



National Preservation Institute

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Sustainable Preservation: Process and Practice

Seminar Overview

Discuss the process and practice of using sustainable preservation strategies for historic structures. The environmental goal of “reduce, reuse, recycle” can enhance the capital cost competitiveness of preservation projects. Review the LEED (Leadership in Energy and Environmental Design) standards used to assess building performance. Focus on preservation challenges relating to energy efficiency, windows, lighting, indoor air quality, HVAC, and local and national codes and regulations.

Agenda

■ Overview of Sustainable Preservation

Strategies appropriate to historic buildings, identified by LEED category

■ Products

Navigating the Maze

■ Lighting

Past, Present, and Future working together

■ Energy Sources and Systems

Fuel Cells, wind, micro turbines, cogeneration, geothermal, photovoltaic, and system choices for HVAC

■ Building Envelope

ASHRAE 90.1, Energy Modeling and Insulation (or not)

■ Windows

Myth and Reality

Case Study Summary

Comparative analysis of historic buildings showing sustainable preservation achievements by category

Protecting historic buildings should align with the protection of our natural world. Greater visibility of the U.S. Green Building Council’s LEED™ rating system, as well as an increase in mandates from building owners, are challenging the caretakers of historic buildings to do more than merely protect, restore, and renovate landmark structures.

This seminar offers an overview of the LEED rating system and its application to historic buildings with descriptions of environmentally responsible choices for historic buildings, including energy sources, materials selections, and facility management.

Conflicts or tensions exist among environmental goals, rating systems, code requirements, and historic buildings. Learn about historic exterior envelope and energy codes, historic materials and replacement or maintenance materials, and the evaluation of historic materials using life-cycle/cost-benefit analysis tools.

Case histories of building renovations and operations are reviewed that incorporate both sustainable design principles and *The Secretary of the Interior’s Standards for the Treatment of Historic Properties*.