



GREEN PURCHASING CASE STUDIES: WALKER STADIUM'S LIGHTING A SHINING EXAMPLE OF ENERGY EFFICIENCY

CITY OF PORTLAND, BUREAU OF PURCHASES
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Walker Stadium at Lents Park features energy-efficient Musco sports lighting.

PURCHASING GREEN

In spring 2005, Park Services, a department of Portland Parks & Recreation, replaced eight lighting towers at Walker Stadium in Lents Park with six Musco Light-Structure Green™ lighting towers. The

upgrade was prompted by the disrepair of the stadium's previous system, which included an old high-voltage electrical service that presented safety risks. Lents Park is the first Portland park to feature Musco Light-Structure Green™ outdoor sports lighting, although a different Musco product was used at Delta Park's soccer field and East Delta Park's five-field Owens Sports Complex.

BENEFITS

Outdoor lighting from sports fields like Walker Stadium can spill onto adjacent properties, creating a nuisance for neighbors. It also can spill light upward, obstructing views of the night sky. Musco Light-Structure Green™ lighting system's reflector design reduces this light pollution by 50 percent, resulting in more light being directed where it's needed: on the playing field.

Greater light control means that lighting is being used more efficiently, requiring fewer fixtures to generate adequate light. This results in lowered costs to purchase, install, and maintain fixtures. Park Services was able to reduce the number of 1500 watt fixtures at Walker Stadium from 70 to 42, reducing the power required to light the field from 113.4 kilowatts to 65.7 kilowatts.

AT A GLANCE

WHO

Park Services

WHAT

Musco Light-Structure Green™ outdoor sports lighting

COST

- 💰 Reduces energy use by 40%
- 💰 Cuts maintenance costs in half

BENEFITS

- ✓ Reduces light pollution
- ✓ More energy efficient than traditional lighting
- ✓ Requires fewer fixtures to achieve desired light levels

COST

Because of the energy efficient design of Walker Stadium's new lighting, the city saves \$859 in annual energy costs. The lighting system also reduces maintenance costs by more than half. Musco's lighting system has a 25 year warranty, which covers routine maintenance, including lamp replacements. Over the 25-year life of the system, Park Services estimates it will see an overall savings of \$58,000.

PERFORMANCE

Park Services characterizes the performance of the Musco Light-Structure Green™ lighting system as excellent and virtually maintenance-free. In fact, Park Services is so pleased with this product that they will be installing Musco lighting on two additional fields at Lents Park in 2007 and on Skavone Field at Westmoreland Park in 2008.

“Looking at the long term, the Musco Light-Structure Green™ system is the most efficient, cost effective, and “green” system I know of. We are using 40% less energy to light Walker Stadium, and we expect to see an estimated \$58,000 savings over the lighting system’s 25 year life-cycle.”

**PJ McGuire
Supervising Electrician,
Portland Parks & Recreation**

LESSONS LEARNED

An additional benefit of the Musco lighting system is that it allows remote on/off scheduling. Where before authorized users would have to turn lights on and off manually on-site, now Park Services can operate them via computer, including programming them to switch on and off at certain times. This greater control makes maintenance easier for staff and saves energy by minimizing periods where lights are unnecessarily left on.

ABOUT PARK SERVICES

Park Services manages the extensive day-to-day maintenance of Portland's parks, gardens, and facilities as well as the operation and recreational programming of all community centers and swimming pools. Park Services is part of Portland Parks & Recreation, which is the steward of 10,000 acres of land at more than 250 locations.

FOR MORE INFORMATION

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