

# Better Buildings Alliance Plug and Process Loads Technology Research Team

July 2022

## Resource Spotlight

- Coming soon... Keep your eye out for a new resource coming to the Better Buildings Plug and Process Loads [website](#). Published by NREL, the *Assessing and Reducing Process Loads* fact sheet will provide guidance on larger plug and process loads, many of which are hard-wired such as elevators and freezers. It will also outline how to assess process loads in a building, describe the procedure for identifying which loads to target for reduction, and provide an overview of reduction strategies.
- Check out the recently published conference paper, [Resilience Metrics for Building-Level Electrical Distribution Systems with Energy Storage](#). In this paper, an existing metric is applied, the probability of outage survival curve (POSC), to building-level electrical distribution systems (BEDS) with storage and novel metrics are proposed that improve upon POSC. Through a simulation-based case study, we demonstrate how these metrics are impacted by the BEDS design and how they can be used to design a resilient system.

## Presentation Spotlight

- On July 19, Dr. Kim Trenbath presented at the American Society of Health Care Engineers Annual conference. Her talk on medical imaging equipment energy consumption was a part of a panel on Energy-Efficient Medical Equipment: Market Demand and Technical Solutions. The panel also included speakers from the U.S. Department of Energy, the U.S. Environmental Protection Agency, Atrium Health, Kaiser Permanente, and Memorial Hermann Health System.
- In June, Dr. Kim Trenbath and Omkar Ghatpande each presented at the U.S. Department of Energy Miscellaneous Electric Loads roundtable. Kim presented on the Automatic Type and Location Identification System (ATLIS) for Commercial Building Plug Load Management. You can check out the ATLIS fact sheet [here](#). Omkar presented *The DC Design Tool - Building Electrical Efficiency Analysis Model (BEEAM)*, which is an NREL developed open source Modelica-based toolkit to perform detailed electrical network efficiency analysis.

## On-Demand Webinars

- In May, CalPlug celebrated their 10-year anniversary and hosted their first in-person workshop since 2019. Take a look at their [summary page](#) to view all presentation videos from the event.
- Make sure to check out Amy LeBar's [presentation](#) at CalPlug titled, *Achieving commercial building resiliency through plug load management: Emerging technologies and strategies*. The recording can viewed [here](#).

## Contact Us

- Are you working on any plug and process load research or have data to share? Would you like to be more involved with the Plug and Process Loads Technology Research Team? If so, we would like to hear from you! Contact us at [PPL@nrel.gov](mailto:PPL@nrel.gov).