

LED Lighting Case Studies



LED Retrofit at 100 United Nations

Built in 1986, this 267 apartments, 52 floors building offers an spectacular view of the East River, local gardens and the New York City skyline. 100 United Nations has 267 residencies, many of which have been updated to include top-of-the-line appliances and finishes such as granite countertops, custom cabinetry, whirlpool bathtubs and washers and dryers.

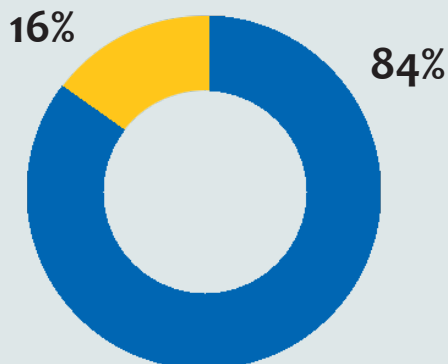


The Project

DVM Industries performed the replacement of existing lighting not only to improve the energy performance and efficiency, but to enhance the tenant's experience and safety. The work included:

- Retrofitting existing fluorescent T8 fixtures with LED Lamps.
- Replacing existing compact fluorescent screw in and PL lamps with Energy Star.
- Applying for utility incentives to offset project costs.

■ LED Lighting Savings ■ Maintenance Savings



Annual Energy Savings	\$ 33,651
Rebate Amount	\$ 10,759
Net Cost	\$53, 387
kWh Savings	210,319
Reduced Maintenance Costs	\$6,193
Payback	1.3 years
ROI	75%
10-Year Life Cycle Savings	\$406,080



CO₂ Reduction
315,478



Trees Planted
3,786



Cars Reduction
21

After



Before





Art Wall Retrofit at Silver Towers

The Silver Towers are twin residential buildings in the Hell's Kitchen neighborhood in Manhattan, New York City. Located at 620 W 42nd Street, on the West side of 11th Avenue between 41st and 42nd Street near the Hudson River, the 60-story development includes a 75-foot pool, the largest in a New York City Residential Building, as well as a quarter-acre public park on the west side of the towers.



Project Cost	\$ 65,000
Annual Energy & Maintenance Savings	\$ 35,000
Rebate Amount	\$5,700
Net Cost	\$59,300
Payback	1.6 years

The Project

DVM Industries furnished, installed and handled incentives for the Art Wall LED Lighting Project in Silver Towers, retrofitting 285 T5 fixtures with LED T5 lamps in the 130 ft exterior art wall of the buildings.

- Retrofit existing fluorescent T5 exterior fixtures with LED Lamps.
- Apply for utility incentives to offset project costs.



CO2 Reduction
315,478



Trees Planted
3,786



Cars Reduction
21

Before

After



Retrofit corridor Wallsconces at Silver Towers

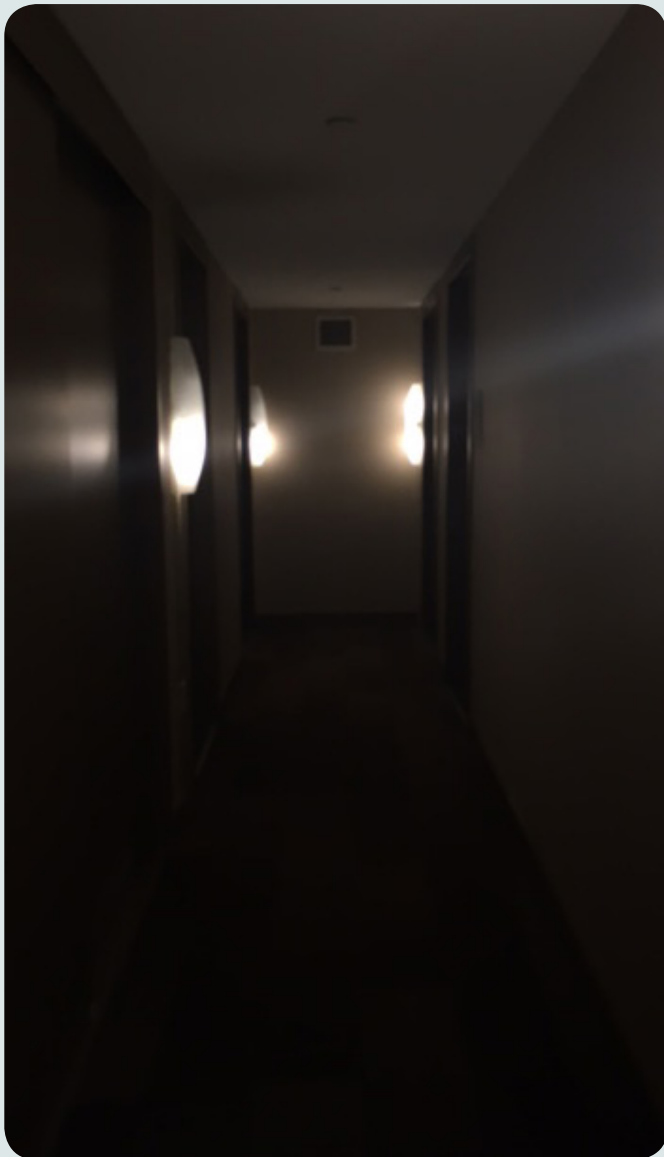
The Problem:

The 58 stories twin residential buildings had ballasts installed in their hallways that were failing very frequently, beign changed out montly. These was causing a very high maintenance cost.

The Solution:

DVM Industries retrofitted 2500 Corridor Wallsconces to LEDs, providing material, labor, and rebate management for the project.

Project Cost:	\$300,000
Incentives:	\$75,000
ROI	2.4
Annual Maintenance Savings	\$76,546





LED Retrofit at Brighman Park

Brighman Park is residential complex of cooperative apartments located in Brooklyn, New York. It was established in 1954 as a cooperative, Brighman Park IV contains a total of 324 one-, two- and three-bedroom apartments in 6 different 6-story buildings. It is conveniently located between the fine residential communities of Sheephead Bay and Marine Park.



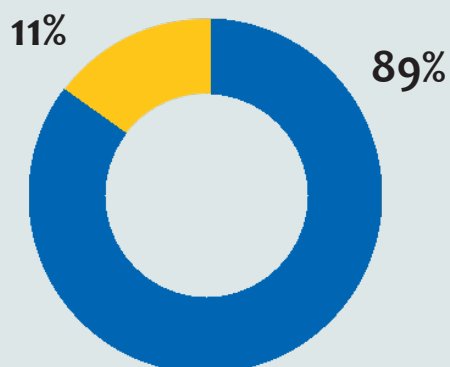
The Project

DVM Industries performed the replacement of existing exterior and interior lighting of two residential building in Brighman Park in Brooklyn, New York.

The project consisted in:

- Retrofitting existing fluorescent T8, Flood Lights, Panels and A lamps with LED Technology
- Applying for utility incentives to offset project costs.

■ LED Lighting Savings ■ Maintenance Savings



Annual Energy Savings	\$24,239
Rebate Amount	\$ 33,155
Net Cost	\$44,196
kWh Savings	151,486
Reduced Maintenance Costs	\$4,994
Payback	1.51 years
ROI	66%
10-Year Life Cycle Savings	\$248,141



CO₂ Reduction
222,245



Trees Planted
2,727



Cars Reduction
15



LED Retrofit at DORIC Apartments

Located at 100 Mahattan Avenue in Union City, New Jersey, Doric Apartments is a prime co-op residency that provides a luxury experience for its tenants accross its 23 stories. Its spaces are newly renovated containing polish hardwood floors, modern appliances and sleek finishes. Its amenities include 24 hour doorman, valet parking, private outdoor pool and fitness center, lounge and paid parking.



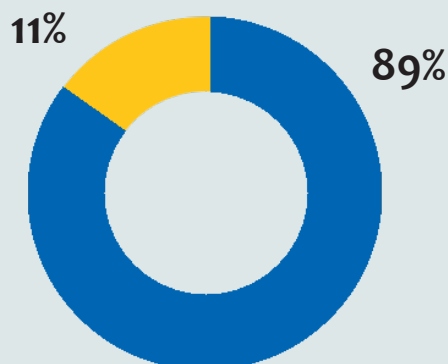
The Project

DVM Industries performed the replacement of existing exterior and interior lighting.

The project consisted in:

- Replaced existing stairwell fixtures.
- Retrofitting Fluorescent T8 Lamps with LED T8 Luminaires.
- Upgrade Metal-Halide fixtures with LED Technology.
- Upgrade parking garage fixtures with daylight and occupancy controls.
- Apply for utility rebates.

■ LED Lighting Savings ■ Maintenance Savings



Annual Energy Savings	\$31,250
Project Cost	\$52,305
Rebate Amount	\$21,055
Net Cost	\$105,786
kWh Savings	260,422
Reduced Maintenance Costs	\$3,492
Payback	3.01 years
ROI	33%
10-Year Life Cycle Savings	\$246,144



CO2 Reduction
1,314



Trees Planted
16



Cars Reduction
1



LED Upgrade at Republic Airport

Located at 7159 Airport Road in Famingdale, New York, Republic Airport is a regional airport in East Famingdale, in the town of Babylon in Suffolk County. It has a two story terminal building serving passengers boarding charter flights to nearby cities such as Atlantic City in New Jersey. Two fixed based operators serve corporate and light general aviation customers: SheltAir and Atlantic Aviation



The Project

DVM Industries performed the replacement of existing exterior and interior lighting to improve performance and efficiency.

The project consisted in:

- Retrofitting Fluorescent T8 and T12 Fixtures with GE LED Lamps.
- Upgrade incandescent screw-in fixtures with CREE LED Technology.
- Replaced existing CFL with Sylvania LED fixtures
- Install occupancy sensors.
- Upgrade exterior lighting with DECO LED Fixtures
- Apply for utility rebates.


CO₂
Reduction
358,091


Trees
Planted
4,297


Cars
Reduction
24

Annual Energy Savings	\$41,777
Project Cost	\$80,649
Rebate Amount	\$35,741
Net Cost	\$44,908
kWh Savings	238,727
Reduced Maintenance Costs	\$40,497
Payback	0.55 years
ROI	184%
10-Year Life Cycle Savings	\$777,830



Lobby, Restrooms,
Locker Rooms



Garage



Exterior Ramps



Exterior Ramps



LED Retrofit at 1170 Apartment Corp.

DVM Industries worked on a project for 1170 Apartment Corporation which included replacing all of the common corridor lighting with new LED Fixtures. There were a total of 26 buildings.

1170 was having issues with dark spots in their hallways. DVM Industries performed an LED Lighting upgrade replacing ALL corridor fixtures with brand new LED Ceiling Fixtures for 26 buildings. DVM also replaced all over mailbox fixtures to a brand new sleek LED Fixture providing a higher light output and a comfortable setting

Project Cost	\$79,000
Rebate Amount	\$8,000
Net Cost	\$71,000
Payback	2.9 years

LED Retrofit at 345 E 56th Street

DVM Industries has just begun working with Brown Harris Stevens. We were called in to perform a LED Lighting Analysis and meet with the board to present our findings.

DVM Industries performed an LED Lighting Project for all common areas including Bi Level Stairwell Fixtures, Parking Garage LED Tube Retrofits, Occupancy Sensors, LED Exit Signs, Over 200 Hallways Fixture Retrofits, and Recessed Downlights.

Project Cost	\$86,000
Rebate Amount	\$28,000
Net Cost	\$58,000
Payback	1.7 years

