

Energy Savings Program: Case Study

DGS Office of Sustainability



CDFA Del Mar Fairgrounds and Racetrack



DGS Office of Sustainability's Energy Savings Program (ESP) helped the Del Mar Fairgrounds and Racetrack achieve key energy efficiency projects across the fairground including the racetrack, stadiums, and exhibit halls.

Annual Savings from Project:

- \$260,000 on energy bill
- 1.5 million kWh of electricity
- 1.2 MW demand reduction
- 2.3 million gallons of water

**Awarded the
Association of
Energy Engineers'
Region V Energy
Project of the Year**

The Need:

The Del Mar Fairgrounds hosts the annual San Diego County Fair and other community events. The San Diego County Fair was 33% of the annual electricity cost due to peak-demand penalties from large plug loads. Additionally, several pieces of equipment were running at high speed 24/7.



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DGS ESP Solution:

An investment grade audit (IGA) performed on the Del Mar Fairgrounds by the energy savings company, CEG Solutions, identified five facility improvement measures that facility leadership targeted for the project: 1. LED Lighting upgrades, 2. HVAC upgrades, 3. Domestic water fixture upgrades, 4. Building envelope improvements, and 5. Building automation system (BAS) control improvements for the ventilation system.

This project conducted a unique end-user engagement and incentive strategy to educate fairground vendors about energy efficiency strategies such as LED lightbulbs. Implementation of these vendor energy efficiency measures resulted in a 686 kW demand reduction during peak fair hours in addition to other demand savings.

