

BUSINESS ENERGY SOLUTIONS

ENERGY EFFICIENCY CASE STUDY:

Cigna

Bloomfield, CT



Cigna is a leading health service company whose environmental sustainability mission is grounded in the important connection between the health of the planet and the health of people.

As part of the Cigna Connects Corporate Responsibility platform, Cigna takes a careful approach to identifying and supporting strategic investments to improve efficiencies and reduce its operational energy use, emissions and costs. Cigna's global real estate team is responsible for a strategic sustainability performance plan designed to manage its global portfolio, which in 2018 consisted of approximately 7.653 million square feet of owned and leased properties.

CHALLENGE

When reviewing the campus of its headquarters in Bloomfield, CT, the team identified several opportunities to make changes that would support long term goals. The campus is home to the Wilde Building, a three-story steel frame and glass office listed on the National Register of Historic Places. When unveiled in 1957, the Wilde Building boasted a modern, flexible floorplan and provided room for training and events. However, in keeping with their commitment to sustainability and evolving workforce demands Cigna set out to take on modernization projects both in the Wilde building and by adding an energy efficient training facility to the campus.

SOLUTION

In partnership with Eversource, Cigna participated in the Sustainable Office Design (SOD) program and received expertise and incentives to help it implement thoughtful, integrated efficiency improvements. The project began in 2019 and Cigna University will open in 2020 and upgrades throughout the Wilde Building will wrap in 2021.

"By partnering with Eversource, we were able to dramatically reduce our energy consumption on our Bloomfield campus and bring together the best environment for the employees in this building and the campus itself."

- Justin Stone, Corporate Real Estate Project Manager

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HIGHLIGHTS:

- Sophisticated and intuitive high efficiency lighting that utilizes occupancy controls, dimming and daylight harvesting, designed to save on energy and increase occupant comfort and productivity.
- Upgrades to the Energy Management System to help to control, measure, and optimize energy use throughout the Wilde Building.
- Extensive HVAC improvements including new chillers and system optimization to manage temperature in several zones. The team replaced 65 air handling units that feed over 700 variable air volume units throughout the space with more efficient equipment and old motor control centers were upgraded with new Variable Frequency Drives. Three variable speed chillers, a waterside economizer, boiler, water heaters and all new pumps and drives were also installed.
- Replaced the old 40 mil non insulated ballasted roof with a new R30 Fibertite "Energy Grey" fully adhered system.
- Right sized the Uninterrupted Power Supply System (UPS) based on proper loads and replaced the Dual 500 KVA wet cell battery back UPS down to 90 KVA dry cell battery system.

PROJECT METRICS:

Total project square footage: 497,364

Annual kWh savings: 1,246,555

Lifetime kWh savings: 17,875,657

Cigna is instituting changes at their Bloomfield, CT headquarters that will **reduce carbon emissions by 3,118 tons**, the equivalent of removing 601 cars from the road or powering 339 homes for a year. The lighting projects at the Wilde Building and Cigna University will also deliver **a lifetime savings of approximately \$1.7 million** over the lifetime of use.

The SOD program, like many efficiency program offerings available through Eversource, helps customers achieve higher energy and operational savings, higher tenant productivity and satisfaction, and show demonstrated leadership in corporate sustainability goals.

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