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The culprit behind the degradation of lithium-ion batteries over time is not lithium, but hydrogen atoms emerging from the electrolyte, a new study finds. This discovery could improve the performance and life expectancy of a range of rechargeable batteries.

Stanford, SLAC, and 13 other research institutions, funded by the U.S. Department of Energy, seek to overcome the major limitations of a battery using water as the primary component of its electrolyte.

Charging lithium-ion batteries at high currents just before they leave the factory is 30 times faster and increases battery lifespans by 50%, according to a study at the SLAC-Stanford Battery Center.

A new method for extracting lithium from briny water offers a more efficient, cost-effective, and environmental alternative to traditional lithium production. It could also help solve lithium supply chain issues.

Stanford research finds the cost-effective thermal properties that make "firebricks" suitable for energy storage could speed up the world"s transition to renewable energy at low cost.

Stanford researchers have discovered that the cycle life of a lithium metal battery can be improved simply by letting it rest for several hours in the discharged state.

Solar with battery storage and microgrids provide backup power during grid disruptions and prevent interruptions to student learning. Schools with these technologies can serve as emergency community shelters during natural disasters and prolonged power outages. Learn how Albuquerque Public Schools became a state leader in the deployment of solar plus battery storage.

School districts are transitioning away from fossil fuels by electrifying their buildings and vehicles and switching to clean energy power sources. Learn how Pittsburg Unified School District has taken a comprehensive approach to sustainability that includes building electrification, electric vehicles, solar, and battery storage.

Community solar expands access to the benefits of solar to renters and those who can"t install their own solar array. Schools are increasingly participating in community solar projects as the hosts and as subscribers. Learn how the high school on the Blackfeet Indian Reservation is hosting a community solar project in order to help its neighbors lower their electric bills.

Solar photovoltaic installer is expected to be one of the country"s fastest growing occupations over the next decade. High schools around the country are training their students with the skills and knowledge to start a

career in this dynamic sector. Learn how Denver Public Schools developed a summer Renewable Energy Academy to give its students a head start on careers in clean energy.

Solar technology is being used by schools in creative ways to provide real-world, hands-on learning opportunities in science, technology, engineering, and math. Learn how Tucson Unified School District is cultivating future scientists with hands-on research in agrivoltaics.

Community activists are speaking up and urging their schools to transition to clean energy and be part of the climate solution. Learn how students and parents in Miami, Florida led the charge for a commitment to reach 100% clean energy by 2030.

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