

ENERGY STORAGE OUTLOOK IN 2025



Will energy storage grow in 2023? Global energy storage's record additions in 2023 will be followed by a 27% compound annual growth rate to 2030, with annual additions reaching 110GW/372GWh, or 2.6 times expected 2023 gigawatt installations. Targets and subsidies are translating into project development and power market reforms that favor energy storage.



How big will energy storage be by 2030? BNEF forecasts energy storage located in homes and businesses will make up about one quarter of global storage installations by 2030. Yayoi Sekine, head of energy storage at BNEF, added: 'With ambition the energy storage market has potential to pick-up incredibly quickly.'



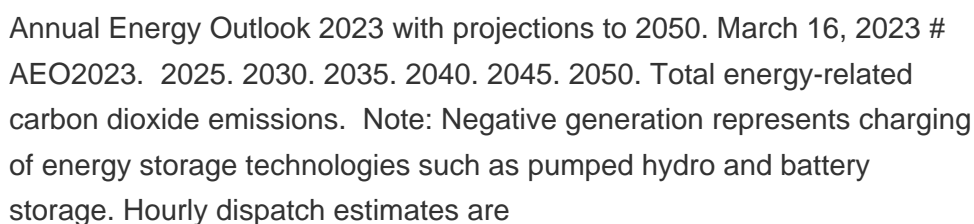
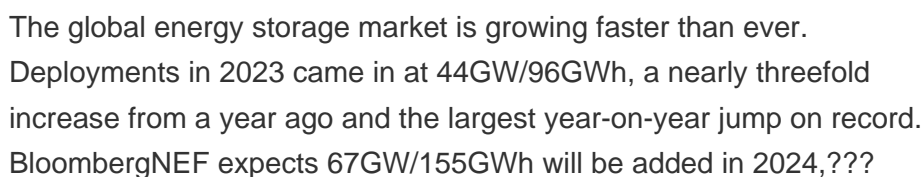
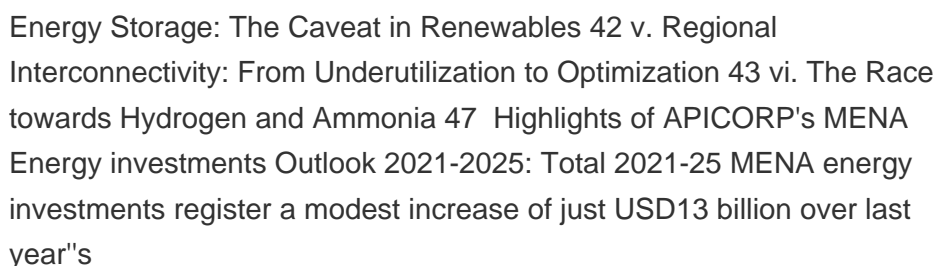
Will China install 30 GW of energy storage by 2025? In July 2021 China announced plans to install over 30GW of energy storage by 2025 (excluding pumped-storage hydropower), a more than three-fold increase on its installed capacity as of 2022.



How much energy storage will the world have in 2022? New York, October 12, 2022 'Energy storage installations around the world are projected to reach a cumulative 411 gigawatts (or 1,194 gigawatt-hours) by the end of 2030, according to the latest forecast from research company BloombergNEF (BNEF). That is 15 times the 27GW/56GWh of storage that was online at the end of 2021.'



What is the future of energy storage? Storage enables electricity systems to remain in balance despite variations in wind and solar availability, allowing for cost-effective deep decarbonization while maintaining reliability. The Future of Energy Storage report is an essential analysis of this key component in decarbonizing our energy infrastructure and combating climate change.



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U.S. battery storage capacity has been growing since 2021 and could increase by 89% by the end of 2024 if developers bring all of the energy storage systems they have planned on line by their intended commercial operation dates. Developers currently plan to expand U.S. battery capacity to more than 30 gigawatts (GW) by the end of 2024, a capacity that would ???



MITEI's three-year Future of Energy Storage study explored the role that energy storage can play in fighting climate change and in the global adoption of clean energy grids. Replacing fossil ???



the seasonal storage of hydrogen. ??? Hydrogen transportation network and storage capacity can expand if economic to do so. Annual Energy Outlook 2025 Modeling Update Presentation AEO, Modeling, 2025, Annual Energy Outlook, CCATS, HSM, HMM, hydrogen, end-use demand, power, electricity, National Energy Modeling System (NEMS)



For sense of the market value at play here, Navigant report: \$9.2 billion in 2020 to \$36 billion by 2025 and nearly \$60 billion by 2030. Lithium-ion's success ??? a function of cost and performance. While Eller is positive over the outlook for energy storage, noting that there has never before been more development or deployment of energy



Senior Research Analyst, Energy Storage . Vanessa is a senior energy storage analyst focused on US front-of-the-meter battery storage. Latest articles by Vanessa . Featured 29 January 2024 Global energy storage: five trends to look for in 2024; Opinion 5 October 2023 Learnings from RE+: A sunny outlook for US solar and storage ; Opinion 2

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U.S. energy storage capacity could expand to more than 30 gigawatts by year-end 2024, the EIA says. EIA Outlook Shows Energy Storage Capacity Doubling in 2024. Included in the more than 300 utility-scale battery storage projects expected to go online in 2024 or 2025 are: Lunis Creek BESS SLF (Texas, 621 MW); Clear Fork Creek BESS SLF



This Insight is part of the Energy Storage Market Outlook series. The residential segment is now the largest in the region and will remain so until 2025. Over \$1 billion (\$1.06 billion) has been allocated to storage projects in the past year, supporting a fresh pipeline of projects in Greece, Romania, Spain, Croatia, Finland and Lithuania



Seasonal energy storage Bioenergy with CCS (BECCS) Intermittency impacts Electricity pricing More fully represent policies including: IRA provisions (advanced manufacturing, energy communities, credit phase-out) Annual Energy Outlook 2025 Working Group Meeting - Electricity, Renewables, Coal, and Nuclear



New solar and wind resources, especially when paired with battery storage helped both Texas and California meet peak demand during record-breaking 2023 summer heatwaves. 41 US DERs are expected to reach approximately 387 GW by 2025, 42 and some utilities are working to harness these resources, including flexible load, to help balance the grid.



Related Today in Energy articles. May 24, 2023; EIA explores effects of liquefied natural gas exports on the U.S. natural gas market; May 15, 2023; Incentives and lower costs drive electric vehicle adoption in our Annual Energy Outlook 2023; May 11, 2023; EIA projects coal capacity will decrease in our Annual Energy Outlook 2023

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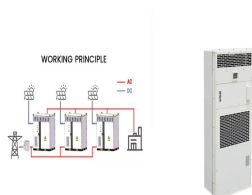
U.S. Energy Information Administration | Short-Term Energy Outlook 2
Overview U.S. energy market indicators 2023 2024 2025 Brent crude oil spot price (dollars per barrel) \$82 \$81 \$78 Retail gasoline price (dollars per gallon) \$3.50 \$3.30 \$3.20 U.S. crude oil production (million barrels per day) 12.9 13.2 13.5 Natural gas price at Henry Hub (dollars per million British



To facilitate the rapid deployment of new solar PV and wind power that is necessary to triple renewables, global energy storage capacity must increase sixfold to 1 500 GW by 2030. ???



Developers and power plant owners plan to significantly increase utility-scale battery storage capacity in the United States over the next three years, reaching 30.0 gigawatts (GW) by the end of 2025, based on our latest Preliminary Monthly Electric Generator Inventory.. Developers and power plant owners report operating and planned capacity additions, including ???



Indeed, of the US\$3 trillion in global energy investment expected in 2024 ??? a record high ??? some US\$2 trillion will be in clean energy technologies and infrastructure, close to twice the ???



Explore the 2025 Global Energy Outlook: rising demand, renewables growth, energy security, and innovations in battery storage for a resilient sustainable future. The IEA emphasizes the importance of strengthening grid infrastructure and enhancing energy storage capabilities to ensure a stable and reliable electricity supply as the share of

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The group's H1 2022 Energy Storage Market Outlook report was published shortly before the end of March. While acknowledging that near-term deployments have been dampened by supply chain constraints, there will be a 30% compound annual growth rate in the market, BloombergNEF predicted. perhaps even before that 2025 deadline. Germany



Explore the Data-driven Energy Storage Industry Outlook for 2024. The Energy Storage Industry Report 2024 uses data from the Discovery Platform and encapsulates the key metrics that underline the sector's dynamic growth and innovation. The energy storage industry shows robust growth, with 1937 startups and over 13900 companies in the database.



Since the plan was released, 12 provinces and cities have announced 2025 cumulative energy storage deployment targets, totaling around 40GW. Want a closer look at the outlook for the Americas, Asia Pacific, Europe, the Middle East, Africa, Russia and Caspian? Visit the store to access our latest Global energy storage market outlook update in full.



BNEF's 2H 2022 Energy Storage Market Outlook sees an additional 13% of capacity by 2030 than previously estimated, primarily driven by recent policy developments. This is equal to an extra 46GW/145GWh. The significant utility-scale storage additions expected from 2025 onwards align with the very ambitious renewable targets outlined in the



New energy storage refers to electricity storage processes that use electrochemical, compressed air, flywheel and supercapacitor systems but not pumped hydro, which uses water stored behind dams to generate electricity when needed. (2021-25) has made a clear goal for the per unit cost of energy storage to decrease by 30 percent by 2025

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Annual Energy Outlook 2025 Working Group Meeting. Overview
 ???AEO2024 pause and AEO2025 enhancements ??? S& P Global
 Grid-Connected Energy Storage Market Tracker: H2 2023???about 80%
 of BTM battery storage installations through 2030 will be residential versus
 commercial and industrial



Enkon Energy Advisors is excited to host the inaugural 2025 Natural Gas
 Storage Forum, a unique and timely event bringing together various
 stakeholders and gas industry experts to offer their perspectives on
 natural gas storage trends, market drivers, development challenges,
 financing & investment opportunities and long-term fundamental outlook.



Energy transition investment outlook: 2025 and beyond Including new
 insights from 1,400 global energy transition investors energy storage,
 decarbonization, and networks/grids, as well as to the infrastructure
 related to any of these. 2 World Energy Investment 2024, IEA, June 2024.



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 opportunities and market challenges with cutting-edge data. We're here to
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Energy storage installations worldwide are expected to increase 20 times
 its current capacity to a cumulative 358 GW/1,028 GWh by the end of
 2030, says research company BloombergNEF's 2021 Global Energy
 Storage Outlook. stricter renewable integration rules and an ambitious
 installation target of 30 GW by 2025 is expected to drive growth.



. More than half of US states have adopted renewable energy goals, such
 as California's target of 100% clean Soaring project development
 pipelines underpin a strong near-term outlook for energy storage markets
 in the United States, and to a lesser extent Canada. As the battery energy

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storage industry gathers momentum, state targets