



Municipal Lighting Retrofit Newtown, CT

Case Study: Reducing Energy & Maintenance Costs

Fairfield Hills Campus is a redevelopment site owned by the Town of Newtown, Connecticut. They have recently retrofitted their existing Acorn Light Fixtures with the Neptun LED - Acorn retrofit bulb. The City had previously used a mix of 150W & 175W Metal Halide bulbs, which they have replaced with a 40W LED. With the Energy Efficient Neptun LED retrofit bulb, the city will save around \$12,000 a year in energy cost. The Neptun LED Acorn Retrofit Bulb has a rated life of 70,000 hours, which is 4 times longer than the life of any Metal Halide or HPS lighting system. Over the life of these LED bulbs, Newtown, CT will save around \$180,000 in energy costs and another \$16,000 in maintenance and material costs.



Neptun Light
LED - Self-Ballasted Bulb

Bulb Type	Wattage	Fixture Wattage	Qty.	Annual kWh	Annual Energy Costs
Metal Halide Bulb	150	190	55	45,771	\$7,323
Neptun LED Bulb	40	40	55	9,636	\$1,542
Annual Energy Savings					\$5,781

Kilowatt Rate = \$ 0.16
Fixtures Running = 4,380 hrs. per year

Bulb Type	Wattage	Fixture Wattage	Qty.	Annual kWh	Annual Energy Costs
Metal Halide Bulb	175	205	55	49,385	\$7,902
Neptun LED Bulb	40	40	55	9,636	\$1,542
Annual Energy Savings					\$6,360

Kilowatt Rate = \$ 0.16
Fixtures Running = 4,380 hrs. per year