

New York Hospital Queens

In 2009, New York Hospital Queens accepted the Mayor's Carbon Challenge. In two years, the hospital engaged its doctors, patients, and staff to help cut emissions by 31% from 2005 levels.

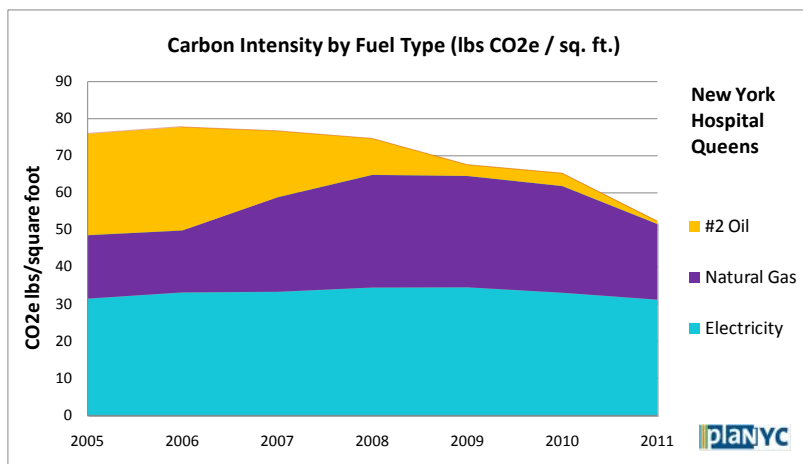
To meet the 30% goal, New York Hospital Queens:

- Replaced a gas fired absorption chiller with a high efficiency electric chiller with a variable frequency drive
- Replaced a large boiler plant burning No. 2 fuel oil with a new boiler plant that burns natural gas
- Retro-commissioned a large, 30-year old air handling unit
- Installed photocell controls to increase natural lighting and occupancy sensors to turn off lighting in unoccupied rooms
- Used a centralized Building Management System to shut off unused ventilation systems during non-business hours
- Built all new construction to higher efficiency standards
- Launched an aggressive education campaign to encourage more energy efficient practices on the part of doctors, patients, and staff

Total Savings: At least \$2.5 million per year

Highlights: Chiller Replacement Project

New York Hospital Queens' former central chiller plant consisted of three 1,100-ton gas fired absorption chillers serving the hospital's multiple cooling needs. With the help of financial incentives from NYSERDA, New York Hospital Queens replaced one chiller with a 1,200-ton high efficiency electric chiller, which will use 17% less electricity than standard performance chillers. The new chiller reduces the hospital's annual emissions by 7%, removing 1,655 metric tons of carbon dioxide equivalent from the atmosphere, and saves the hospital more than \$175,000 per year in reduced energy costs.



"The Mayor's Carbon Challenge is a forward-thinking program that encouraged New York Hospital Queens to accelerate its sustainability efforts. By reducing our environmental impact, we help our buildings and our planet get healthier, which supports the health and well being of our patients and our community." **—Kevin Mannle, Associate Vice President for Facilities Management, New York Hospital Queens**



New York Hospital Queens' mission is to be the premier healthcare institution serving our greater community by providing excellence in clinical care and patient safety, education, clinical research, and service.