE A DEMO

Schedule a demo today. Feel free to reach out about bidding on your projects (Fractal partners with vendors and EPCs to provide quotes):

- Corrie@FractalEMS.com
- Alice.Lu@FractalEMS.com