

"...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

*continued from page 1*

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 <sup>1</sup>	\$1,580,782	\$783,860	\$796,922
Controls <sup>2</sup>	\$395,196	\$0	\$395,196
<b>Total</b>	<b>\$1,975,978</b>	<b>\$783,860</b>	<b>\$1,192,118</b>

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; \$0.07 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.

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For more information on Light-Structure Green™, log on to [www.musco.com](http://www.musco.com)