

## Contract Details

### Contract Type:

Design / Build;  
Demand Side Management;  
Energy Efficiency

### Facility Size:

15 buildings;  
1,462,845 square feet

### Energy Project Size:

\$4,873,477

### Annual Energy Savings:

\$950,000  
5.5 million kWh  
17,000 MMBtu  
12 million gallons

## Summary

In 2011, Children's Hospital Boston and Ameresco entered the fifth phase of an energy efficiency agreement. Through energy efficiency initiatives, demand side programs and utility rebates, Ameresco has helped Children's solidify its position in the healthcare industry and regional community as an environmental and efficiency leader.



For over eight years and five phases, Ameresco has helped Children's Hospital Boston realize over \$1 million in annual energy and maintenance cost savings.

## Customer Benefits

Children's Hospital Boston (Children's) and Ameresco finalized the fifth phase of its energy efficiency agreement in February 2011. Over the eight years of collaboration, Ameresco's long-term relationship has helped Children's realize energy and maintenance savings as part of its strategy of service excellence to support being a worldwide leader in improving children's health.

Beginning in 2002, Ameresco has undertaken five phases of comprehensive energy audits and turnkey energy retrofits that have resulted in significant savings for Children's, including an average of \$950,000 in annual utility cost savings and \$76,000 in annual maintenance cost savings. Additionally, the measures have improved the indoor air quality and enhanced light quality throughout the campus.

## Environmental Benefits

Through the partnership with Ameresco, Children's Hospital Boston is expected to save the equivalent of 3,793 metric tons of CO<sub>2</sub> per year. The green benefit from this carbon reduction is roughly equal to:

- ▶ 744 cars taken off the road for one year
- ▶ 328 households powered for one year
- ▶ 809 acres of pine forest absorbing carbon

The project helps reduce the need for energy from traditional power plants fueled by fossil fuels.

## Accolades

*"Our ongoing energy efficiency work with Ameresco has resulted in an important re-investment in our facility, with substantial operational and maintenance improvements. The changes were implemented in a cost-effective manner, without disruption to normal hospital operations. This project has benefits beyond financial as these improvements have enhanced the hospital environment for our patients and staff alike."*

*- Paul Williams  
Director of Engineering  
Children's Hospital Boston*

*"It is always a personal satisfaction for me when we move forward with new initiatives and energy projects to know that I have a company like Ameresco working with us. The company has never failed to give nothing short of 100 percent."*

*- Jack Connerty  
Utilities / Energy Systems Manager  
Children's Hospital Boston*

## Services Provided

Over the five phases of this partnership, Ameresco has completed energy audits and the installation of energy efficiency measures. All installations were completed on-time, on-budget, and during normal business hours, which required regular

## About Children's Hospital Boston, MA

Children's Hospital Boston is an internationally recognized 392-bed comprehensive center for pediatric healthcare. As one of the largest pediatric medical centers in the United States, the hospital records approximately 25,000 inpatient admissions each year, and its 225 specialized clinical programs schedule more than 524,700 visits annually. The hospital performs 25,000 surgical procedures and 200,000 radiological examinations every year. The hospital's clinical staff includes approximately 1,077 active medical and dental staff, as well as 980 residents and fellows, 1,596 nursing and clinical personnel, and 5,200 other full- and part-time employees. Children's Hospital Boston is also home to the world's largest pediatric research facility.

Learn more at: [childrenshospital.org](http://childrenshospital.org).

## About Ameresco

Ameresco, Inc. (NYSE:AMRC) is one of the leading energy efficiency and renewable energy services providers. Our energy experts deliver long-term customer value, environmental stewardship, and sustainability through energy efficiency services, alternative energy, supply management, and innovative facility renewal all with practical financial solutions. Ameresco and its predecessors have constructed billions in projects throughout North America.

For more information about Ameresco and our full-range of energy efficiency and renewable energy solutions, please visit [www.ameresco.com](http://www.ameresco.com).



Children's Hospital Boston is the world's largest pediatric research facility.

## Services Provided (cont.)

communication and coordination so as to not disrupt patients and staff.

Ameresco performed:

- Extensive lighting upgrades for buildings throughout the hospital and as part of campus expansion;
- Subsequent re-lamping of light fixtures installed in the first phase with new generation, higher efficiency fluorescent lamps;
- Installation of lighting controls, both occupancy-sensing and day-lighting controls;
- Installation of water conserving plumbing fixtures in patient and common area bathrooms, including EPA WaterSense certified 1.28 gallon-per-flush toilets and low flow faucet aerators and showerheads;



- Installation of HVAC motor replacements and variable speed fan and pump controls;
- Installation of chilled water and steam pipe insulation, as well as specialty insulation jackets for steam valves and fittings;
- Air-side heat recovery upgrades and commissioning;
- Ventilation air rebalancing, testing, commissioning, and specification of measurement devices and sequences to monitor and maintain proper ventilation rates; and
- Occupancy-based ventilation controls.

## Healthcare Industry

In addition to its work with Children's Hospital Boston, Ameresco has an excellent track record of working on energy efficiency projects with hospitals and healthcare facilities throughout North America.

Hospitals and healthcare facilities typically use more than twice as much energy per square foot as office buildings, so these customers are excellent candidates for energy efficiency upgrades and retrofits. When one considers that third-party providers set reimbursement rates, hospitals cannot pass along these costs.

Ameresco can help healthcare providers improve energy efficiency by an average of 30 percent, thus creating a new source of capital to invest in facilities, state-of-the-art medical equipment, staff salaries, or other mission specific critical needs.



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