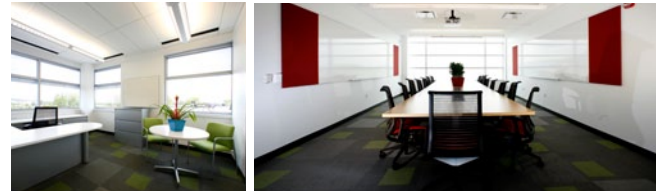


# Sustainable Design

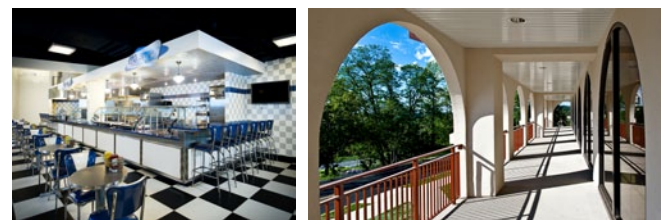
Sustainable design provides a holistic approach to the development of both new and renovated structures. It builds the project around a collaborative design team including Owner, Architect, Engineer, Construction Manager and Finance Institution. PS&S's cutting edge software and design expertise, including state of the art Building Information Systems (BIM) capabilities foster sustainable design outcomes by capturing the design decisions across a broad range of project participants.



Genzyme Office Addition - LEED Gold Certification



Montclair State University - 2,000 Bed Student Housing  
LEED Silver Certification



## Sustainable Design Components

- 1 Sustainable Sites:** Wise selection and development of sites from transportation to storm water design.
- 2 Water Efficiency:** Careful planning from landscaping to building systems for water demands to reduce water consumption.
- 3 Energy & Atmosphere:** Protecting resources and atmosphere via commissioning, renewable energy and green power.
- 4 Materials & Resources:** Wise use of resources through recycling, re-use and waste management.
- 5 Environmental Quality:** Use of low chemical emitting materials and localized HVAC control.



For more information on Sustainable Design, please contact  
**Ron Weston, AIA, PP, NCARB, LEED AP** at [rweston@psands.com](mailto:rweston@psands.com) or 732.584.0375.

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## Let us help you make your new building and renovations sustainable.

**Sustainable Sites.** Project sites can be developed with sensitivity to their environments. We utilize early planning to leverage opportunities to create a sustainable site. On Montclair State University's Dorm Complex we made sure students had facilities to store their bikes out of the elements and we provided special parking locations to reward students who drove high efficiency hybrid vehicles.

**Water Efficiency.** The world we live in continues to grow while our water supply remains the same. On many of our projects we have specified plumbing fixtures that preserve our water supply and have reduced water consumption by 40%. These fixtures include low-flow shower heads, waterless urinals and multi-flow toilet fixtures that customize the water flow to the use of the toilet. Gallons and gallons of water are utilized for irrigating our landscaped lawns and gardens. We specify regional landscape materials for shrubs, flowers and lawns that eliminate the need for costly and water wasting irrigation systems.

**Energy & Atmosphere.** Heating and cooling needs in buildings consumes much of our energy resources. Our building designs utilize state of the art computer modeling that enables us to produce a building that is comfortable while at the same time minimizing energy use. Management of refrigerant systems as well as building commissioning, both for mechanical systems and for building envelopes completes our efforts in this area. Many of these practices were incorporated in our Genzyme office building project to provide a high performance exterior envelope.

**Materials & Resources.** Building construction and demolition utilizes much of our natural resources including materials and waste ending up in our nation's landfills. On our Montclair project we specified materials that were regionally extracted and produced; specified wood that was certified that it was grown in accordance with the Forest Stewardship Council and the worked with the contractor to ensure that over 80% of the construction waste was recycled or salvaged on the project.

**Environmental Quality.** Employees that work in comfortable office environments are more productive and miss less work due to sick time. Our projects include low emitting materials, control systems that have been integrated into the buildings to enable control of both thermal comfort and light levels as well as maximum window area for day lighting and views.

## Current Sustainable Design Projects

Genzyme Office Addition – LEED Gold

Genzyme 4th Floor Fit-out Project – LEED Platinum

Montclair State University Student Housing – LEED Silver

SUNY Albany Student Housing – LEED Gold

## Beneficial reasons why our customers pursue sustainable designs

- Increased building value
- Market differentiation
- Greater building durability
- Reduced overall operational costs
- Improved occupant comfort/productivity
- Provide good daylighting to reduce energy costs
- Conservation of natural resources
- Provide a high performance exterior wall system
- Commission building to control performance



State University of New York at Albany - Student Housing  
LEED Gold Certification



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