

## Award Recipient of the ENERGY STAR Challenge for Industry



Canaan Facility  
BD Medical  
Route 7 and Grace Way  
Canaan, CT 06018

The BD Medical facility in Canaan, Connecticut manufactures disposable hypodermic syringes and specialty products for the medical field. In 1961, BD began manufacturing the first wave of disposable plastic syringes in Canaan, an innovation that would soon transform BD by replacing traditional glass syringes to ensure more sterile conditions. The original 25,000-sq-ft building housed just eight associates. One year after operations began, BD purchased a 77-acre tract of land and broke ground for the construction of a 55,000-sq-ft state-of-the-art plant. Since then, BD has expanded the Canaan facility eight times, and it now employs more than 350 associates. BD is a leading global medical technology company that manufactures and sells medical devices, instrument systems and reagents.

The Canaan facility achieved the ENERGY STAR Challenge for Industry in 2011. The facility reduced its energy intensity by 31.2% in three years, avoiding greenhouse gas emissions in the amount of 5,498 metric tons of CO<sub>2</sub>e. Energy achievements were accomplished through air handling control improvements, a lighting strategy and conversion to more energy efficient molding equipment. In addition, the Canaan facility offsets 100% of their electricity use with renewable energy. Projects implemented include:

- Rewiring of lighting in the manufacturing area to create “light zones”, ensuring that areas of the production floor are only illuminated when they are actually in use.
- Reprogramming of the Building Automation System (BAS) so that air handling units switch to idle mode in non-production areas during weekends and shutdowns.
- Repair of air leaks to reduce compressed air demand.

BD has established an Energy Management Standard at the Company level. Regional energy teams are in place to facilitate progress toward meeting BD’s energy goal of reducing consumption 30% by 2015 (normalized to cost of goods sold, from baseline year 2008). All associates are encouraged to provide suggestions of potential projects to reduce energy usage.

For more information contact:  
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