

## **PANEL 12: Smart Buildings and Grid-Interactive Buildings**

This panel covers the nexus of smart buildings and the evolving energy grid. New technologies and strategies hold the promise to enable energy-efficient, grid-interactive buildings at scale to support decarbonization of the buildings sector. This panel focuses on the effective integration of energy efficiency, demand flexibility, energy storage, distributed energy resources and electric vehicle charging in commercial and residential buildings.

We invite papers on the following:

- Novel applications of data science, modeling, management, visualization, network communication, machine and reinforcement learning, and optimization
- Technologies and strategies that support behavior change and inform decision-making throughout the building lifecycle
- Advancements in hardware, software, and communications interoperability for grid-interactive energy efficient buildings
- Business models and deployment strategies that increase adoption

A key cross-cutting theme is equity—the accessibility, viability, and effectiveness of these solutions for historically underserved communities and market sectors.