



AIA Provider: Northeast Sustainable Energy Association

Provider Number: G338

The Challenges of Net Zero Energy When It's Bigger than a Breadbox

Course Number

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Credit(s) earned on completion of this course will be reported to **AIA CES** for AIA members. Certificates of Completion for both AIA members and non-AIA members are available upon request.

This course is registered with **AIA**

CES for continuing professional education. As such, it does not include content that may be deemed or construed to be an approval or endorsement by the AIA of any material of construction or any method or manner of handling, using, distributing, or dealing in any material or product.

Questions related to specific materials, methods, and services will be addressed at the conclusion of this presentation.

Course Description

Municipalities and other owners of large buildings are increasingly setting their sites on net-zero. This session will feature a case study of the 190,000sf Martin Luther King, Jr. School, the first of the Cambridge public schools to target NZE. Presenters will discuss the process, content and tools used at design workshops and user group meetings to gather, analyze, ideate and integrate information into design solutions while also facilitating cultural and behavioral change among users. They will highlight the challenges and gritty details involved in shepherding both this project and others—including issues related to code`s, day-lighting, systems selection, load management, maintenance, and product selection. Attendees will learn what worked, what didn't, and why.



Overcoming the Challenges of

Net-Zero Energy When It's

Bigger than a

Breadbox

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Learning Objectives

At the end of the this course, participants will be able to:

1. Understand the barriers & hurdles to net zero energy & how to overcome them.
2. Replicate a successful process of stakeholder education & engagement through a series of workshops using an integrated design process.
3. Identify the key aspects of the design which present the greatest challenge or yield the greatest energy savings & the analysis used to inform these design decisions.
4. Benefit from lessons learned: understanding stakeholder motivation, anticipating the human factor, maintaining performance from design to occupancy, mitigating when things don't work out, & finding your story to educate & inspire.