

Zero Place - Carbon-Neutral Multi-Family Building: First Year Occupancy Results + More Lessons Learned

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ABSTRACT

Carbon-neutral multi-family buildings are rapidly emerging into the marketplace given concerns about climate emissions and energy costs. However, in contrast to Carbon-neutral single-family homes, there are a number of unique challenges related to high-density buildings. Zero Place, a mixed-use, multi-family new construction project designed for Carbon-neutral performance that was completed in March 2022. The Zero Place project is also a recipient of the NYSERDA Buildings of Excellence Award which included the installation of energy and climate monitoring systems. This session will provide an overview of the design and engineering strategies along with the lessons learned through the first year of occupancy. Most importantly, we'll present the monitored results to date, including data related to energy consumption, peak demand, solar generation and domestic hot water efficiency along with indoor climate conditions. Zero Place is a living lab from which we can learn a lot about the real-world benefits and impacts of these pioneering construction strategies.

BIOGRAPHY

Pasquale Strocchia: Pasquale has over twenty-five years' experience in the housing sector and has been dedicated to High Performance Building since 2006. As a Building Performance Professional and Energy Rater, he has consulted on numerous projects Zero-Energy and Carbon-Neutral buildings.

Anthony Aebi: Anthony has been a builder since 1990. In 2007 built the first Zero-Energy Home, rated and certified to both the ENERGY STAR and DOE efficiency standards. Since then, he has built more than 35 additional "Carbon-neutral" homes that have been designed and constructed for a life cycle of at least seven generations.