



MT. DIABLO
UNIFIED SCHOOL DISTRICT

ENERGY INFRASTRUCTURE RENEWAL PROGRAM

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sitelogiq
Efficiency Powered by Intelligence

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[sitelogiq.com](https://www.sitelogiq.com)

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WHO WE ARE

One of the largest privately held, U.S. based Energy Services Company delivering world-class energy and infrastructure solutions **for school districts.**



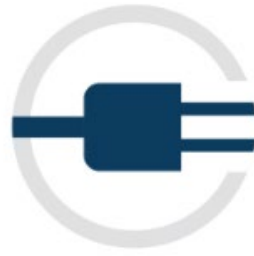
600+
Employees



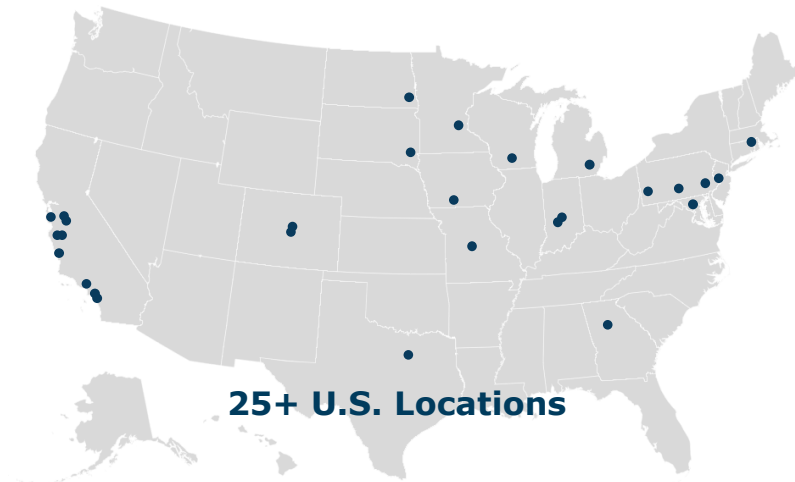
11,000
Customer Sites



\$5 Billion
Constructed



\$1 Billion Saved
in Energy & Ops



OUR CALIFORNIA PRESENCE



- Our largest client base is in California
- Over 250 California School Districts served and counting!
- Our CA K-12 projects vary from \$75,000 (Big Creek ESD) to \$34,000,000 (Marysville USD)





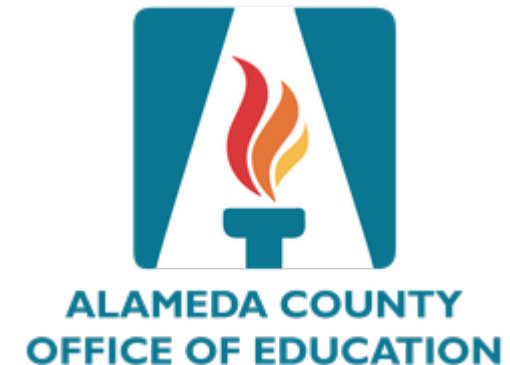
Local K-12 HVAC Controls Lighting

- **San Leandro USD- \$16.5MM Total Multi-Phased** *Comprehensive HVAC, HVAC Controls and Lighting 24 sites*
 - Most facilities had no cooling. Designed unitary equipment solutions throughout District with wi-fi stats. Recommissioned controls on remaining central plants (2 total)
 - Local Bond Funded – **Saved millions over budget including \$3MM in electrical infrastructure savings.**
 - **Used savings for comprehensive LED lighting throughout District.**

- **Campbell UHSD - \$16.8 MM Total – Multi-Phased** *Comprehensive HVAC, HVAC Controls and Lighting 6 sites*
 - Central Boiler/Chiller plants eliminated at 5 comprehensive high schools. Unitary equipment and wi-fi stats employed.
 - Exterior lighting retrofits + one high school interior lighting retrofit
 - **Funded by Prop 39, 0% QZAB, and Local Bond funding**
 - **District proceeding with \$4.1 MM further HVAC and controls in October.** - Cooling for 5 gymnasiums + District Office Central plant HVAC replacement with unitary equipment and wi-fi thermostats.

OTHER LOCAL K-12 CUSTOMERS

- *Byron Union (1) (2)*
- *John Swett Unified (1) (2)*
- *Lammersville Joint Unified (1) (2)*
- *Liberty Union High (1) (2) (3)*
- *Oakley Union Elementary (1)(2)*
- *Patterson Unified (1)*
- *Pleasanton Unified (2)*
- ***San Ramon Valley Unified (1) (2)***
- *Tracy Unified (1) (2)*



1 = Lighting 2 = HVAC and/or HVAC Controls 3 = Solar Generation

HVAC CONTROLS SCOPE OF WORK

Tridium based controls platforms

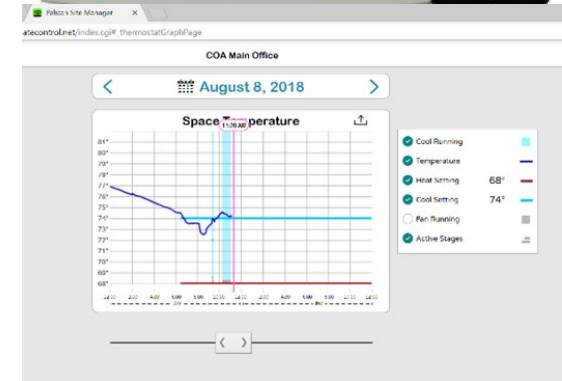
- A must for central boiler/chiller plants
- Completely optional for packaged, unitary systems
- Some are highly proprietary
- Initial and ongoing costs very high – require specialized vendors



Wireless thermostat controls platforms

- Have evolved dramatically over time
- Robust wireless capabilities & ride own network
- Same scheduling and setpoint abilities
- Onboard, very inexpensive CO2 monitors
- No expensive programming or specialized contractors
- Dramatically less initial cost and even greater ongoing savings
- Can put savings to work elsewhere

Gym 2	Fan Running Setting 72°	71° CO2 465 _{ppm}
Library	Fan Running Setting 75°	72° CO2 547 _{ppm}
Music room P1	Fan Running Setting 68°	68° CO2 423 _{ppm}





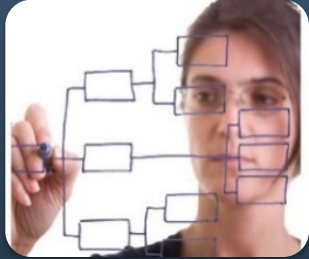
What is the goal of an Energy Master Facility Plan?...



To revitalize, optimize, and create healthy, safe, efficient, and productive learning environments

FOR STUDENTS

ENERGY MASTER PLANNING



Planning

- Comprehensive Facility Energy Assessment & Dashboard
- Elected Measures Results / Potential Funding Development
- Energy Master Plan Finalization



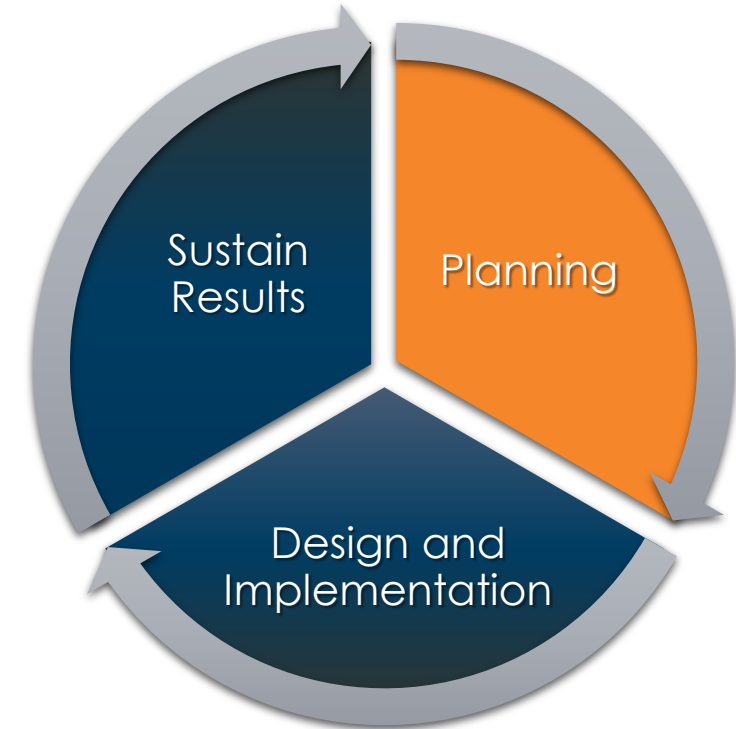
Implementation

- Integrated/synergistic approach creates best value
- Multiple funding avenues may lead to multiple phases
- Scope, budget, and schedule assurances



Beyond Construction

- Data Analytics integrated with EIQ Energy Management Services
- Long-Term Facility Maintenance Planning



MAKING THE INVISIBLE VISIBLE



Campbell UHSD
Home

Electricity Use Overview



Site Name

All

Site Type

All

Usage Overview

Cost Overview

Comparison Chart

Comparison Table

Solar Performance

EUI Map

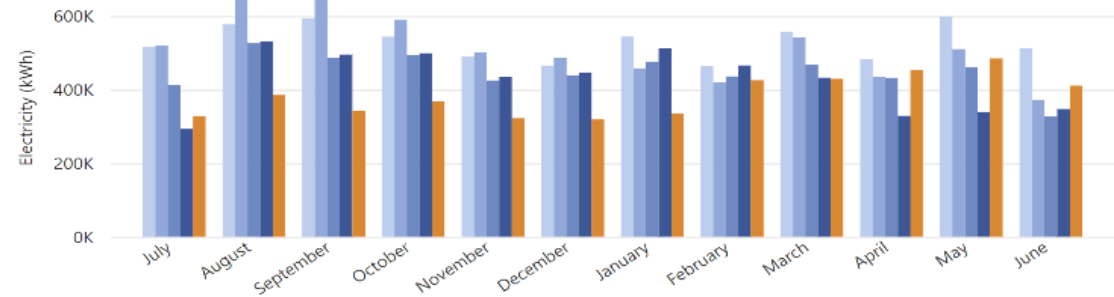
Carbon Footprint

Estimated Savings



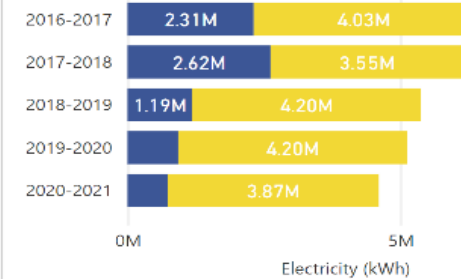
Total Electricity Usage by Month and Fiscal Year

FY ● 2016-2017 ● 2017-2018 ● 2018-2019 ● 2019-2020 ● 2020-2021



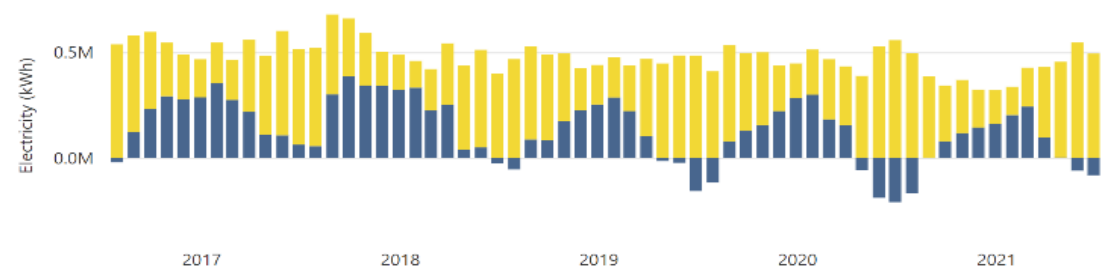
Total Electricity Usage by Fiscal Year

● Utility Purchased (kWh) ● Solar Generation (kWh)



Total Electricity Use by Month and Source

● Utility Purchased (kWh) ● Solar Generation (kWh)



FACILITY SURVEY

Comprehensive Energy Asset Assessment

- System report cards, predicted remaining life
- Replacement / upgrade cost estimates
- Advanced prioritization

Indoor Environment Assessment

- Indoor air quality, light, sound, temperature
- Pathogen mitigation

Facility Optimization

- Identification of utility and deferred maintenance cost savings opportunities throughout the District



FUNDING IS NOT A BARRIER

- *ESSER III Funding / Potential further Federal Stimulus*
- *CEC / Utility Grants & Rebates*
- *CEC 0% Loans*
- *Tax Exempt Municipal Lease*
- *Certificate of Participation*
- *Local / State Bond Funding (Measure J)*
- *Low/0% QZAB Funding – may be returning!*



Plan Section	Total Planned ESSER III Expenditures
Strategies for Continuous and Safe In-Person Learning	\$ 9,371,000
Addressing Lost Instructional Time (a minimum of 20 percent of the LEAs ESSER III funds)	\$ 8,363,000
Use of Any Remaining Funds	\$ 21,186,630

SITELOGIQ WILL GUARANTEE RESULTS!



Partnership

WE ARE GOING HERE TO SUPPORT THE DISTRICT LONG TERM

- Energy Manager (both remote and onsite)
- Energy Advocate ensuring you are on the right utility programs and rates
- Providing maintenance and monitoring for your solar system
- Performing measurement and verification operations and solutions
- Identifying additional grants and funding resources
- Supporting your school community



- Student Engagement
- Student Learning
- Careers in Energy
- STEAM/CTE/ROP

Student Education

SitelogIQ is pleased to offer remote and on-site educational lessons for your K-12 students that emphasize STEM based curriculum and concentrate on energy related topics such as:

- Energy Technologies and Careers
- Energy Management and Conservation
- Solar Energy and Renewables
- Energy Monitoring and Analysis
- Energy Storage
- Energy Resources and Environmental Impact
- Recycling and Waste Management



QUESTIONS?



- SOLAR, LIGHTING AND HVAC
- MASTER FACILITY PLANNING
- LONG TERM FACILITY MAINTENANCE PLANNING
- ENERGY MANAGEMENT EIQ PROGRAM
- DESIGN BUILD OR PLAN SPEC
- LEASE/LEASE BACK
- ENGINEERING
- EMERGENCY SERVICE AND MAINTENANCE
- MONITORING AND CONTROLS
- STUDENT EDUCATIONAL PROGRAMS

