



New Canaan Country School

New Canaan, CT

“The commitment to building green has enabled the school to demonstrate how [to] include issues such as the environment.”

-Mark Macrides, New Canaan Country School

LEED-NC v2.2 Silver Certified

LEED Points

Sustainable Sites	6
Water Efficiency	4
Energy & Atmosphere	6
Materials & Resources	7
Indoor Environmental Quality	7
Innovation & Design	3

Achievable Points	Points Available
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6	14
4	5
6	17
7	13
7	15
3	5

Project Size:

15,000 SF Renovation
26,000 SF Addition
41,000 SF Total

Construction Budget:
\$9.4 million

State Reimbursement Rate:

N/A (private school)
Anticipated Life-Cycle Savings
\$6,133/year

19.4% reduction in energy use



When it came time to renovate and expand the New Canaan Country School's Stevens Building, pursuing a high performance design was a natural outgrowth of the Board's environmental policy encouraging green practices in all aspects of school life. By seeking LEED Silver certification, the school had a clear outline to follow as well as a goal for the school community to rally around in the renovation of the classroom building.

High Performance Features:

Indoor Environmental Quality

Natural daylight is an important feature of the building's design, with 90 percent of rooms receiving natural daylight and 75 percent having views. A daylight harvesting system reflects light deep into the classrooms while screening the areas adjacent to windows from direct sunlight. Artificial light levels fall and rise in coordination to daylighting levels, maintaining a constant light level in the rooms while conserving electricity. The use of low-VOC paints, adhesives, and carpet systems also contribute to a healthy indoor environment.

Water Efficiency

Restrooms feature water efficient fixtures such as low volume 1.28 gallons/flush toilets, ultra-low-flow faucets, and waterless urinals. By landscaping with native and adapted plant species, the need for a permanent irrigation system was eliminated, resulting in further water conservation.

"It is of the utmost importance to make the decision to pursue LEED as early in the process as possible."

- Chad McCullough, Turner Construction Company

Materials & Resources

By reusing much of an existing building and aggressively recycling demolition and construction waste, much waste was diverted from landfills. Construction and demolition waste accounts for 30 percent of the waste generated in the United States.

Energy and Atmosphere

Eight percent of the building's energy will be produced by the 30KW solar photovoltaic panels, and a highly efficient machine room-less elevator serves the building. These measures contribute to a 19 percent reduction in energy consumption.

Additional Features

The mechanical system uses environmentally preferential refrigerants; natural habitat was preserved during the construction process; and a post-occupancy customer satisfaction survey will be conducted.



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Project Team:

Architect: Butler Rogers Baskett, Architects, South Norwalk, CT
LEED Consultant/Commissioning Agent: The Stone House Group, Bethlehem, PA
MEP Engineer: Werner Tietjen PE, Rye, NY
Landscape Architect: Suzanne St. Therese Land Design, Norwalk, CT
Structural Engineers: The DiSalvo Ericson Group, Ridgefield, CT
Construction Manager: Turner Construction Company, Milford, CT

Resources:

Greening America's Schools: Costs and Benefits: <http://www.cape.com/ewebeditpro/items/O59F9819.pdf>
Daylighting in Schools: http://www.deptplanetearth.com/nrel_student_performance.htm
Collaborative for High Performance Schools: <http://www.chps.net/national.htm>
High-Performance Schools: Affordable Green Design for K-12 Schools: <http://www.nrel.gov/docs/fy04osti/34967.pdf>
Green Schools Toolbox: <http://greenschooltoolbox.org/wagn/GreenSchoolToolbox>

The Connecticut Chapter of the US Green Building Council



<http://www.ctgbc.org>