

PANEL 10: New Construction: From Codes to Net Zero

This panel requests papers that explore efficiency, decarbonization and net-zero-energy efforts/initiatives in new construction and existing building renovation. Construction and renovation are the points in a building's lifecycle that provide the most significant opportunities to achieve deep, long-term energy and carbon emissions savings. In addition, as policies that affect existing building performance (such as Building Performance Standards) become increasingly popular, new and renovated buildings may be required to perform better than previously expected. Preference will be given to papers that can showcase deficiencies and barriers in these markets and provide evidence of successful practices or concepts that represent disruptive (as opposed to incremental) innovations and solutions. Proposals that achieve the following will be valued:

- Address equity, affordability, and underserved audiences
- Demonstrate business case for building owner and tenants
- Enable implementation at scale
- Simplify or reduce cost of approach
- Advance low operational and embodied carbon construction
- Align code and existing building performance policies
- Advance stretch codes or net zero code
- Accelerate code or policy adoption
- Illustrate performance-based approach
- Incorporate demand flexibility, grid interactivity, energy storage or EV charging
- Demonstrate innovative approaches to resiliency or passive strategies
- Improve code enforcement practice