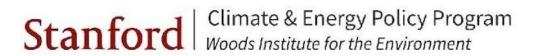
Presentation to California Climate Policy Summit 2025

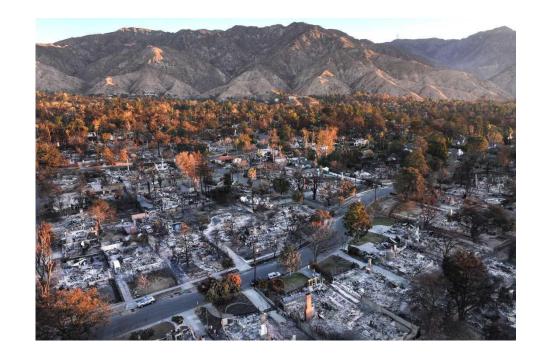
California's Cap-and-Trade Reauthorization and Affordability: Emerging Challenges and Potential Solutions

#### Michael Wara



April 22,

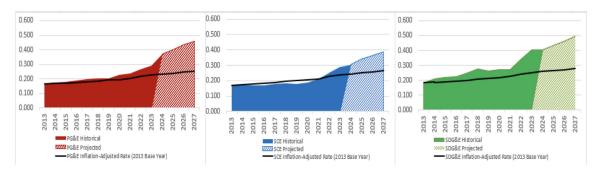
- Affordability is the key challenge
- How do we decarbonize (and therefore how should we spend money)?
- Climate credit redesign
- Increased allocation of allowances to utilities
- Subsidies to buy down cost of needed electric system investments



 Affordability is the key challenge

#### 2024 SENATE BILL 695 REPORT

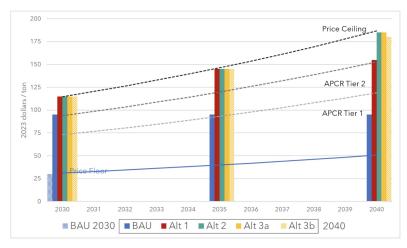
#### PG&E, SCE, and SDG&E Electric Bundled Residential Average Rates (\$/kWh)



CPUC SB695 Affordability Report (2024)

 Affordability is the key challenge

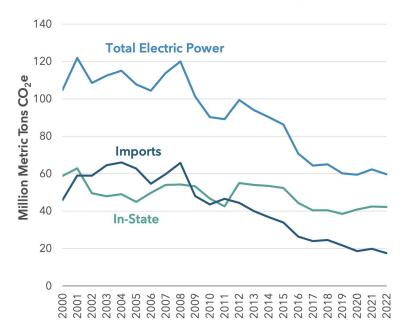
#### **Modeled Prices Under Different Scenarios**



Allowance Supply and Demand in California's Cap and Trade Market: Initial Results,
Bushnell et al (2024) for CARB

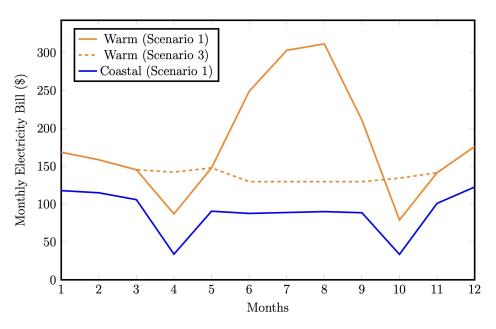
 How do we decarbonize (and therefore how should we invest money)?

Figure 10. GHG Emissions from the Electricity Sector.



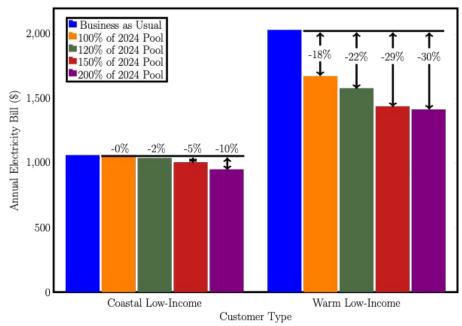
CARB GHG Emissions Trends Report (2024)

Climate Credit redesign



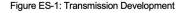
Reallocating the Residential California Climate Credit to Low-income Customers, Smith, Mastrandrea, and Wara (2024)

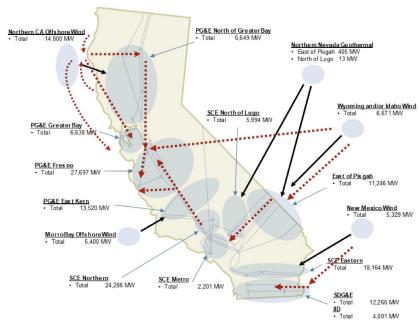
 Increased allocation of allowances to utilities



Smith, Macomber, Ahumada-Paras, Mastrandrea and Wara *in prep* 

 Subsidies to buy down cost of needed electric system investments





CAISO 20-year Transmission Outlook Update (2024)

- Affordability is the key challenge
- How do we decarbonize (and therefore how should we spend money)?
- Climate credit redesign
- Increased allocation of allowances to utilities
- Subsidies to buy down cost of needed electric system investments

#### **Conclusions**

- Decarbonization requires
  - 100% clean power
  - Electrification of end uses
- Reauthorization will likely raise cap-and-trade costs
- California should use cap-and-trade money to buy down the transition cost
- That will make both electricity and decarbonization more affordable to Californians
- That will help ensure that cap-and-trade is economically and politically sustainable