

Electrification of Existing Building HVAC Systems

Charles Bertuch, PE, Principal, Bergmann Associates

Abstract:

While electrification of HVAC systems is key to decarbonization, renovation of existing buildings presents unique and difficult challenges. In many cases technology has not advanced to allow conversion from fossil fuel-fired equipment to electric. Upgrade of electric infrastructure on the building, neighborhood and regional levels can also be costly or infeasible. This seminar will present a number of approaches to electrification of existing building HVAC systems for commercial and residential buildings, including steps that can be taken in the planning and design process to improve a project's feasibility and the likeliness of implementation.

Presenter Biography:

Mr. Bertuch has more than 35 years professional experience as a consultant and plant engineer. He is currently the Principal - Energy Solutions for Bergmann Associates in Syracuse, NY. He is a registered professional engineer (NY, MA, RI, MI), Certified Energy Manager, and LEED accredited professional, and WELL Building professional.

He has evaluated and implemented electrification of more than 80 existing buildings throughout the northeast and New England.

22nd Annual New York State Green Building Conference

– February 29th and March 1st, 2024 –

<https://www.esf.edu/greenbuilding/>