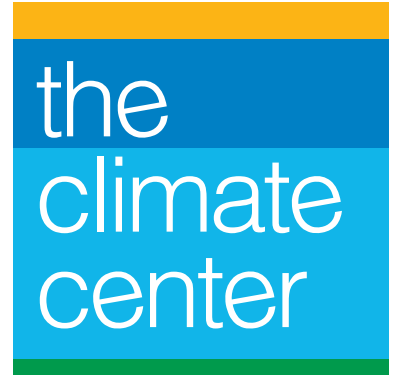




EVs for a Climate Safe California

September 26, 2020

Woody Hastings, Energy Program Manager



Urgency



The Big News



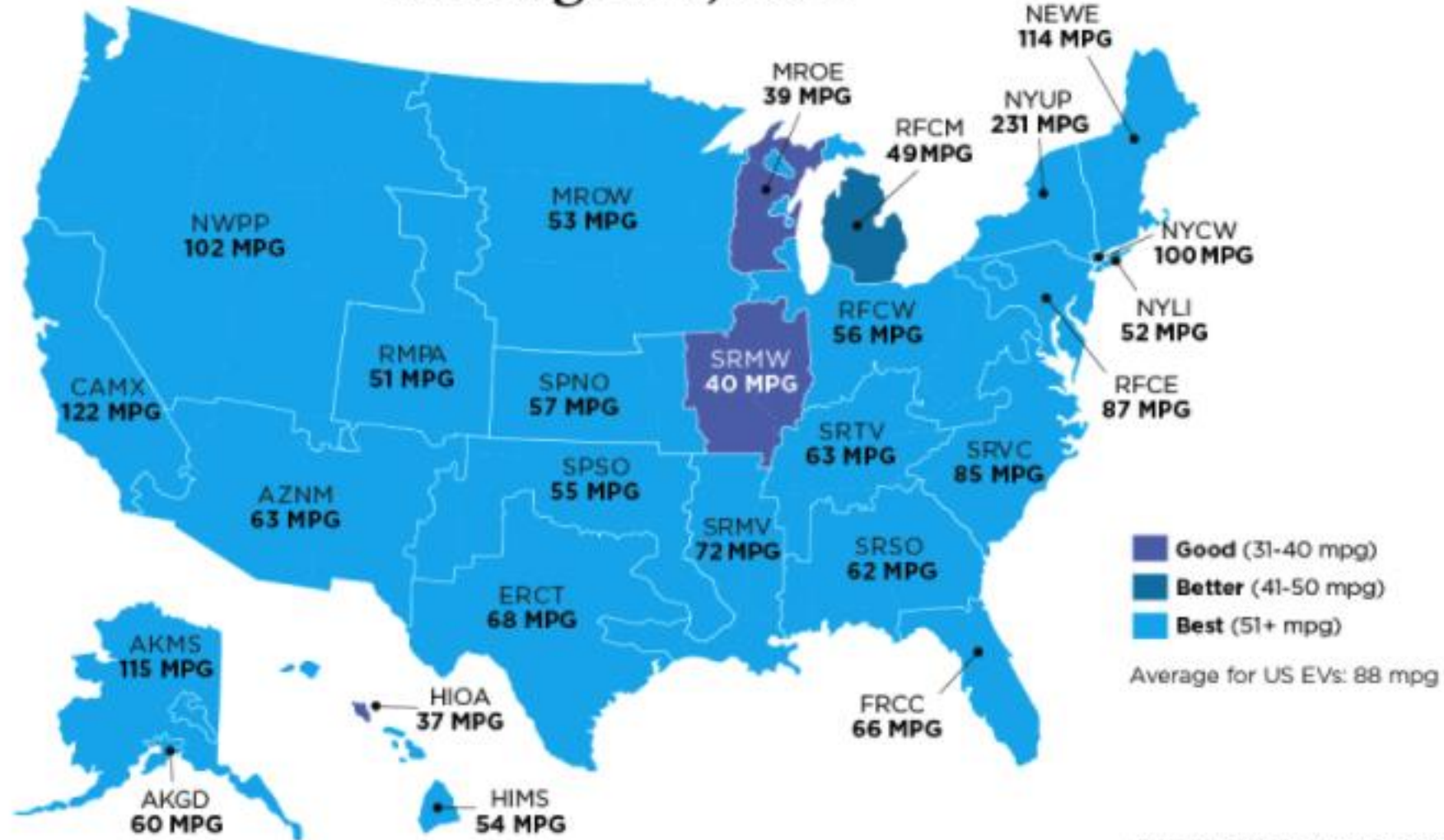
“It shall be a goal of the State that 100 percent of in-state sales of new passenger cars and trucks will be zero-emission by 2035”

A Double Environmental Benefit



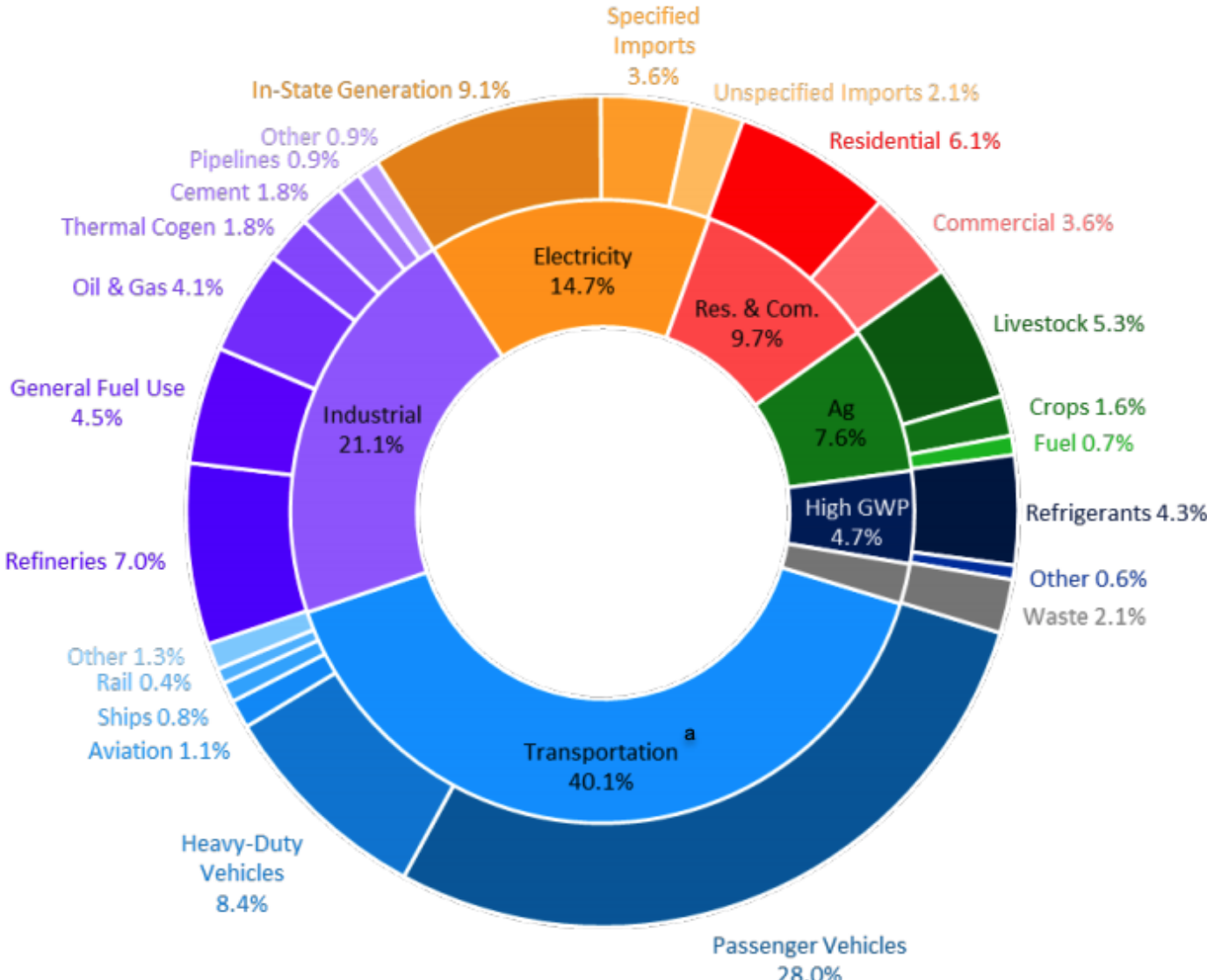
EV Emissions as Gasoline MPG Equivalent

Average EV, 2018



© Union of Concerned Scientists

GHGs from transportation in CA



Source: ARB 2019 Edition, California Greenhouse Gas Emission Inventory: 2000 – 2017 (https://ww3.arb.ca.gov/cc/inventory/pubs/reports/2000_2016/ghg_inventory_trends_00-16.pdf)



Low hanging fruit



Transportation Policy – Where it Happens...



- CA Transportation Commission
- Air Resources Board
- State Legislative Committees
- Local Govt

Transportation Policy: long range plan



- California Transportation Plan 2050
- The State's long-range transportation plan to improve multimodal mobility and accessibility while reducing greenhouse gas emissions
- **Comment period ends on October 22, 2020.**

15M cars in CA - only about 730,000 are Zero Emission Vehicles

- California currently has an official goal of 5 million Electric Vehicles on the road by 2030*
- Assuming we want to simply switch the fuel (which is not necessarily the case)...
- ...we need to double that goal to 10 million Electric Vehicles on the road by 2030 to reach 2/3rds!

* <https://www.ca.gov/archive/gov39/2018/01/25/governor-brown-delivers-2018-state-of-the-state-address-california-is-setting-the-pace-for-america/index.html>

Funding for Charging Stations



<https://calevip.org/>

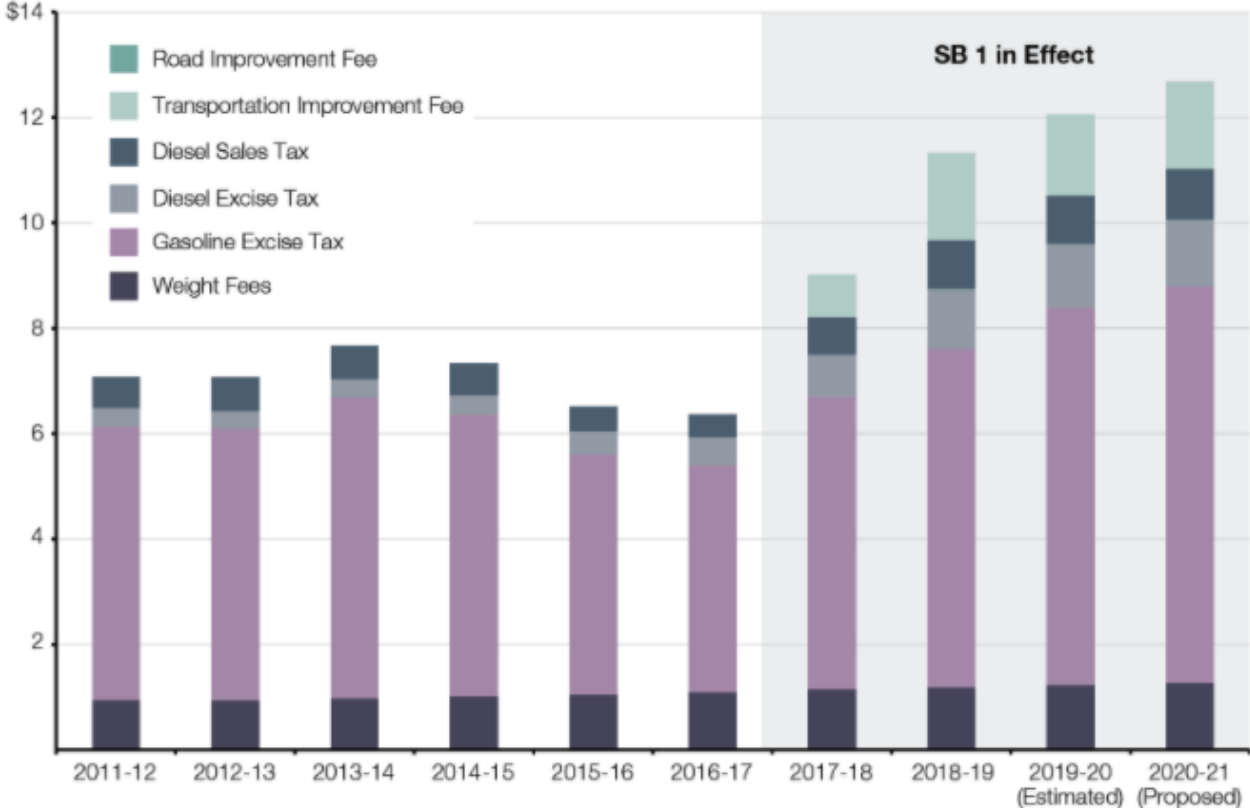
The Community Choice Energy Connection



Transportation Funding

State Transportation Revenues Have Increased

(In Billions)



SB = Senate Bill.

LAO



Source: <https://lao.ca.gov/Publications/Report/4149>

The replacement for the gas tax?

Road Usage Charge or VMT fee to replace gas tax



Transportation Policy – Local Government

- Updating 20th Century permitting rules & planning
- Stop permitting new gas stations like they are ice cream stands
- Expand EV charging infrastructure



Making EVs ubiquitous

- Access to EV charging for multi-unit dwellers



Making EVs ubiquitous

Visibility and access to public field EV charging



A word about the cost comparison



The Climate Center – Sustainable Mobility Program

- Climate-Safe California goals—to get to 80% below 1990 levels by 2030
- Phase Out Fossil Fuels Program
 - Sustainable Mobility Program
 - Achieving an approximate 70 to 85 percent drop in vehicle emissions by that time depending on other sectors – that means a LOT of EVs!

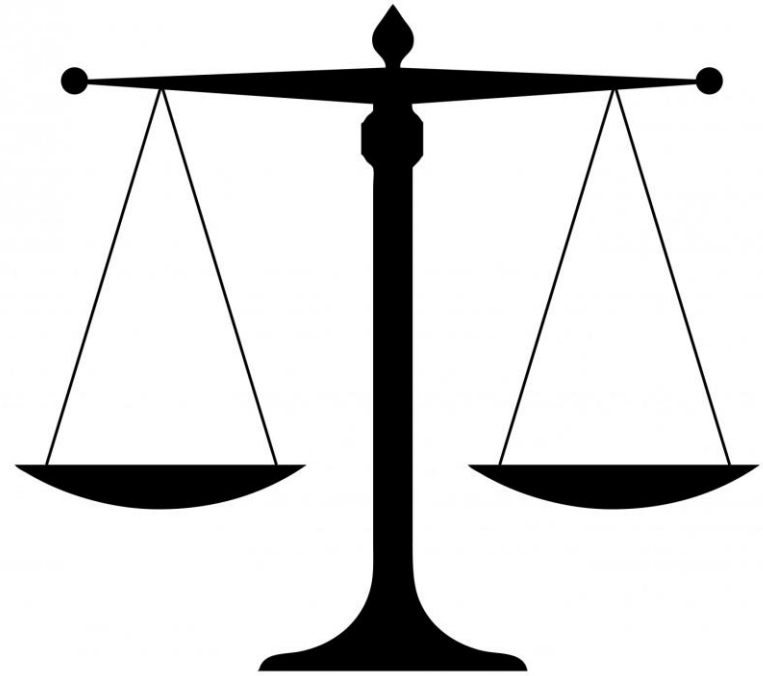
Definition

What does “sustainable mobility” mean?

“A transportation system that is not dependent on fossil fuels or other finite resources, is clean and non-polluting, and is a just system, accessible for everyone, where public spending is equitable, and stakeholders participate in decision-making.”

Sustainable Mobility - Principles

- Equitable, Accessible, Affordable,
- Safe
- Clean/Zero Emissions
- Public Participation in decision-making – Transportation Democracy!
- Budget priorities must align with climate, equity, and other policy goals



Public Transit

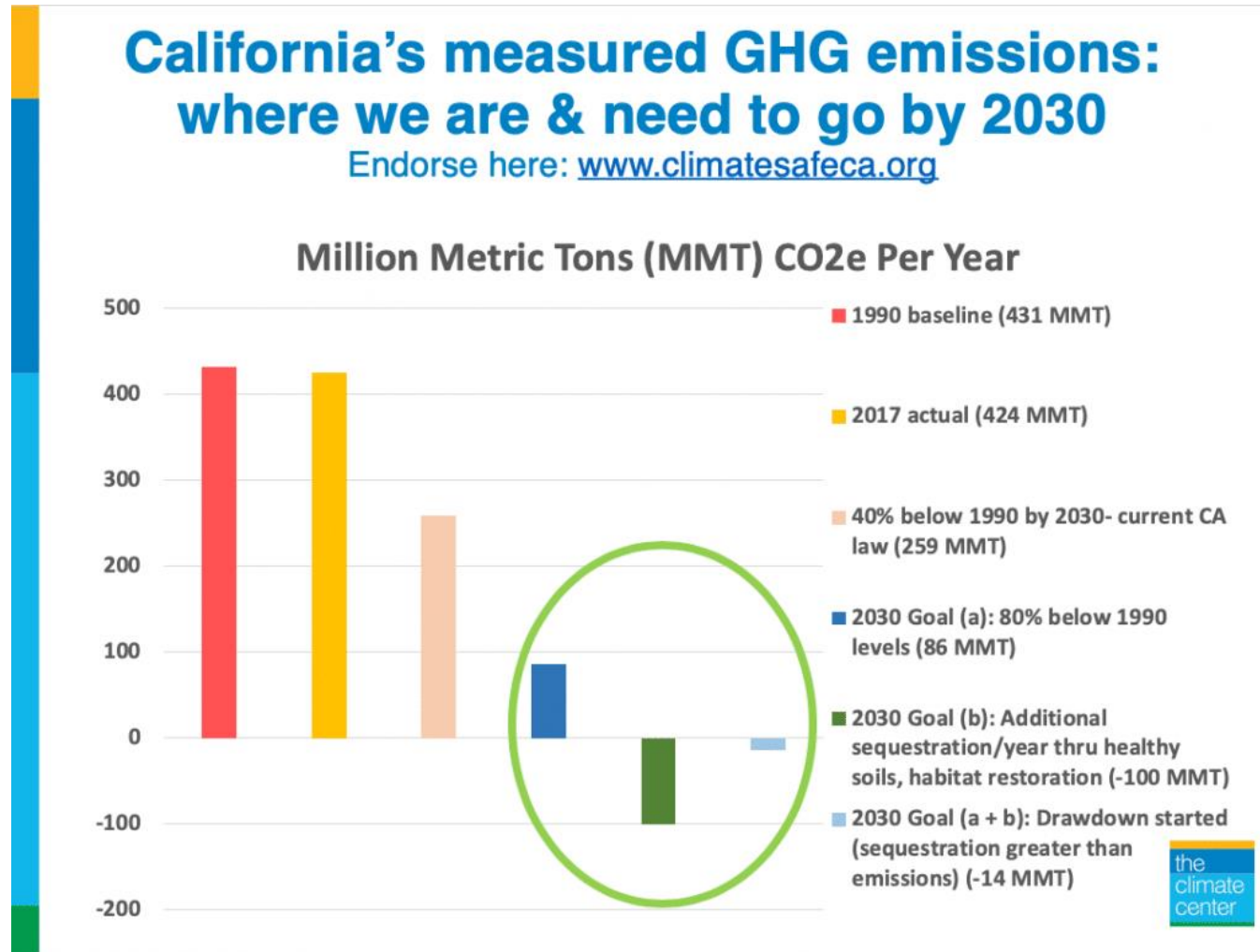


We all depend on public transit because we are dependent on the people who rely on transit to be where they are supposed to be... workers at hospitals, schools, grocery stores, and other service sector operations.

Climate Safe California

California's measured GHG emissions: where we are & need to go by 2030

Endorse here: www.climatesafeca.org



theclimatecenter.org/climatesafeca/

Change can happen fast!



NYC 1900



NYC 1910

Thank you!



Woody Hastings

Energy Program Manager

The Climate Center

707-829-3460

woody@theclimatecenter.org