

CASE STUDY

Los Angeles Unified School District

2019

Walk the Walk Portfolio of the Year



“““

As we walk the path towards a sustainable future, we set the pace to create responsible and healthy learning environments where our students continue to thrive.

Christos Chrysiliou
Director of Architectural &
Engineering Services
LAUSD – Facilities Services Division
Maintenance & Operations

Portfolio Description

The Los Angeles Unified School District (LAUSD) is the largest public school system in the state of California and the second largest in the United States. The district serves most of the City of Los Angeles, along with all or portions of 26 cities and unincorporated areas of Los Angeles County, through a network of over 1,300 schools and centers.

Sustainability Goals

In 2007, the Los Angeles Board of Education passed Green LAUSD, declaring its commitment to become the most sustainable and environmentally-friendly large urban school district in the country. LAUSD's mission is to reduce energy and water consumption 20% by 2024 while supporting high-performance design, education and awareness programs, and campus ecology programs.



2%
reductions across
portfolio in 2018



2.5%
reductions across
portfolio in 2018

Portfolio Specifications

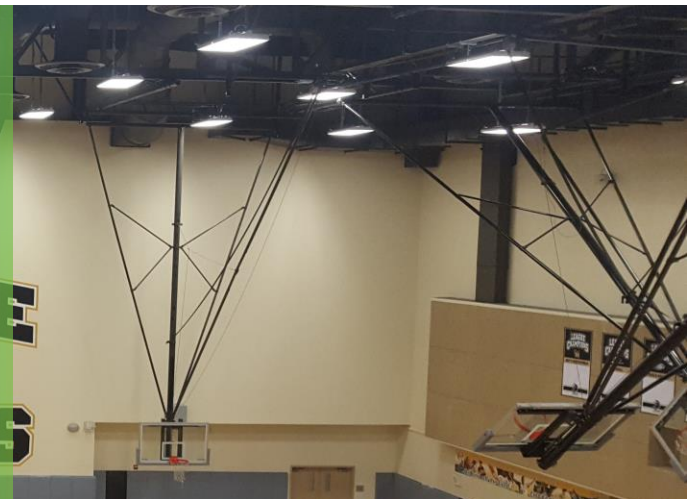
Number of Schools and Centers: 1,322

Square Feet: 70 Million

achieve.lausd.net

Project Background

The LAUSD Sustainability Initiatives Unit was established in 2008 as a part of the Facilities Services Division. The unit is committed to developing and implementing programs that support the district's sustainability mission.





Pro Tip

Los Angeles Unified aims for optimal efficiency when managing all projects. With our sustainable construction programs, we make the critical technological upgrades to reduce energy consumption. These improvements save money, critical general fund dollars, and also provide an example to students on how to manage a school building.

Robert Laughton
Director of Maintenance and Operations

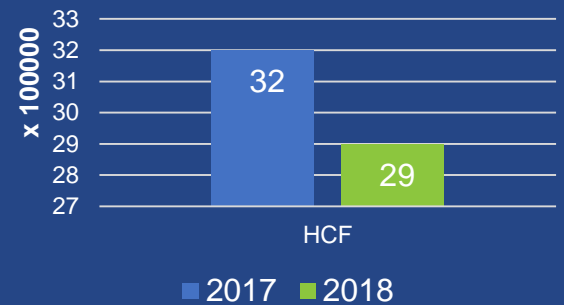
2018 Project Highlights

- Initiated and completed projects at numerous schools and facilities consisting of interior & exterior LED lighting retrofits, occupancy sensors, high efficiency transformer replacements, new pool VFDs, HVAC upgrades and energy management system upgrades.
- Installed drywells, bioswales and other features to capture and infiltrate stormwater. Identified four sites for additional stormwater capture projects.
- Identified sites for recycled water and plumbing fixture upgrade projects that will save a combined 154 million gallons of water.

Projects Completed Prior to 2018

- Replaced magnetic ballasts with electronic ballasts and T8 lamps at 266 schools, saving \$162,800 in electricity costs (880,000 kWh annual electricity reduction).
- Completed 127 Collaborative for High Performance Schools (CHPS) recognized projects
- Completed one LEED Platinum, five LEED Gold and one LEED Silver Certified schools
- Installed solar in 68 project sites with a capacity of 21.5MW.

Water Use



Stakeholder Engagement

LAUSD stakeholders provide significant insight toward, and contribute to the success of, the District's sustainability and energy efficiency goals. The district has developed a comprehensive stakeholder review process, involving coordination of all architectural, engineering, and other associated design disciplines, including energy and sustainability, throughout each design phase to ensure maximum participation and input.

Innovation

LAUSD is continuously developing pilots to reduce energy consumption and maximize opportunities for renewable energy, such as by developing and coordinating a pre-checked roof replacement infrastructure system that supports solar panels for the entire district.