

About Langdon Woods...

Langdon Woods, PSU's newest residential hall, was completed in September of 2006. This state-of-the-art residence hall houses 347 students in a five story, 114,000 square foot building. The facility consists of a combination of hotel style single and double bedrooms as well as four-bedroom suites, each comprised of four single bedrooms and a common area living space. The first floor provides a new food venue called The Woods Café, as well as a laundry area, indoor bicycle storage room, an exercise room, kitchen, housing office, and a large meeting room.

Designed by Cannon Design of Boston MA, Langdon Woods is the first PSU structure built to LEED (Leadership in Energy and Environmental Design) standards, a set of stringent sustainability specifications. PSU has received a Gold Certification rating from LEED—one of the largest university residence halls in the United States—whose Green Building Rating System® is a voluntary national standard for developing high performance, sustainable, and energy efficient buildings. This facility is also the first college and university building in New Hampshire to receive a LEED Certification.

The design elements and green technologies used in the construction of the Langdon Woods Complex demonstrate PSU's commitment to sustainability and the environment. Some of these elements include:



- **Almost 60 percent Energy Use Reduction:** A high performance design is enhanced by an innovative use of the excess waste heat from an adjacent cogeneration plant as the primary heating source for the building.
- **30 percent Water Use Reduction:** Water efficient appliances, low-flow faucets, dual-flush toilets, and waterless urinals all act to significantly reduce water use throughout the building.
- **Sustainable Materials:** 20 percent of the materials used in construction were manufactured locally thereby supporting the local economy and reducing the environmental impacts resulting from transportation and shipping.
- **Healthy Environmental Air Quality:** Carpeting, adhesives, sealants, and paints were chosen for their very low or no VOC emissions. The building is also smoke free.
- **Construction Waste Recycling:** 75 percent of the building site waste was salvaged or recycled through a waste management program.
- **Reduced Heat Island on Site:** Energy Star® roofing saves energy by reflecting heat away from the building and lowers the summer cooling demand.
- **10 percent Recycled/Renewable Materials:** 10 percent of the materials used in the building contain post-consumer or post-industrial recycled content.
- **50 percent Certified Wood:** Over half of all the wood used in the building comes from a certified fast growth forest to encourage environmentally responsible forest management.
- **Glass Technology:** Low-E insulated windows and louvered glass walls reflect heat away in the summer months while reflecting radiant heat indoors in the winter.
- **Storm Water Management:** An underground retention system collects runoff from parking lots and roads and recharges it, minimizing the load on the town's storm drains.
- **Indoor Secure Bicycle Storage:** A locked bicycle storage room encourages LW residents to bring their bicycles and use them, thus reducing auto emissions, freeing shuttle seats, and promoting a healthy lifestyle.
- **Sustainable Site Strategies:** Langdon Woods' landscaping makes attractive use of the existing natural shade of adjacent Langdon Park to minimize water and energy use for cooling the building in the summer months. Zero-cut-off lighting in the parking lots and along pedestrian pathways eliminates the spillover of light into areas where it is not needed and preserves night sky visibility.
- **Educational Displays:** Signs and labels at the entrance to the building educate residents and visitors alike about Langdon Woods' unique environmentally responsible features.