



CASE STUDY | CONNECTICUT CHILDREN'S MEDICAL CENTER

# Energy Opportunities

**The Energy Efficiency Fund and CL&P helped Connecticut Children's Medical Center:**

- Save approximately \$23,000 and 287,700 kilowatt-hours annually.
- Defray its investment with a \$37,000 incentive.
- Achieve a lifetime savings of approximately 3,740 megawatt-hours.

**The electricity saved over this project's lifetime is equivalent to:**

- 155,798 gallons of oil not burned, or
- 2,028 tons of carbon dioxide (CO<sub>2</sub>) emissions avoided, or
- 948 pounds of coal not burned, or
- 445 homes provided with electricity for one year, or
- 354 cars taken off the roads

This program is for business customers looking to retrofit existing operational equipment. Benefits include financial incentives to offset the premium costs associated with energy-efficient technology. This program is one of several innovative solutions offered by the Connecticut Energy Efficiency Fund and administered by Connecticut's utility companies. For a complete listing of energy efficiency programs and services for electric and natural gas customers, visit [www.CTEnergyInfo.com](http://www.CTEnergyInfo.com) or call **1-877-WISE-USE**.

# ENERGY EFFICIENCY CASE STUDY: CONNECTICUT CHILDREN'S MEDICAL CENTER



**“The Energy Efficiency Fund helped pay for equipment that saves us thousands in monthly operating costs — and reduces our payback to less than two years.”**

*- Bob Will*

## BACKGROUND

Since 1996 the Connecticut Children's Medical Center (CCMC) has been dedicated to improving the physical and emotional health of children through family-centered care, research, education and advocacy. At its main campus in Hartford and CCMC facilities across the state, every inpatient child has a private room where parents are encouraged to room-in.

## THE CHALLENGE

CCMC is dedicated to providing quality care in a comfortable environment for each child patient and their families. Operating the Center's multiple facilities as efficiently and cost-effectively as possible is Facilities Manager Bob Will's primary focus. This includes looking for new ways to lower energy costs and minimize the organization's environmental impact.

## CL&P'S SOLUTION

Bob Will and his staff had a plan to improve the efficiency of the Heating, Ventilating, and Air Conditioning (HVAC) system at the CCMC, but they lacked the resources to implement the project. CL&P assisted by first evaluating the proposed system changes for energy savings. Through the Energy Opportunities program, the Center qualified for an incentive from the Energy Efficiency Fund to help make the project possible.

Those financial incentives helped Bob pay for high-efficiency controls that reduce energy use by 287,700 kilowatt-hours annually and save \$23,000 in cooling costs each year. According to Bob, “The Fund made it possible for us to do the right thing for our patients and the environment.” In fact, they are already thinking about their next project to lower energy costs and minimize the Center's carbon footprint even more.

## BENEFITS

- By replacing still-functioning equipment with more energy-efficient options, the Energy Opportunities program offers a variety of incentive structures to offset the cost of energy-efficient equipment that can reduce capital and operating costs.
- Energy upgrades translate into customer savings on monthly electric bills for the life of the equipment.
- CL&P provides oversight and inspection.

*(All commercial and industrial customers are eligible. Call to discuss potential financing options.)*

## THE BOTTOM LINE

|   |           |
|---|-----------|
| Total Cost of the Project:  | \$75,530  |
| Incentive paid:   | \$37,309  |
| Net Project cost:   | \$38,221  |
| Annual estimated electric bill reduction:                         | \$23,000  |
| Estimated payback time for Connecticut Children's Medical Center: | 1.7 years |