

# Energy-efficiency reinforces environmental stewardship

## Case Study

Sector:  
Retail

Company:  
Whole Foods Market

Location:  
Brooklyn, NY

Energy Efficiency Improvements:

- Cogeneration—157-kW CHP plant
- HFC/CFC/synthetic-free all-natural CO<sub>2</sub> refrigeration system
- Demand-control ventilation
- ENERGY STAR® and DLC-approved LED and lighting control technologies
- Daylight harvesting
- A 324-kWp solar panel system covering much of the parking lot
- Off-the-grid self-generating LED parking lot lighting
- Self-generating car charging stations via wind and solar power

Energy Savings Results:

- **Annual electric savings:**  
2,513,868 kWh
- **Peak demand savings:**  
324.3 kW
- **Annual energy cost savings:**  
more than \$369,000
- **Simple payback (after incentives):** 6.3 years

## Background

Whole Foods Market is committed to reducing its environmental impact and supporting the health of its customers and team members through its products, design, and operation. The company built a new 56,000-square-foot supermarket (Whole Foods Market Third & 3rd) located on just over four acres in the Gowanus neighborhood of Brooklyn.

Whole Foods Market Third & 3rd consists of two levels of retail space, a rooftop greenhouse to supply produce for the store, a second-floor restaurant space overlooking southwest Brooklyn, and a landscaped public walking path along the Gowanus Canal and the 4th Street Basin.

NYSERDA assisted with support, planning, and implementation for energy efficiency measures, a combined heat and power (CHP) system, a solar panel system, and LEED services. The expected whole building design energy savings is more than 60% above the ASHRAE 90.1-2007, Appendix G baseline building.

**“We have designed one of America’s most sustainably built retail establishments. The new store is approximately 60% more energy efficient than your average grocery store.”**

— *Tristram Coffin, LEED, AP, Green Mission Team, Whole Foods Market*

**Learn how you can reduce your energy consumption and costs.**

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