



Agenda

SUSTAINABILITY COMMITTEE

March 20, 2023
1:00 P.M.

11780 San Pablo Avenue, Suite D
El Cerrito, CA 94530

190 East 4th Street
Pittsburg, CA 94565

Please click the link below to join the meeting:

<https://cccouny-us.zoom.us/j/88232593285>

Meeting ID: 882 3259 3285

Or Telephone, dial:

USA 214 765 0478 US Toll

USA 888 278 0254 US Toll-free

Conference code: 841892

**The Public may attend this meeting in person at the above locations.
The public may also attend this meeting remotely via Zoom or call-in.**

Supervisor John Gioia, Chair
Supervisor Federal D. Glover, Vice Chair

Agenda Items:

Items may be taken out of order based on the business of the day and preference of the Committee

1. Introductions
2. Public comment on any item under the jurisdiction of the Committee and not on this agenda (speakers may be limited to three minutes).
3. APPROVE Record of Action from February 17, 2023, Meeting of the Sustainability Committee (Jody London, Department of Conservation and Development).
4. REEIVE UPDATE from MCE
5. RECEIVE UPDATE from Health Services Department on Sustainability Initiatives
6. RECEIVE REPORT from Sustainability Commission Chair or Designee
7. RECEIVE REPORT from Sustainability Coordinator.
8. The next meeting is currently scheduled for May 15, 2023.
9. Adjourn

The Sustainability Committee will provide reasonable accommodations for persons with disabilities planning to attend Sustainability Committee meetings. Contact the staff person listed below at least 72 hours before the meeting.

Any disclosable public records related to an open session item on a regular meeting agenda and distributed by the County to a majority of members of the Sustainability Committee less than 96 hours prior to that meeting are available for public inspection at 651 Pine Street, 1st floor, during normal business hours.

*Persons who wish to address the Sustainability Committee during public comment on matters within the jurisdiction of the Sustainability Committee that are not on the agenda, or who wish to comment with respect to an item on the agenda, may comment in person, via Zoom, or via call-in. Those participating in person should come to the podium when called upon. Those participating via Zoom should indicate they wish to speak by using the "rais your hand" feature in the Zoom app. Those calling in should indicate they wish to speak by using *9 on their phone.*

Public comment may be submitted via electronic mail on agenda items at least one full work day prior to the published meeting time. Please send comments to sustainability@dcd.cccounty.us

For Additional Information Contact:

Jody London, Sustainability Coordinator
Phone: (925) 674-7871
Jody.London@dcd.cccounty.us



Contra Costa County Board of Supervisors

Subcommittee Report

SUSTAINABILITY COMMITTEE

Meeting Date: 03/20/2023

Subject: APPROVE Record of Action from February 17, 2023, Meeting of the Sustainability Committee

Department: Conservation & Development

Referral No.:

Referral Name:

Presenter: Jody London, DCD

Contact: Jody London (925) 655-2815

Referral History:

This is an ongoing item of the Committee

Referral Update:

Recommendation(s)/Next Step(s):

APPROVE Record of Action from February 17, 2023, Meeting of the Sustainability Committee (Jody London, Department of Conservation and Development).

Fiscal Impact (if any):

N/A

Attachments

350CC Interim CAP

350CC County Electrification Ordinance



February 16, 2023

Members of the Sustainability Committee
Contra Costa County

RE: Interim Climate Action Work Plan 2023 - 2024

Dear Supervisors Glover and Gioia,

350 Contra Costa Action has reviewed the Interim CAP for '23-'24, and Jody London's report for tomorrow's Committee meeting. We do appreciate the work the County is doing to further sustainability and climate action. The County's work on developing a plan to phase out natural gas systems in existing buildings is commendable, as are other initiatives mentioned in the staff report.

We also welcome some important additions to the Interim CAP plan, such as working to improve grid resiliency, converting County nat. gas systems to electric when feasible, low-carbon construction materials, enhancing the tree canopy to reduce the "heat island" affect, and the new section 7.4 on investing to increase climate equity.

That said, there is room for improving the Interim CAP plan. Please consider the following items to broaden the array of actions the County takes, as the climate emergency demands, and to set a positive example for local jurisdictions who look to the County for leadership:

1. Expand the building electrification (BE) ordinance to cover all building types, as well as building alterations and additions. For specific suggestions, please read our Feb. 16 2023 letter to you about improving the BE ordinance.
2. Encourage greater adoption of photovoltaic (solar electric) systems in the private sector.
3. Encourage greater adoption of EVs (electric vehicles) in the private sector.
4. Encourage greater adoption of whole building battery systems in the private sector.
5. Carbon sequestration must be limited to natural systems only.
6. Clearly list goals and objectives where possible, and provide data on progress in meeting the goals and objectives.

Please feel free to contact me should you need any additional information.

Gary Farber, on behalf of 350 Contra Costa Action
garyf8642@gmail.com

cc: Jody London, Sustainability Coordinator
cc: Demian Hardman-Saldana, Dept. of Conservation & Development
cc: Contra Costa County Sustainability Commission



Climate Reality Project Policy
Action Squad for
Contra Costa County



February 15th, 2023

Members of the Sustainability Committee
Contra Costa County

RE: COUNTY ELECTRIFICATION ORDINANCE

Dear Supervisors Glover and Gioia,

More than 73 jurisdictions in California have in some form restricted or banned natural gas in new buildings. We are grateful that Contra Costa County is included in this group, after passing a building electrification (“BE”) [ordinance](#) on January 18th, 2022, requiring new residential, office, retail and hotel buildings to be all electric.

We understand that County planning staff (lead by Demian Hardman-Saldana) are working on long-range plans to phase out fossil fuel systems throughout the entire existing building stock, and the draft plan may be presented to the Sustainability Committee this spring. With this in mind we ask that the proposal below be considered as an item on the Sustainability Committee’s May 15 meeting agenda. This proposed policy can be an interim and immediate step taken to strengthen the existing building electrification ordinance while aligning with the draft plans for existing buildings.

We feel that this is urgent for the following reasons:

- Contra Costa cities look to the County for guidance on updating building codes. In the past year, both Hercules and Martinez modeled their BE ordinances after the County’s BE ordinance. Both omit the same building types that the County’s BE ordinance omits. Neither address building additions or alterations. Other cities are currently looking to put ordinances in place and citing the County as

their “go to” for how to do it . Therefore, it is urgent that the county have the strongest possible ordinance.

- The draft climate action plan has a goal to establish Contra Costa as a leader in climate policy action; this desire and responsibility requires the County to take leadership positions to advance policy action.
- Strengthening the BE ordinance will be essential to meeting climate action goals. Obviously, it is very counterproductive to keep adding additional natural gas heating systems when the goal is to phase them out entirely. The gas infrastructure will be a future stranded asset, requiring conversion at a cost to consumers, businesses, and all utility ratepayers.
- The IPCC, CARB and BAAQMD all recognize that fossil fuel use must be phased out as soon as possible. The plan for existing buildings is going to take time to implement, so the changes we suggest can be an interim step to expedite the reduction of GHGs now.
- The natural gas storage and distribution system leaks the powerful GHG methane, and risks the danger of explosions.
- Gas stoves produce dangerous amounts of air pollutants, including nitrous oxides (NOx), carbon monoxide (CO), and particulate matter (PM), that often exceed outdoor ambient air standards. These pollutants can have lasting and damaging effects on the human body. Children, low income, and communities of color are among the most vulnerable.

Proposal for next step in the Electrification of Buildings

Add language into the existing ordinance to:

- Include **all** building types.
- Address building Additions and Alterations. Many BE ordinances in California require electric heating systems for building additions and alterations that meet certain criteria. We find that BE ordinances typically trigger electric heating based on the amount of proposed building changes (i.e. a metric that is not tied directly to heating system changes). We recommend the following:
 - **Building Additions and Alterations:** Any new heating system is required to be electric when it will be placed in a new location or is additional to existing heating equipment.
- Include an infeasibility waiver for instances where the owner demonstrates that electric heating is not technically feasible.

We ask that the Sustainability Committee continue to lead on this important solution to the climate crisis, and move a stronger ordinance to the full Board this spring for

consideration and adoption. Electrification of buildings will lead to cleaner, healthier, more affordable, and safer communities.

Please feel free to contact us should you have any questions about our requested action.

Signatories for the Contra Costa County Building Electrification Coalition

- Lisa Jackson, 350 Contra Costa Action
- Dr. Robert M. Gould, President, SF Bay Physicians for Social Responsibility
- Fred Bialy, Climate Reality Project Policy Action Squad for Contra Costa County
- Melissa Yu, Senior Energy Campaigns Representative, Sierra Club, San Francisco Bay Chapter

cc: Demian Hardman-Saldana



Contra Costa County Board of Supervisors

Subcommittee Report

SUSTAINABILITY COMMITTEE

Meeting Date: 03/20/2023

Subject: RECEIVE UPDATE from MCE

Submitted For: Jody London, Sustainability Coordinator

Department: Conservation & Development

Referral No.:

Referral Name:

Presenter: Sebastian Conn, MCE

Contact: Jody London, 925-655-2815

Referral History:

In 2017, the Contra Costa County Board of Supervisors authorized the County's membership in MCE, a community choice energy provider. The majority of cities in Contra Costa County subsequently also joined MCE. In addition to providing electricity to residents and businesses, MCE provides a range of programs that include energy efficiency and electric vehicles.

Referral Update:

The attached presentation outlines MCE's programs and projects in Contra Costa County, including areas of partnership with the County.

Recommendation(s)/Next Step(s):

RECEIVE UPDATE from MCE

Fiscal Impact (if any):

N/A

Attachments

MCE Presentation



MCE

Contra Costa County Sustainability Committee – 3/20/2023



OUR MISSION

Confront the climate crisis by eliminating fossil fuel greenhouse gas emissions, producing renewable energy, and creating equitable community benefits.

OUR VISION

Lead California to an equitable, clean, affordable, and reliable energy economy by serving as a model for community-based renewable energy, energy efficiency, and cutting-edge clean-tech products and programs.

Not-for-Profit Public Agency

Solano County



Marin County



Contra Costa County



Napa County



Directors Scales-Preston & Quinto serve as Chair and Vice Chair, respectively.

MCE & Contra Costa County Highlights

- **Over 331,000 Customers served by MCE** - 6000+ Deep Green Accounts
- **Over 307,000 Metric Tons of CO₂** reduced to date through MCE electricity generation
- **387 Electric Vehicle Charing Ports** installed since 2018 – included rebates and technical assistance from MCE
- **Battery Storage** at 10 Pittsburg Unified School District Campuses - \$715,000 in funding through MCE – estimated \$2.8M in energy bill savings
- **Saving energy from 4-9pm** – County participated in inaugural MCE Peak Flex program in 2022 – over \$15k in savings



BayREN & MCE

- **Partnering** to lower energy bills, improve comfort of homes, and connect medically vulnerable residents to energy efficiency services
 - **County** - Asthma trigger remediation via contractors, Asthma & Energy Assessments
 - **BayREN & MCE** - Leveraged funds for lighting, heat pumps, energy-efficient appliances, HVAC

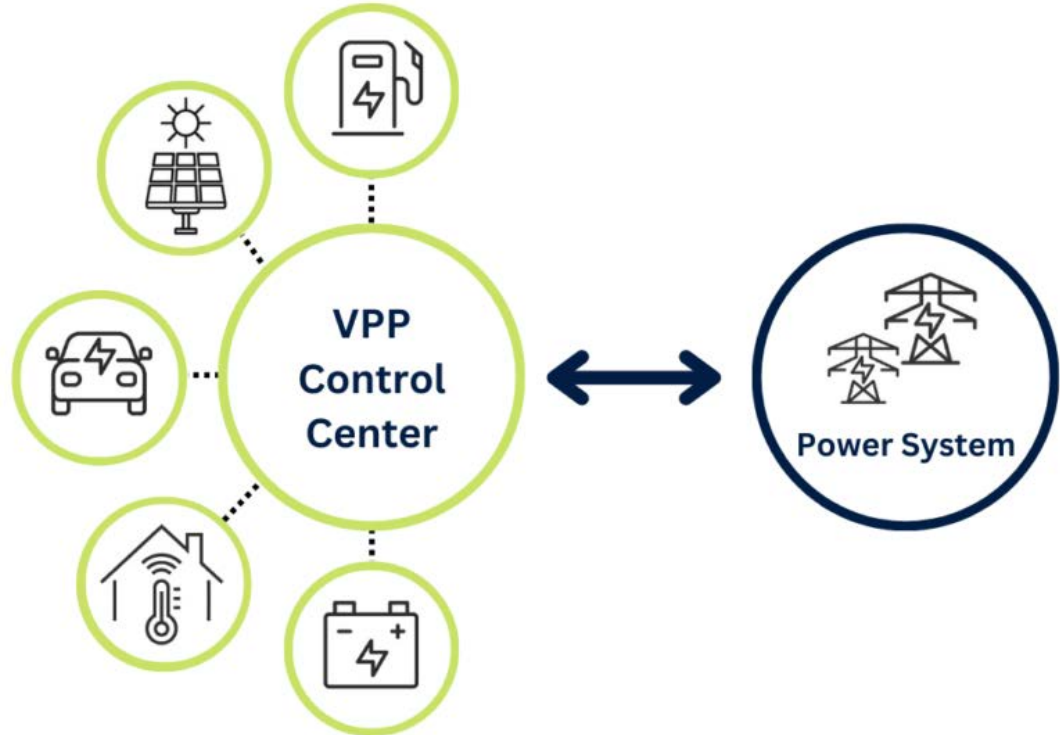


Creating a Clean, Reliable Grid

MCE requires battery storage on all new local solar projects

More than 325MW of battery storage under contract

Distributed Energy Resources - MCE Virtual Power Plant (2025)



Case Study: PUSD



Shanellia Sudder-Preston
State Mayor, City of Highways
State (Texas) MCE

https://www.bayren.org/sites/default/files/2021-11/05_kent_contra-costa-asthma-initiative-presentation.pdf

some talking points that may be helpful 1. as a part of our CPUC funding, we are required to coordinate with BayRen team: our CP team has



Energy Affordability for Residents



Energy Burden: the percentage of gross household income spent on energy costs.

- 18% of Contra Costa County customers enrolled in California Alternate Rates for Energy (CARE)
- \$90 bill credit from California Public Utilities Commission on February bills

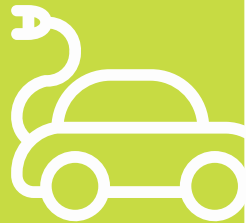
MCE offers local control and transparent rate setting



Energy Efficiency

Audits, Rebates,
Usage Reduction

- \$2.4M in rebates
- Over 1,200 customers served



Electric Vehicles

Vehicle and Charging Station Rebates

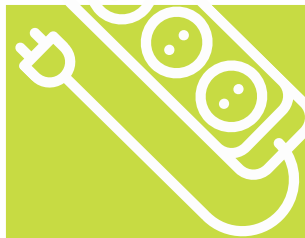
- Over 1,100 EV charging ports installed
- 150 vehicle rebates



Energy Resiliency

Distributed Resources, Demand Response, Virtual Power Plant, and Behavioral Programs

- Shifting load out of peak hours



Electrification

Heat Pump Installs and Contractor Training

- 25+ contractors engaged and 125 pumps installed



Equity, Health, & Safety

Health, Safety, and Resiliency Upgrades

- 200 portable batteries distributed
- \$750,000 in solar rebates

Your Dollars at Work

ELECTRIC VEHICLE CHARGERS

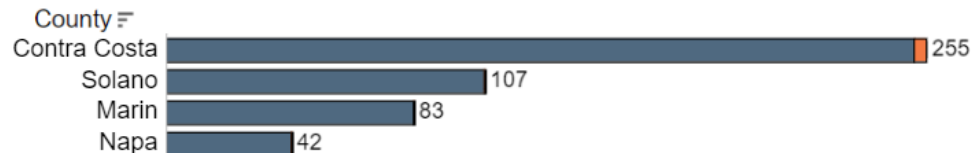
Total Public and Shared Private Electric Vehicle Chargers

3,284

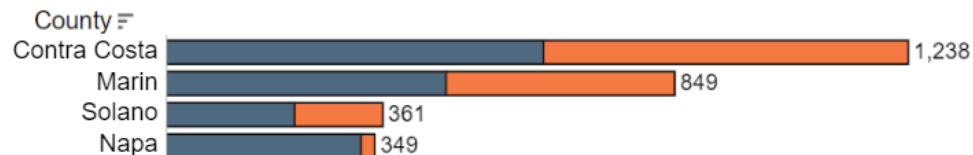
Public
64.49%
2,118

Shared Private
35.51%
1,166

DC Fast Chargers by County



Level 2 Chargers by County



County

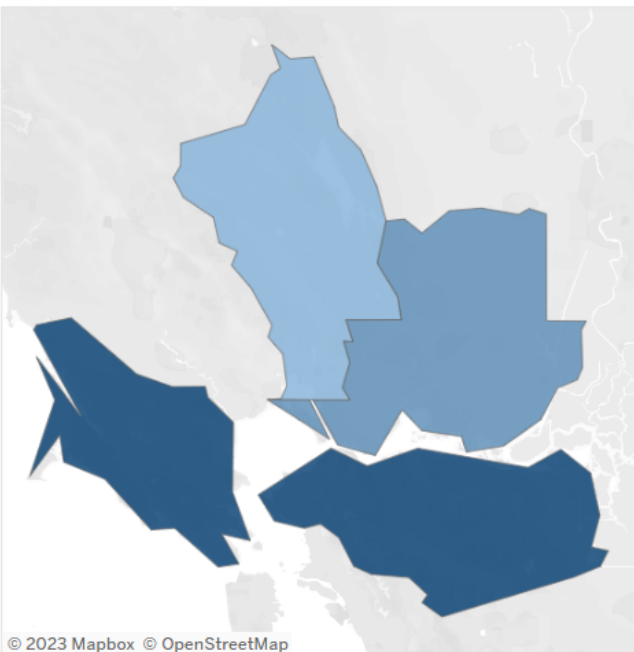
(Multiple values) ▾

Access

- (All)
- Public
- Shared Private

Legend

- Public
- Shared Private



© 2023 Mapbox © OpenStreetMap

Number of Chargers



	Public	Shared Private	Grand Total
Level 2	1,635	1,162	2,797
DC Fast	483	4	487
Total Chargers	2,118	1,166	3,284

MCE Charging

Meeting the Demand for Charging Stations & Shaping EV Charging Load

Benefits

- For workplaces and multifamily properties
- \$3,000 per charging port for 2-20 charging ports
- \$500 extra per charging port for charging stations that have opted up to Deep Green 100% renewable energy
- Free technical assistance



MCE Vehicle Rebate

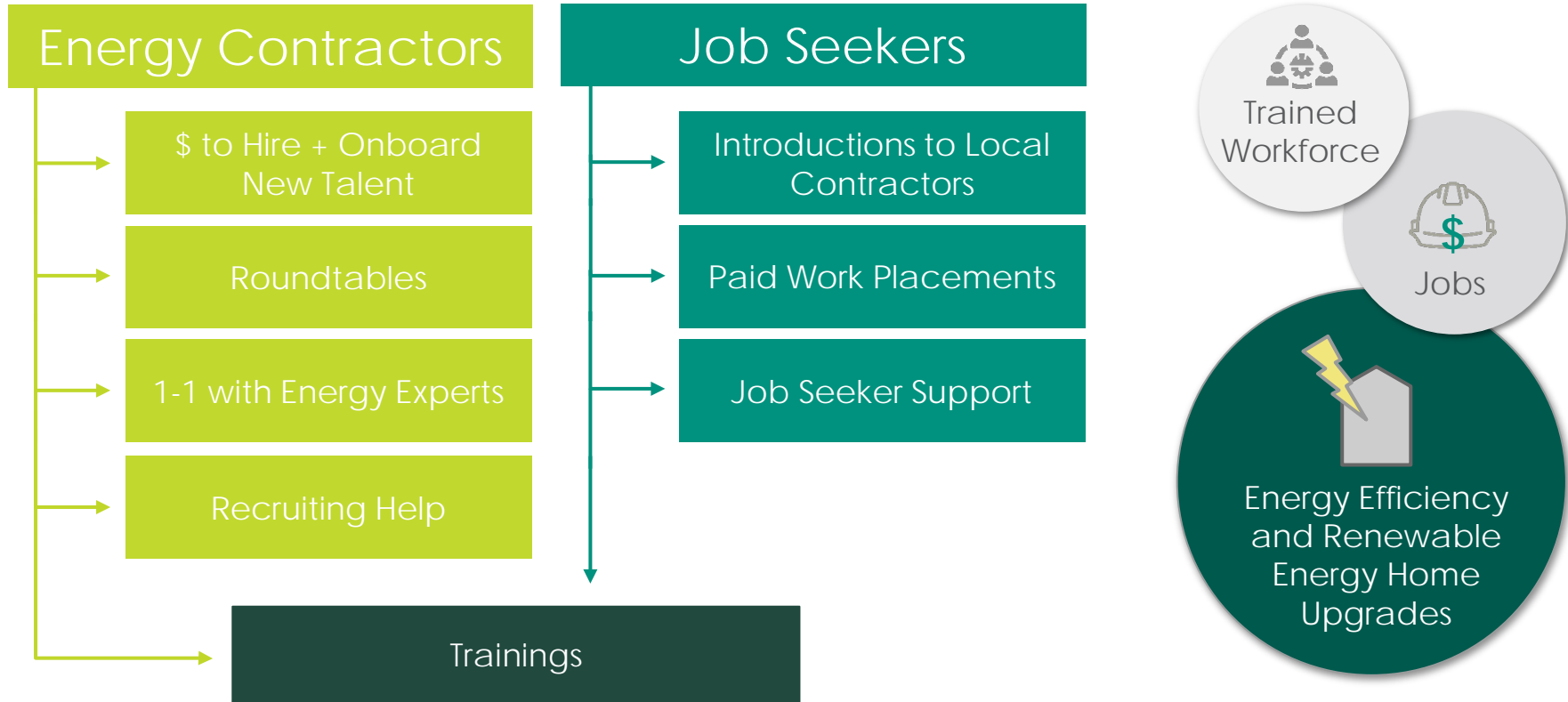
Providing Access to EVs for Income Qualified Customers

Benefits

- Provides a \$3,500 rebate on a new or used electric vehicle for income eligible customers
- Stackable with other rebates up to \$14,500
- **\$1 million in rebates distributed to date**



Green Workforce Pathways Program



The Power of MCE

700K metric tons of GHGs eliminated since 2010

60% renewable since 2017, **100%** renewable default

95% carbon-free by 2023

\$214 M reinvested in MCE communities since 2010

\$2.4 B committed to building new CA renewable projects

48 MW of new renewable projects built in our service area

2.8 M labor hours supported

6,000 jobs created

Thank You!

Sebastian Conn

Senior Community Development Manager

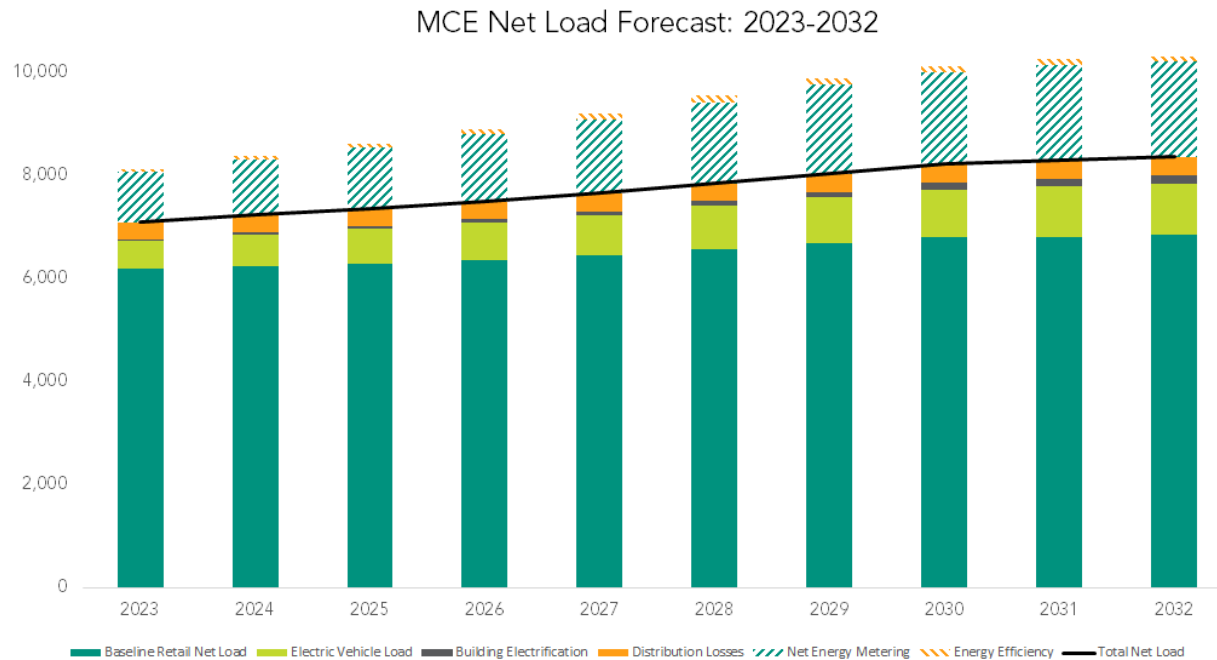
sconn@mceCleanEnergy.org



Appendix

Power Purchasing

- Annual assessment of energy needs
- Meeting state mandates for 118% of peak load
- Focusing on clean resources



Long-term forecasting ensures proper planning

Forecasting Energy Demand

- Load Serving Entities, like MCE and PG&E, **forecast electricity demand years in advance**
- On an annual basis, MCE **posts our Operational Integrated Resource Plan (OIRP)**, which documents MCE's load and electric procurement resource objectives over a ten year planning period
- **Current planning period: 2023 - 2032**



Power Purchasing: Authoritative Bodies



- **California Energy Commission (CEC):**
 - MCE must submit periodic load forecasts to the CEC. The CEC takes MCE's monthly peak demand estimates and adjusts values based on the California system peak demand.



- **California Public Utilities Commission (CPUC):**
 - The CPUC receives adjusted peak demand data from the CEC and annually provides MCE with its monthly Resource Adequacy (RA) requirements.



- **California Independent System Operator (CAISO):**
 - The CAISO develops RA requirements for the entire California system, including local areas, on an annual basis.

Infrastructure Planning



Image Source: California Independent Systems Operator

- CAISO conducts annual transmission planning process to identify potential system limitations and areas that need reinforcements over a 10-year horizon.
- *“The annual planning process, set out in CAISO’s federal tariff, provides for the approval of new transmission infrastructure and triggers permitting and construction activities.”*
- Plan is closely coordinated with CPUC and CEC.

Source: <https://www.caiso.com/about/Pages/Blog/Posts/2021-22-Transmission-Plan-approved-by-ISO-Board.aspx>



Contra Costa County Board of Supervisors

Subcommittee Report

SUSTAINABILITY COMMITTEE

Meeting Date: 03/20/2023
Subject: RECEIVE UPDATE from Health Services Department on Sustainability Initiatives
Submitted For: Jody London, Sustainability Coordinator
Department: Conservation & Development
Referral No.:
Referral Name:
Presenter: Dan Peddycord **Contact:** Dan Peddycord, 925-313-6712

Referral History:

In September 2020, the Board of Supervisors adopted a Climate Emergency Resolution that, among other things, directed the establishment of an interdepartmental task force of all Department heads, or their senior deputies, that focuses on urgently implementing the County's Climate Action Plan - as currently adopted and as it may be amended by the Board - and identifying additional actions, policies, and programs the County can undertake to reduce and adapt to the impacts of a changing climate.

Referral Update:

Many County departments are taking action within their operations to reduce and adapt to the impacts of a changing climate. The Sustainability Committee will be receiving presentations from departments at its meetings. For March 2023, the Health Services Department present on its approach to addressing climate change.

Recommendation(s)/Next Step(s):

RECEIVE UPDATE from Health Services Department on Sustainability Initiatives

Fiscal Impact (if any):

N/A

Attachments

Health Services Presentation on Purpose and Approach to Addressing Climate Change

Contra Costa Health

Departmental Purpose & Approach to Addressing Climate Change

Contra Costa Sustainability Committee
March 20, 2023

Daniel Peddycord RN, MPA/HA
Chief Climate & Health Policy Officer
Daniel.Peddycord@cchealth.org



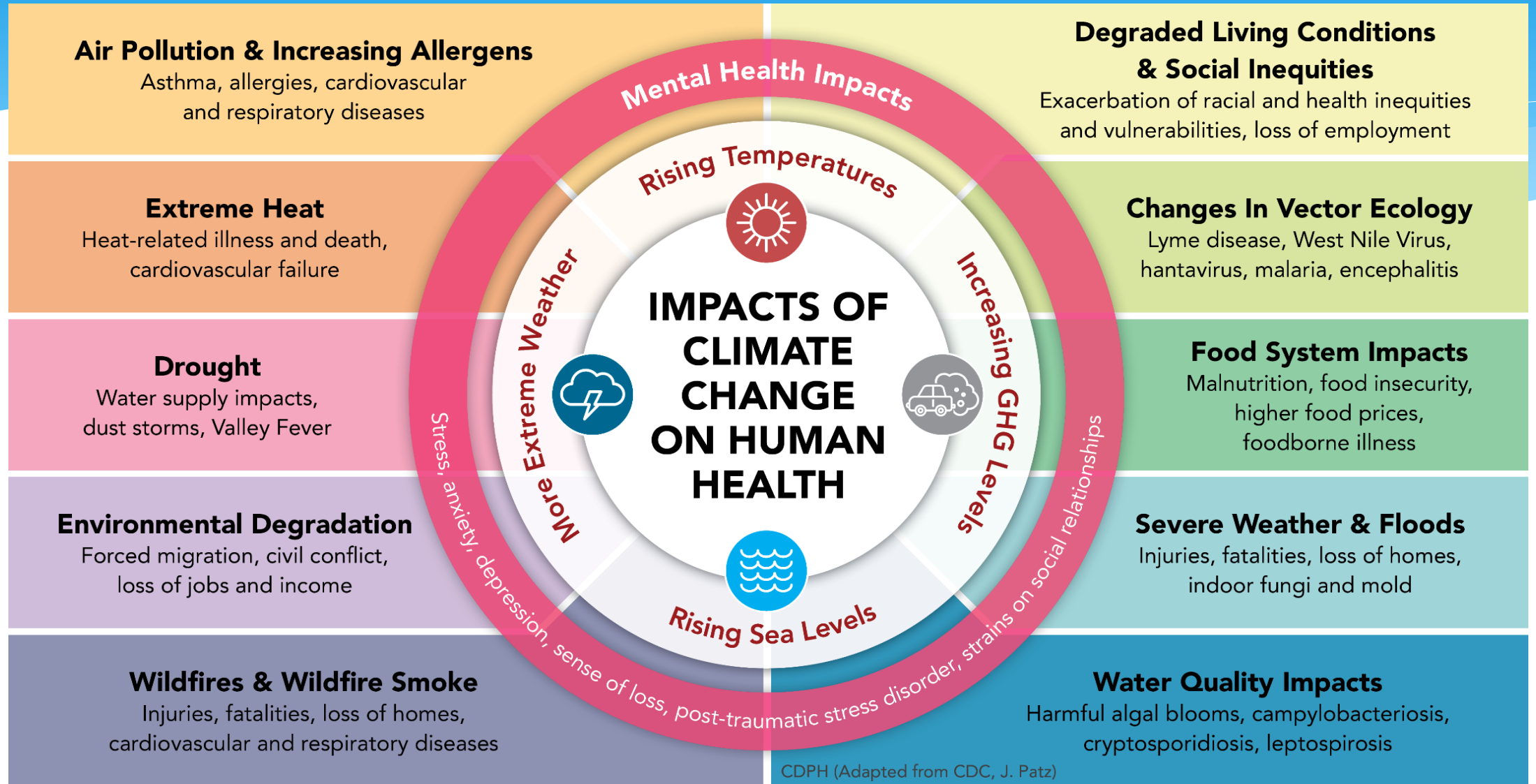
Climate Change

(A global commons problem)

The rapidly warming climate is the "greatest threat" to global public health, more than 200 medical journals are warning in an [unprecedented joint statement](#) that urges world leaders to cut heat-trapping emissions to avoid "catastrophic harm to health that will be impossible to reverse." - September 2021

"If we don't address climate change, now, nothing else will really matter." – Sara Zimmerman, Director Climate Equity Policy Center

Human Health Impacts of Climate Change

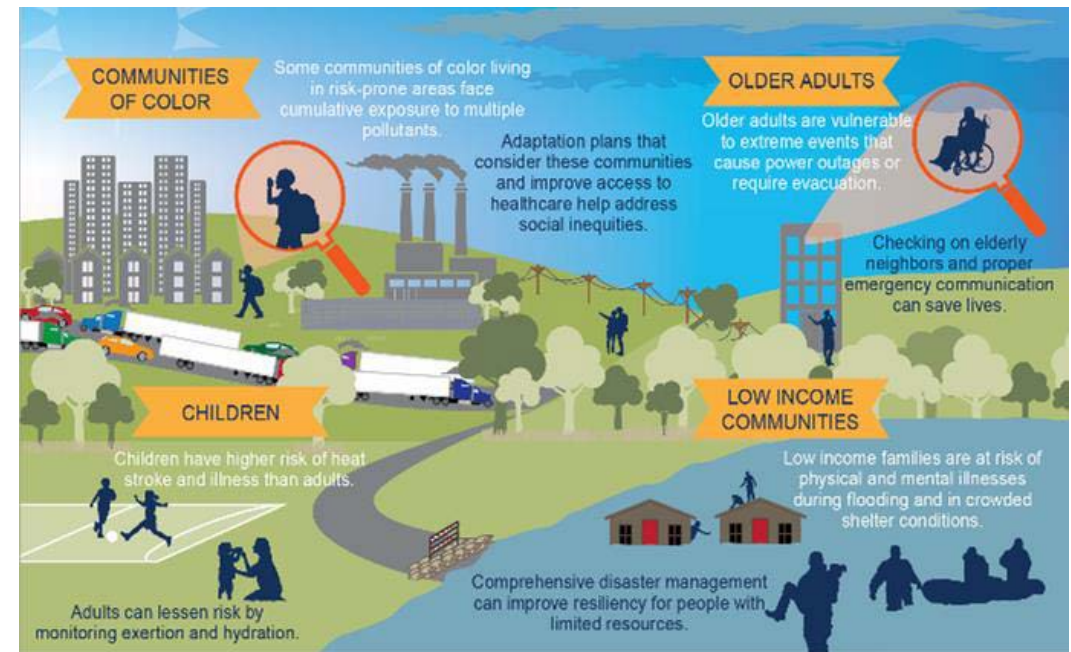


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Key Message – Climate Change will drive Health Inequity

Exposure and Resilience Vary Across Populations and Communities

People and communities are differentially exposed to hazards and disproportionately affected by climate-related health risks. **Populations experiencing greater health risks include children, older adults, low-income communities, and some communities of color.**



Addressing Climate Change is a Critical Population & Health Equity Strategy

- ❖ Climate Change, global warming and its associated environmental impacts present a direct and **existential threat to global health**, and global biodiversity. – Of unprecedented urgency!
- ❖ Air Quality Improvement : (as a stand-alone example) GHG reduction and associated efforts is expected to **greatly improve** Population Level Health.
 - ❖ Reductions in Asthma, Cancer, Cardio-vascular disease, etc.
- ❖ Significant **reduction in health disparity** and **equity gaps** – especially given overexposure to Toxic Air Contaminants in marginalized communities.
- ❖ Significant **avoidance of health care expenditure**, hospitalization, etc.

CARB – proposal to achieve carbon neutrality in California by 2045. (released Nov. 15, 2022) Projected to save \$200B in health care cost due to anticipated 71% reduction in air pollution & 85% reduction in GHG Emissions.

<https://www.gov.ca.gov/2022/11/16/california-releases-worlds-first-plan-to-achieve-net>

Focus on emission to exposure remains critical!

Estimated Premature Deaths Prevented – Health Equity Benefit

High-Scoring CES Communities will Benefit the Most from PM2.5 Reductions from Deployment of Zero-Emission Heavy-Duty Vehicles

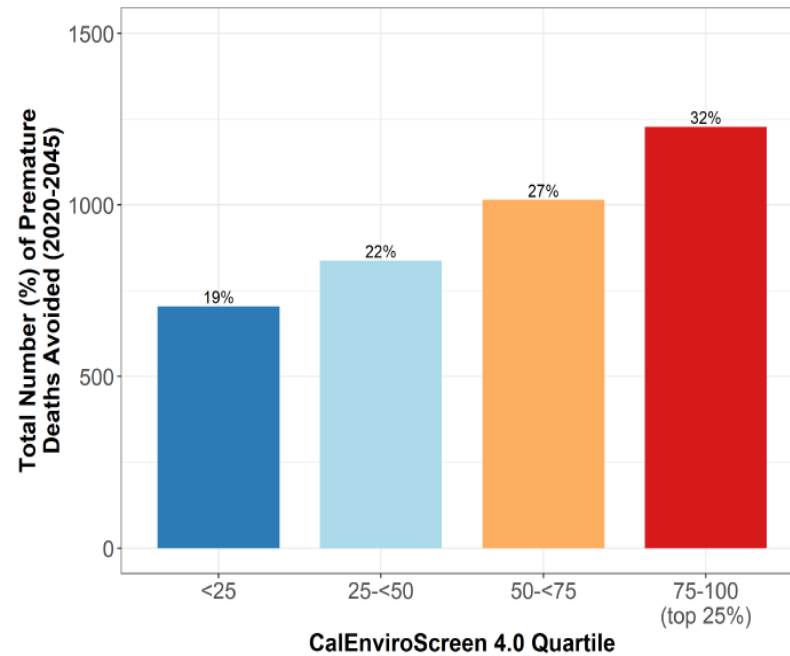


Figure 7. Total Estimated Number and Percent Premature Deaths Avoided with Change in PM2.5 Emissions Resulting from Transition to Zero-Emission Heavy-Duty Vehicles from 2020–2045 by CalEnviroScreen 4.0 Quartile

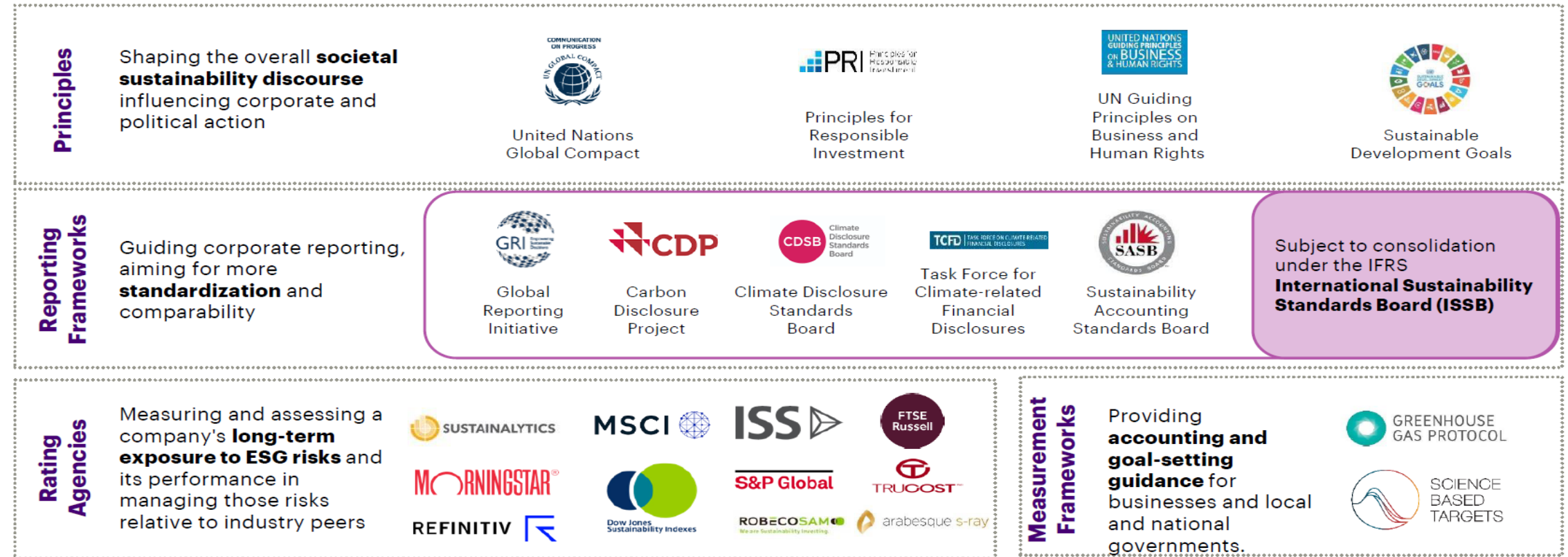
Building a Climate Agenda that Includes

- * **A CCHS Climate Action Plan** – as a compliment to the County CAP anchored in **Equity and Environmental Justice**.
- * Projecting and **detailing the local impact** on populations and communities **most at risk** & connecting that to our “equity” work.
- * **Advocating for EQUITY:** Policy & action at the State & Local Level that mitigates climate impacts to persons and communities that are most vulnerable.
- * Working a **Green Business Plan for CCHS**.
- * **Advocating for Equity, Climate and Health in all policies**.
- * Elevating **community voice** in this urgent global public health issue.
- * Understanding how climate change is and will continue to **impact the biodiversity of the planet...** both land and sea....and how that will impact human health, disease vectors and the natural cycle of carbon exchange.

Gaining Motion: Sustainability in Healthcare

Forces for Climate Action

Nonprofit health systems, without investor pressure and often exempt from required disclosures, have traditionally lagged behind other industries on ESG and GHG emissions measurement, reporting, and disclosure



A few of the things CCH is doing

- * Making climate change and related impacts a **CCH Priority**
- * **Green & Healthy Homes Initiative** – Weatherization(DCD) and In-home Asthma Triggers (CCHP, CCRMC, PH)
- * CCH Houses the **County Green Business Plan** in the Hazardous Materials Division.
- * Haz Mat Assessment of **Sea Level Rise Threat** to local industry.
- * 2020 CCHS **Excessive Heat Response Plan**
- * 2019 CCHS **Wildfire Smoke** Response Plan
- * CCRMC Facilities offered as “**Resiliency Center**” 2019-20 PSPS Events
- * 2020-21 CCH Input & metrics to Revised **County General Plan**
- * 2020-21 CCH Input to **County Climate Action Plan**
- * A number of CCRMC Facilities have **achieved LEED Silver Certification**
- * Participation on **Interdepartmental Climate Action Task Force**.
- * **Ongoing Participation in the AB 617 – Clean Air Initiative** in west county.
- * Leading on **AB 836 – Clean Air Centers** for vulnerable populations
- * **Addressed Air Quality** concerns associated with Wildfire smoke, the recent Marsh Fire and Crockett Water Treatment Facility.

What makes up the carbon footprint of the U.S. health system?

<https://www.commonwealthfund.org/publications/explainer/2022/apr/how-us-health-care-system-contributes-climate-change>

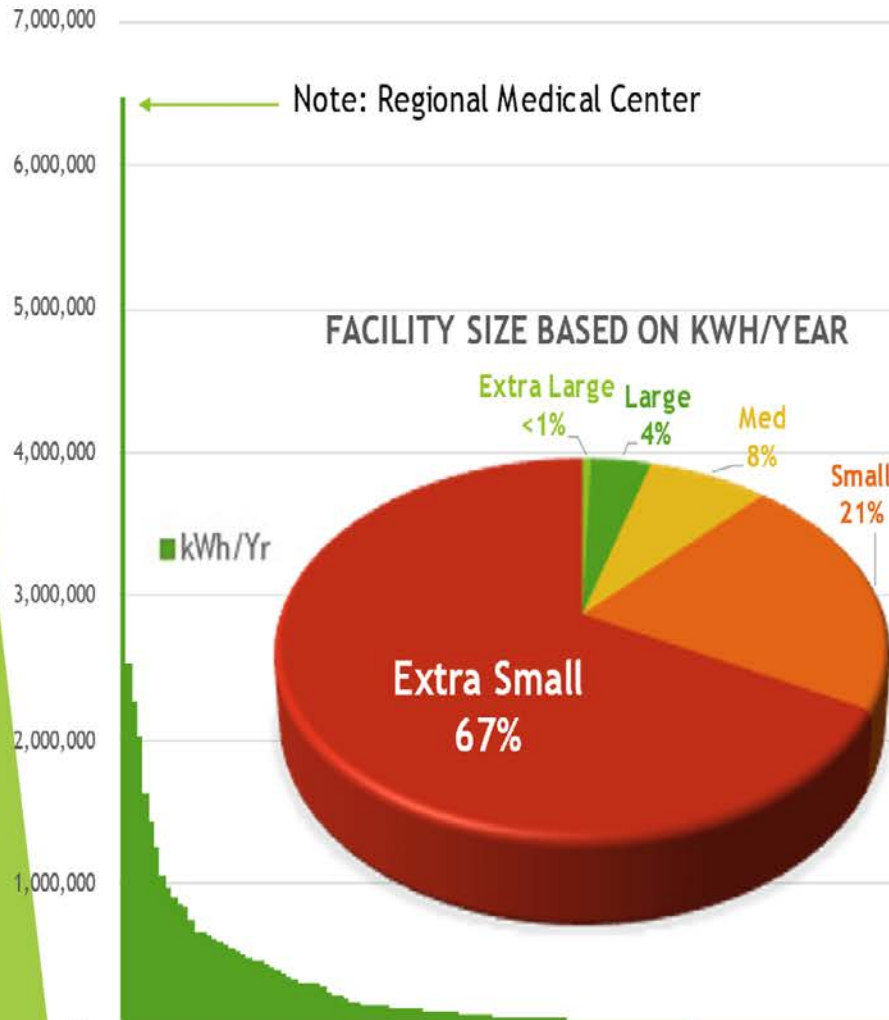
- * The sectors [contributing the most to carbon emissions](#) in the health system are **hospital care (36%)**, physician and clinical services (**12%**), and prescription drugs (**10%**). The [Greenhouse Gas Protocol](#) offers [another way to look at GHG emissions](#), categorizing them as:
 - **Scope 1:** Emissions from sources owned or directly controlled by the health sector, including emissions from health care facilities, such as on-site boilers, fleet vehicles and certain medical gases. These emissions account for around **7 percent** of health sector emissions overall.
 - **Scope 2:** Indirect emissions from the generation of energy purchased by health systems, mostly electricity. These account for around **11 percent** of emissions related to health care.
 - **Scope 3:** All other indirect emissions from the production and transportation of goods and services procured by the health sector, such as those related to pharmaceuticals and other medical products and devices. These account for more than **80 percent** of overall health care emissions.

County Electricity Use Overview

▶ County-wide Energy Use Snapshot

Total Annual Energy Spend

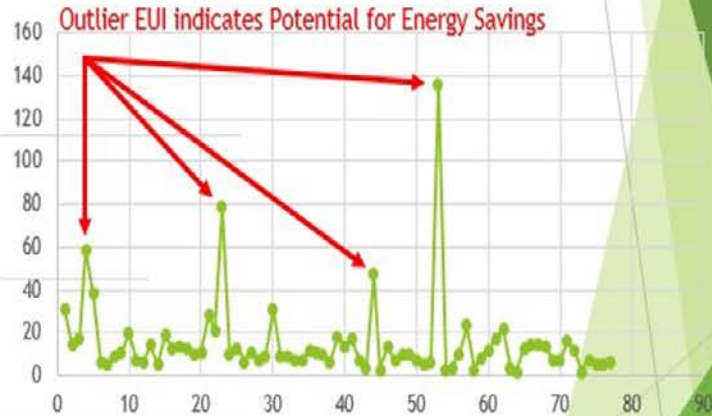
> \$7,000,000



Note: Regional Medical Center

Energy Utilization Index (kWh only)

(Sample Size = 77 Buildings)



Energy Utilization Index (EUI) =

Annual Energy Use (kWh)

Building Square Footage

Building Size Key (for Pie Chart)

Extra Large > 6 M kWh/year

Large 1 M - 2.5 M kWh/year

Med 500K - 999K kWh/year

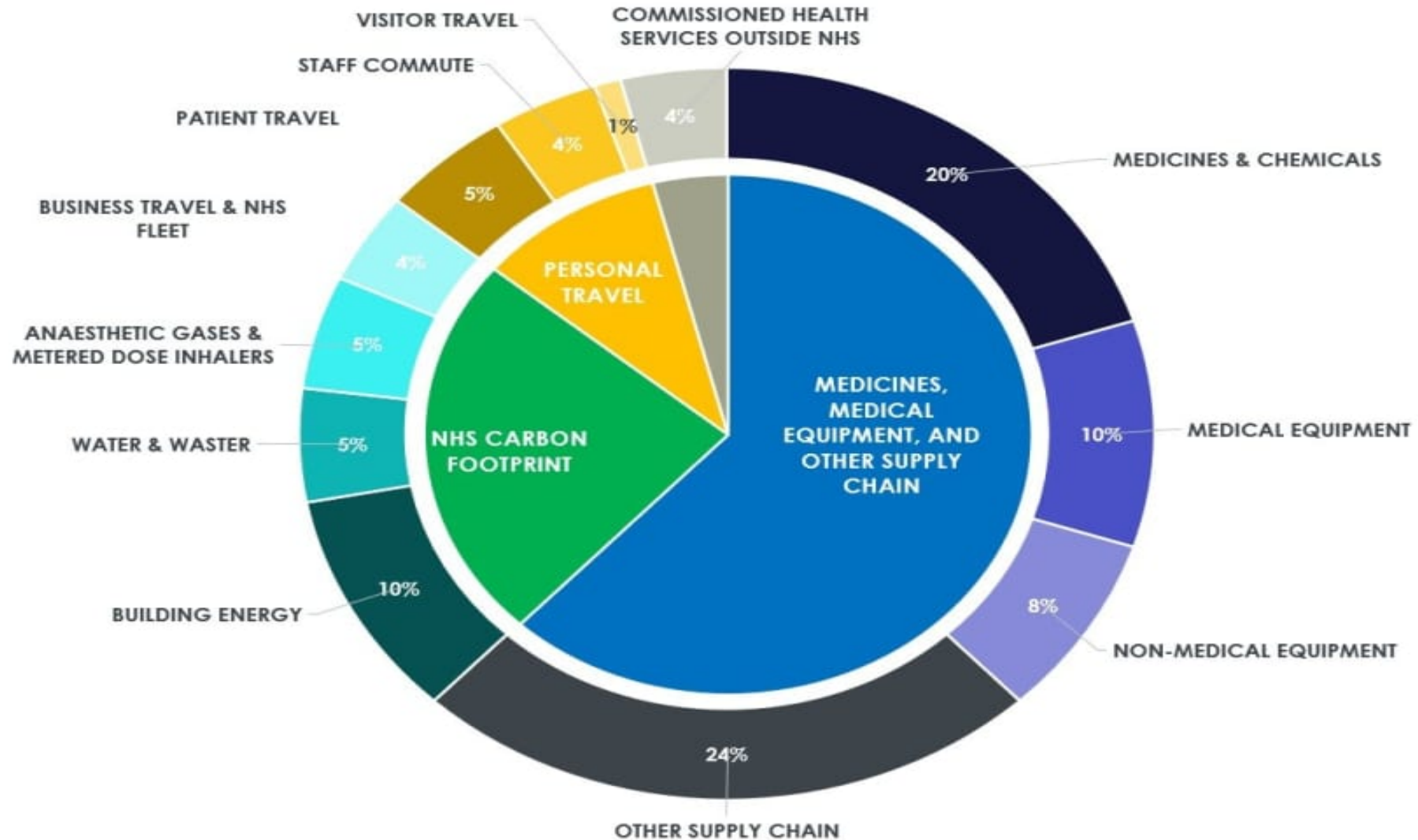
Small 100K - 499K kWh/year

Extra Small <100K kWh/year

one bar = one building/facility (Sample Size = 185 Buildings)

Health System Carbon Footprint

<https://planetarysolutions.yale.edu/event/yale-center-climate-change-and-health-3-part-seminar-care-without-carbon-part-2-lessons>



And to address our own Carbon footprint CCRMC has

- * Joined “Practice Green Health”

- * The leading sector focused, membership organization, that helps support health organizations in their efforts to reduce their own contribution to GHG emission. From sustainable procurement to reducing energy, water and waste, etc.
- * A close partner with Health Care Without Harm

- * *The **health care industry** is one of the most carbon-intensive service sectors in the industrialized world. It is responsible for 4.4–4.6 percent of worldwide greenhouse gas emissions and roughly **10 percent of US GHG emissions.** –*
<https://www.healthaffairs.org/doi/10.1377/hlthaff.2020.01247>

Leveraging some important partnerships

- * Membership in **Practice Green Health**
- * Participation in **Anchors in Resilient Communities (ARC)** – Health Sector focused (Healthcare without harm, Emerald Cities Collaborative)
 - * Regional Participants include: CCHS, Dignity Health/Common Spirit, Kaiser, UCSF, Santa Clara Medical Center
- * Membership in the **National Academy of Medicine Climate Collaborative**
- * **Federal HHS – Office of Climate Change & Health Equity**
- * Participation on steering committee for climate & environmental action of the **National Network of Public Health Institutes.**

Some Key Areas of Strategic Focus

❑ Decarbonize health-related operations across all Divisions of CCHS

- ❑ The US Health Care Sector contributes apx 8.5% of all US Green House Gas emissions – the equivalent of 100 coal fired power plants (Gary Cohen – CEO of Health Care Without Harm 5/25/2022).
- ❑ Support efforts to reduce Green House Gas emissions, waste and enhance the conservation of water and energy.

❑ Evaluate and, as feasible, implement a suite of strategies across the health sector:

- ❑ Support conversion to “green” products and practices related to operations. (upwards of 70-80%) – **Scope 3**
- ❑ Purchase and generate Clean energy – (~ 11%) - **Scope 2**
- ❑ Decrease use of Natural Gas for heating, convert vehicle fleet to ZEM, Review use of type of anesthesia and recapture strategy (~ 7%) – **Scope 1**
- ❑ **Volatile Anesthetic Gases:** - are halogenated chlorofluorocarbons (halothane, enflurane, isoflurane or fluorinated hydrocarbons (sevoflurane, desflurane)
 - ❑ **Desflurane** - GWP of 2,540 and Atmospheric lifetime of 14yr and generally the most expensive of the anesthetic gases.
 - ❑ Sevoflurane – GWP of 130 and Atmospheric lifetime of 1.1 years. (Hence, much better on the environment)

❑ Harden physical & operational infrastructure to withstand climate impact, including severe weather events.

Key Areas of Focus cont.

❑ Prepare health leaders, clinicians, and staff for immediate and anticipated impacts of climate change on local population health status and related health metrics.

❑ Ongoing climate change and related extreme weather events are anticipated to increase the incidence of a number of human health conditions from heat stroke to cardiovascular events and is anticipated to worsen a number of pulmonary health conditions from asthma to COPD. Premature death from injury related to severe weather events is also anticipated to increase. Additionally, increased morbidity and mortality associated with degradation in potable water quality and food insecurity related to drought is also anticipated. <https://www.cdc.gov/climateandhealth/effects/default.htm>

❑ Support Research efforts to quantify and highlight health impacts of climate change and benefits of addressing:

- [New study to examine link between air quality, climate change, and birth outcomes \[eurekaalert.org\]](#)
- [EPA Announces \\$21M in Research Grant Funding to Investigate Cumulative Health Impacts of Climate Change on Underserved Communities \[epa.gov\]](#)

Key Areas of Focus cont.

- ❑ **Engage community partners in understanding and addressing the disproportionate health and social impacts that climate change may have on vulnerable communities and persons, such to frame strategy in the context of mitigating inequity and supporting community voice and decision making.**
 - ❑ **It is hard to overstate the interconnections between climate change, health, and equity.** The root causes and upstream drivers of climate change and health inequities are often the same. Our energy, transportation, land use, building, food and agriculture and socioeconomic systems are key contributors to climate pollution and key shapers of community living conditions.
 - ❑ **The health risks and impacts of climate change are not equally or fairly distributed across people or communities.** The impacts of climate change on health are significantly moderated by individual and community vulnerability and resilience. Two critical components of climate vulnerability are pre-existing health status and living conditions.
 - ❑ https://www.apha.org/-/media/files/pdf/topics/climate/apha_climate_equity_introduction.ashx#:~:text=Climate%20change%20exacerbates%20existing%20health,that%20most%20impact%20disadvantaged%20communities.

Key Areas of Focus cont.

☐ Fully embrace and advocate for Equity, Climate and Health in all Policies.

Climate Policy is health policy.

- ☐ It is especially important that CCHS contribute to and **leverage public and organizational policy** from a health equity perspective that seeks to mitigate the impacts of climate change on vulnerable communities and persons.
- ☐ From a health impact perspective and through a health equity lens, these policies should be **prioritized** not only due to their **social justice attributes but also due their high return on investment in preventing avoidable illness, disease, and subsequent service and resource impacts on the healthcare** and social care delivery systems.

National Health related bodies are starting to look much more closely at climate impact of the health care sector

NON-EXHAUSTIVE

Mobilization in the US Health Sector

The health sector is responding to external pressures through new collaborations that seek to unlock the true potential of healthcare



The Action Collaborative serves as a neutral platform for participants to align around collective goals and actions for decarbonization, based on evidence, shared solutions, and a commitment to improve health equity.



The Joint Commission (JC) established a [Technical Advisory Panel](#) with nationally recognized experts to evaluate the inclusion of climate-related standards in accreditation. JC also reviewing current standards and survey methods to ensure they do not contribute to excess consumption of materials and energy.



Over 100 U.S. healthcare companies responded to the Administration's [Health Sector Climate Pledge](#), committing to reduce greenhouse gas emissions by 50% by 2030.



In November, HHS released a set of resources to support health sector decarbonization including a [Primer from the Agency for Healthcare Research Quality](#) that offers guidance on high-priority measures and actions for healthcare organizations to reduce their carbon footprint.



The Institute for Healthcare Improvement convened a *Climate Can't Wait* workgroup in 2021-22 for their Leadership Alliance

Questions





Contra Costa County Board of Supervisors

Subcommittee Report

SUSTAINABILITY COMMITTEE

Meeting Date: 03/20/2023

Subject: RECEIVE REPORT from Sustainability Commission Chair or Designee

Submitted For: Jody London, Sustainability Coordinator

Department: Conservation & Development

Referral No.:

Referral Name:

Presenter: Luz Gomez, Chair, Sustainability Commission

Contact: Demian Hardman, 925-655-2816

Referral History:

This is a standing item of the committee.

Referral Update:

The Sustainability Commission Chair provides an update at each meeting of the Sustainability Committee on the work of the Commission.

Recommendation(s)/Next Step(s):

RECEIVE REPORT from Sustainability Commission Chair, or Designee (Luz Gomez, Sustainability Commission Chair)

Attachments

No file(s) attached.



Contra Costa County Board of Supervisors

Subcommittee Report

SUSTAINABILITY COMMITTEE

Meeting Date: 03/20/2023

Subject: Receive Report from Sustainability Coordinator

Submitted For: Jody London, Sustainability Coordinator

Department: Conservation & Development

Referral No.:

Referral Name: RECEIVE REPORT from Sustainability Coordinator. (Jody London, Department of Conservation and Development - Sustainability)

Presenter: Jody London, Sustainability Coordinator

Contact: Jody London, 925-655-2815

Referral History:

This is a standing item of the Sustainability Committee.

Referral Update:

Key activities since the Sustainability Committee's meeting on February 17, 2023, are listed below.

DCD Sustainability Staff

- Sustainability staff organized and hosted the Q1 2023 meeting of the Sustainability Exchange on February 22, 2023. The topic was federal funding opportunities and how to pursue grant opportunities. a tool that can be used to identify and begin preparing for grant opportunities.
- Staff is working to submit a FY 2024 Community Project Funding request to the County's congressional delegation for submission to the federal Appropriations Committees in the House of Representatives and the Senate. This request seeks partial funding of the Contra Costa County Sea Level Rise Adaptation Plan.
- Staff is working with a coalition of local governments and CivicWell to secure passage of [SB 511](#), a priority in the County's State legislative platform that would require the California Air Resources Board to prepare inventories of greenhouse gas (GHG) emissions for use by cities and counties to use in the preparation of Climate Action Plans (CAPs) and to prioritize the use of funding and resources to achieve optimal reductions of GHG emissions in local communities.
- The Healthy Lands, Healthy People [carbon sequestration feasibility study](#) is going to be delayed a few months while staff and consultants revise some of the analysis to update faulty assumptions in a dataset maintained by the State.
- Climate Emergency Resolution:
 - *Just Transition.* The County is preparing to receive a \$750,000 Community Project Funding grant from the U.S. Department of Housing and Urban Development (HUD) to support the development of a Just Transition Economic Revitalization Plan.
 - *Interdepartmental Climate Action Task Force.* The Task Force met on Feb. 21, in preparation for its semi-annual update to the Board of Supervisors on March 21.

Public Works

- Public Works continues implementation of the Vision Zero Action Plan and the Active Transportation Plan adopted by the Board of Supervisors. Public Works has submitted a number of grant applications for projects that meet goals of the County's Active Transportation and Vision Zero policies. Two Active Transportation Program (ATP) grant applications were awarded to install two-way cycle tracks within Impacted Communities (physically separated cycle tracks that allow bicycle movement in both directions on one side of the road). The County received \$14.4M in ATP funding. The first project is the North Bailey Active Transportation Project that is located on Bailey Road between the SR4 westbound onramp and Willow Pass Road. This project won ATP Cycle 5 funding and is presently in Design and is expected to be constructed in 2026. The second project is the Pacifica Avenue Safe Routes to School Project, which runs from Port Chicago Highway to Driftwood Drive. This project just won Cycle 6 ATP funding and is expected to be constructed

around 2027. Award of the Highway Safety Improvement Program (HSIP) grant applications to further the Vision Zero Action Plan

- were announced on March 10. The County received \$4.7M in HSIP funding for the following projects: Countywide Guardrail Upgrades – Phase 2, Appian Way at Fran Way Pedestrian Crosswalk Enhancements, Walnut Boulevard Bike Safety Improvements, Byron Highway Safety Improvements, Vasco Road Safety Improvements, and Deer Valley Road Traffic Safety Improvements.
- Public Works has been continuing to pursue opportunities to install bikeways after surface treatment of roadways through reconfiguration of roadway striping. See attached photos of the revamped Blum Road in Martinez. The County plans to install bikeways as part of the 2023 Surface Treatment project along Kevin Drive in Bay Point and along Jones Road, Las Juntas Road, and Walden Road near the Contra Costa Centre.

Ongoing

- Staff participated in professional learning opportunities regarding environmental justice, carbon sequestration, climate resilience, communication and facilitation strategies, race and equity, and related.
- Staff participated in regional activities.

Recommendation(s)/Next Step(s):

RECEIVE REPORT from Sustainability Coordinator.

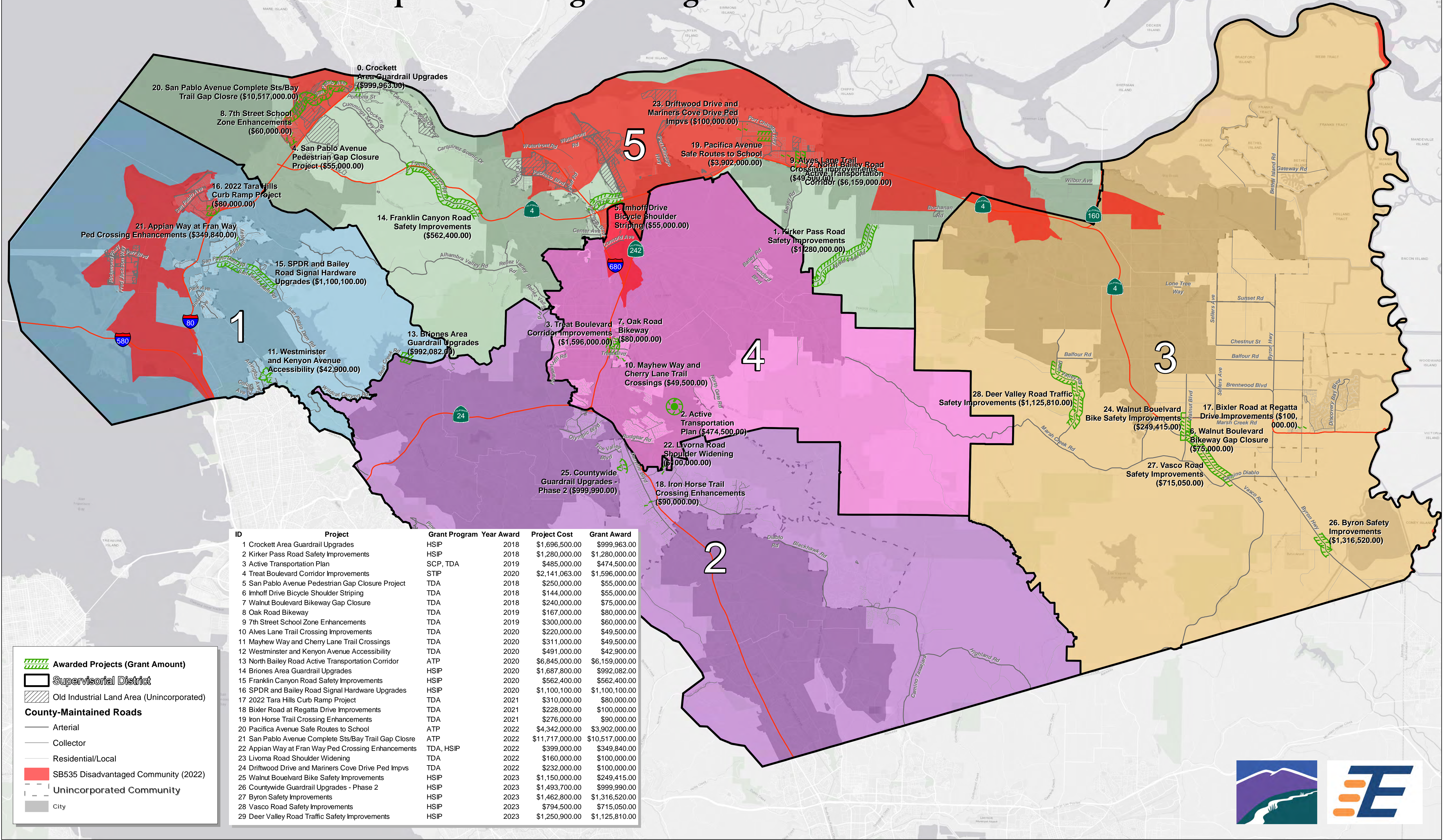
Fiscal Impact (if any):

N/A

Attachments

Awarded Transportation Infrastructure Projects 2018-Present

Contra Costa County Public Works Department Transportation Engineering Grant Awards (2018–Present)



ID	Project	Grant Program	Year Award	Project Cost	Grant Award
1	Crockett Area Guardrail Upgrades	HSIP	2018	\$1,696,500.00	\$999,963.00
2	Kirker Pass Road Safety Improvements	HSIP	2018	\$1,280,000.00	\$1,280,000.00
3	Active Transportation Plan	SCP, TDA	2019	\$485,000.00	\$474,500.00
4	Treat Boulevard Corridor Improvements	STIP	2020	\$2,141,063.00	\$1,596,000.00
5	San Pablo Avenue Pedestrian Gap Closure Project	TDA	2018	\$250,000.00	\$55,000.00
6	Imhoff Drive Bicycle Shoulder Striping	TDA	2018	\$144,000.00	\$55,000.00
7	Walnut Boulevard Bikeway Gap Closure	TDA	2018	\$240,000.00	\$75,000.00
8	Oak Road Bikeway	TDA	2019	\$167,000.00	\$80,000.00
9	7th Street School Zone Enhancements	TDA	2019	\$300,000.00	\$60,000.00
10	Alves Lane Trail Crossing Improvements	TDA	2020	\$220,000.00	\$49,500.00
11	Mayhew Way and Cherry Lane Trail Crossings	TDA	2020	\$311,000.00	\$49,500.00
12	Westminster and Kenyon Avenue Accessibility	TDA	2020	\$491,000.00	\$42,900.00
13	North Bailey Road Active Transportation Corridor	ATP	2020	\$6,845,000.00	\$6,159,000.00
14	Briones Area Guardrail Upgrades	HSIP	2020	\$1,687,800.00	\$992,082.00
15	Franklin Canyon Road Safety Improvements	HSIP	2020	\$562,400.00	\$562,400.00
16	SPDR and Bailey Road Signal Hardware Upgrades	HSIP	2020	\$1,100,100.00	\$1,100,100.00
17	2022 Tara Hills Curb Ramp Project	TDA	2021	\$310,000.00	\$80,000.00
18	Bixler Road at Regatta Drive Improvements	TDA	2021	\$228,000.00	\$100,000.00
19	Iron Horse Trail Crossing Enhancements	TDA	2021	\$276,000.00	\$90,000.00
20	Pacifica Avenue Safe Routes to School	ATP	2022	\$4,342,000.00	\$3,902,000.00
21	San Pablo Avenue Complete Sts/Bay Trail Gap Closure	ATP	2022	\$11,717,000.00	\$10,517,000.00
22	Appian Way at Fran Way Ped Crossing Enhancements	TDA, HSIP	2022	\$399,000.00	\$349,840.00
23	Livorna Road Shoulder Widening	TDA	2022	\$160,000.00	\$100,000.00
24	Driftwood Drive and Mariners Cove Drive Ped Impvs	TDA	2022	\$232,000.00	\$100,000.00
25	Walnut Boulevard Bike Safety Improvements	HSIP	2023	\$1,150,000.00	\$249,415.00
26	Countywide Guardrail Upgrades - Phase 2	HSIP	2023	\$1,493,700.00	\$999,990.00
27	Byron Safety Improvements	HSIP	2023	\$1,462,800.00	\$1,316,520.00
28	Vasco Road Safety Improvements	HSIP	2023	\$794,500.00	\$715,050.00
29	Deer Valley Road Traffic Safety Improvements	HSIP	2023	\$1,250,900.00	\$1,125,810.00

Awarded Projects (Grant Amount)

Supervisory District

Old Industrial Land Area (Unincorporated)

County-Maintained Roads

- Arterial
- Collector
- Residential/Local

SB535 Disadvantaged Community (2022)

Unincorporated Community

City



This map is a display of all transportation projects awarded grant funding since 2018
 Created by: Jeff Valeros
 Date: 3/15/2023
 Document Path: P:\GIS USERS - Projects\Transportation\Grants\Awarded Projects 2018-Present.mxd

