



Improvements Implemented:

- ▶ Lighting system upgrade
- ▶ Water efficiency upgrades
- ▶ Air handling unit damper retrofit
- ▶ Unit ventilator repairs
- ▶ Energy management system installation
- ▶ Building ventilation improvements
- ▶ Electrical peak shaving/tariff adjustment
- ▶ Variable air volume air handling unit conversion

Buildings awarded the ENERGY STAR®



Baltimore City Hall
 Guilford Avenue Municipal Building
 People's Court

Environmental Impact:

2,260 tons of harmful greenhouse gas emissions reduced annually

Equivalent to:

- ▶ Preserving 20.6 acres of forest from deforestation
- ▶ Conserving 6,877 barrels of oil

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Sources:
 Leonardo Academy's Cleaner & Greener™ Emissions Reduction Calculator,
http://www.cleaneandgreener.org/resources/emission_reductions.htm

U.S. Environmental Protection Agency, Greenhouse Gas Equivalencies Calculator,
<http://www.epa.gov/cleanenergy/energy-resources/calculator.html>

Project Reference

City of Baltimore

Baltimore, Maryland

Contact:

Ferdinand DeLara, Project Manager
 204 Abel Wolman Municipal Building
 200 North Holiday Street
 Baltimore, MD 21202
 410-545-6071

Project Stats

Project Type: Government Office Space and Fire Stations

Project Size: 13 buildings, 880,000 sq. ft.

Project Value: \$4,634,995

	Energy	Non-Energy
Guaranteed Annual Savings	\$328,982	\$8,888

	Start Date	End Date
Construction	Apr. 2004	Jun. 2006
Guarantee	Jul. 2006	Jul. 2021

Challenge:

A directive from the mayor prompted the city to explore options to increase energy savings. They engaged Custom Energy Services to evaluate six buildings that were known to have aging equipment and systems. Baltimore's City Hall was built in 1875 and is one of only a few in the nation constructed in second empire baroque style. Conserving the integrity of the architecture of this historic building was an essential goal for the Custom Energy Services team.

Solution:

Custom Energy Services identified and implemented more than \$4.6 million in energy-efficient upgrades that could be paid for by energy savings. Facility improvements were made to Baltimore City Hall, the Guilford Avenue Municipal Building, the People's Court Building, the Central District Police Station, the Police Headquarters, and Annex. The energy efficiency in three of the buildings was increased to a level that qualified them to receive the ENERGY STAR.

As a second phase, Custom Energy renovated seven fire stations, addressing critical need such as space heating and cooling, new bay doors, and adding air conditioning to the Fire Academy for the first time in 50 years.



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 A ConEdison Solutions Company
 9217 Cody, Overland Park, KS 66214
 p: 800.356.1239 f: 913.888.5558
www.customenergy.com