



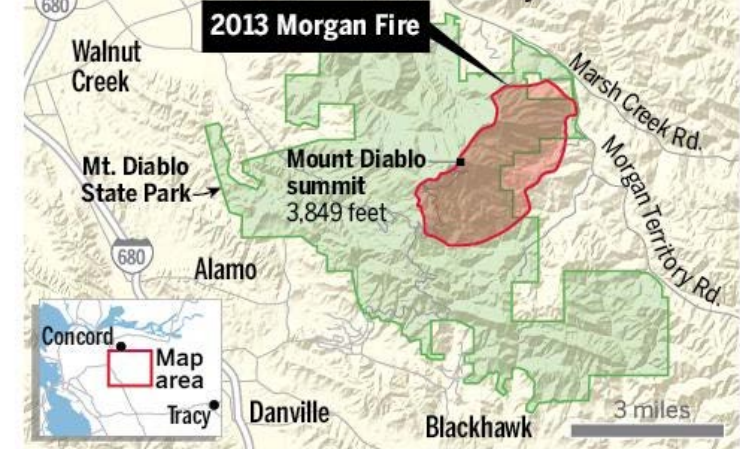
CLIMATE ACTION TASK FORCE - UPDATE

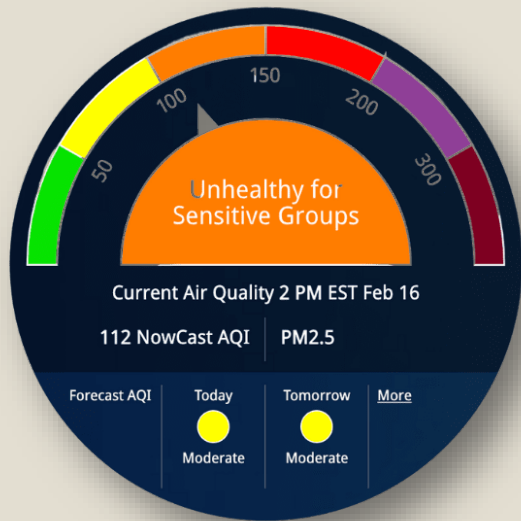
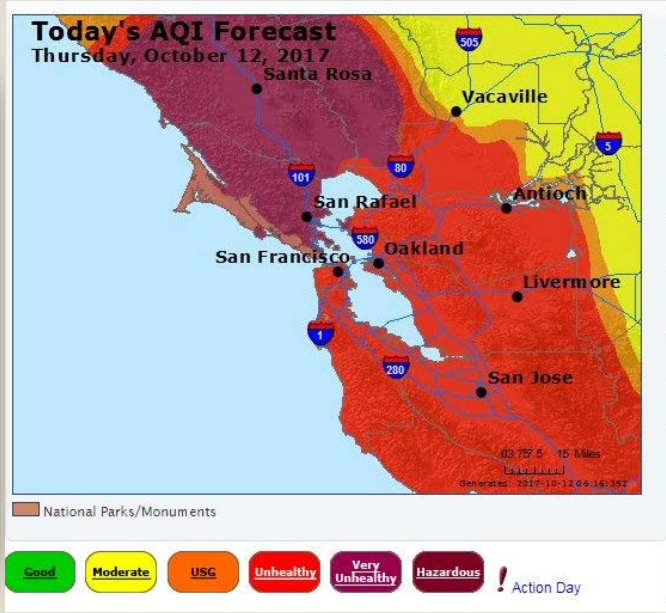
March 21, 2023

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EXTREME WEATHER IN CONTRA COSTA COUNTY

Wildfires in Contra Costa County





Air Quality



Climate Change

Sea Level Rise, Flooding, Storm Intensities

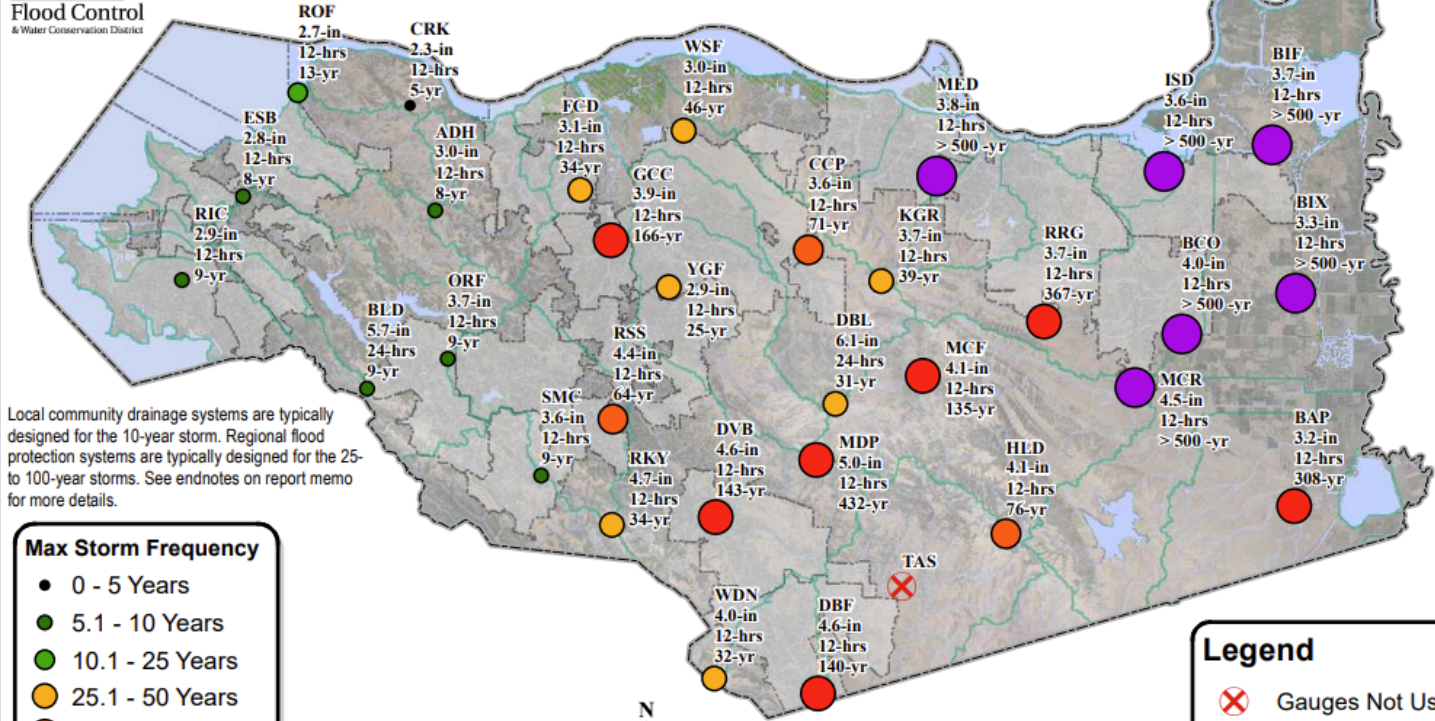
Climate change may lead to up to 55 inches of sea level rise by the end of the 21st century.

As a result, Contra Costa County is projected to see about a 40% increase in area of land susceptible to a 100-year flood event, with the cities of Richmond and Pittsburg the most impacted.

The health impacts of flooding are wide ranging. They include physical injury, displacement and associated stress and trauma, contamination of drinking water and indoor exposure to mold and bacterial contaminants.



December 31, 2022 Storm



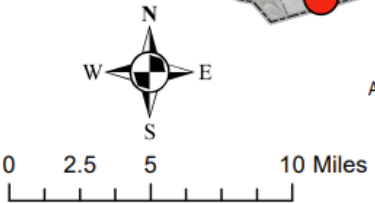
Local community drainage systems are typically designed for the 10-year storm. Regional flood protection systems are typically designed for the 25- to 100-year storms. See endnotes on report memo for more details.

Max Storm Frequency

- 0 - 5 Years
- 5.1 - 10 Years
- 10.1 - 25 Years
- 25.1 - 50 Years
- 50.1 - 100 Years
- 100.1 - 500 Years
- > 500 Years

Legend

- ⊗ Gauges Not Used
- 🌿 Watersheds
- ▭ City Limits
- 🌊 Creeks



All values are preliminary and subject to revision. Question regarding this exhibit should be directed to the FC District Hydrologist at (925) 313-2000.

Durations reported are 3-, 6-, 12-, 24-, 48- and 96-hour

Find Report at www.contracosta.ca.gov/1456/Storm-Event-Reports

Contra Costa County Flood Control and Water Conservation District Storm Report Rain Gauge Exhibit

CONTRA COSTA COUNTY PUBLIC WORKS DEPARTMENT
COMPUTER SERVICES - MAPPING SERVICES SECTION
700 BLAINE DRIVE
MARTINEZ, CALIFORNIA 94553

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Date: Wednesday, February 1, 2023 Path: P:\GIS USERS - Development\FC\Hydrology\Projects\Gauges\2022-12-31 Event\Rain Gauges 2022-12-31.mxd BY: M. Baucher

March 21, 2023

CLIMATE ACTION IN CONTRA COSTA COUNTY



Climate Action Plan (CAP) Update

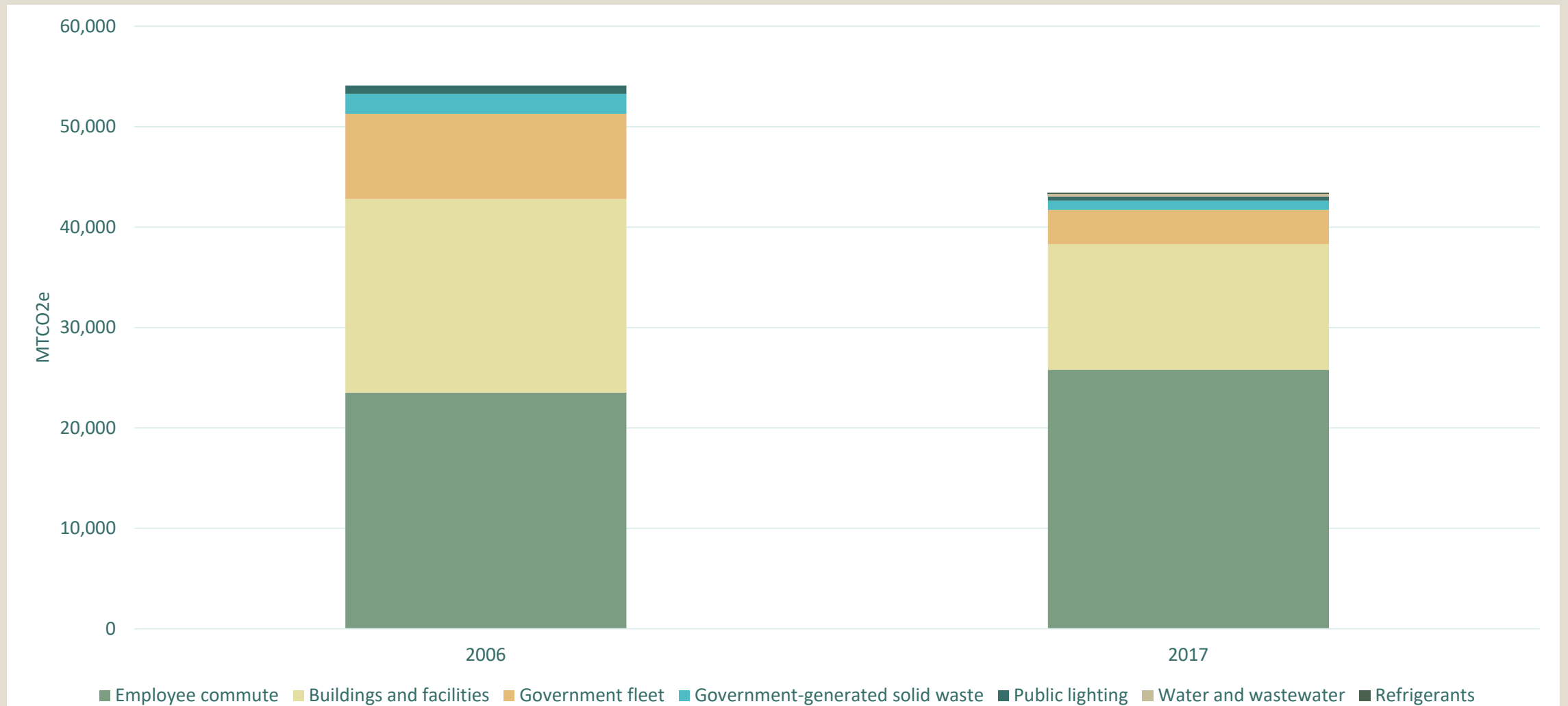
- The draft Climate Action Plan focuses on:
 - Clean and Efficient Built Environment
 - No Waste Contra Costa
 - Reduce Water Use and Increase Drought Resilience
 - Clean Transportation Network
 - Resilient Communities and Natural Infrastructure
 - Climate Equity
 - Leadership
 - Implementation Strategies
- The schedule is coordinated with the General Plan – adoption anticipated in 2024
- Many people and departments implement the CAP

Sector	2005 MTCO ₂ e	2013 MTCO ₂ e	2017 MTCO ₂ e	Percent change 2017 from 2013	2017 Percent of Total
Residential energy	274,690	258,420	252,730	-8%	20.7%
Nonresidential energy	118,740	125,350	122,040 *†	3%	10%
Solid waste	48,450	26,540	25,570	-47%	2%
Landfill	193,950	196,500	197,710	2%	16%
On-road transportation	628,200	651,130	550,490 †	-12%	45%
BART	2,300	2,680	1,350	-41%	.001%
Off-road equipment	71,880	66,230	17,580	-76%	.01%
Water and wastewater	8,080	7,400	5,690	-30%	.004%
Agriculture	57,320	58,200	46,180	-19%	3.7%
Total	1,403,610	1,392,450	1,219,340	-13%	
* 2013 data used as a proxy.					
† Subject to potential revisions as new data become available.					
MTCO ₂ e = metric tons equivalent of carbon dioxide					

March 21, 2023

**TRANSPORTATION
AND BUILDINGS ARE
EMISSIONS
SOURCES WE CAN
INFLUENCE**

2006 Baseline and 2017 County Operations GHG Emissions Summary



Climate Action Strategies for 2023-24: Buildings

Community

- More buildings become all-electric
- More rooftop solar
- MCE Deep Green
- Ongoing study of low-carbon concrete



County Operations

- Energy efficiency upgrades
- Solar + battery storage
- Load Management – shifting when we use electricity
- MCE Deep Green
- Low-carbon concrete

Climate Action Strategies for 2023-24: Transportation

Community

- Active Transportation – better access for bicycling, walking
- More electric vehicles and chargers



Blum Road Bike Lane

County Operations

- Remote work
- Pre-tax commute benefit
 - In 2021, used by 8 employees (!)
- Zero-emission fleet, and chargers



Climate Action Strategies for 2023-24: No-Waste Contra Costa

Community

- Weekly composting through waste haulers
- Explore reducing use of single-use plastics
- Outreach and education for residents and businesses on food waste recovery and composting

County Operations

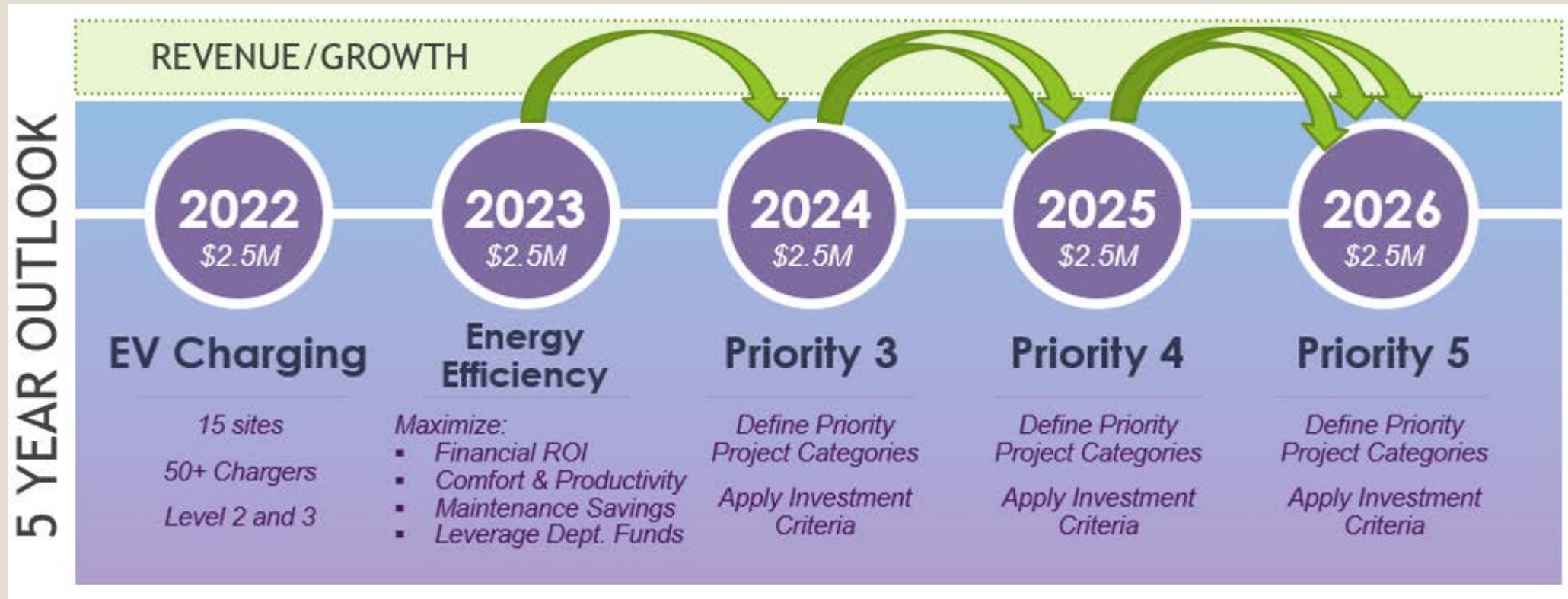
- More composting and recycling
- Adopt and implement environmentally preferable purchasing policy



Climate Action Strategies for 2023-24: Leadership

- This Task Force and G3 Champions
- County investments support climate equity
 - Amend the County investment policy to **divest from fossil fuels**, consider the use of Environmental, Social, and Governance criteria, and prohibit investment in all securities issued by fossil fuel companies
 - Evaluate the **issuance of labeled bonds** or other projects to be funded by municipal securities for "Green," "Sustainable," or "Social"
 - Evaluate the use of third-party certifiers for labeled bonds to promote the integrity of the bond sale and **avoid appearances of "greenwashing"**
 - Evaluate the implementation of retail order periods to **encourage local retail investors to purchase County bonds**, including "labeled bonds" such as Green Bonds

Sustainability Fund Update

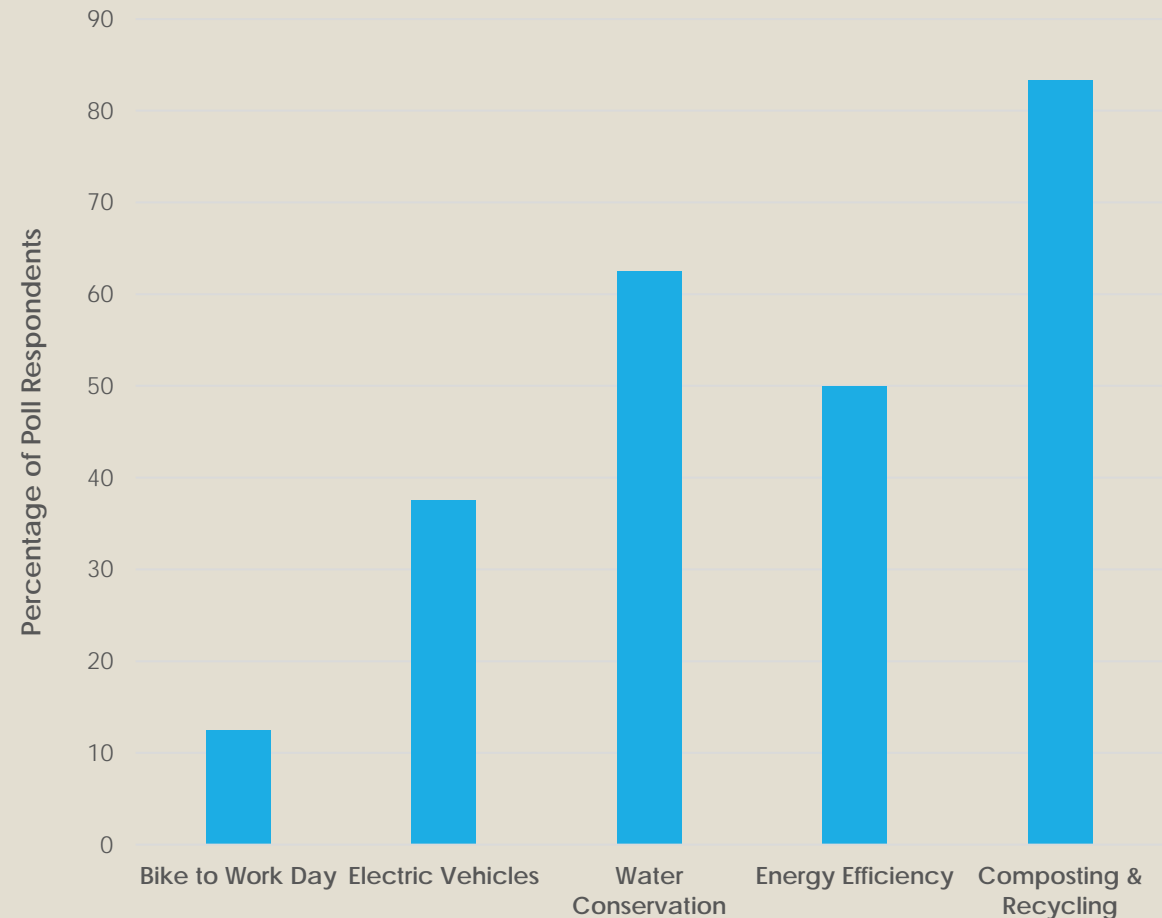


- UPDATE**
- 1st project at 30 Muir Rd in Design phase, 24 charging ports
 - 25 EVSE sites scheduled for site visits in Feb/Mar 2023, 150+ chargers
 - Energy Efficiency assessments underway, focus on LED lighting retrofits

G3 Champion Update

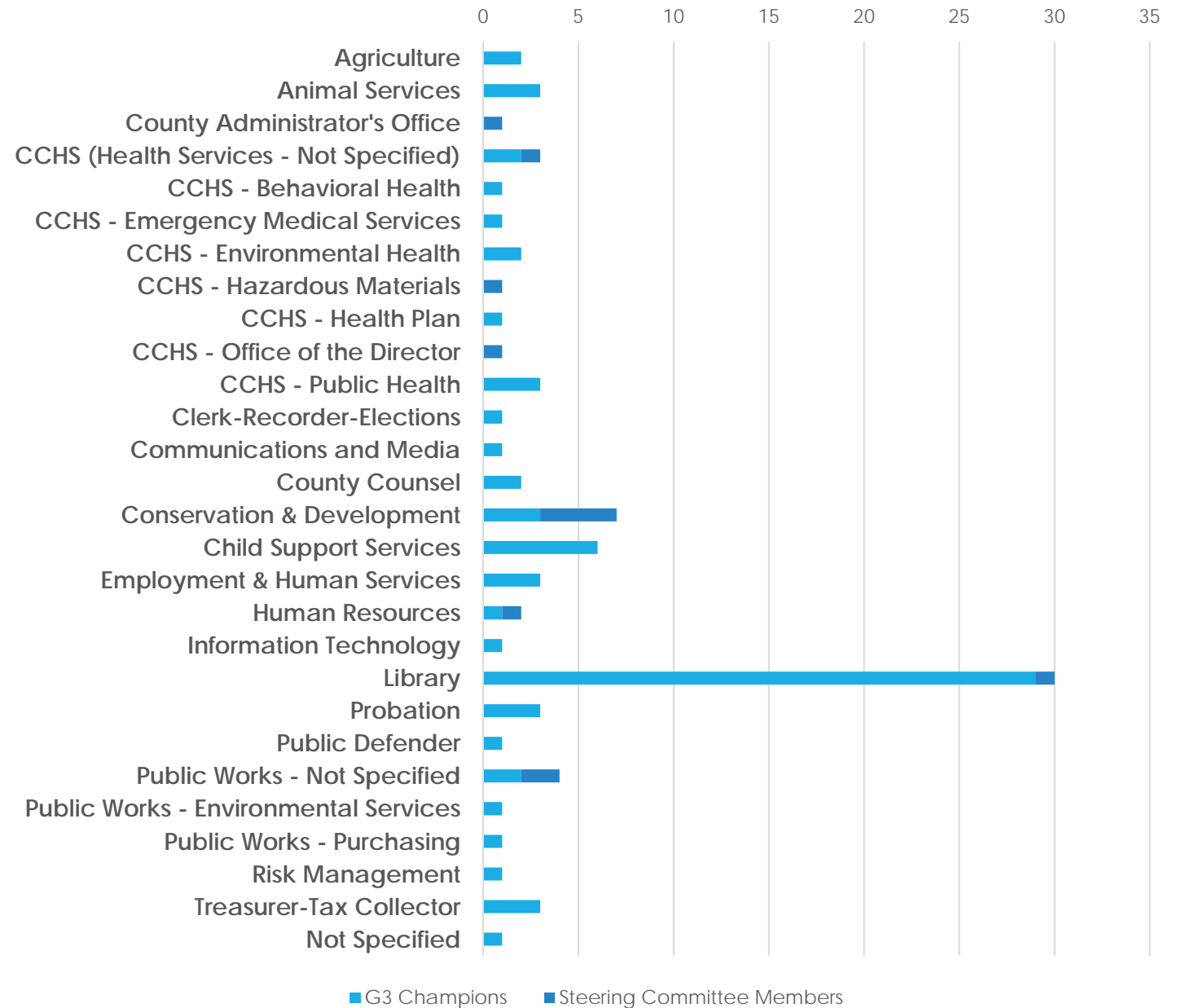
- Started meeting April 2022
- Over 65 people have signed up; about 30 attend meetings, which occur every other month
- Meeting topics so far:
 - Bike to Work Day
 - Electric Vehicles
 - Water Conservation
 - Energy Efficiency
 - Composting and Recycling
 - Department Innovation
- Would like to meet in person, possibly longer for sustainability projects

G3 Champions Topics of Interest for Further Exploration



Enrolled G3 Champions by Department

March 21, 2023



G3 Products

Curious about Composting?

It's the law!



Senate Bill 1383 requires organic waste recycling to **reduce methane emissions** from organic waste decomposing in landfills. Methane is 84x more potent than CO2 while in the atmosphere.

Organics Collection at Home*

Line your food scraps container with a paper bag or newspaper to keep it clean.



Storing food scraps in the fridge prevents smells.



Put food scraps and food-soiled paper on top of a layer of leaves in your curbside cart to prevent sticking.



The Case for Compost

At the compost facility, your organics become compost, which



prevents soil erosion, **conserves** water, and **promotes** plant and soil health!

Sign up for a free, virtual Home Composting Workshop at <http://cccrcycle.org/compost/>



*Check with your hauler or call +1 (800) 750-4096 to determine if your home organics collection includes food waste at this time.

Recycling

Reduces Waste in Many Ways

What's your recycling impact?



Recycling aluminum cans uses **95% less energy** than creating cans from new materials.



Using recycled material to make glass **reduces related water pollution** by 50%.

Each ton of recycled paper can **save 17 trees**, 4,000 kW of energy, and 7,000 gallons of water.



How to make your recycling more effective

- Keep it empty, clean, and dry.
- Leave it loose - no bags, please.
- When in doubt, look it up!



Check out RE:Source, at <https://resource.stopwaste.org/>

What are the Champions saying?

What supports have been most useful to you as a G3 Champion?

- Finding out what's happening in other departments
- CAO and Board of Supervisors' support
- Resources and activities that can be shared with others at my workplace
- Information shared during meetings

What barriers have you experienced as a G3 Champion?

- Being in older or leased facilities
- Limited time and budget
- Need for strong and active support of upper management
- Cutting through procedures perceived as "red tape" to implement green practices

What additional support would be helpful?

- Identify partners who can implement plans
- High-level overviews of each meeting to share with colleagues
- Increased focus on department-wide initiatives over individual action
- Greater visibility of G3 Champions' work (e.g. highlight in department meetings)

G3 Champions Meeting Attendance by Department

March 21, 2023

