

Abstract #: 271

Author Name: Mark Frankel

Author Company: New Buildings Institute

Second Author's Name: Alexi Miller, NBI

Abstract Title: Successful Metering and Feedback for Occupant Engagement

Abstract Text:

The impressive performance of current ZNE buildings demonstrates that effective performance metering and feedback systems are being delivered in the market today, and that it is possible to engage operators and tenants in day to day building performance decisions. ZNE and high performance buildings have demonstrated significant applications of leading edge technology, integrated design strategies, and operator and occupant engagement strategies to achieve impressive building performance outcomes. These strategies have the potential to deliver widespread energy savings in broader sectors of the commercial building market. In particular, ZNE buildings have successfully implemented performance data collection, analysis, and feedback mechanisms that allow operators and occupants to effectively participate in maintaining and improving building performance. As the role of occupant-driven loads continues to grow in the commercial building sector, feedback and engagement strategies become ever more critical to long term energy performance goals in the building sector. This presentation will identify the key characteristics of metering and feedback systems that have been successfully implemented on ultra-high performance projects. It will describe how these projects collect and distribute information about building performance to operators and occupants, and how these groups actively participate and manage building energy performance. A key focus of this presentation will be on identifying meaningful and actionable performance metrics and other information that can lead to better decisions and broad participation in successful building energy performance management. The presentation will focus on recent research completed by the New Buildings Institute on successful metering and feedback strategies in high performance buildings.