

Net-Zero Modular Scalable Construction

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ABSTRACT

Join this session to hear about the innovative use of modular construction for achieving net zero building performance at two multifamily projects in Upstate NY. The first part of this session will cover Lake Tunnel Solar Village, a collection of townhomes built to meet NYSERDA's rigorous Net-Zero Standards in Geneva NY. You'll learn how the pods are constructed in the factory, how they are transported and assembled at the site, and about the mechanical systems used to create the fully integrated high-performance system. We will also share some valuable lessons learned with regards to constructibility and scalability. Part two of the session will center around the design of the Solar Pods project which builds upon the ideas implemented at Lake Tunnel Solar Village to arrive at a 72 unit net zero multifamily building consisting of micro-dwelling units and large shared communal spaces. You'll hear about the drivers behind this fresh approach to multifamily housing and the real-world solution to be implemented to the HVAC challenges it presents.

BIOGRAPHY

Chris Straile has been a practicing green building consultant for 8+ years. Chris specializes in on-site verification of high-performance programs, including whole building blower door testing. Chris consults with architects and developers on energy efficient design strategies and performs verification of energy performance for new construction and renovations for programs such as Passive House (PHIUS), ENERGY STAR® and LEED® for Homes. He holds a BS in Biology from SUNY Cortland, with experience working with the Syracuse Center of Excellence as a Home Energy Technical Advisor.