

Fashion Institute of Technology

FIT accepted the Mayor's Carbon Challenge in 2007. In just four years, FIT reduced its carbon emissions by more than 40%—realizing significant financial savings in the process.

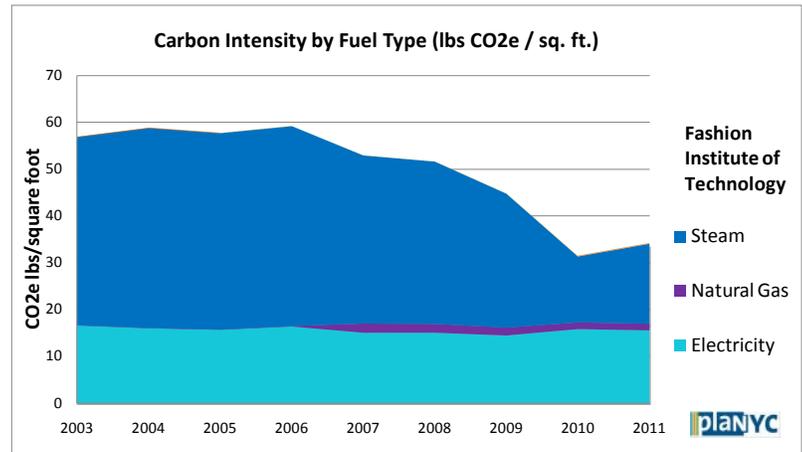
To meet the 30% goal, FIT:

- Replaced an outdated chiller plant to better match cooling demand and increase operating efficiency
- Installed lighting retrofits and occupancy sensors
- Replaced windows with low thermal emissivity glass to reduce heat loss
- Installed more efficient appliances, including high-efficiency refrigerators, washers, and dryers
- Retrofitted 50,000 square feet of lab space and installed new ventilation systems
- Painted more than 10,000 square feet of roofs with reflective paint to reduce summer cooling demand
- Installed a green roof on the Shirley Goodman Resource Center

Total Savings: At least \$1 million per year

Highlights: The Chiller Project

In 2007, FIT installed a new chiller plant to more efficiently meet its cooling demands. The plant consists of a new 500 ton electric chiller with a variable speed drive that provides efficient, modulated cooling, and three steam turbines, each with 1,000 tons of cooling capacity. Additionally, the plant was retrofitted with a new steam turbine driver, refurbished refrigerant compressors, re-tubed evaporators and condensers, and more ozone-friendly refrigerant. FIT also replaced its cooling tower with a new 6-cell cooling tower (shown to the right) equipped with automated controls and variable speed fans, with a total capacity of 3,500 tons. FIT estimates that that project will remove about 11 million pounds of carbon dioxide equivalent per year and save the university almost \$600,000 annually in reduced steam costs.



"The Fashion Institute of Technology is very pleased to be a participant in the Mayor's Carbon Challenge for New York colleges and universities. The tools and information provided by the Mayor's Office of Long Term Planning and Sustainability allowed the College to document a 39% reduction in carbon emissions as of 2011, making FIT one of the first colleges to successfully meet the Mayor's Challenge."

Dr. Joyce F. Brown, President, Fashion Institute of Technology of the State University of New York



FIT is New York City's internationally recognized college for design, fashion, art, communications, and business.