

Want to learn  
what it takes  
to achieve Net-Zero?



## Net-Zero Energy Building Design

Monday, May 15, and Tuesday, May 16, 2017  
8:30 am to 5:00 pm (each day)  
218 Rachel Carson Way - SONG Common House  
EcoVillage Ithaca, Ithaca, NY

[Register here](#)

This two day training will focus on design and construction details to achieve net-zero energy use in new buildings. Join Ian Shapiro, founder of Taitem Engineering and co-author of the book *Green Building Illustrated* (Wiley, 2014) and Liz Walker, co-founder of EcoVillage Ithaca, and Executive Director of its educational arm, Learn@EcoVillage, as they address fundamentals and strategies for zero energy design. EcoVillage and cohousing concepts will be covered as well as site visits to homes and commercial community buildings at EcoVillage's three cohousing neighborhoods, emphasizing different green building approaches, styles and details, culminating in the newest neighborhood called TREE, one of the largest Passivhaus developments in North America, which includes a number of net zero homes.

Lunch is provided. The training fee includes a copy of Ian Shapiro's book *Green Building Illustrated* and Liz Walker's book *EcoVillage at Ithaca: Pioneering a Sustainable Culture*.

A limited number of scholarships are available for students, women and low-income participants. Contact Liz Walker to apply.

### **What people are saying:**

"Excellent seminar! Very valuable."

"EcoVillage is an excellent place to see first-hand the topics covered at this seminar."

"Ian is an accomplished speaker - excellent way of fielding questions, positive connection with audience. Presented topics in a way that could be easily understood."

## Learning Objectives:

- Learn the fundamentals of design to achieve net-zero energy in new buildings, including heating/cooling options, hot water strategies, insulation and window design, lighting and electrical load for net-zero.
- Learn specific construction details which help to achieve net-zero energy, including techniques to achieve low infiltration and to minimize thermal bridging.
- Understand the concepts of cohousing and ecovillages as examples of neighborhood level design for sustainability.
- Learn options for measuring and verifying net-zero performance, and approaches to maintain persistent net-zero performance.

## Presenters:

**Liz Walker** Liz Walker, Executive Director of Learn@EcoVillage and Co-Founder has provided vision, leadership and prodigious hard work since the founding of EcoVillage at Ithaca in 1991. As collaborator, she has helped launch Gaia Education which teaches sustainable community development around the world. She has a deep appreciation and commitment to building a new future that works for all. Liz is an engaging presenter, published author and welcoming friend to all who encounter her.

**Ian Shapiro** started Taitem Engineering in 1989. He has led applied energy conservation research projects, many design and energy projects, and has delivered workshops in the areas of energy audits, managing energy projects, and the energy code. He has led the development of several computer programs which are used in the HVAC, energy, and indoor air quality fields, and he also developed an innovative desiccant cooling system. Ian's presentations and workshops are impactful and highly recommended.

## This course has been approved for 14 AIA LU.

This education session may be self-reported by LEED Professionals for 14 GBCI CE hours.

**Contact Liz Walker at [liz.learn@ecovillageithaca.org](mailto:liz.learn@ecovillageithaca.org) with questions.**

**This event is co-sponsored by:**



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