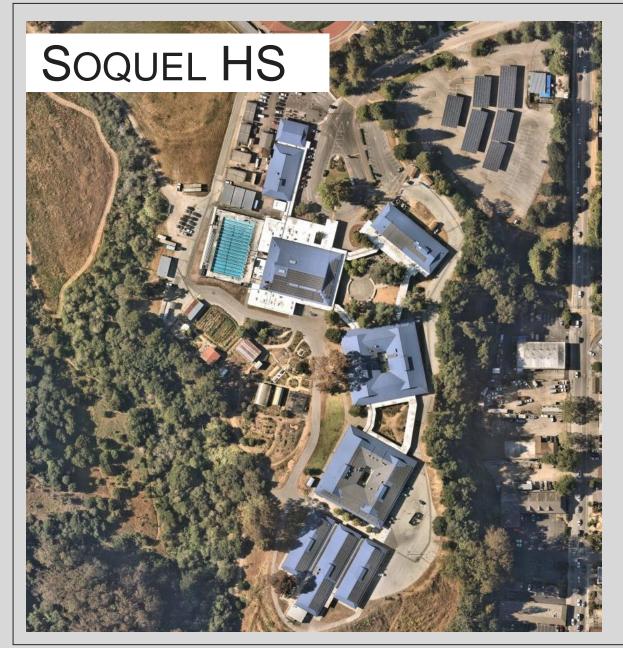


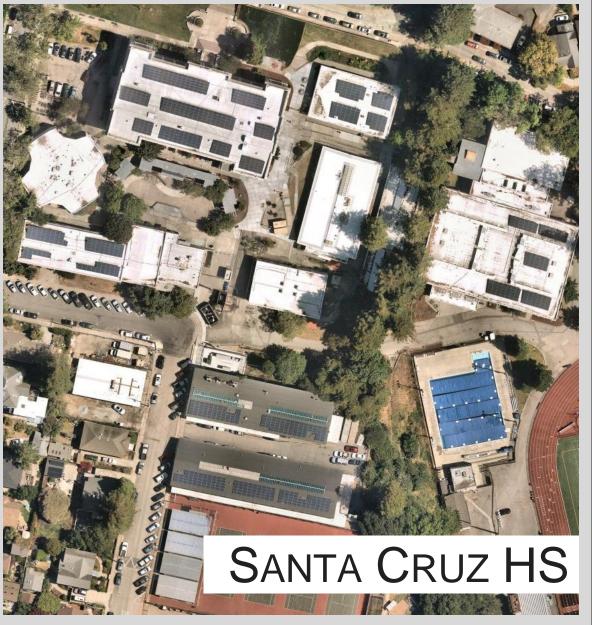
Green Schools Presentation: Sustainability & Energy Efficiency Programs

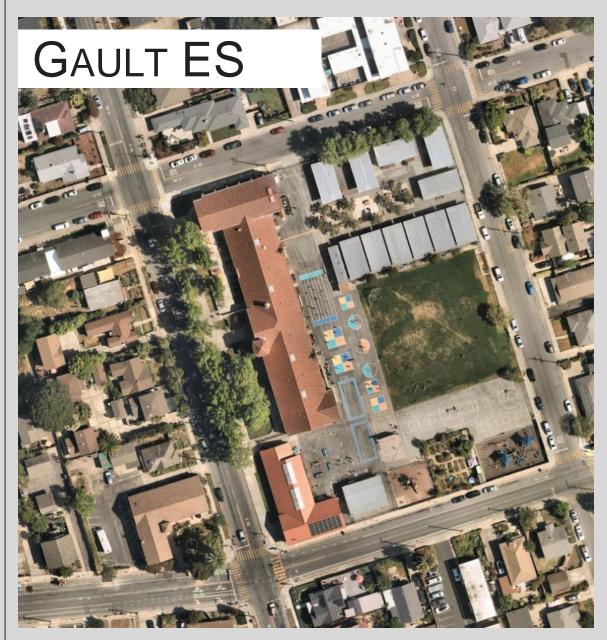
April 13, 2023

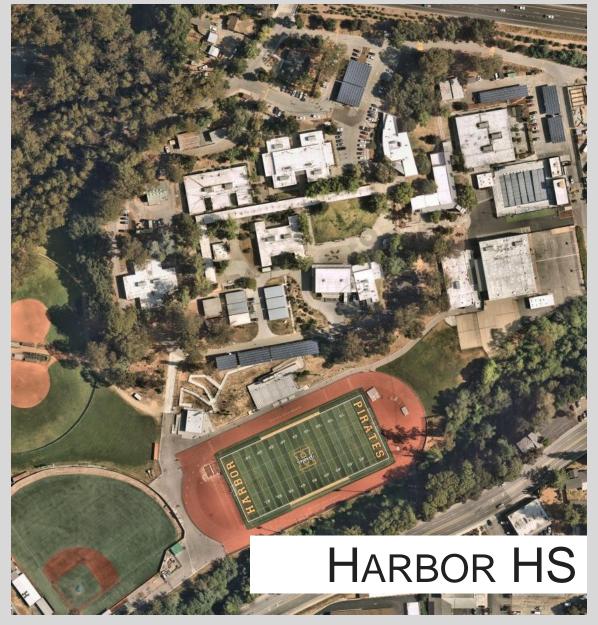


Solar PV (2014)













Energy Efficiency & Additional Renewables (Starting 2015)

Energy Efficiency & Sustainability Improvements Summary (To Date & Ongoing)

In collaboration with Climatec, SCCS has developed and has implemented or is currently implementing the following measures:

Completed:

- New high efficiency HVAC units
- New building automation systems
- Partial LED lighting modernization

Currently underway

- New high efficiency HVAC units
- Add high efficiency HVAC units to unconditioned spaces
 - ➤ Offset by new solar PV
- Integrate building automation systems
- New solar PV shade structures



High Efficiency HVAC Modernizations

High efficiency HVAC Modernizations

Replaced aging HVAC units with high efficiency HVAC Units at to sites:

- Bay View ES
- DeLaveaga ES







Add High Efficiency HVAC Units to Unconditioned Spaces

Adding High Efficiency HVAC Units

Adding new high efficiency HVAC units to unconditioned spaces at two

campuses:

Bay View ES – Buildings D & E, and Cafe

DeLaveaga ES – Building 1 & 2

These installations are currently underway.









New Building Automation Systems (BAS)

New Building Automation Systems

BAS modernization:

- Admin/ Soquel HS
- Bay View ES
- DeLaveaga ES
- Facilities
- District Office





Integrate Building Automation Systems

Integrate new HVAC unit's BAS into existing District BAS:

- Bay View ES
- DeLaveaga ES

These installations are currently underway.







Partial LED Lighting Modernization

Partial LED Lighting Modernization

Completed partial interior & exterior LED lighting modernizations at:

- Admin/ Soquel HS
- Bay View ES
- DeLaveaga ES
- Gault ES
- Harbor HS
- Westlake ES





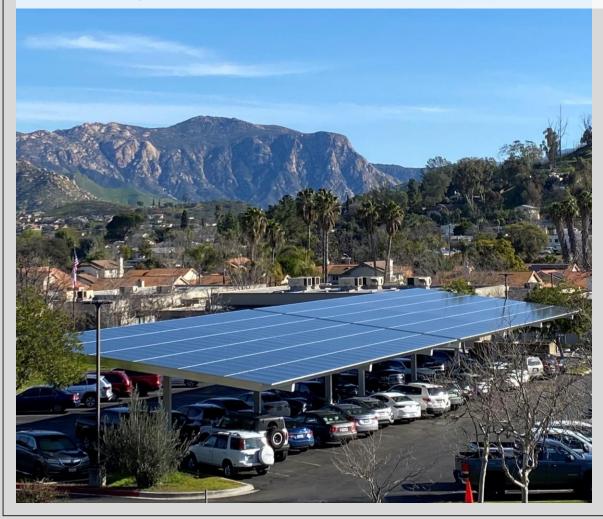






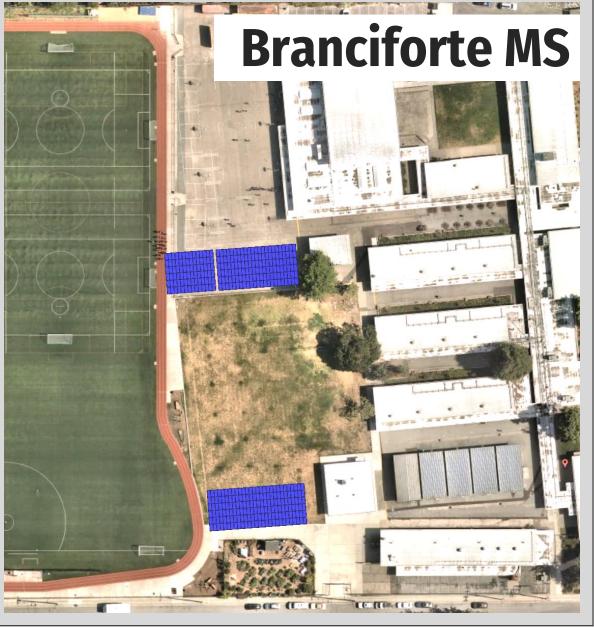
Additional Solar PV

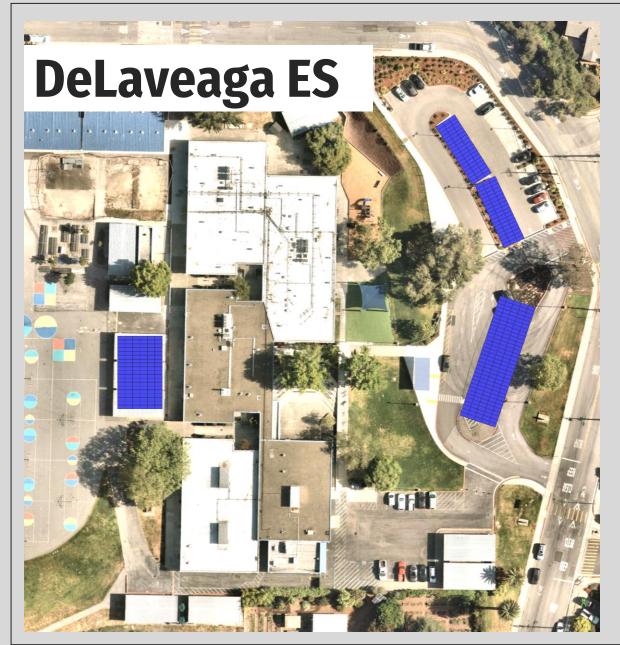
Sample Future Solar PV Structures













Environmental & GHG Emissions Impact



8,828 TONS CO² REDUCED SINCE 2014*

District set to avoid an additional 1,851 tons CO² annually following current program (Climatec Phase IV) implementation

Cumulative environmental impact equivalencies since 2014*:



1,782

Cars removed from the roadway



901,162

Gallons of gasoline saved



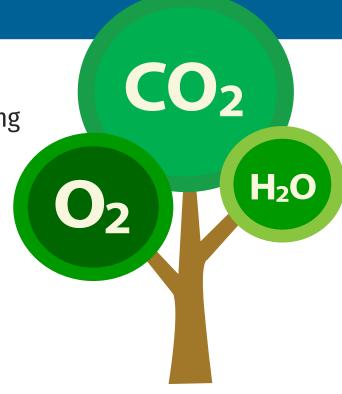
1,558

Santa Cruz homes powered



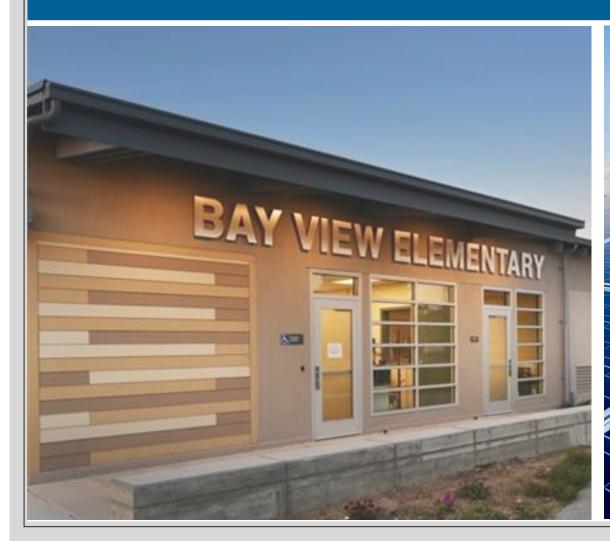
160,189

Trees preserved from deforestation



*Includes all sustainability efforts thru December 2022

Bay View ES | Net Zero Energy Site





Future Initiatives/Opportunities

- Additional Solar PV Shade Structures
- Remaining Interior/Exterior LED Lighting
- Remaining LED Sports Field Lighting
- Renewable Energy/ Fuel Cells
- Battery Energy Storage
- Electric Vehicle (EV) Charging Stations
- Trash Compactors
- Comprehensive GHG Emissions Study
- Educational Integrations (i.e. classrooms, STEM, etc)



Community Engagement | Fall 2023-2024

Inform

- Press Releases
- Ribbon Cutting
- Dedications
- Ground-Breaking
- Sustainability Website



Involve

- District Events
- Local Fairs
- Career Days
- Walking tours with local leaders& community members



Inspire

Promote student citizenship while inspiring the community to think critically and creatively about energy efficiency.



Questions?

