Better Buildings Alliance Plug and Process Loads Technical Research Team

Quarterly Updates – January 2020

Team Updates

- We published a journal article in Energy and Buildings titled, *Device-level plug load disaggregation in a zero energy office building and opportunities for energy savings*. In the study, we investigated how a limited number of smart plug metering devices and a device inventory could be used to uncover a disaggregated view of a building's plug load energy consumption. The approach is intended to be a more cost-effective method for understanding how and when devices consume energy and for identifying areas for energy savings.

- We hosted a webinar titled, *Zero Client Computing and Set Top Box Voluntary Agreements*. In this webinar, Amanda Farthing (University of Michigan) discussed her work comparing the energy consumption of zero client computing versus traditional laptop computing in the office setting and Jennifer Amann (American Council for an Energy-Efficient Economy) discussed her work on set top box and small network equipment voluntary agreements.

Upcoming Events

- We will be hosting a webinar on January 22nd titled, *How much energy are your devices consuming? Plug load disaggregation and a look to the future of device energy reporting*. The webinar will include two technical presentations. Bennett Doherty (National Renewable Energy Laboratory) will discuss the findings from our disaggregation study mentioned above and Bruce Nordman (Lawrence Berkeley National Laboratory) willpresent his team's work surrounding the ability for devices to self-report energy use from a recent report titled, *Energy Reporting: Device Demonstration, Communication Protocols, and Codes and Standards*. Register here for the webinar!

- We will be attending the Department of Energy's 2020 Lighting R&D Workshop in San Diego, CA from January 28th-30th. There we plan to connect with partners, stay up to date with the latest trends in lighting research, and identify best methods for plug load and lighting control integration. Let Kim (Kim.Trenbath@nrel.gov) know if you are attending the workshop so you and her can connect.

- The 2020 Better Buildings, Better Plants Summit is taking place in Arlington, VA from June 8th-10th and registration opens on January 21st. Let us know if you are planning on attending!