

Promoting the adoption of sustainable design principles through outreach, education, and technical support for policy development.

FEATURE

Newsletter - Volume 1 Number 1
Spring 2005

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University at Buffalo, High Performance Building Guidelines

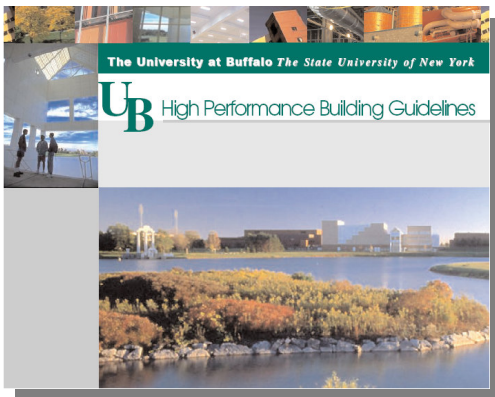
In 2002 the University at Buffalo, State University of New York commissioned the creation of a set of guidelines for the implementation of a more energy efficient and environmentally sustainable campus. Since large college campuses can generate environmental impacts comparable to a small city, UB, by coming a "green campus" will better fulfill its educational mission, demonstrate environmental leadership, and set an example for the wider community.

struction Fund and the Dormitory Authority of the State of New York.

The final document will aid other SUNY campuses and New York State agencies in complying with and exceeding the requirements of NYS Governor's Executive Order 111 while setting a model for other campuses and institutions to follow as they seek to create their own green design guidelines.

New Civics Works provided a guiding vision, facilitation technical support, and preparing text in creating the *UB High Performance Building Guidelines*. This manual was developed through a team effort involving UB energy and facilities staff and faculty, together with representatives of the State University Con-

The completed document is now available on the UB Green website. Hard copies and CD's will be made available to other institutions seeking to utilize them for their capital programs. Please visit: <http://wings.buffalo.edu/ubgreen/guidelines.html>



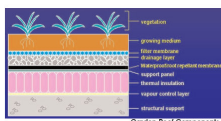
3.0 Site Design

3.7 MINIMIZE THE AREA OF THE DEVELOPMENT FOOTPRINT IN ORDER TO REDUCE SITE DISTURBANCE, CONSERVE EXISTING NATURAL AREAS AND RESTORE DAMAGED AREAS TO PROVIDE HABITAT AND PROMOTE BIODIVERSITY. LEED SS Credit 5.2

- Design the building with a minimal footprint to minimize site disruption. Strategies include stacking the building program, truck-unload parking and sharing facilities with neighbors.
- Designate an open space area adjacent to the building, equal to or greater than the size of the building footprint (for areas with no local zoning requirements).
- Avoid negative impacts on adjacent facilities or open area properties. Typical impacts include reflected glare, waste heat, light spill, noise from cooling towers, air handling equipment, and generators, as well as the shading of adjacent green space or buildings, and gusty winds at grade from wind funnels created by new structures.
- Cluster underground utilities running in conduits, such as telephone, cable, electric, water, wastewater.
- Locate underground utilities in the trees, as appropriate, to minimize site disturbance. (Separate sewer/water and high temperature piping as required.)

3.8 REDUCE OR ELIMINATE STORMWATER RUNOFF TO LIMIT DISRUPTION AND POLLUTION OF NATURAL WATER FLOWS. LEED SS Credit 6.1

- Maintain natural stormwater flows by designing the project site to promote infiltration.
- Specify garden roofs and pervious paving to minimize impervious surfaces.
- Reuse stormwater for non-potable uses such as landscape irrigation, and exterior site washing. Establish with the appropriate regulatory body that no adverse health effects would be associated with this water reuse. Underground cistern storage is preferable.



credit: Collaborative of High Performance Schools, 2003

