

### **Key Focus Areas**

CLIMATE



**PUBLIC SAFETY** 



**ELECTIONS** 



**EDUCATION** 



**ECONOMIC OPPORTUNITY** §



HOUSING



**TRANSIT** 



HEALTH







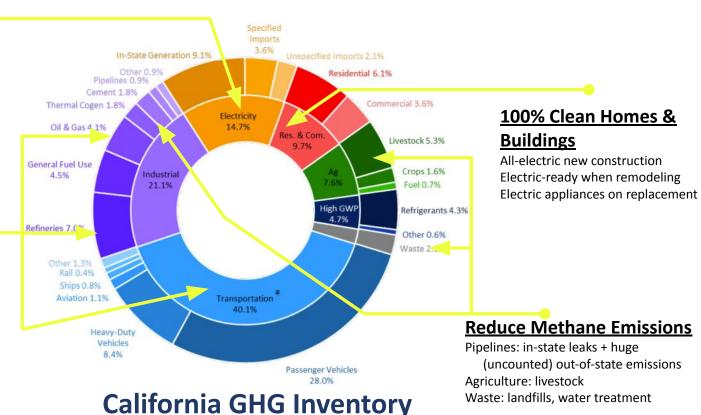
### **The Big Picture for Climate Action**

#### **100% Clean Electricity**

Energy storage
Dispatchable clean energy
Better integration of distributed
energy resources
Resiliency

#### 100% Clean Transportation

EV adoption Charging infrastructure Purer, low carbon fuels Cleaner air!



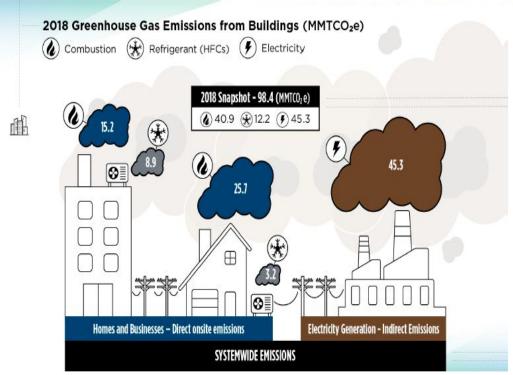


### **Building Decarb**

### **Challenges**

- Slow adoption rate
  - Appliances turn over less frequently than cars
- 14 M existing homes
- 7.5 B square feet of existing commercial
- Building codes and reach codes - early stages
- Expensive

Figure ES-1: Sources of Building GHG Emissions and Potential 2030 Emissions



Source: California Energy Commission
CA Building Decarbonization Assessment Final Report

## **Building Gas Bans** & Electrification **Reach Codes**

Gas ban

Adopted in the California Bay Area



&P Global Market Intelligence; Building Decarbonization Coalition; Sierra Club; California Energy Commission



### **Solutions**

#### **Mandates**

- Building codes and reach codes for new construction
- Appliance bans / replace-on-burn-out ordinances
  - Force conversion as people buy new
  - BAAQMD is considering a ban on gas appliances
- Building Performance Standard
  - push owners of large buildings replace





### **Solutions - Incentives**

- Appliance rebates
- Direct install programs
  - Subsidized retrofits with economies of scale
  - Sacramento Municipal Utility District (SMUD)
    - Programs to upgrade all low-income buildings by 2030
- TECH Programs
  - Program for refurbishment
  - Training for workers to learn how to install
- BUILD Programs
  - Initiative for new construction



Split system heat pump HVAC system: outdoor & indoor units



### **Solutions**

### Low-cost financing

- SB 1112 Tariff On-Bill Investment Programs
- Some retrofits are cost-effective
  - Saves money on energy bills
  - Upgrades through utility investment to clean choices
- Building owners will shoulder much of the upgrade costs
  - Leverage state funds to subsidize financing costs





### **Solutions**

### Market development support

- SB 68
- Requires best practices related to building decarb challenges
- Build market awareness in the public
- Improved training & product availability for installers
- Streamlined permitting
- BUILD and TECH Programs expand the trained workforce and community education on building decarb



# Tariff On-bill Financing for Building Decarbonation

- Allows ratepayers to make upgrades in their homes through utility investment to clean choices
- Utility financing
  - Proven model that is currently used to accelerate adoption of energy and water efficiency measures



### **State of California Net Zero**

- SB 1203 will set a target for all state agencies to achieve zero net greenhouse gas
- Requires state agencies to publish inventories of their current emissions, establish interim targets, and create a plan for achieving these targets
- Leverages the state's procurement power to jumpstart clean tech solutions

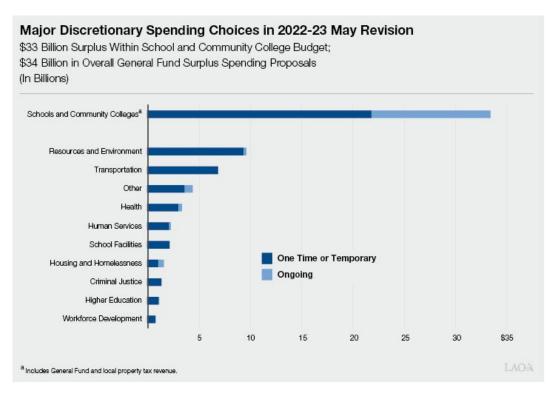




### **State - Budget**

### **Governor's Proposal**

- \$650 M for direct install for low income
- \$300 M for appliance rebates
- Additional \$1 B for ???





### **State - Other Efforts**

- CARB's 5 year Scoping Plan
  - New Construction
    - Residential all electric by 2026
    - Commercial all electric by 2029
  - Existing building stock
    - 80% appliances sales are electric by 2030
    - 100% residential appliances sales are electric by 2035
    - 100% commercial appliances sales are electric by 2045
- Go Green
  - CA Alternative Energy and Advanced Transportation Financing Authority (CAEATFA)'s low cost financing program for electrification and decarb upgrades

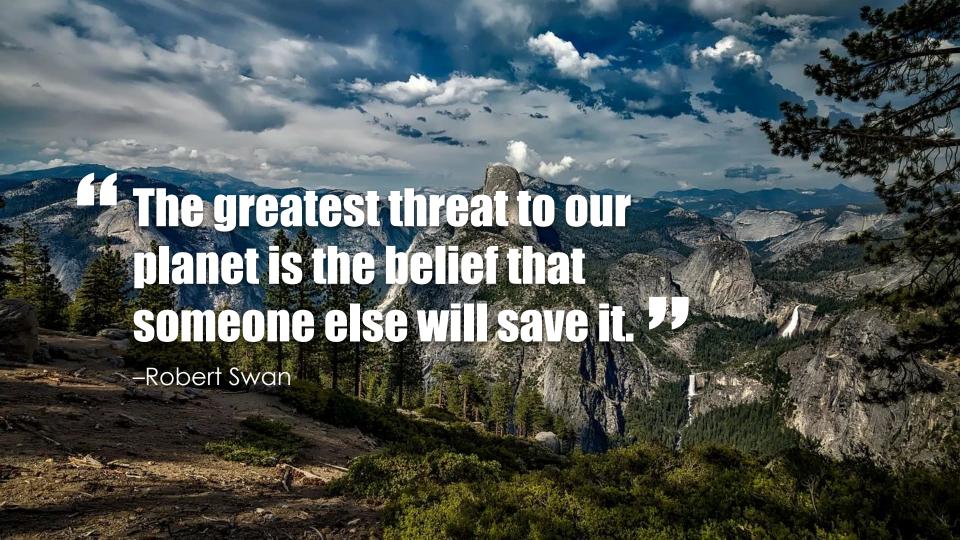




### **Greening the Buildings**

- Cement and concrete bills to lower industrial emissions
  - SB 596 and SB 778
- Mass timber
  - San Mateo County Civic Building
    - First civic building in the nation
  - Affordable housing
    - First Community Housing (San Jose)
  - Google and Sobrato





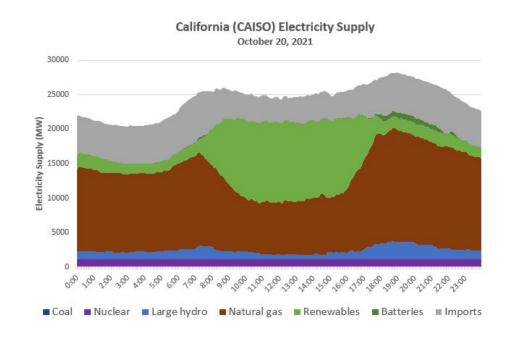
# Thank you!

Senator Josh Becker sd13.senate.ca.gov

# Appendix

### **24/7 Clean Energy Reporting**

- Still highly dependent on fossil gas at night
- California must get to 100% clean energy even when the sun isn't shining and the wind isn't blowing
- SB 1158 makes improvements to the rules that govern how utilities report their energy sources so that we can ensure rapid progress toward a 24/7 clean energy





### **Transmission Acceleration**

- Transmission lines are the 'electricity superhighways' of the grid
- Cannot meet the goals of SB 100
  - To reach 100% renewable or zero carbon electricity by 2045
- SB 887 will accelerate the construction and permitting of that needed transmission



### **Infrastructure Authority**

- California needs to build a massive amount of new clean energy generation and storage to get it to the cities
- A centralized authority would cut some of the risk and delays that add costs
- Streamline permitting



### **Surcharge on Fossil Fuel Financers**

 Impose an additional tax on the California profits of financial institutions that provide more than \$1B annually in financing (globally) to fossil fuel companies in order to help fund the state's efforts to improve resiliency to the climate impacts caused by that financing



### **Buy Clean California Concrete**

- Adds concrete to the Buy Clean program to leverage the state's purchasing power in deploying low carbon technologies and best practices across the cement-concrete supply chain
- Leverages the state's purchasing power to encourage transition

