

Kaplan Hall at SUNY Orange

Sustainable by design.



When Orange County and SUNY Orange decided to go green with their new college building, the planning committee looked beyond the campus borders. The Kaplan Hall design team put sustainable principles into practice, earning LEED™ Gold and \$370,555 in NYSEERDA grants for Orange County and SUNY Orange.

- Community Connectivity
- Energy Conservation
- Water Conservation
- Health



Community Connectivity roots the campus in the neighborhood.

Community Connectivity



- On the Kaplan Hall site, a **safe, accessible** pedestrian boulevard replaces an asphalt parking lot.
- Public **greenspace** over a below-ground parking garage has a stunning view of the Hudson River to the east.
- New **streetscapes** along Grand Street and First Street redefine an urban landscape that was lost when the commercial and industrial district was demolished.

Energy Conservation saves money and reduces dependence on fossil fuels.

Energy Conservation



- Kaplan Hall uses **39% less energy** than conventional buildings.
- Solar panels generate 20,000 kWh/yr and **save \$3,000 annually**.
- Improved lighting efficiency, occupancy sensors, and daylighting **reduce lighting energy use by 50%**, saving \$21,000 annually.
- High-efficiency heating, ventilation and air conditioning equipment, such as a magnetic drive chiller and variable speed fans, save about \$40,000 per year.

Water Conservation reduces the energy used to treat and pump potable water. Stormwater treatment improves groundwater, surface water, and soil conditions.

Water Conservation



- A 15,000-gallon cistern below Kaplan Hall **stores rainwater** to irrigate landscape plants.
- Water-conserving fixtures **reduce indoor water use by 26.3%**.
- Stormwater is treated on site to remove contaminants before it enters the local watershed.
- Landscape plants are **drought-resistant** and help clean stormwater, which protects wildlife and improves water quality.

Building design and materials promote physical activity and support local businesses.

Health



- Kaplan Hall is built of **local materials**. 44% of the building materials came from Newburgh and the surrounding region.
- **Recycled materials** used in the building help divert material from landfills and build demand for recycled products.
- Pedestrian pathways, greenspace, attractive stairways, and multi-use corridors encourage walking on the site and within the building.
- **Low-toxicity** building materials improve indoor air quality.

The Team:

Orange County
SUNY Orange
JMZ Architects and Planners
The LA Group
Schoder Rivers Associates
Huston Engineering
Holt Construction
Local Contractors & Suppliers



Kaplan Hall site with greenspace and pedestrian boulevard



Typical laboratory classroom



Greenspace conceals a 3-level parking garage

Kaplan Hall Stats:

- **39% less energy**
- **26.3% less water**
- **3-story parking garage hidden under a park**
- **570 tons of construction waste recycled**
- **90% of spaces have daylight and views**



Pedestrian Boulevard

