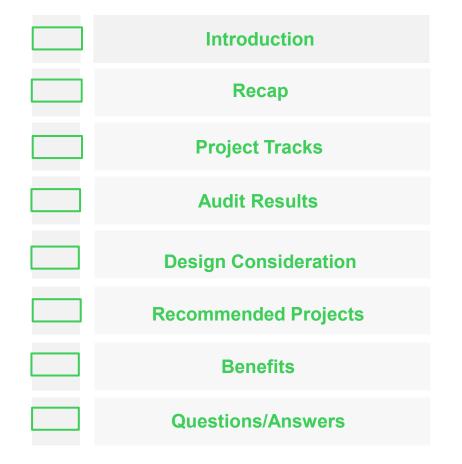


Schneider Electric Construction Amendment #1 – LED Lighting and Energy Management









Project Tracks – Track 1 LED Lighting

Project Scope 1: LED Lighting Internal/External Audit Dec 21 - Feb 22 50+ sites - Interior / Exterior Design Mar 22 - Apr 22 Good - Better - Best **Options** Construction Kickoff/Install Late May – June 23 Project Scope 2: Audit - Jan -April 2022 - Evaluate current state Design - Feb - May 2022 Install - Late 2022 and Spring/Summer

Project Scope 3: Audit - Jan -April 2022 Includes adding HVAC at MPRs and **Kitchens** Design/DSA Approval Feb 2022 -Feb 2023 Install - Summer 2023



Audit Details

Multi-Month Investigation

- The audit was composed of:
 - 6,800+ Exterior fixtures
 - 40,000+ Interior Fixtures
 - o 2,000+ Classrooms
 - 7,000+ unique spaces and areas
 - Human Centric Lighting (60 classrooms)
- Photometric light readings
- Detailed individual records for each light
 - Lamp type, wattage, condition, etc.



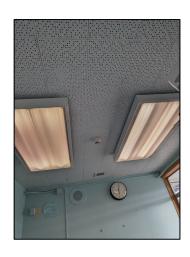


Audit Photo Examples













Design Process

Interior Spaces

Good

LED Tube Replacement Only

Better

LED Retrofit Kits

Occupancy Sensors

Best

Architectural Grade Retrofit Kits

Occupancy Sensors

Dimming

Ceiling Tiles and Lens Replacement





Design Process

Interior/Exterior Spaces

Exterior Lighting

- Like-for-Like Replacements
- Additional lighting

Lighting Controls and Switches

- Remote Scheduling
- Within Existing Controls Dashboard
- Dimming Switches

Humancentric Lighting

- Designed for Special Needs Classrooms
- Color Changing and Dimming





Recommended Project

Modernizing Mt. Diablo USD

Project

Turnkey District-Wide LED Lighting

-District-Wide LED Retrofit Kits
-LED Tube Replacement in "Architectural Spaces"
-Complete Exterior Lighting Replacements
-Occupancy Sensors

- Dimming Functionality and Light Switch Upgrades
 - Human Centric Lighting for Special Needs

Ceiling Tile and Lens Replacements

-Improvements at each site

2-Years of Energy Management

Hands-On Operational Support for Increased Utility Savings





Project Price

Fixed-Firm Commitment

Recommended Project Price

\$24,354,012





Benefits - Classroom/District

- Enhanced Learning Environments through high quality lighting and increased comfort
- Improved campus safety and security
- Targeted Exterior Lighting to campus / Managing residential impact
- Development of energy policy and guidelines to better manage equipment during unoccupied times
- Fully Managed Software Program Utility bill management/tracking







Benefits - Financial Estimates

- Year-One Energy Savings:
 - ~\$990,000
- Year-One O&M Savings:
 - ~\$250,000
- 20-Year Total Lifecycle Savings:
 - ~\$37,000,000

^{*}Annual Utility escalation based on California Energy Commission recommendations for Prop-39 of 4%

^{*}California Energy Commission recommends O&M savings equal 2% of project price. Schneider Electric uses a conservative 1% for O&M Savings



Project Schedule/Next Steps

Milestone	Date
Board Presentation (Discussion/Action Item)	5/11/2022
Lighting Scope	
Procurement	Early Summer 2022
Install	August 2022 – May 2023
Commissioning	Summer 2023
Energy Management	
Summer Shutdown Implementation	Week of May 23rd
Energy Management Program Onsite/Remote – Training/Support	Ongoing

Thank You

