



Battery storage for national grid

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Stationary batteries, like the one pictured, allow buildings to reduce reliance on grid power by storing energy that can be used during times of peak demand. Photo by Dennis Schroeder, NREL

Energy efficient buildings of the future are turning to holistic behind-the-meter storage (BTMS) system designs to minimize costs and grid impacts due to their ability to integrate electric vehicle charging, photovoltaic generation, and building demands using controllable loads to generate and store energy on-site.

As part of the U.S. Department of Energy's BTMS Consortium, researchers at the National Renewable Energy Laboratory (NREL) are leading the development of new lithium-ion (Li-ion) battery designs specific to the stationary storage requirements.

"We already know a lot about Lithium-ion batteries, but batteries for different applications have different requirements," said NREL Researcher and Project Leader Yeyoung Ha. "Our research looks at how to leverage the developments from electric vehicle battery research for new applications in stationary storage."



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