



SHOWCASE PROJECT: WHOLE FOODS MARKET: BROOKLYN THIRD AND 3RD

SOLUTION OVERVIEW

Whole Foods Market's Third and 3rd property is located on just over four acres in the Gowanus neighborhood of Brooklyn, NY. The store participated in a number of New York State Energy Research and Development Authority (NYSERDA) programs.

Whole Foods Market's Third and 3rd property consists of two levels of space: a ground-level grocery store, a second-floor restaurant space and rooftop greenhouse overlooking southwest Brooklyn, as well as a landscaped public walking path along the Gowanus Canal and the 4th Street Basin. The site is on three parcels of land owned by three separate entities; Whole Foods leases two of the parcels and owns the third.

SECTOR TYPE

Commercial

LOCATION

Brooklyn, New York

PROJECT SIZE

55,000 Square Feet

SOLUTIONS

Whole Foods Market's Third and 3rd property is the first grocery store in the U.S. to be free of synthetic refrigerants, and features the following innovative solutions: a gray/storm water recycling system; a 157-kW combined heat and power (CHP) plant, a 324-kW solar canopy array, and 19 self-generating wind/solar powered parking lot lights.

Additional energy efficiency improvements implemented include:

- Cogeneration via a 157-kW CHP plant
- HFC/CFC/synthetic-free all-natural CO₂ refrigeration system
- Demand-control ventilation

- ENERGY STAR[®] and DLC-approved LED and lighting control technologies
- Daylight harvesting
- A 324-kWp solar PV array covering much of the parking lot
- Wind and solar-powered self-generating car charging stations

For additional information about this store, please watch this [video](#).

OTHER BENEFITS

Whole Foods Market is pursuing LEED[®] Platinum certification and Green Globes certification for this project, and has achieved EPA Green Chill Platinum rating. An additional benefit of the project is the rooftop greenhouse, which will grow and supply produce to the store.


Annual Energy Use

(Source EUI)

Baseline(ASHRAE
Standard)()

 309 kBtu/sq. ft.

Expected(2016)

 123 kBtu/sq. ft.

Energy Savings

60%

Annual Energy Cost

Baseline(ASHRAE
Standard)()

 \$620,000

Expected(2016)

 \$495,000

Cost Savings

\$125,000

Whole Foods Market in Brooklyn, NY

