



Streamlining School Campus Modernization Initiatives

Partnerships inject the right expertise into facilities improvements designed to control costs and improve reliability

Facilities in Need of Improvement

Education is your mission – and rightly so. But as you’ve relentlessly optimized student achievement, facilities improvements may have stalled. In many districts, differing budget priorities and limited staffing have delayed projects that would optimize the safety and sustainability of learning environments. Core campus systems may now be unreliable, inefficient, and expensive to operate, with outages and unplanned repairs impacting students and staff.

OPTERRA Energy Services (OPTERRA) has the expertise to help your district clear backlogs of maintenance and upgrades, while modernizing facilities across all your campuses.

Your district may be a good candidate for our support if you face any of the following challenges:

- The need to reduce spending on energy, both on monthly electric bills and in unexpected repairs
- A backlog of deferred maintenance, resulting in critical systems breaking down frequently
- Lack of staff time and expertise to navigate the landscape of available grants and incentives, or to oversee planning and construction
- Concern that a major construction project could be disruptive to student learning
- Difficulty finding financing for facilities improvement projects

A More Practical Approach

Partnering with OPTERRA helps K-12 districts leverage the latest proven technologies, streamlining and accelerating their path to more efficient operations and energy cost savings.



Facilities Design

OPTERRA will perform an energy audit, then support you in prioritizing upgrades – whether modernizing existing assets or designing and installing new systems. Bundling projects can mean savings generated by some upgrades help pay for others.



Construction Oversight

OPTERRA will leverage five decades of expertise in managing all aspects of the build process. We will coordinate with trusted local subcontractors while minimizing disruption to school operations.



Financing

OPTERRA's energy performance contracting enables energy cost savings over time to pay for the upfront cost of projects. In addition, we can guide your district through the array of available grant and incentive programs.

Cost-effective & Sustainable Solutions

Partnering with OPTERRA on facilities improvements ensures that the project meets expectations while finishing on time and on budget. For K-12 districts, we offer:



Renewable energy generation

Turnkey installation of solar PV systems on rooftops, parking structures, or other configurations. Design and implementation of geothermal heating and cooling systems.



Campus modernization & efficiency

Upgrades that improve a district's efficiency – and reduce costs – covering dozens of opportunities, from building-envelope improvements like energy-efficient windows to modernization of lighting and HVAC systems.



Energy storage & resiliency

Microgrids that consist of onsite solar arrays, battery energy storage, generators, and/or fuel cells minimize the impact of power outages and reduce monthly electric bills.



EV charging & fleet electrification

Planning, funding, and construction of EV charging infrastructure for district school bus fleets, staff, and commuters.



Student & staff engagement

Programs that directly benefit your academic mission through STEM classroom engagements, teacher training, and student internships.

A Long-term Partner

OPTERRA has served hundreds of schools throughout the United States, using a comprehensive approach that streamlines facility modernization.



The Hayward Unified School District, located in the San Francisco Bay area, partnered with OPTERRA to implement solar PV on shade structures, roofs, and ground-mount arrays, as well as battery energy storage and EV charging stations. The program is projected to save the district a total of \$65 million.



The San Marcos Unified School District, in San Diego County, worked with OPTERRA to build the charging infrastructure as it transitioned 75 buses to EVs. The program also involved solar PV and a microgrid for energy resiliency, as well as efficiency upgrades. The district expects to save \$40 million over the life of the program.



When the Riverton, Illinois, Community Unit School District #14 undertook a major building modernization project, OPTERRA helped district leaders plan the improvements, then oversaw all construction. The program was so successful that the school board renewed the partnership for a second phase.



In response to wildfire-related disruptions, Santa Barbara Unified School District in Southern California worked with OPTERRA to build six microgrids with solar PV generation. Now, solar PV meets about 90% of the district's energy needs, and the energy storage systems cycle to reduce grid demand charges.

Contact OPTERRA to learn how we can help you step off the maintenance treadmill and focus on modernizing your district's facilities: opterraenergy.com/contact