

# INNOVATION N



Building for a Sustainable Future



**T**akeda is committed to environmental responsibility. To ensure our Deerfield campus supports this commitment, we incorporated green building practices that comply with Leadership in Energy and Environmental Design (LEED) certification offered by the U.S. Green Building Council. The LEED Green Building Rating System™ is an internationally recognized third-party certification program for identifying and implementing practical and measurable green building design, construction, operations and maintenance solutions of high performance green buildings.



## sustainable site

Takeda chose our building site and manages our campus carefully to maximize sustainability.

- Landscaping includes native plants and species adapted to the region, which helps reduce potable water use for irrigation; requires less fertilizer and maintenance; and supports the regional ecosystem.
- Smart transportation choices alleviate the impact of automobiles on the environment and provide incentives to buy fuel-efficient cars. This includes a direct shuttle that connects the campus to regional public transportation; easily accessible bike racks; and preferred parking spaces for fuel efficient, low-emitting and carpool vehicles.
- Highly reflective and emissive roofing materials reduce the formation of an unnatural heat island that could affect our surrounding environment.

## materials & resources

Takeda selects sustainably grown, harvested, produced and transported products and materials during both construction and operations phases of our campus.

- Recycled materials were used during construction, with more than 10 percent of total building construction costs comprised of post consumer or pre-consumer materials. An on-site recycling program is incorporated into the daily function of our campus, including recycling bins for paper, plastic, glass, metal and corrugated cardboard located in the cafeteria, break rooms and at printer stations to reduce waste generated by building occupants and visitors.
- Construction waste management during the building phase diverted more than 50 percent of waste material from landfills toward recycling or other uses.
- Local and regional materials comprise more than 10 percent of building materials. Using materials extracted, processed and manufactured within 500 miles of the project site supported the regional economy and reduced the environmental impact resulting from transportation of these materials.

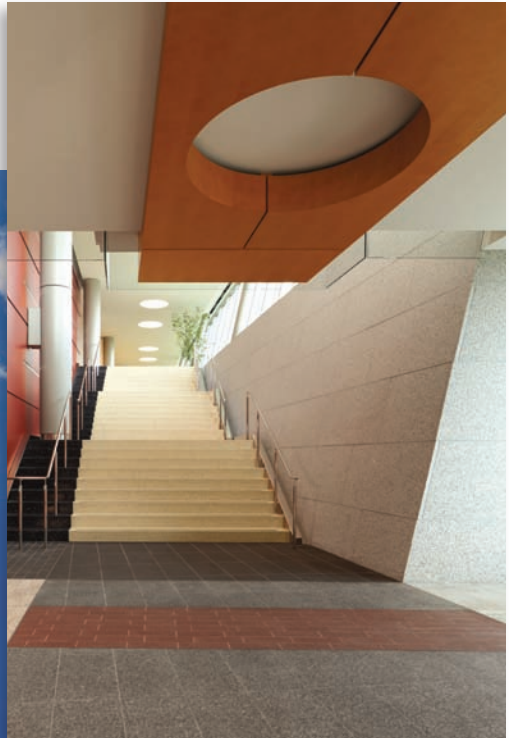




## energy & atmosphere

Takeda employs a wide variety of strategies to optimize energy performance.

- Energy-efficient lighting includes individual workstation lighting control and lights that automatically turn off after a period of non-use.
- Efficient design and construction reduces overall building energy usage in comparison to traditional design.
- Efficient appliances, including a state-of-the-art heating, ventilating, and air conditioning (HVAC) system, reduce annual energy consumption.



## indoor environmental quality

The U.S. Environmental Protection Agency estimates that Americans spend about 90 percent of their day indoors, where the air quality can be significantly worse than outside. Takeda takes numerous steps to improve indoor environmental quality.

- Products with low off-gassing and low volatile organic compounds (VOCs) such as wood finishes, floor coverings, interior paints, and duct sealants reduce indoor air contaminants that are odorous, potentially irritating and/or harmful to the comfort and well-being of installers and occupants.
- An Indoor Air Quality (IAQ) Management Plan developed and employed during and after construction prevents IAQ problems resulting from the construction process. It helps sustain the comfort and well-being of construction workers and building occupants. This plan includes protecting absorptive materials stored on site from moisture damage, sealing and protecting ductwork and installing filtration media for air handlers to remove dust and particles from the air stream.



## water efficiency

Our design encourages smarter use of water, inside and out.

- Water efficient faucets and fixtures such as low-flow aerators and sensors throughout our buildings reduce water consumption by more than 40 percent in comparison to traditional design.
- Water-wise landscaping reduces water consumption by more than 50 percent in comparison to traditional landscaping design. Native and adapted plants can survive largely on available precipitation.



Takeda's Deerfield, Illinois campus is home to Takeda Pharmaceuticals International, Inc., Takeda Pharmaceuticals North America Inc., and Takeda Global Research and Development Center, Inc.

At the time of certification, Takeda's campus (Buildings 1 & 2) was one of only five LEED Gold certified projects in Illinois, and one of only 205 in the United States. Takeda is the only pharmaceutical office in Illinois to achieve this designation.

The U.S. Green Building Council (USGBC) is an internationally recognized non-profit organization that develops and administers the LEED Green Building Rating System. The system involves a diverse membership of organizations and is a committee-based and consensus-driven process. For more information, visit [www.usgbc.org](http://www.usgbc.org).

The construction of Takeda's Deerfield campus was evaluated as a LEED New Construction (NC) project in 2007 (Buildings 1 & 2) and 2010 (Building 3). The evaluation assigns points for criteria met in a variety of established categories. Points are awarded when the requirements of a credit are satisfied. The total number of points awarded determines the level of certification.



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