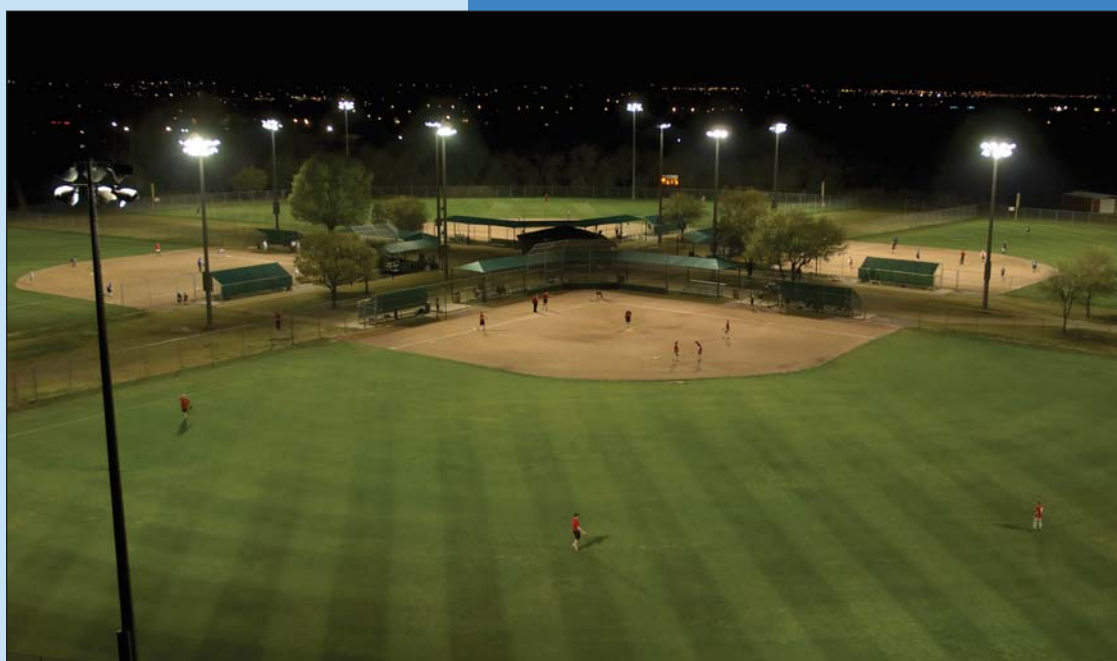


Lightline

A semi-annual newsletter for customers and colleagues of Musco Lighting · Spring, 2006

CITY CHANGES TO ALL GREEN GENERATION™

New systems dramatically reduce energy and maintenance costs



The city of Carrollton, Texas replaced lighting at their city's 26 ball fields with Musco's Green Generation™ lighting systems. Energy savings with these new systems are projected at over \$1,000,000 over the next 25 years.

When park officials for the city of Carrollton, Texas met with Musco representative, Chris Johnson, about lighting their new soccer complex, they never dreamed they would end up changing out every sports-lighting fixture at the city's 26 athletic fields at one time.

"We were intrigued by the capabilities of Musco's Green Generation™ lighting as Chris presented them," said Park & Recreation Director Scott Whitaker. With a population of 118,700, Carrollton

is nearly built out. So their mission has become one of sustainability. Making the most of what they have, and maintaining them well is key — including the city parks. "The city of Carrollton is committed to conserving energy, so the energy cost savings and maintenance benefits of Light-Structure Green™ fit into our overall city plan perfectly," said Whitaker.

"A lot of our lighting systems were older, and many didn't meet light level standards for some of the organizations

using the fields, so it was just a matter of time before they would need to be replaced," Whitaker said. "Even though it was a huge investment, the chance to get a return on our investment in 10 years or less was too good to pass up," he added. They then made the

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“...a return on our investment in 10 years or less was too good to pass up.”

– Scott Whitaker, Park and Recreation Director,
City of Carrollton, TX

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decision to replace all 1,838 fixtures at the 26 fields throughout the city.

\$1 million projected energy savings

Green Generation lighting systems cut operating costs by more than half through a combination of technology and service. Improved luminaire design increases energy efficiency. In addition, Musco's Control-Link® provides system monitoring and remote on/off scheduling, keeping the lights on only when needed. Based on their estimated combined hours of usage, savings are projected at over one million dollars in energy costs over the next 25 years. “Obviously, that was a huge factor in our decision,” Whitaker said.

“Neighbors have called us saying how much they appreciate the lights being on only when someone is actually using the field,” Whitaker added.

Maintenance program also saves significant dollars

In addition to saving energy costs, the city will realize significant maintenance costs savings. The city was paying between \$16,000 and \$20,000 each year to hire someone to check, repair, replace or re-aim the lights. With Light-Structure Green systems, Musco covers 100% of routine maintenance costs, including group lamp replacements, for 25 years.

Off-site spill light reduced

The players have been pleased with the quality of light on the field. They noticed the field is much brighter now without the “yellowish glow” the old fixtures had.

25 Year Energy Cost City of Carrollton, Texas — 26 Ball Fields			
Energy-Saving Features	Prior Technology 10,000 Hours 1,838 Luminaires 2,258 Average kW	MUSCO GREEN 10,000 Hours 716 Luminaires 1,120 Average kW	Savings
Improved Luminaire Design ¹	\$1,580,782	\$783,860	\$796,922
Controls ²	\$395,196	\$0	\$395,196
Total	\$1,975,978	\$783,860	\$1,192,118

This chart illustrates the projected energy savings the city of Carrollton will have over the 25-year life cycle of their Green Generation lighting systems.

1. Customer estimated usage 400 hours per year, \$.07 per kilowatt hour.
2. 25% savings by switching on and off 20 minutes closer to actual usage time.



Carrollton replaced a total of 1,838 fixtures on sports fields throughout the city

Spill light has also been reduced significantly. In fact, the old ballfield lights created so much spill light onto the parking lot that appropriate lighting for that space had not been addressed. With the tight control of Light-Structure Green, the city is now looking into

security lighting for the parking lot. “That’s a good problem to have — it means the sports-lighting is staying where it needs to — on the playing field and not in the parking lot or neighbors’ yards,” Whitaker concluded.

“Neighbors have called us saying how much they appreciate the lights being on only when someone is actually using the field.”

– Scott Whitaker, Park and Recreation Director,
City of Carrollton, TX