

Energy storage for backup power belmopan

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I'm fortunate to live in an area of the United States where I've rarely worried about power outages beyond an occasional, harmless blip - until recently, that is. After enduring rolling blackouts during a severe cold snap (Winter Storm Elliott) in December 2022 and a multi-day outage arising from violent thunderstorms last August, I now pay serious attention to reliability and backup power. Of course, much of the rest of the country was already in this boat, and the boat seems to grow larger each season.

There are, well, a boatload of reasons why interest in grid reliability and backup power is attracting more attention nationally. In addition to cold snaps and summer storms, power outages have sprung from winter storms, hurricanes, wildfires, vandalism and terrorism, and preventative power shut-offs by utilities. Some of these menaces have become more frequent and more extreme. Others have emerged as new threats - and realities - in areas where they didn"t previously occur, or only occurred very rarely.

Traditionally, onsite backup generators have been powered by fossil fuels. But this is changing. Thanks to mounting interest in decarbonization, robust financial incentives (including tax incentives available under the federal Inflation Reduction Act), technology advances, new market opportunities and industry leadership, behind-the-meter (BTM) solar and battery storage systems are becoming a viable alternative. During an outage, these systems can power critical loads or provide whole building back-up for homes and non-residential buildings.

With respect to the actual deployment of BTM solar+storage systems that can provide home backup generation, progress and innovation have been driven primarily by major solar+storage companies, such as Sunrun, in certain states. Policy frameworks heavily influence markets and customer demand, and these frameworks vary significantly from state to state, and even from utility to utility within a state.

Examples of utility programs that offer incentives for BTM residential battery storage that's commonly paired with PV - and which allow the customer's system to provide backup generation, when needed - include:

Green Mountain Power"s Bring Your Own Device (BYOD) program in Vermont offers residential customers up to \$10,500 to buy a battery system that GMP may access and discharge to benefit the grid. Participants choose a qualifying battery, an installer, and the amount of energy they"d like to enroll. GMP will "make adjustments when possible to avoid completely discharging a battery for the purpose of achieving grid benefits during or prior to a pending weather event that could create outages."

Rocky Mountain Power's Wattsmart Battery program in Utah offers an upfront incentive and annual bill credits to customers (including residential customers) who install approved BTM battery systems. In return, RMP manages and dispatches participants'' batteries for grid support. RMP does not discharge batteries below



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10%, so that participants may use their batteries during outages. Customers with paired solar+systems - including existing PV systems - are welcome to participate.

LBNL"s new report, Solar+Storage for Household Back-up Power: Implications of building efficiency, load flexibility, and electrification for backup during long-duration power interruptions, is the second in a series of studies, developed in collaboration with the National Renewable Energy Laboratory (NREL), to analyze the use of solar+storage systems for backup power.

LBNL continues to conduct work in this area, with plans over the coming year to explore the tradeoffs customers face between reserving their storage capacity for backup power applications and other uses, such as utility bill savings. Through that work and other recent studies, the team has extended its analysis to consider not only long-duration power interruptions, but also the shorter, but more frequent and unpredictable power interruptions customers often face. To learn more about LBNL's future work or to offer input into research design, contact Galen Barbose.

Rusty joined SEPA as manager of research and industry strategy in 2020. He serves as staff leads for SEPA's Customer Programs Working Group, is a primary contributor to SEPA's Utility Transformation Challenge and SEPA's Utility Carbon-Reduction Tracker, and coordinates responses to SEPA members' research requests, among other project work.

Prior to joining SEPA, Rusty served as a policy research manager at EQ Research, where he tracked and analyzed state-level legislative and regulatory developments relevant to solar, battery storage, EVs, and other DERs for industry, non-profit, and government clients. He also served for seven years as manager of the DSIRE project — the nation's most extensive public database of financial incentives for clean energy — at NCSU. Rusty received an M.A. from UNC-Chapel Hill.

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