

Panel 1: Residential Buildings: Technologies, Design, Operations, and Industry Trends

With an emphasis on the intersection of residential buildings and equity, this panel will explore topics for both new construction and existing buildings. The topics should cover innovative technologies, designs, operations, or industry trends in the residential building sector. Energy technologies and solutions are rapidly advancing, diversifying, and integrating across markets, systems, and delivery channels. The following topics are suggested, but not exclusive, categories for sharing:

- Balancing energy efficiency and clean energy
- Ensuring equitable participation and distribution of innovative technologies
- Linking grid-interactive technologies, smart controls, and connected devices
- Scaling up pilot projects for existing buildings to program level requirements
- Moving technology solutions from the lab to the home
- Trending energy technologies or systems and their future.
- Demonstration and performance characterization of residential heat pumps and heat pump water heaters for cold climate zones
- Next generation residential heat pumps having GWP < 150.
- 120V heat pumps and heat pump water heaters for direct drop-in replacement of gas heaters.
- Storage integrated appliances and envelopes and HVAC equipment