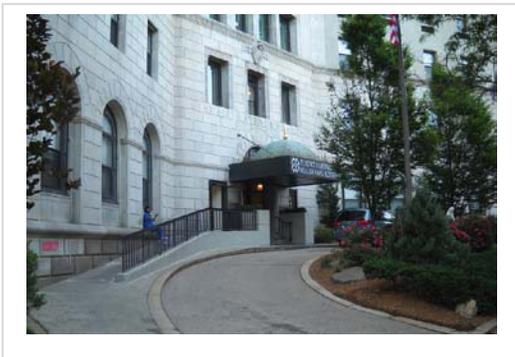


## New York City Healthcare Center Facilitates Health of People *and* Planet

- \$1 million American Recovery and Reinvestment Act award to replace decrepit boilers
- New boiler system to avoid use of 194,491 gallons per year of #6 fuel oil
- Annual reduction of nearly five million lbs of CO<sub>2</sub> emissions

### Critical Timing

Named in honor of New York's well-known archbishop, the Terence Cardinal Cooke Healthcare Center continues a century-long tradition of providing a home and dignified lifestyle for those living with chronic illnesses. Now, with the help of the American Recovery and Reinvestment Act, the Center will look after its own health.



Forced to shut down the facility's two main boilers during the 2009-2010 winter heating season due to age and condition, temporary boilers set on skids outside the facility served as an emergency stop-gap to supply heat and domestic hot water.

The \$1 million American Recovery and Reinvestment Act grant could not have come at a better time. "The ARRA grant was a real life saver," says Mr. Ed Dowling, Director of Facilities at the Center. Combined with the hospital's contribution of 58%, the \$2,364,750 project will install one boiler with a 199hp capacity and two boilers with 270hp capacity.

"Was it Cardinal Cooke smiling down on us?" asks Mr. Dowling. "Maybe. It was certainly great timing!"

### Saving Green, Going Green

Anxiety is not all that will be alleviated with the new boiler system. The energy-efficiency and environmental improvements are significant. The existing boiler plant, ran at an efficiency estimated at 52%. The replacement boilers, which will be able to provide the same level of heating, will operate at a much higher efficiency of 87%. An additional benefit, above and beyond the reduced fuel consumption, to the environment is the use of fuels that have reduced pollution characteristics. The old boilers ran on #6 fuel oil. The new system will be dual fuel capable, utilizing approximately half #2 fuel oil and half natural gas. The switch to #2 oil will avoid use of 194,491 gallons fuel oil, annually, which equates to 4,719,970 lbs annual reduction of CO<sub>2</sub> emissions. This is the equivalent of removing nearly 215 taxi cabs from the streets of New York City, which is a significant contribution for an area that is an U.S. Environmental Protection Area non-attainment zone.

"The environmental impact of this switch can't be overstated," says Mr. Dowling. "We're contributing to cleaner air for our residents and for our East Harlem neighborhood." Mr. Robert Fasullo, partner at Boileroom Equipment Sales, the manufacturer representative for the boiler system, agrees with that sentiment: "A chief environmental benefit will be clean air." Mr. Fasullo notes that the new burners will fire at much lower NO<sub>x</sub> levels, and he highlights the avoidance of #6 oil as an improvement.

The Burnham boiler was built by the US Boiler Company in Lancaster, Pennsylvania.

### Short Payback Period

Taken together, the efficiency and fuel-saving benefits of the new system will add up to significant monetary savings for the Center. With an estimated annual savings of \$474, 696, the project offers a simple payback of five years.

“The economics of the project are a no-brainer,” says Mr. Dowling. “Clearly, not only was this a project we needed, it was a project that made economic sense.”

### Local Labor

“ARRA projects have contributed quite a bit to employment in our field of work,” says Mr. Fasullo. “We retained quite a labor force,” employing workers from across the greater City area, including Brooklyn and Boileroom’s Long Island headquarters in New Hyde Park. The ARRA project, “must have kept at least 12 local people busy.”

“If it weren’t for the financial support of outside sources, this project wouldn’t have happened,” says Mr. Fasullo.

### Up and Running

Located in the heart of the East Harlem community of Manhattan, the Center provides a complete community to support both the health care and extracurricular needs of its residents. The 519,000 square foot facility includes resident rooms, rehabilitation facilities, gym, auditorium, dining areas, cafeteria, kitchen facility, recreation rooms, media center, classrooms, and offices. A chapel and healing solarium offer respite, while a coffee shop, beauty salon, and several gardens round out the Center’s complex.

Taken together, the heating and hot water needs of the Center are significant.

“We’re very pleased that NYSERDA awarded our project the maximum amount available under the ARRA program,” says Mr. Dowling. “The contribution of one million dollars made financing the remainder of the project possible.”

### Moving Forward

The Terence Cardinal Cooke Healthcare Center provides care to a resident population including those suffering from HIV/AIDS, Huntington’s Disease, Alzheimer’s Disease, and children with significant developmentally disabilities. Pointing to the Center’s leading programs for AIDS patients and children, Mr. Dowling notes that “the Center is a unique State resource.”

“With this new system, we’re well suited to serve our current and future residents,” he says. “And beyond our doors, we are contributing to a positive energy future and to the environment. Our Center is an example of how large facilities can make improvements to make wise investments and become more energy efficient.”

The Terence Cardinal Cooke Healthcare Center received this award from the [U.S. Department of Energy’s State Energy Program](#). The State Energy Program provides grants to states and directs funding to State Energy Offices from technology programs in DOE’s Office of Energy Efficiency and Renewable Energy. States use grants to address their energy priorities and to adopt emerging renewable energy and energy efficiency technologies. SEP is distributing \$3.1 billion of funding to the states and U.S. territories under the [2009 Recovery Act](#).