



CONTRA COSTA COUNTY AND THE INFLATION REDUCTION ACT

MAY 18, 2023

PRESENTED BY:

TRACY MARCIAL, ENERGY & SUSTAINABILITY MANAGER

FACILITIES PLANNING @ 4CD

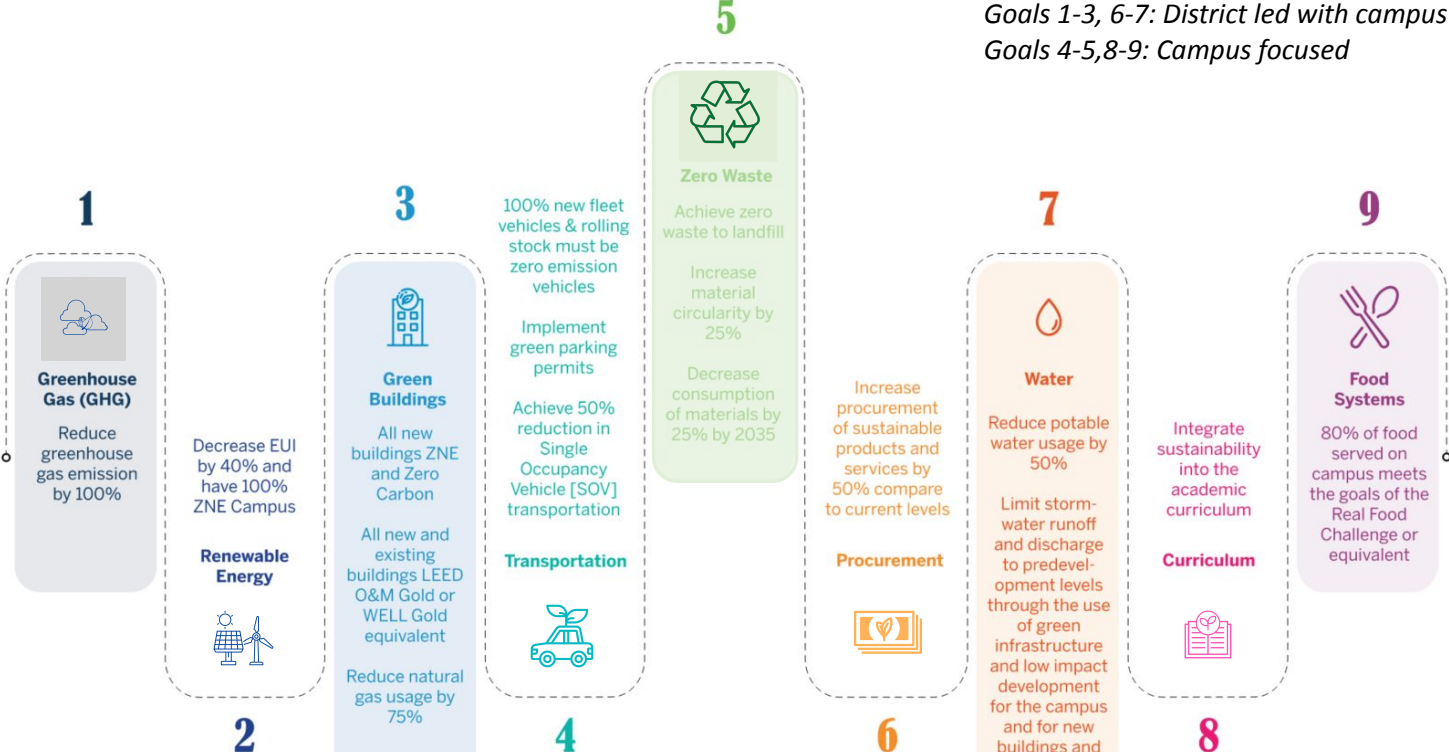
4CD SUSTAINABILITY HIGHLIGHTS

- 2022 Board Adopted 9 Districtwide Sustainability Goals
- Forward Planning: Alignment of Major Capital Bond Projects with 4CD Sustainability Goals
 - Electric buildings
- 86 EVCS districtwide for students, faculty, staff and community – some in DAC
- Campus as a Living Lab
- Funding

2035 4CD Board Adopted Sustainability Goals

(Based on State Chancellor's Office Board of Governor's 2021 Climate Action and Sustainability Framework)

Goals 1-3, 6-7: District led with campus input
Goals 4-5,8-9: Campus focused





CCC Science Building : LEED Gold (expected)

- First Zero Net Energy (ZNE) Ready project at 4CD
- First All Electric Building
- 2021 California Community Colleges Board of Governors Energy and Sustainability Award for the Best Overall Large District Innovative Project

DVC PEK and Art Complex: LEED Gold and ZNE (expected)

- First ZNE project at 4CD
- All Electric Buildings
- 2022 California Community Colleges Board of Governors Energy and Sustainability Award for the Best Overall Large District Innovative Project

LMC Kinesiology and Student Union: LEED Gold Certified

- Award of Honor in the Growth Category through the 2021 Community College Facility Coalition (CCFC)

Brentwood : LEED Gold Certified

- In Process of Adding PV & Resiliency

Goal #1: GHG



Goal #2: Renewable Energy



Goal #3: Green Buildings

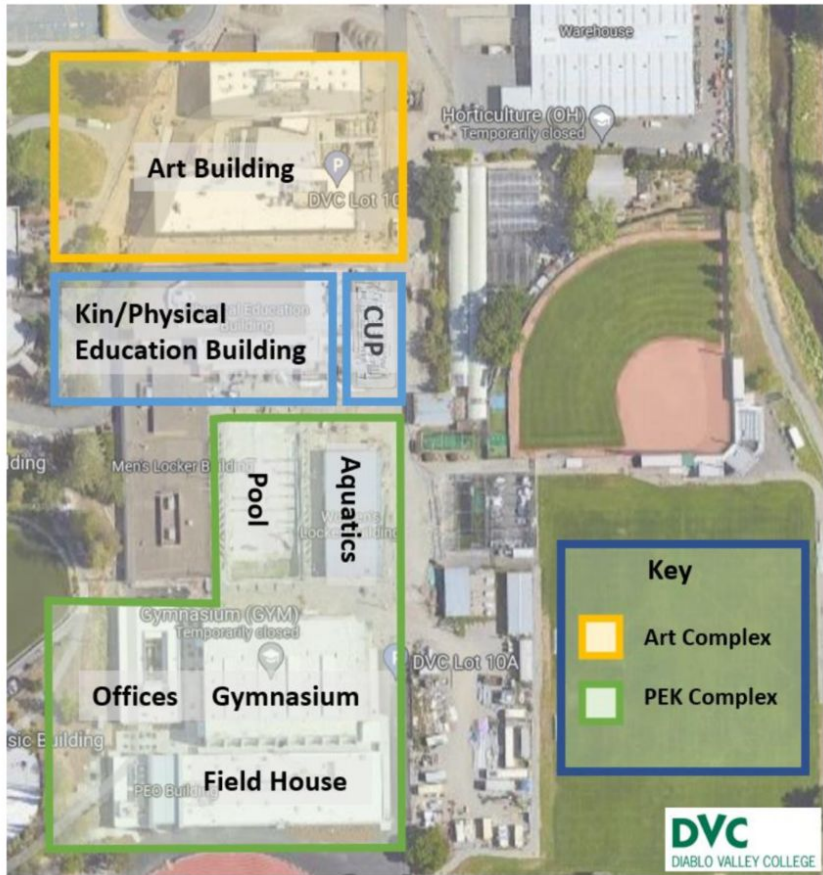


Goal #5: Zero Waste



Goal #7: Water





DVC PEK and Art Complex: LEED Gold (expected)

- First ZNE project at 4CD
- All Electric Buildings
 - Heat pump technology for
 - Heating hot water
 - Domestic hot water
- 2022 California Community Colleges Board of Governors Energy and Sustainability Award for the Best Overall Large District Innovative Project
- ProspectSV Case Study on the CUP

Goal #1:
GHG



Goal #2:
Renewable Energy



Goal #3:
Green Buildings



Goal #5:
Zero Waste



Goal #7:
Water

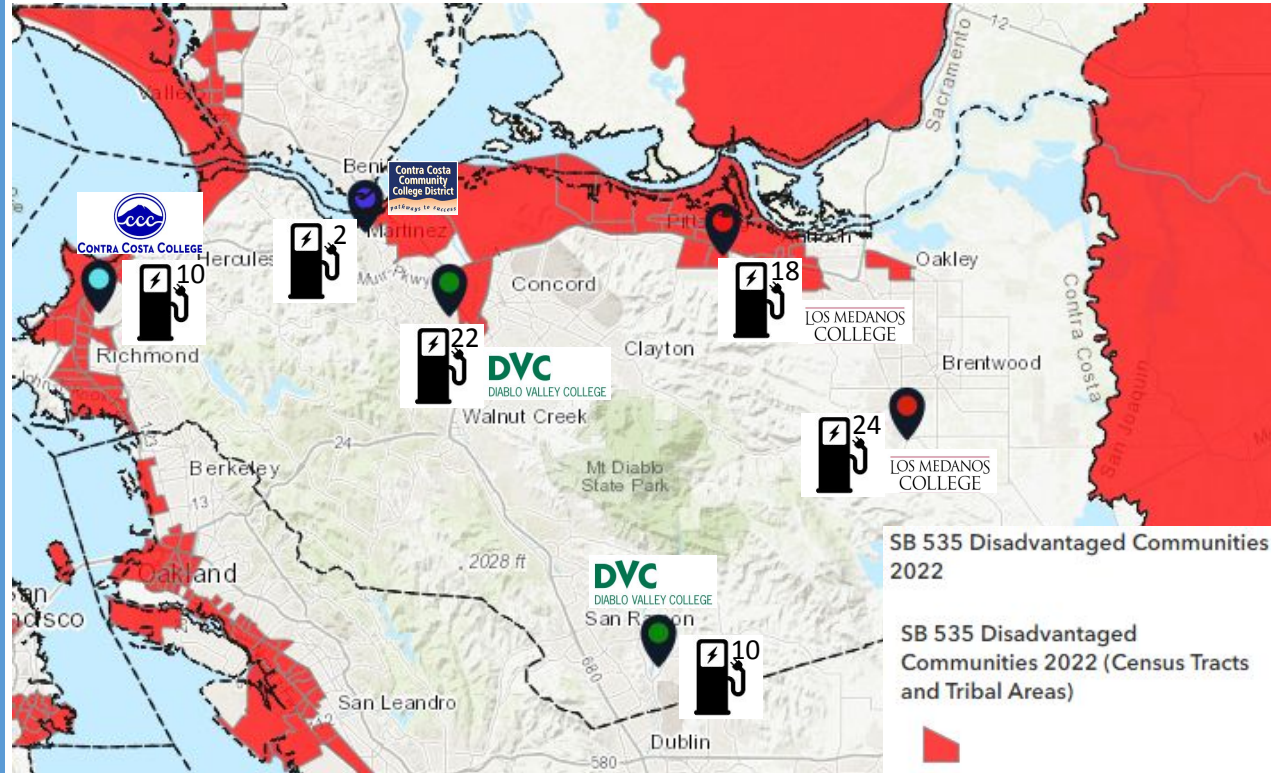


Disadvantaged communities (DAC) in California - areas that most suffer from a combination of economic, health, and environmental burdens.

LMC is in a DAC
CCC, DVC, & DO are surrounded by DAC.

DAC are the most impacted by climate change, pollution, and environmental hazards.

Map of 4CD Locations and Contra Costa County Disadvantaged Communities Overlaid with EV Charging Stations



Source: <https://oehha.ca.gov/calenviroscreen/sb535>



CAMPUS AS A LIVING LAB



- Seeking and leveraging available funding opportunities and optimizing resources to support our colleges and communities:
 - Funding by PG&E through SEI
 - Building Decarbonization Intern
 - Energy and Sustainability Intern
 - 27 individual students (representing over 10 majors) for a total of 35 applications for 2 positions
- Living Lab:
 - All electric buildings – metering data to see/analyze performance/data, etc.
 - Energy dashboard show our usage, costs and on campus solar PV generation

FUNDING: HOW TO OPTIMIZE IRA & OTHER OPPORTUNITIES

PLANNING AHEAD:

- IRA: Public agencies able to obtain tax credits for solar PV and battery storage installations
 - Opportunity for 30-40% of our investment for a PV project back via the IRA – Goals 1 & 2
- Possible funding toward heat pump technology, but may only be for residential at this time
- Possible funding toward thermal energy storage systems, which act like batteries, but thermal storage rather than electric storage
- Grants/Programs:
 - PG&E and MCE EV Charge programs for Fleet Vehicles
 - CEC grants for EV fleet

Wrap Up

Q&A

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