

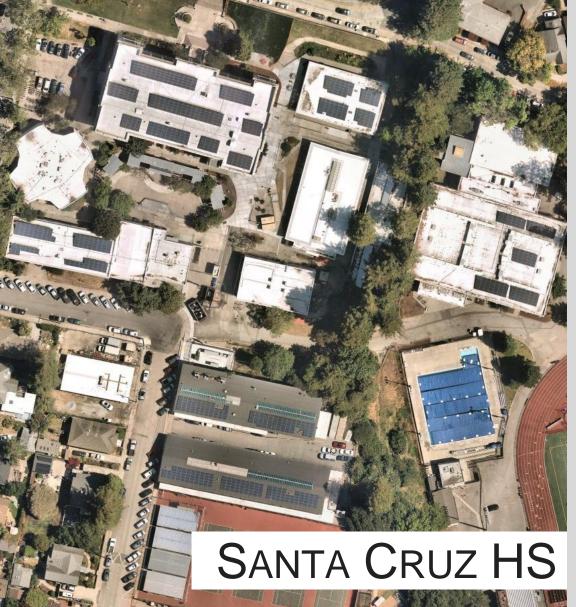
## Green Schools Presentation: Sustainability & Energy Efficiency Programs

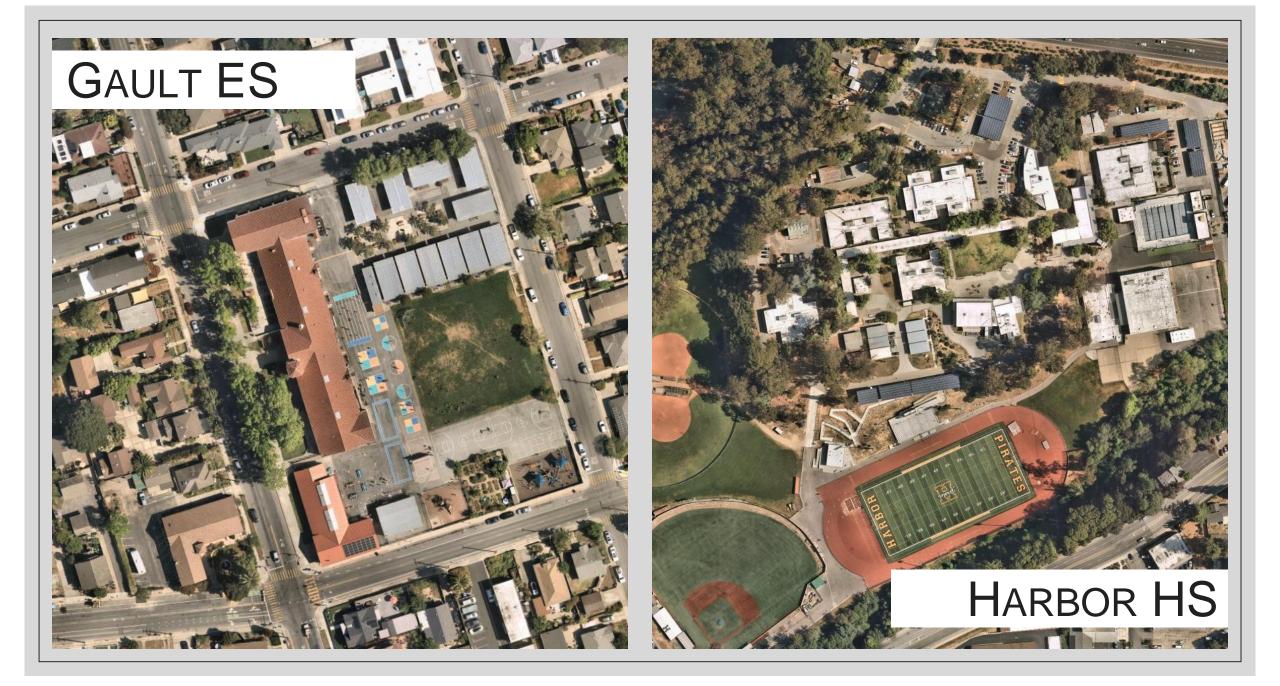
April 13, 2023



## 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

#### <u>Currently underway</u>

- New high efficiency HVAC units
- Add high efficiency HVAC units to unconditioned spaces
  Offect by new color DV
  - 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.







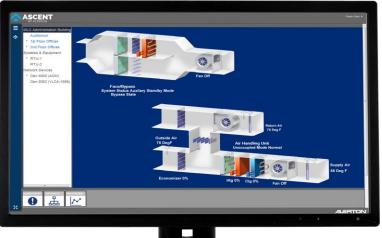
# New Building Automation Systems (BAS)

### **New Building Automation Systems**

#### BAS modernization:

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





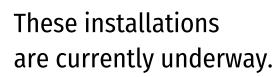


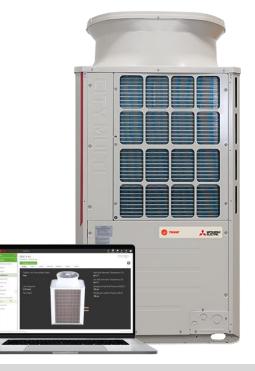
## Integrate Building Automation Systems

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

- Bay View ES
- DeLaveaga ES









# 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

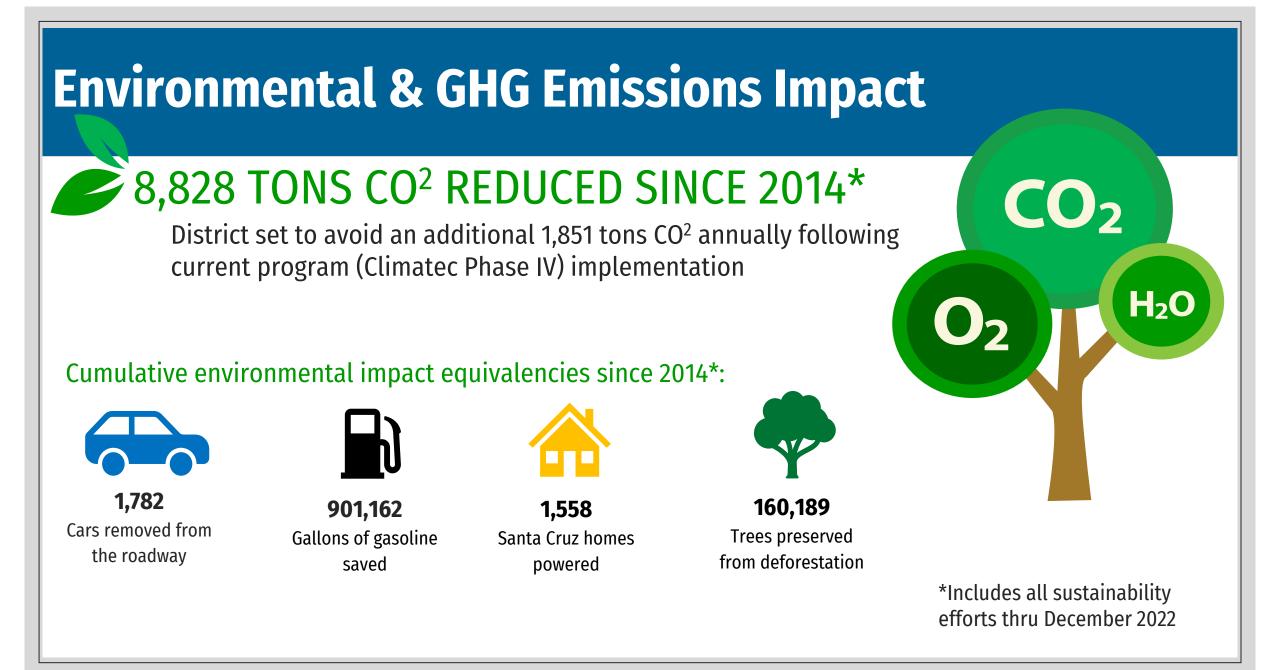
## **Sample Future Solar PV Structures**



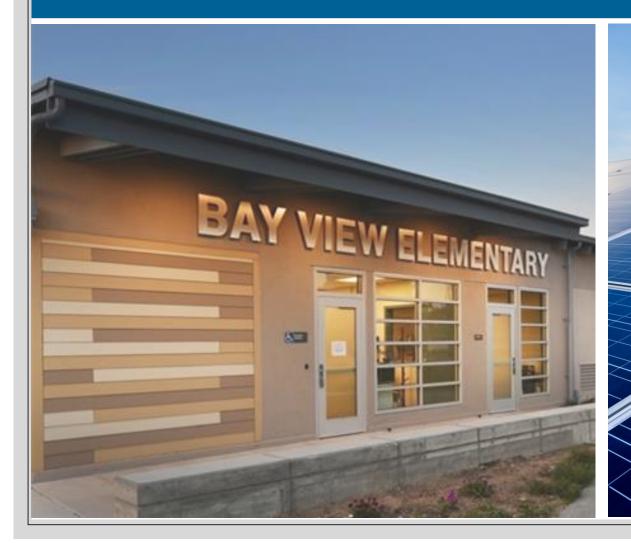








## **Bay View ES | Net Zero Energy Site**



Projected to accomplish Net Zero Energy with upcoming solar PV installations.

## **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?**

