

Patricia H. Birdsall Park

Temecula, California

Light-Structure
GREEN™

Light-Structure Green™ Saves \$644,000



Project Facts

Multisport Recreational Complex

Performance

- Reduced energy consumption:
Typical floodlighting 625.3 kW
Light-Structure Green™ 367.5 kW
- 4 Baseball/Softball Fields –
50 infield / 30 outfield constant
horizontal footcandles (500/300
lux), 2:1 infield / 2.5:1 outfield
uniformities
- Tournament Soccer Field – 50
constant horizontal footcandles
(500 lux), 2:1 uniformity
- 3 Soccer Fields – 30 constant
horizontal footcandles (300 lux),
2:1 uniformity

Lighting System

- Light-Structure Green
39 poles · 235 luminaires
- Control-Link® Control
and Monitoring System

"When designing this park, the emphasis on green was just starting. Two key components of our sustainability plan are energy and water conservation."

*- Cathy McCarthy
Community Services Superintendent
City of Temecula*

When Temecula designed a new sports facility adjacent to their Wolf Creek development in 2005, they were just starting to understand the importance of green planning. "The Light-Structure Green™ system was obviously an improvement and it was a green system that would allow us to save significant money on utility costs in the future," said Temecula's Community Services Superintendent Cathy McCarthy. With eight new fields expected to be used an average of 1,000 hours annually, conserving energy will have long-term benefits for the city, amounting to over \$644,000 in energy savings alone in the next 25 years. Additional savings will come from the warranty protection Musco provides for the next 10 years.

Key Issues

Environmental Light Control

- Meets strict guidelines to minimize off-site spill and glare light on adjacent property

Life-Cycle Cost Savings

- Musco's Light-Structure Green™ reduces energy consumption from prior technology of 625.3 kW per hour to 367.5 kW per hour
- 25-year projected energy savings is \$644,000
- Additional cost savings are provided through Musco's 10 year product assurance and warranty program, which includes group lamp replacements, controls savings, and maintenance savings



We Make It Happen®

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