

Electric vehicles could soon boost renewable energy growth by serving as "energy storage on wheels" -- charging their batteries from the power grid as they do now, as well as reversing the flow to send power back and ...

Electric Vehicle Benefits and Considerations All forms of electric vehicles (EVs) can help improve fuel economy, lower fuel costs, and reduce emissions. Using electricity as a power source for transportation improves public health and the ...

Use this tool to search for policies and incentives related to batteries developed for electric vehicles and stationary energy storage. Find information related to electric vehicle or energy storage financing for battery development, including ...

WASHINGTON, D.C. -- The U.S. Department of Energy (DOE) today issued two notices of intent to provide \$2.91 billion to boost production of the advanced batteries that are critical to rapidly growing clean energy ...

Breakthroughs in battery technology are transforming the global energy landscape, fueling the transition to clean energy and reshaping industries from transportation to utilities. With demand for energy storage soaring, what's ...

Vehicles, and the fuel it takes to power them, are an essential part of our American infrastructure and economy, moving people and goods across the country. From funding research into technologies that will save Americans ...

NREL's EVI-EDGES model configures optimal, cost-effective behind-the-meter-storage (BTMS) and distributed generation systems based on the climate, building type, and ...

Through this project, Anovion will invest in large-scale battery materials manufacturing and strengthen the domestic lithium-ion battery supply chain critical to multiple industries - ...

This roadmap is a document of the U.S. DRIVE Partnership. U.S. DRIVE (Driving Research and Innovation for Vehicle efficiency and Energy sustainability) is a voluntary, non-binding, and non ...

Energy Storage NREL innovations accelerate development of high-performance, cost-effective, and safe energy storage systems to power the next generation of electric-drive ...

Hydrogen storage is a key enabling technology for the advancement of hydrogen and fuel cell technologies in

applications including stationary power, portable power, and transportation. Hydrogen has the highest energy per mass of any ...

This aqueous coating technology combined with doubling the electrode thickness substantially improves energy density, increasing driving range for electric vehicles. Energy storage research at ORNL is ultimately focused on gathering ...

Technologies from electric vehicles to electric water heaters, stovetops and even electric airplanes enable the electrification for a cleaner energy future. Learn about promising technology at various stages of market readiness and adoption.

This paper provides an overview of recent advances in battery technology resulting from the Department of Energy's (DOE's) energy storage research and development ...

The figure shows that for the sub-minute level response supercapacitors are the main option. The rapid cost declines that lithium-ion has seen and are expected to continue in the future make ...

Bidirectional electric vehicles employed as mobile batteries can be mobilized to a site prior to planned outages or arrive shortly after an unexpected power outage to supplement local generation or serve as an emergency reserve.

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