

Lighting Control and Monitoring Service (LCMS)TM



CASE STUDY –City of Los Alamitos Recreation Park Venues

Location Description: A community park with a baseball field, soccer field and four tennis courts.

Problem: City Recreation Manager was required to rely on mechanical timers for the control of the outdoor lights for three widely dispersed recreational venues; a baseball field, soccer field and tennis courts. Each of the outside lighting areas had different control problems. The baseball field required 3 to 4 hours of lighting per night 2 to 5 times a week with a similar requirement for the soccer field. City use of mechanical timers were labor intensive to set and manage. City had given keys to the users of the venues to turn the lights on and off. The users had frequently left high voltage, and costly lights burning all night with resultant complaints to the City from neighbors and taxpayers. Often the City was required to send an employee to the field to turn lights off or on at irregular hours. City had often resorted to controlling the lighting by manually turning the lighting on and off at the electrical panel with the circuit breakers. This control method was unreliable, inefficient and wasted employee time and electrical energy.

City was renting the tennis courts, generating revenue from the rental to cover the costs of electricity, and scheduling. Manually setting the mechanical timers for the control of the lighting was not cost effective or efficient, and wasted city employee time, driving up labor costs and expenses.

- Goals:**
1. Ensure the lights always go on and off at the right times using the LCMS capability to control lights remotely with a web-based, real-time scheduling and control capability. Set direct 7-day schedules and control two separate and distinct on/off lighting channels.
 2. Create an on-going record of lighting runtimes for each venue and each use
 3. Improve employee efficiency; saving labor time and fuel costs.
 4. Eliminate potential liability with non-lighted parking lot and walkways.
 5. Stop waste of energy and money.
 6. No big up-front cost, no long-term commitment.
 7. No resource drain or time wasted (set it once and forget it).

Solution: Replaced six mechanical timers with three Wireless Telematics Lighting Controllers.

Results: Lights are remotely and conveniently scheduled and controlled, turning on and off reliably, effectively and efficiently, saving employee time and costs, and energy expenses while decreasing lamp burn times and replacement costs.

Extra Benefits:

1. The City Recreation Manager is satisfied -- the lights are on and off when scheduled.
2. Lighting control is remote by means of the LCMS web-based scheduling capability.
3. A history of runtimes stored in online database.
3. The lighting schedule is accessed and controlled from a computer or smart phone.
4. The City Recreation Manager is notified of power outages and restorations.
5. The LCMS is much more reliable than timers.
6. LCMS provides automatic adjustments for changes in sunrise/sunset and DST.
6. Lifetime warranty (mechanical timers had one year warranty).
7. Made in the USA (mechanical timers made in China).
8. Less Greenhouse Gas Emissions, Smaller Carbon Footprint.
9. Great Customer Service and Free Technical Support.
10. **Stopped Wasting Time, Energy and Money**