

Case Study: Elevator Modernization

Customer
Lincoln Towers at 170 West End Avenue

Contractor
NY Building Systems

Location
Manhattan, NY

Overview

Lincoln Towers is a 30-story complex with more than 480 apartments in Manhattan's Lincoln Square neighborhood.

During an energy audit to comply with **Local Law 87**, property managers learned that switching the elevators from direct current (DC) to alternating current (AC) would help cut down on noise and maintenance, and make the building more energy efficient.

NY Building Systems, a comprehensive engineering and energy consulting firm, replaced four motor-generators with AC motors featuring variable speed drives and regeneration. This one upgrade resulted in **63.5 kW of demand savings and 482,267 kWh of electricity savings**.

The project also reduced carbon emissions to help Lincoln Towers comply with **Local Law 97**.

Incentives from Con Edison **cut the project costs in half**.

Highlights

Total Project Cost: \$347,200	Total Incentive Savings:* \$173,600	Net Project Cost: \$173,600
Demand Savings: 63.5 kW	Electric Savings: 482,300 kWh Market rate = \$0.25 per kwh Affordable housing = \$0.35 per kwh	

**The incentive rate for this project was calculated using 2019 rates*

Testimonials

"The project was done professionally and fast, thanks to Con Edison's rebates and NY Building Systems' work."

—Boris Elyukin, Resident Manager, 170 West End Ave.

"The huge Con Edison incentives that covered 50% of the cost helped us complete the project to reduce the building's CO₂, in compliance with Local Law 97."

—Md Aminul Islam, PE, CEM, EBCP,
President/CEO, NY Building Systems Consultant Inc.

Contact Us

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Old Elevator



New Elevator

Ways You Can Save:

This elevator modernization project is just one example of Con Edison’s energy efficiency incentives that make it possible for multifamily buildings to make critical, money-saving improvements. Using Con Edison’s easy online guide, owners and property managers can identify areas in their buildings where it may be possible to make upgrades.

Additional Upgrades:

Incentives from Con Edison made it possible for Lincoln Towers to complete other upgrades for even more savings.

Project	Contractor	Energy Savings	Incentive	Total Project Cost
In-Unit Lighting Upgrades	Association for Energy Affordability	2.47 kW and 33,215.27 kWh	100% of costs covered	\$0
Variable Frequency Drive	Rains Energy	0.98 kW and 36,680 kWh	\$7,349	\$23,000
Common Area Lighting	Argon Electric	13.94 kW and 74,517.36 kWh	\$31,978	\$67,617

Incentives Available For:

- Heating & Cooling
- Air-Source Heat Pumps
- Air Sealing Measures
- Energy Management Systems
- Storage Tank Water Heaters
- High-Efficiency Hot Water Boilers
- Heating Distribution
- Lighting Controls
- LED Lighting
- Faucet Aerators
- Showerheads
- Pipe Insulation
- Master Air Vents

Contact Us

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