

Performance Track Case Study

Janssen Pharmaceutica, Inc. Follows Road Map to a Healthy Planet with its Environmental Stewardship

Janssen Pharmaceutica, Inc., in Titusville, New Jersey, a company headquarters facility and quality assurance laboratory for prescription pharmaceuticals, has undertaken impressive energy efficiency and renewable energy ventures along with a number of other environmental initiatives that bring its environmental performance well beyond compliance with regulations. In 2003, as part of its commitment to reduce fossil-fuel energy use, the company installed a 500 kilowatt solar photovoltaics system—at that time the third largest such system in the United States. Janssen is also distinguished as a river-friendly business by the Stony Brook-Millstone Watershed Association and participates in the U.S. Green Building Council’s LEED (Leadership in Energy and Environmental Design) Green Building Rating System® for existing buildings. Employees are educated and rewarded for their environmental protection efforts within the facility and throughout the surrounding community. Janssen has restored 40.25 acres of its 270-acre Titusville, New Jersey landscape acreage to native grasses, wildflowers, and no-mow zones.



Janssen Pharmaceutica’s solar photovoltaics array was the third largest in the United States at the time of installation (2003).

Company PROFILE

Company Name:	Janssen Pharmaceutica, Inc.
Location:	1125 Trenton-Harbourton Road Titusville, New Jersey 08560
Phone/Fax:	(609) 730-2329 / (609) 730-4464
Facility Size:	475,000 sq. ft.; 270 acres
Type of Business:	Company headquarters, pharmaceutical development, QA analytical labs, and cattle farm
Total # of Employees:	1,600
Years in Business:	52
Parent Company:	Johnson & Johnson
Certifications:	ISO 14001 registered

“Our corporate-wide Healthy Planet 2010 commitments to conserve energy and water, promote transparency and employee environmental literacy, and reduce hazardous and non-hazardous waste fit well with the continuous improvement criteria of Performance Track. Encouraging our operating companies to participate in Performance Track supports our overall environmental strategy and commitment to transparency. It also means that our employees enjoy additional recognition for their hard work.”

Elizabeth Lacelle
Director of Partnerships and Communication
Worldwide Environment, Health, and Safety
Johnson & Johnson

Long Record OF COMMITMENT

Janssen's parent corporation, Johnson & Johnson, a Performance Track Corporate Leader, has a long track record of promoting and improving its environmental practices. In 1991, the company implemented a Pollution Prevention Goals program and achieved target goals one year ahead of schedule. In 2002, Johnson & Johnson introduced a set of more ambitious Next Generation Goals, which sought to further reduce the corporation's environmental footprint. In January 2006, Johnson &

Johnson embarked on a new set of environmental goals, the Healthy Planet 2010 goals, which will run through December 2010.

When EPA launched Performance Track in 2000, Johnson & Johnson applied to enroll all of its more than 50 U.S. facilities. Janssen Pharmaceutica became a Charter Member of the program in 2001.

Keys TO SUCCESS

In implementing its Performance Track and other commitments, Janssen identified and addressed a number of key environmental issues. The following are examples of the activities that are central to Janssen's environmental achievements:

- Improved laboratory environmental training, implemented by increasing participation of environmental staff in department meetings.
- Updated Potable Water Treatment Program manual and incorporated it into the site's ISO 14001 program.
- Selected new vendor for improved pond treatment program, resulting in reduced chemical use.
- Developed leak detection program involving various water metering points in order to identify anomalous water use, so that leaks and problems with flow equipment could be quickly detected and corrected.
- Installed no-flush urinals in all men's rest rooms on site.
- Introduced new hazardous waste minimization programs.
- Enforced desk-side recycling compliance reviews.
- Continued employee awareness programs.
- Continued watershed outreach program, which joins industry, conservation groups, a local school, and federal agencies.

The Push

TO CAPITALIZE ON RENEWABLE ENERGY

Janssen's biggest undertaking was the installation of a system of 2,856 solar photovoltaic tiles that covers more than 40,000 square feet of previously unused rooftop. This was the largest such commercial installation in New Jersey at the time of commissioning, and reflects the company's dedication to the pursuit of environmental excellence and innovative technology. The grid-connected solar system will decrease the facility's reliance on fossil fuel by six percent per month. Over its 25-year life, the solar-generated electricity will reduce the emissions of more than 5,000 tons of carbon dioxide, the equivalent of not driving 12,350,000 miles or removing nearly 1,000 cars from New Jersey roadways.

With the ability to generate enough electricity during the daytime to power more than 600 homes, Janssen's 500 kW system reduces the facility's electrical load significantly during peak demand times, when electricity is the most expensive. The solar PV system provides approximately 10 percent of Janssen's annual electricity needs.

The \$3 million installation was funded in part by the New Jersey Board of Public Utilities Clean Energy Program. Taking advantage of clean energy rebates, Janssen saw this as an economically beneficial time to step up its commitment to protecting and improving the environment where its employees live and work. In 2003, the New Jersey Department of Environmental Protection awarded Janssen with an Environmental Excellence Award for this system.

Facility management supported and promoted the project. Janssen recommends that companies interested in installing solar or other renewable energy systems work with a competent vendor and become involved with the utility company early in the process to take advantage of the many incentives that exist. As in any project, a good team with supporting leadership is essential for success.

Emissions Reductions at Janssen Pharmaceutica

	SYSTEM OUTPUT		EMISSIONS SAVINGS		
	Max Power Capacity (kW)	Total Energy Output (kWh)	Carbon Dioxide (metric tons)	Nitrogen Oxides (kilograms)	Sulfur Oxides (kilograms)
2006	396	529,703	176	329	512
SINCE INCEPTION	608	1,899,209	631	1,181	1,835

The

FUTURE

The goal of ensuring a habitable and healthy environment in the future is integrated in all of Janssen's activities. The facility recently demonstrated its commitment to responsible growth by developing a new site master plan that is in full compliance with the New Jersey Department of Environmental Protection's stringent stormwater regulations. The plan will double the facility's current size to nearly 1.3 million square feet. Using state-of-the-art technology, the plan provides for zero runoff. The site master plan was approved for a period of 20 years, freeing Janssen from re-permitting time and costs. Unanimously approved by local, county, and state municipalities, the facility's plan could serve as a model for others to follow.

Janssen also has programs in place for continued pesticide reduction as well as programs for alternative energy use. While motivated by the facility's commitment to reduce its impact on the environment, these programs are also business-driven and seek to reduce labor and costs.

employees are educated and rewarded

Results of **PERFORMANCE TRACK MEMBERSHIP**

By implementing its commitments under Performance Track, Janssen has followed through on its commitment to protecting the environment, reducing costs, improving the lives of employees, and positively contributing to the community.

According to Janssen, the facility has achieved the following results through its Performance Track commitments since 2003:

- Reduced water use from 8.1 million gallons per year to 6.6 million gallons on a normalized basis (taking into account changes in the total number of employees at the facility since 2003);

- Reduced non-hazardous solid waste from 653 tons per year in 2003 to 550 tons on a normalized basis; and
- Increased the area of land allowed to revert to native grasses, wildflowers, or no-mow zones from 27 to 40.25 acres.

The facility's generation of hazardous waste has increased (even in normalized terms) because the facility has taken on testing responsibilities for an increasing number of products. However, Janssen has been investigating new laboratory waste minimization programs.

Awards and **RECOGNITION**

- The New Jersey Department of Environmental Protection designated Global Pharmaceutical Sourcing Group (which includes Janssen's Titusville facility) as the winner of the Clean Air category for the 2006 Governor's Environmental Excellence Awards.
- Johnson & Johnson awarded Janssen the United States/ Puerto Rico Facility 3E (Excellence in Energy Efficiency) Award in 2004.
- Janssen was one of only six Johnson & Johnson facilities in 2004 to complete 100 percent of the company's Enhanced Energy Best Practices a year and a half ahead of schedule.
- The New Jersey Department of Environmental Protection awarded Janssen an Honorable Mention in its Environmental Excellence Awards under the Clean and Plentiful Water category for biodiversity and

water conservation efforts undertaken as part of the Stony Brook-Millstone Watershed Association's River-Friendly Business Program and as part of the Site Master Plan (2004).

- Janssen received the 2004 Johnson & Johnson Worldwide Environmental Excellence Award for Leadership for the Stony Brook-Millstone Watershed River-Friendly Certification Program.
- Janssen was named a recipient of the 2004 Johnson & Johnson Worldwide Environmental Excellence Award for Innovation for its participation in the LEED program.
- Janssen's facilities' group was recognized by Johnson & Johnson for achieving Silver Certification in the annual Excellence in Facility Management program.

For More **INFORMATION**

For more information on Janssen Pharmaceutica's achievements and commitments under Performance Track, for information on other members' commitments and accomplishments, or for information about how you can become a member of Performance Track, visit the Performance Track website at www.epa.gov/performance-track or call (888) 339-PTRK (7875).

