

Environmentally Sustainable Design and Construction

Greenspun Hall is registered as a Leadership in Energy and Environmental Design (LEED) project and was designed to achieve Gold Certification from the U.S. Green Building Council. It will be UNLV's first LEED-certified facility. With that goal in mind, the following environmentally sustainable features were incorporated into the design and construction of the building:

Energy and Atmosphere

- A photovoltaic (PV) array harnesses solar energy and offsets up to 30 percent of regulated energy consumption and 13.3 percent of total estimated energy consumption. The PV array also provides shade for the building, which helps reduce heat gains from direct sunlight.
- A chilled beam heating and cooling system significantly reduces energy consumption in the building, resulting in an estimated cost savings of nearly \$83,000 per year.
- Occupancy sensors automatically turn lights off when rooms are not in use.

Water Efficiency

- Low-flow water fixtures use 20-30 percent less water than required by the Energy Policy Act of 1992.
- Water-efficient landscaping reduces potable water usage by 50 percent over conventional irrigation needs.

Sustainable Site Design

- Bicycle storage, shower facilities, and changing rooms encourage the use of alternative transportation.
- Site and roofing materials reduce heat absorption and minimize heat island effects on surrounding areas.
- Interior and exterior lighting releases zero direct-beam illumination, significantly reducing light pollution from the site.

Materials and Resources

- At least 20 percent of construction materials were manufactured within a 500-mile radius, with 50 percent of those products harvested locally.
- More than 75 percent of post-construction waste was diverted from landfills and recycled for other uses.
- Approximately 50 percent of hardwood material used in the building was certified by the Forest Stewardship Council, which ensures the product was harvested from well-managed forests.
- There is dedicated space for the storage and collection of recyclable materials.

Indoor Environmental Quality

- Carbon dioxide monitors placed throughout the building ensure indoor air quality.
- Paints, adhesives, carpets, and composite wood used in the building have low amounts of volatile organic compounds.
- Implementation of a "green" housekeeping plan focuses on enhanced custodial training and the use of environmentally safe cleaning products.