

Save Green by Going Green

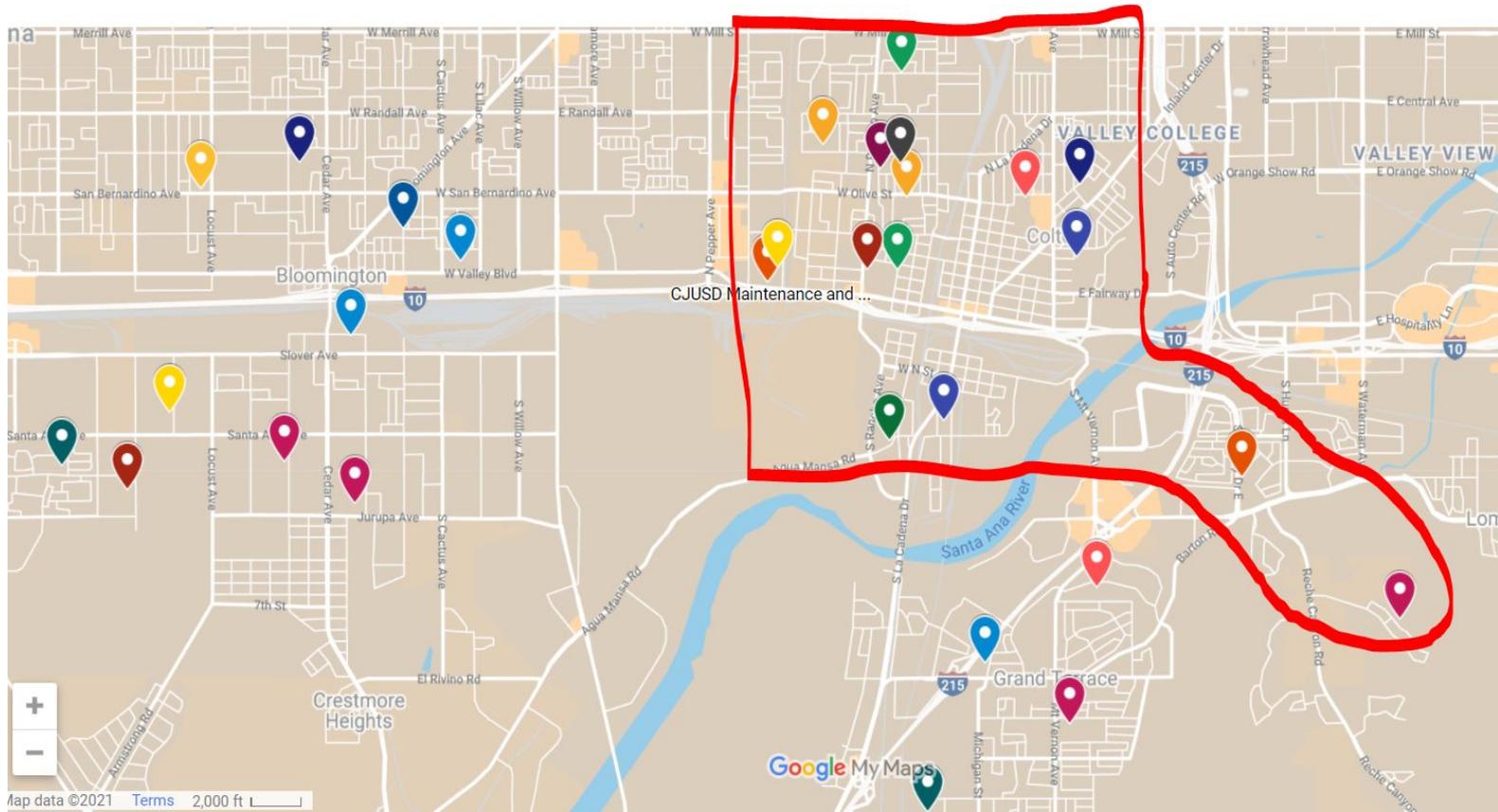
Colton Joint Unified School District
Jay Kim - Energy Manager



District Overview

22,000 Students

14 SCE sites - 16 sites Colton Public Utilities





Energy Program Overview

- Facilities: Energy efficiency projects
- M&O: Operation and optimization
- Energy analysis
- Sustainability
- Education





Solar Summary

- Carports and canopies at 26 sites
- 6MW solar generated 36,000 MWh over 5 years



5,602



Passenger
vehicles driven
for one year



3,102



homes' energy
use for one
year

- Solar accounts for 61% of our electricity
- Fixed rate for 25 years at 14.25 cents/kWh



Tesla Battery Storage

- Reduce peak loads during the day
- 920kW battery storage at 6 sites
- 10 year PPA

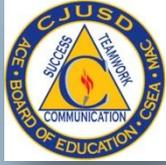




Prop 39: \$5M Grant

- HVAC upgrades for portables
- Thermostat replacement and exterior light timers
- LED lighting upgrades





SCE Direct Install Program

Business Division

Southern California Edison (SCE) provided \$525k worth of free LED interior lighting at 12 sites. **25,000+ bulbs were replaced.**





Centralized Irrigation Controls



“It takes a village”

Artificial Turf Conversion

Total Grant Funding \$66,000

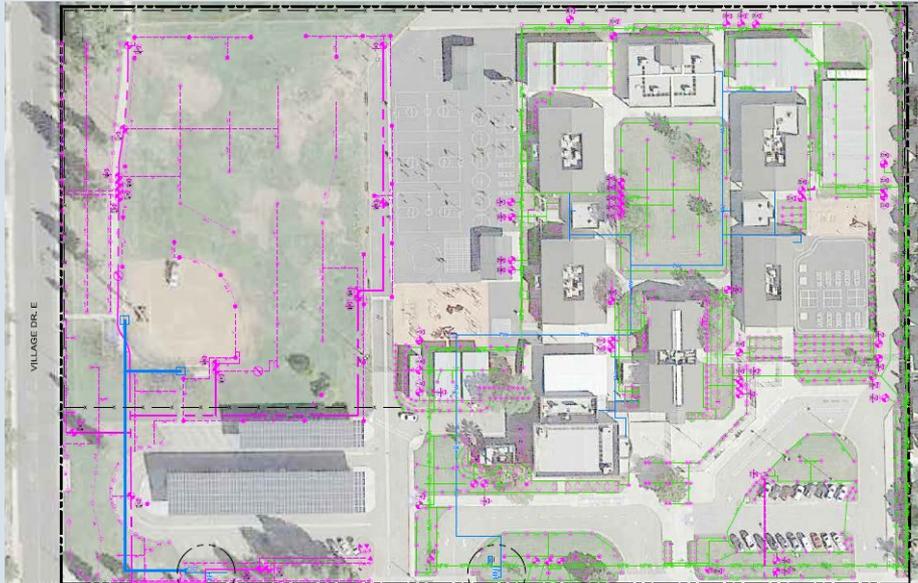


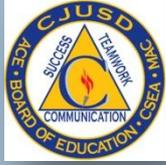
325,000
gallons of
water saved
annually



Recycled Water Projects

\$75k Grant from Socal Water Smart and Fontana Water Co.





Energy - Present

Business Division

Organic Food Waste Collaboration: AB 1826





Sustainable Design



SOLATUBE®



Before



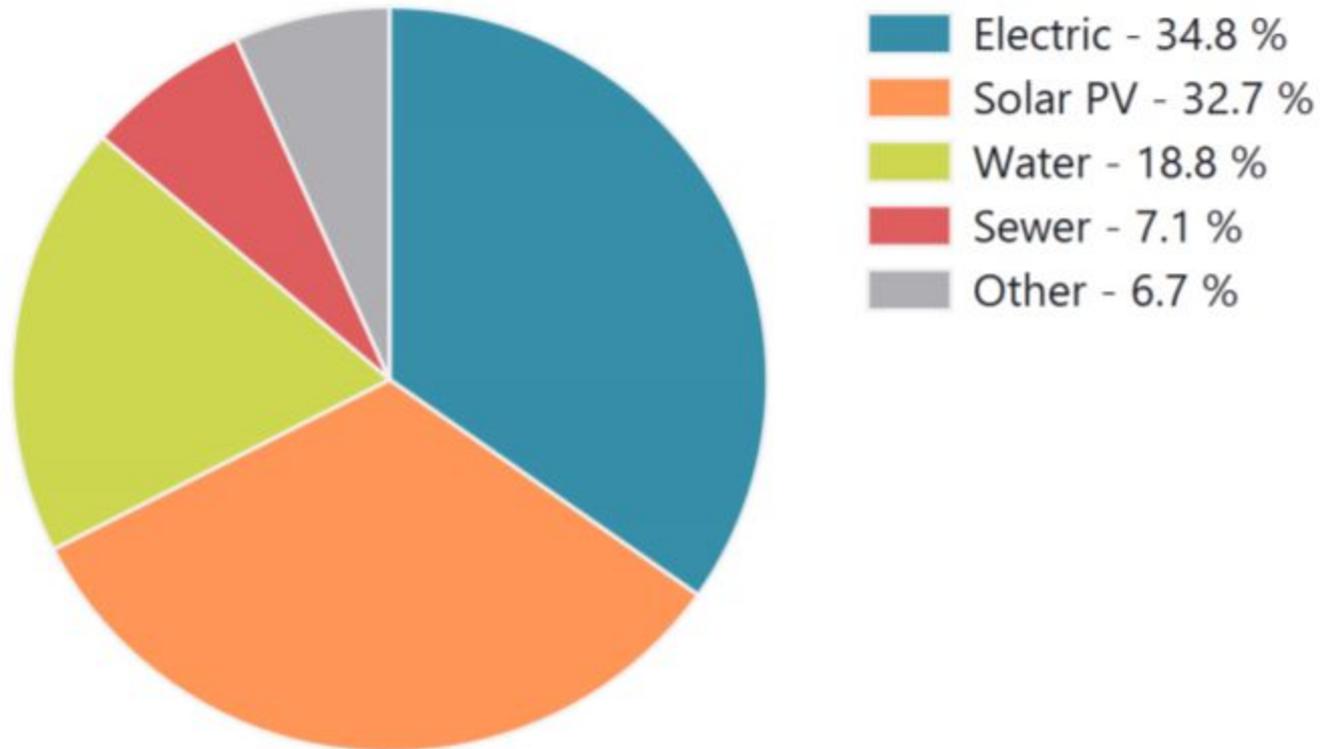
After

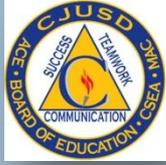


Energy Savings During COVID

Utility Expenditures: \$1.1 Million Decrease

Cost Percentage





Flowater Bottle Refill Stations

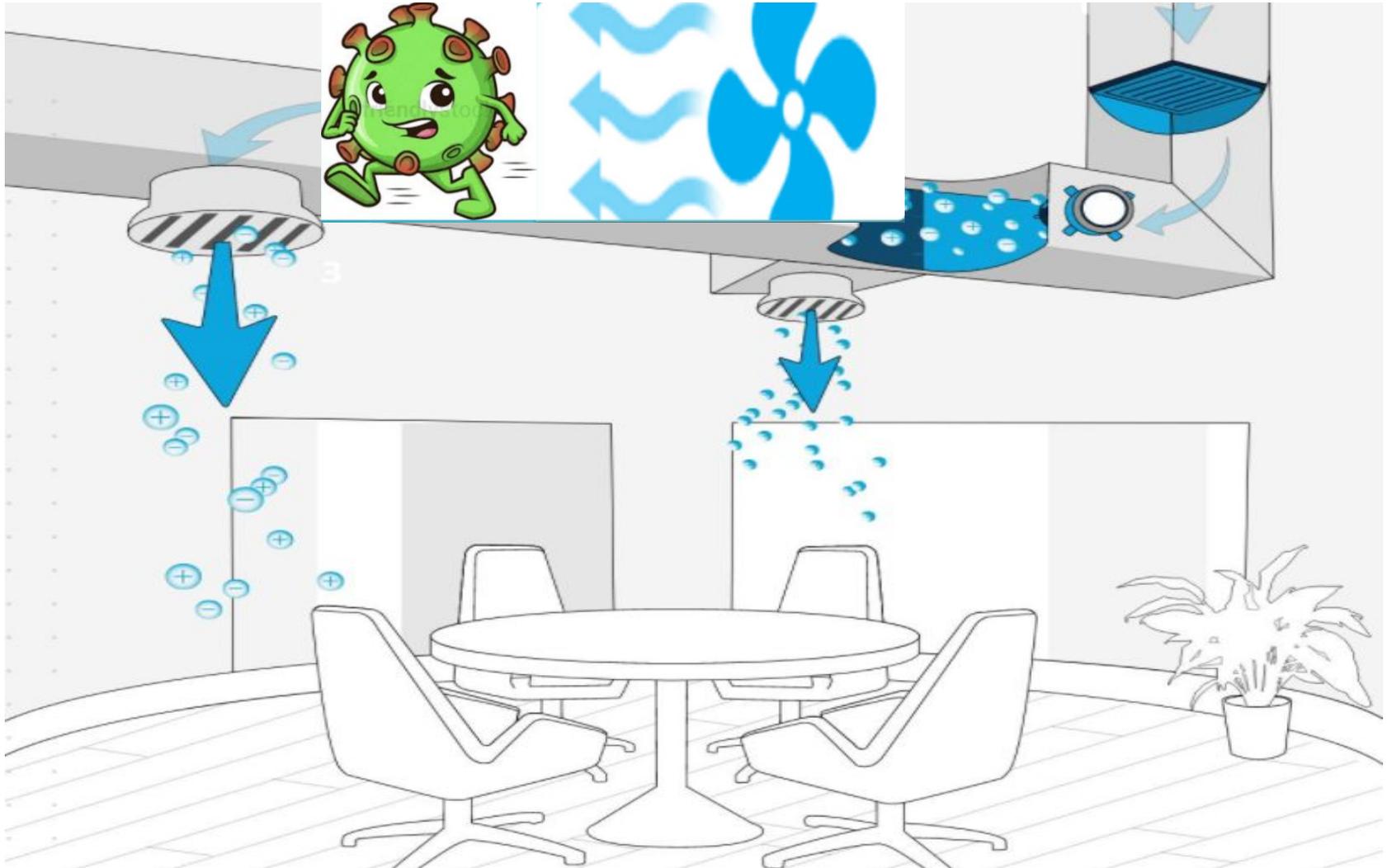
- 7 stage filtration
- Great tasting chilled water
- Less single use plastic bottles
- Improves student performance

“Our school looks so ghetto, but this looks so cool”. - Anonymous Student

\$141,000 Grant from State Water Resources Control Board



BiPolar Ionization



Energy Twitter



CJUSD Facilities/... · 2/21/19 ...

Thanks M&O for changing our air filters. Clean air for everyone and energy savings. Eco-hero of the day!



CJUSD Facilities/... · 2/13/19 ...
Eco-heroes at Grant ES!



CJUSD Facilities/... · 1/23/19 ...
Electric lawn mowers are quiet for classrooms and keep the air clean. Thank you M&O. #Eco-heroes!



Energy Twitter



CJUSD Facilities/Energy...
@CJUSD_Facility

Sustainable lawn
management at GTHS



CJUSD Facilities/Energy...
@CJUSD_Facility

One of our clean electric
buses in service.



IOU vs POU

- Access to Billing
- Rate Structures
- Rebates and Incentive Programs
- Different Levels of Partnership





Future Projects

EV Charging Stations Edible Garden for Culinary Arts Program

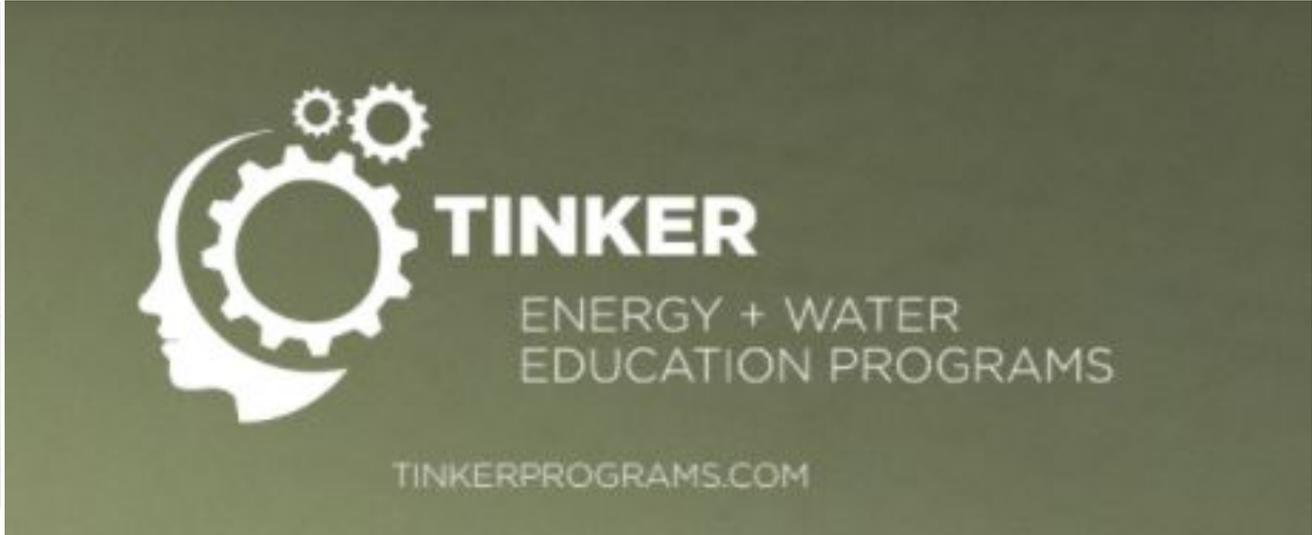




Education



ENERGY EFFICIENCY KIT



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