ELECTRIC VEHICLE SCORECARD

Contra Costa County Climate Leaders
A project of Generation Green - a 501(c)3 Nonprofit organization

Find Links to Other Local Government Policy Opportunities at
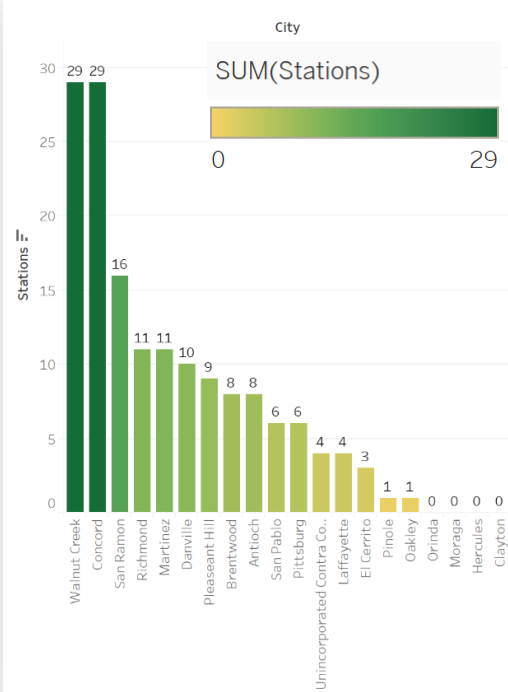**www.cccclimateleaders.org**

Electric Charging Ports

This chart displays the rankings of all cities in Contra Costa County based on electric vehicle charging ports (both government and business owned) with a per vehicle reference point. Below is a Graph that helps visualize the ranking.
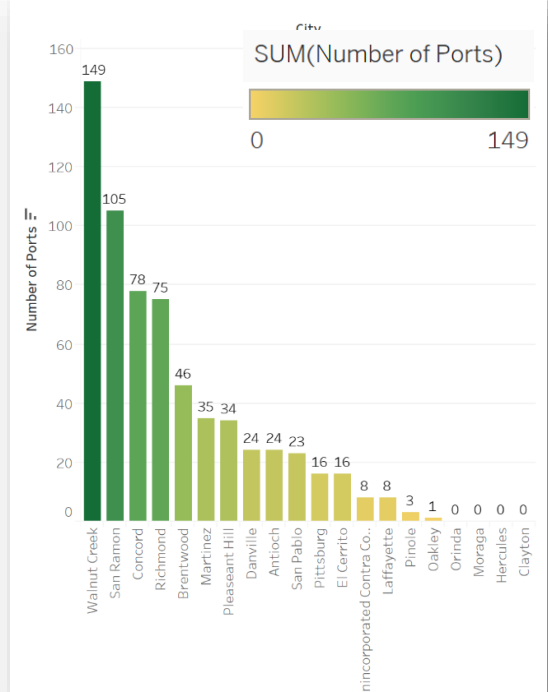Data from US Department of Energy[1] and US Census[2]

Rank	City	Number of Ports	Stations	Cars Per Port	Total Vehicles	Cars Per Station
1	Walnut Creek	149	29	333	49,572	1709
2	San Ramon	105	16	477	50,130	3133
3	San Pablo	23	6	682	15,686	2614
4	Pleasant Hill	34	9	734	24,972	2775
5	Martinez	35	11	792	27,704	2519
6	Richmond	75	11	832	62,370	5670
7	Brentwood	46	8	876	40,284	5036
8	El Cerrito	16	3	1039	16,628	5543
9	Concord	78	29	1076	83,957	2895
10	Danville	24	10	1347	32,320	3232
11	Lafayette	8	4	2377	19,018	4755
12	Pittsburg	16	6	2546	40,742	6790
13	Antioch	24	8	2785	66,837	8355
14	Pinole	3	1	4287	12,861	12861
15	Unincorporated	8	4	15298	122,386	30597
16	Oakley	1	1	26528	26,528	26528
17	Clayton	0	0	9239	9,239	9239
18	Moraga	0	0	11946	11,946	11946
19	Orinda	0	0	15106	15,106	15106
20	Hercules	0	0	16717	16,717	16717

Number of Station

Number of Ports

These charts show the physical number of Ports and Stations within each city's bounds. Walnut Creek is on top but most of the others shift as the average size of their stations differ. These charts highlight the fact that four Contra Costa Cities Orinda Moraga Hercules and Clayton are without EV charging station.
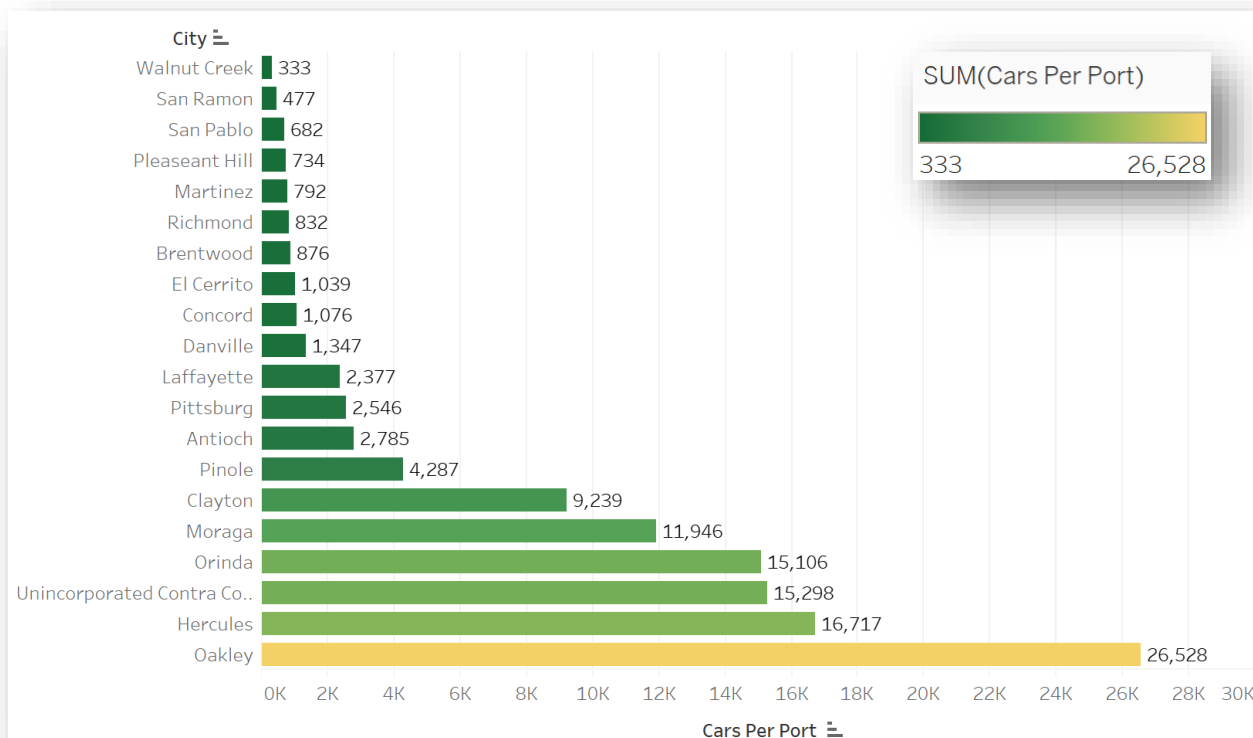
ELECTRIC VEHICLE SCORECARD
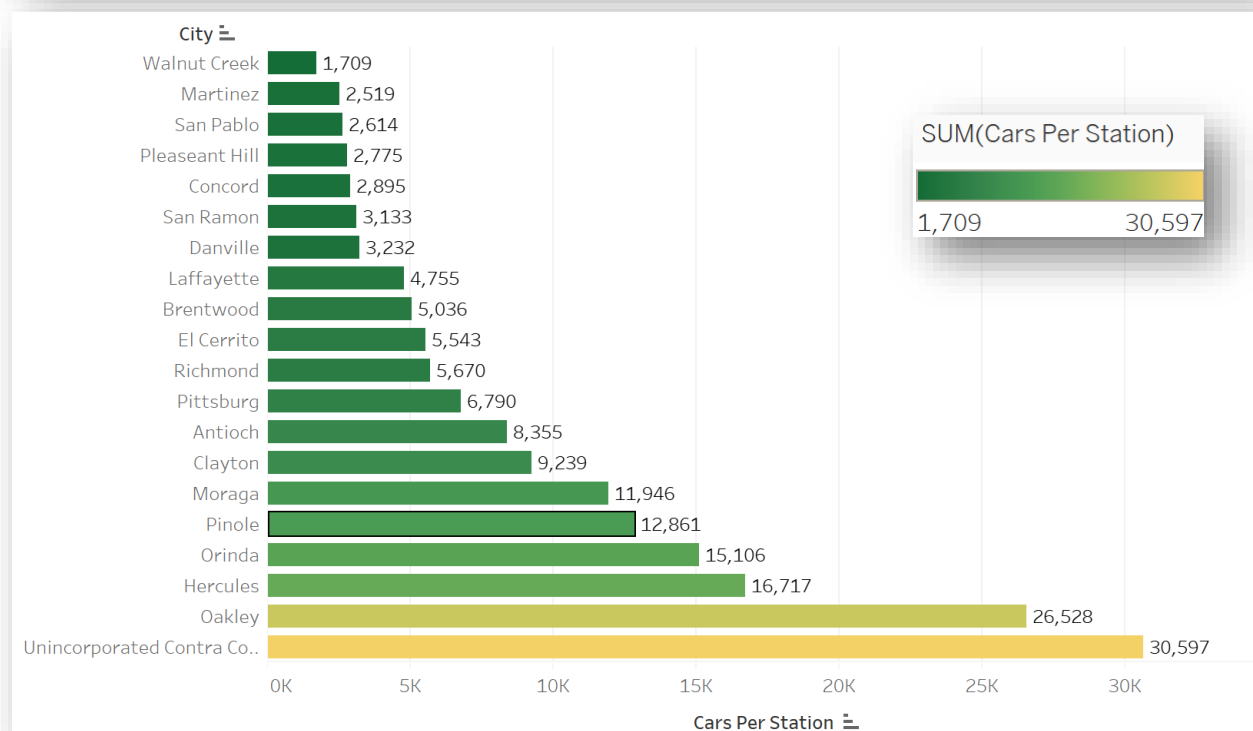
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Ports and Stations on a Per Vehicle Bases

City

City	Cars Per Port
Walnut Creek	333
San Ramon	477
San Pablo	682
Pleaseant Hill	734
Martinez	792
Richmond	832
Brentwood	876
El Cerrito	1,039
Concord	1,076
Danville	1,347
Laffayette	2,377
Pittsburg	2,546
Antioch	2,785
Pinole	4,287
Clayton	9,239
Moraga	11,946
Orinda	15,106
Unincorporated Contra Co..	15,298
Hercules	16,717
Oakley	26,528

SUM(Cars Per Port)
333   26,528

Cars Per Port

City

City	Cars Per Station
Walnut Creek	1,709
Martinez	2,519
San Pablo	2,614
Pleaseant Hill	2,775
Concord	2,895
San Ramon	3,133
Danville	3,232
Laffayette	4,755
Brentwood	5,036
El Cerrito	5,543
Richmond	5,670
Pittsburg	6,790
Antioch	8,355
Clayton	9,239
Moraga	11,946
Pinole	12,861
Orinda	15,106
Hercules	16,717
Oakley	26,528
Unincorporated Contra Co..	30,597

SUM(Cars Per Station)
1,709   30,597

Cars Per Station

This Chart depicts number of charging stations. Stations are defined as locations where charging points are available for the public. Please note that Orinda, Moraga, Hercules and Clayton do not have stations in the Department of Energy's alternative fuel Database instead are ranked purely on number of vehicles.
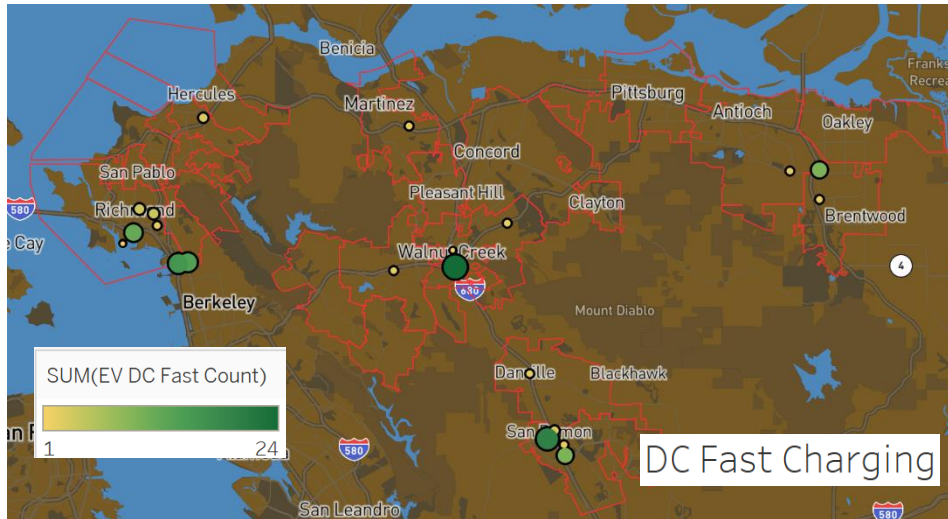
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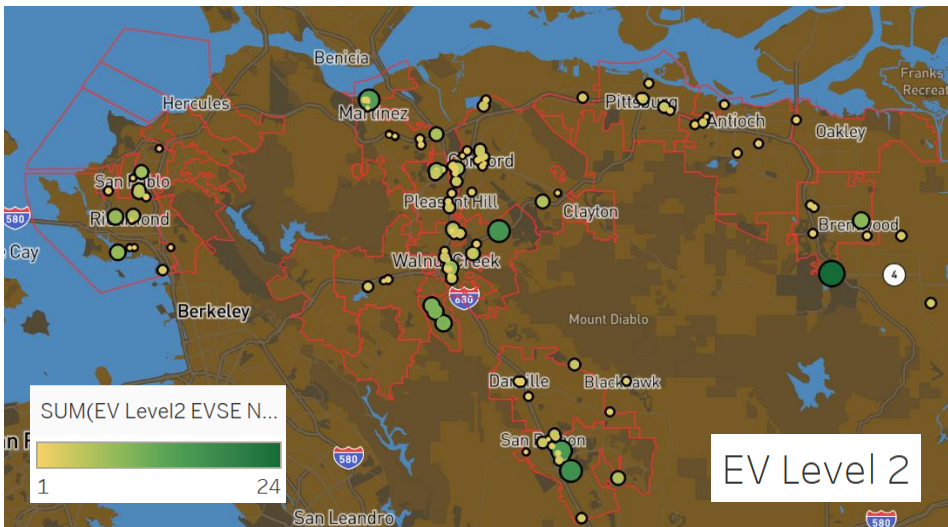## Contra Costa County Climate Leaders
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Types of Charging Stations and Their Location

SUM(EV DC Fast Count)
1 — 24

DC Fast Charging

SUM(EV Level2 EVSE N...
1 — 24

EV Level 2

SUM(EV Level1 EVSE N...
1 — 2

EV Level 1

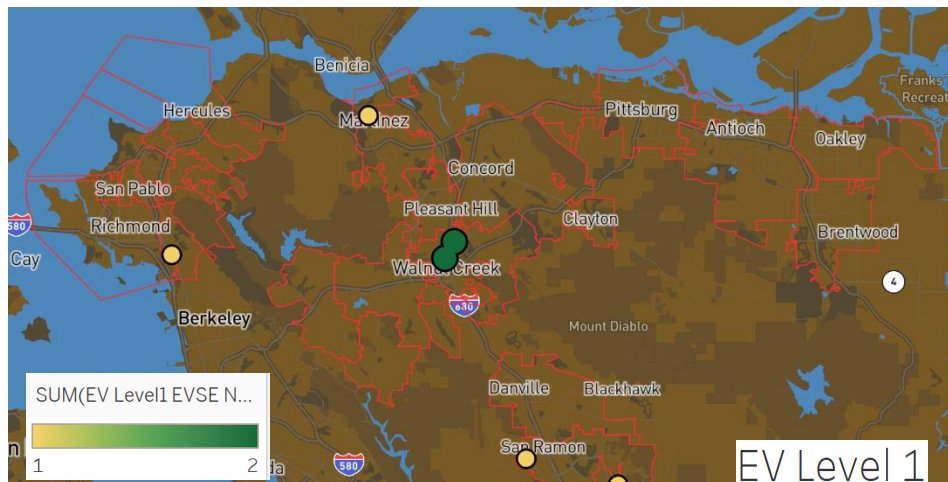Dots Bigger in Size and Closer to Dark green have more ports per Station

There are 3 main types of EV charging Stations

DC fast charger Level 3: 480-volts up to 800 volts with charge 80 percent of the battery in 30 minutes in most EV vehicles.
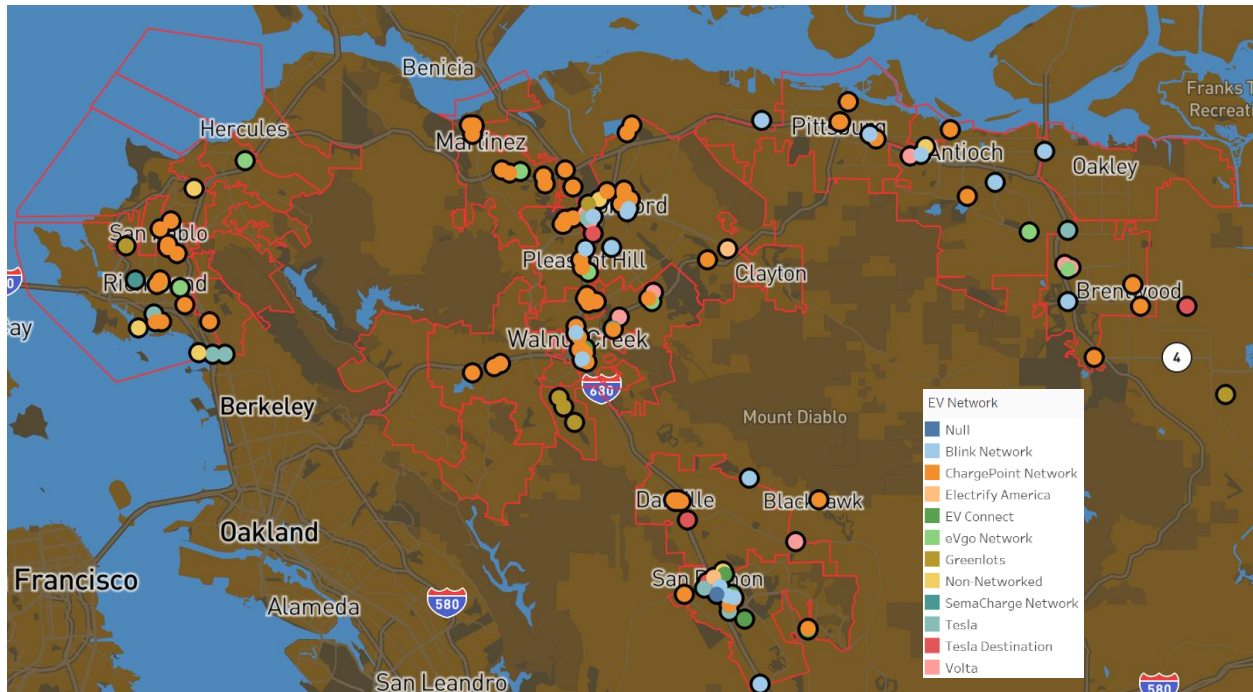
EV Level 2: 240-volts 12-60 mile range per hour. Standard public port option.

EV Level 1: 120-volts 4-5 mile range per hour. Best for home installations most EV owners can refill their car overnight

All electric vehicles on the road as of December 2019 can use the Level 2 Charger. Even Tesla's which are built with their own connectors designed for the super chargers, they just need to use an adaptor.

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Location of All Electric Vehicle Charging Stations

in Contra Costa County colored by Network

To locate Electric Vehicle Charging Stations in your city, there are various apps available to help EV owners locate a station. The three largest app networks are EVgo, https://www.evgo.com/ Chargepoint, https://www.chargepoint.com/ and Electrify America https://www.electrifyamerica.com/

According to the Department of Energy 80 percent of charges happen at home. PGE Install a level 2 Charger at home: https://www.pge.com/en_US/residential/solar-and-vehicles/options/clean-vehicles/electric/charger-installation.page; or thru MCE. https://www.mcecleanenergy.org/ev-charging-former/#HomeCharging

If you are considering an EV who what to find out how much you can save, Use the ChooseEV's Vehicle Cost Calculator! http://chooseev.com/savings-calculator/

Data Sources: 1 Department of Energy Alternate Fuel Stations August 2020, 2 US Census Vehicles per household

Data set is more extensive then visualized here but most relevant factors shown

Collected and Processed: September 2020