



UNIVERSITY OF
LA VERNE

Case Study: Education

Reducing Car Park Lighting Costs



Introduction...

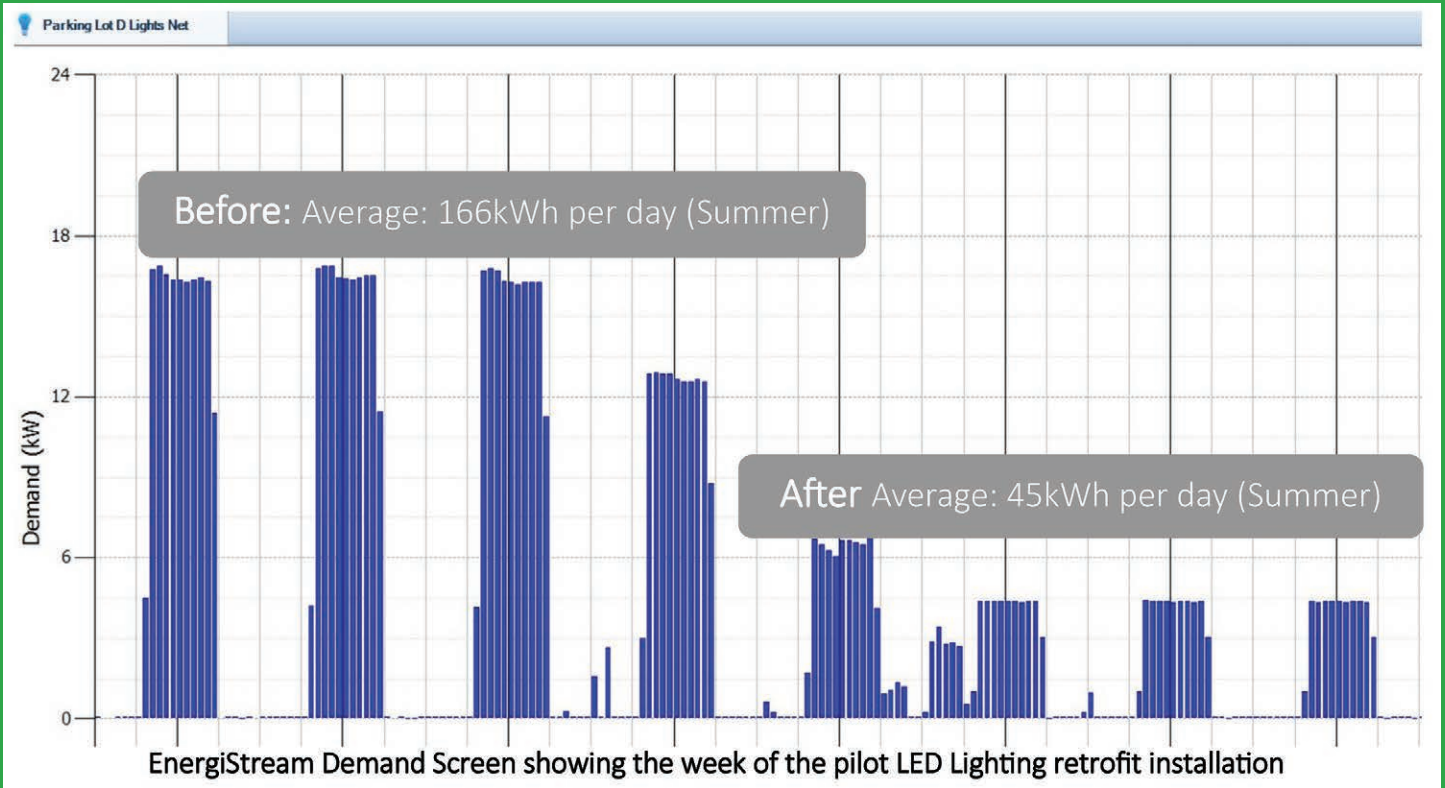
The University of La Verne is a private not-for-profit university located in La Verne, California, 35 miles (56 km) east of Los Angeles.

The university is composed of the College of Arts and Sciences, College of Business & Public Management, College of Education & Organizational Leadership, College of Law, and a Regional Campus Administration that oversees seven regional campuses. On its main campus the University operates over 10 car parks

that consumed increasingly unacceptable levels of energy.

The first step in evaluating which energy measure offered the optimum ROI was to deploy ElecEnergy's EnergiStream Monitoring and Verification package to assist in understanding the consumption and associated cost profiles.

The second step was to use EnergiStream to verify actual savings then plan for further savings.



Outcomes...

The University wished to save a minimum of 50% of external car park lighting costs of \$70,000 per year across its 10 car-parks.

Using EnergiStream to profile pre-retrofit demand the University was able to determine which blend of LED Lighting cost/performance ratio was able to match their ROI requirements of less than 3-years. The eventual outcome provides an ROI of 2-years and a 73% reduction.

The next steps are to use EnergisStream to reduce consumption by a further 10% by optimizing Time of Use control profiles.

CAR PARK 1, LED LIGHTING PILOT ENERGY SAVINGS

Av. Daily Demand Pre-installation	7 kW
Av. Daily Demand Post-installation	2 kW
Energy Consumed Pre-installation	166 kWh/day
Energy Consumed Post-installation	45 kWh/day
Daily Energy Savings	121 kWh/day
Annual Energy Savings	44,163 kWh/year
Approx. Energy Costs per kWh	\$0.105 per kWh
Approx. Savings (Gross)	\$4,637 per year
	73% reduction