Solar power storage

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Solar power storage refers to an integrated system that works alongside solar panels, capturing and preserving surplus energy. By employing solar battery technology, this stored electricity can be utilized during...

The most common type of energy storage in the power grid is pumped hydropower. But the storage technologies most frequently coupled with solar power plants are electrochemical storage (batteries) with PV plants and...

LBNL modeled results for systems installed in 10 U.S. locations (counties) that reflect a diverse range of geography, climates, insolation levels, and building stock (including heating type/fuel), and which take service under two common tariff structures - net billing and time-of-use (TOU) rates - that incentivize residential battery storage deployment. PV systems were sized at 100% of the customer"s annual consumption, up to the available roof area of the home.

Figure 2: LBNL"s modeled results for average annual total customer value for a BTM residential solar+storage system in 10 different U.S. locations. Line colors represent locations. Solid vs. dashed lines reflect two different tariff structures (i.e., net billing vs. TOU self-consumption). (Source: LBNL)

SEPA and LBNL are interested in learning more about how key industry stakeholders can - or should - put LBNL"s analysis, findings, and recommendations to use in order to benefit consumers and to support policy and industry goals, including decarbonization. Accordingly, we invite your feedback on the following questions:

To learn more about LBNL"s work addressing the use of solar+storage for backup generation, contact Rusty Haynes. To get involved in SEPA"s work in this area and adjacent areas, consider joining SEPA"s Customer Programs Working Group, Energy Storage Working Group, and/or Microgrids Working Group. (Participation is limited to SEPA members.)

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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