

Panel 11: Smart and Grid-Interactive Buildings

This panel focuses on innovative smart building solutions to enhance energy affordability, reduce energy costs, improve grid reliability, and manage load growth. Successful abstracts will incorporate the coordination and integration of demand flexibility, energy storage, and distributed energy resources in both commercial and residential buildings. We welcome novel visions as well as physical deployments, especially those that drive market transformation. We invite abstracts of individual presentations, panels, debates, or posters on the following topics, especially including partnerships across industry, academia, research institutions, and others:

- Novel applications of AI, data science, and machine learning to optimize grid performance
- Scalable deployments of smart building and smart grid components that reduce energy costs and increase reliability
- Business models and partnerships that promote private sector investment and adoption of energy improvement solutions
- Advancements in hardware, software, communications, and interoperability for grid-interactive buildings that demonstrate load flexibility
- Opportunities to identify and address barriers to introducing smart building/smart grid approaches to serve all communities
- Technologies and strategies that inform decision-making throughout the smart building or smart grid lifecycle