

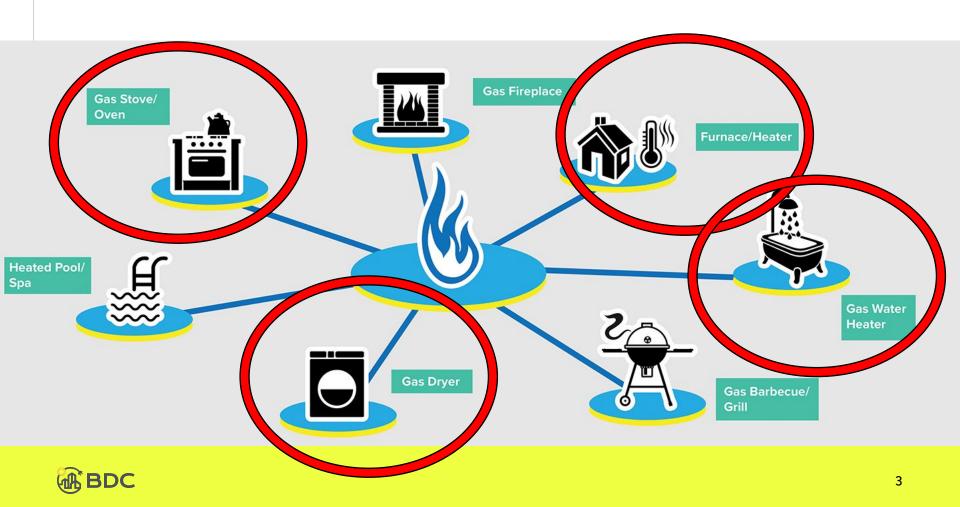


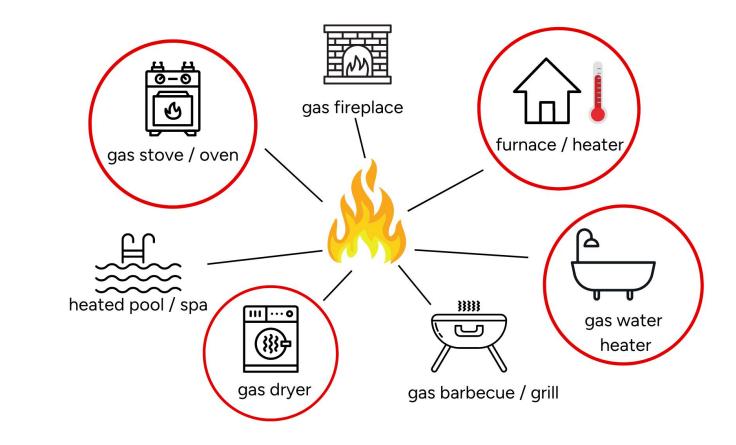
## The IRA and Contra Costa County

Panama Bartholomy Building Decarbonization Coalition

May 18, 2023



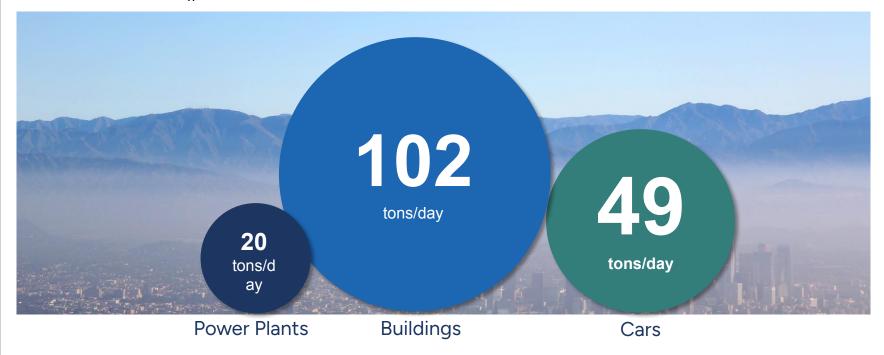




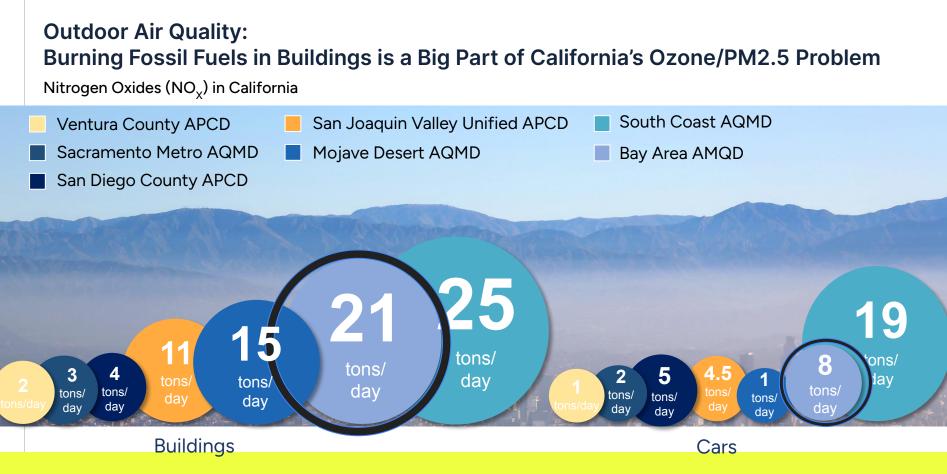


### Outdoor Air Quality: Burning Fossil Fuels in Buildings is a Big Part of California's Ozone/PM2.5 Problem

Nitrogen Oxides (NO<sub>x</sub>) in California, 2020 forecast











Environment > Climate crisis Wildlife Energy Pollution Green light



#### Pollution

BDC

One in eight cases of asthma in US kids caused by gas stove pollution - study

## We import



# of the natural gas we use.





≡

## PRESS-TELEGRAM <sup>\*</sup> °

## Your natural gas bills to jump 'shockingly high' across region, SoCalGas warns

The cold snap, the drought and Russia's war in Ukraine are fueling huge winter rate hikes





DC

FILE - Pipes at the landfall facilities of the 'Nord Stream 2' gas pipeline in Lubmin, northern Germany, Tuesday, Feb. 15, 2022.

# WHY NOW?

GAS INFRASTRUCTURE LIFETIME 60 – 80 YEARS The New Hork Eimes

### Carbon Dioxide Emissions Hit a Record in 2019, Even as Coal Fades

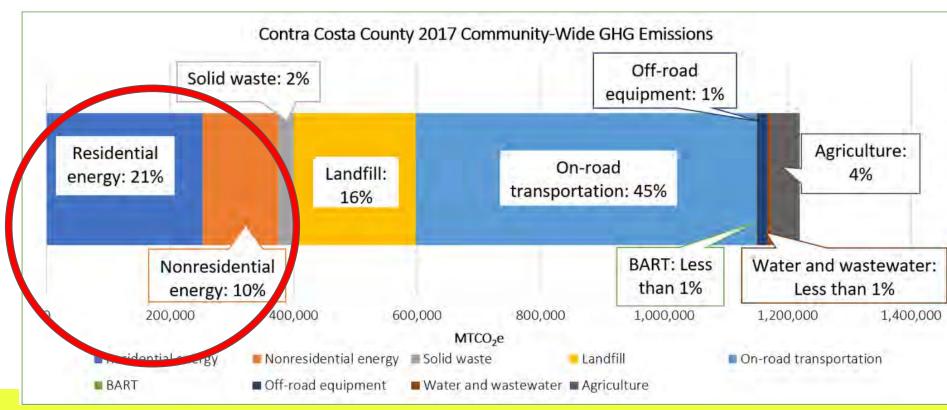


A pump jack in Stanton, Tex. The United States generates 14 percent of global carbon dioxide emissions. Brandon Thibodeaux for The New York Times

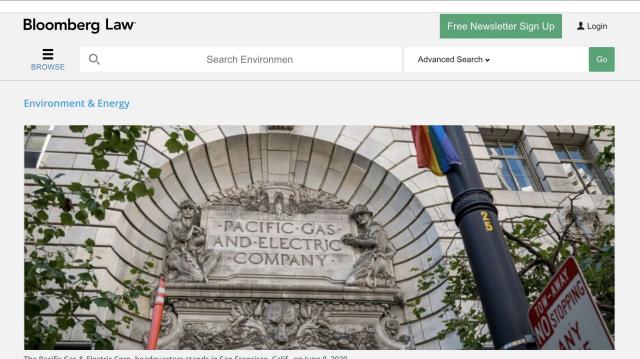
"The new data shows that natural gas, which is less polluting than coal but still a fossil fuel, has become the biggest driver of emissions growth globally in recent years."



## **Community Inventory Results**







The Pacific Gas & Electric Corp. headquarters stands in San Francisco, Calif., on June 9, 2020. Photographer: David Paul Morris/Bloomberg

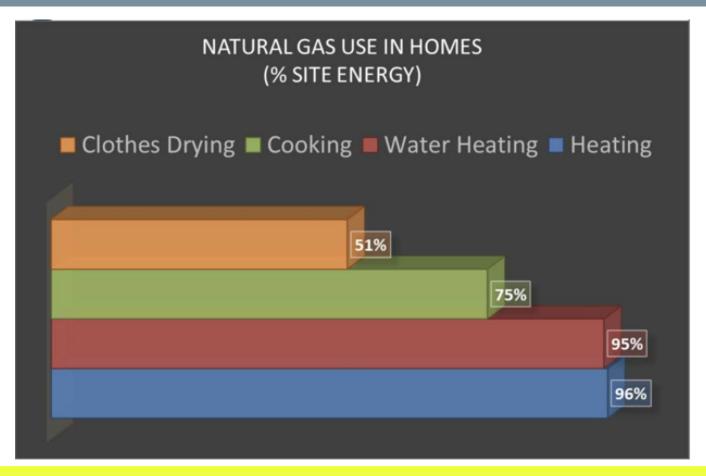
# PG&E First Major Utility to Support State Bans on Natural Gas

BDC

June 25, 2020, 12:15 PM

🕞 Listen 🛱 🖾

🖪 in 🄰





## **\$80 Billion for Buildings....maybe**

#### Home Electrification and Energy Efficiency Rebates

- Sec. 50121: Home energy performance-based, whole house rebates; Sec. 50122: High-efficiency electric home rebate program; Sec. 50123: State-based home energy efficiency contractor training grants
- Dollar amount: \$9 billion
  - Whole-house energy efficiency retrofit rebates \$4.3 billion
  - Electrification rebates \$4.5 billion
  - Training for contractors \$0.2 billion

#### Affordable Housing Resilience and Efficiency Investments

- Sec. 30002: Improving energy efficiency or water efficiency or climate resilience of affordable housing
- Dollar amount: \$1 billion

#### Efficient Building Code Adoption Grants

- Sec. 50131: Assistance for latest and zero building energy code adoption
- Dollar amount \$1 billion

#### Federal Building Investments

- Sec. 60502: Assistance for federal buildings
- Dollar amount: \$0.25 billion

#### Greenhouse Gas Reduction Fund

- Sec. 60103: Greenhouse Gas Reduction Fund
- Dollar amount: \$27 billion

#### Clean Energy Loan Guarantees

- Sec. 50141: Funding for Department of Energy Loan Programs
  Office
- Dollar amount: \$3.6 billion (and \$40 billion in loan guarantee authority)

#### Building Tax Credits

- Residential Clean Electricity Tax Credit
  - Sec. 13302: Residential clean energy credit
  - Dollar amount: \$22.022 billion
- Residential Energy Efficiency Tax Credit
  - Sec. 13301: Extension, increase, and modifications of nonbusiness energy property credit
  - Dollar amount: \$12.451 billion
- New Energy Efficient Home Tax Credit
  - Sec. 13304: Extension, increase, and modifications of new energy efficient home credit
  - Dollar amount: \$2.043 billion
- Commercial Energy Efficiency Tax Deduction
  - Sec. 13303: Energy efficient commercial buildings deduction
  - Dollar amount: \$0.362 billion
  - Defense Production Act

#### Manufacturing

- Sec. 30001: Enhanced use of Defense Production Act of 1950
  - Dollar amount: \$0.5 billion

#### Environmental Justice and Community Resilience

- Climate Pollution Reduction Grants
  - Sec. 60114: Climate pollution reduction grants
  - Dollar amount: \$5 billion
- Environmental and Climate Justice Block Grants
  - Sec. 60201: Environmental and Climate Justice Block Grants
  - Dollar amount: \$3 billion



# Home electrification & energy efficiency rebates

#### High-efficiency electric home rebate program – \$4.5 billion

- Provides funding through State Energy Offices and Tribes for rebates for electric appliances.
- Rebates 50% or 100% of project cost, up to measure-specific caps:
  - \$8,000 for heat pump
  - \$1,750 for a heat pump water heater
  - \$840 for an electric stove
  - \$840 for an electric clothes dryer
  - \$4,000 for an upgraded breaker box
  - \$2,500 for upgraded electrical wiring
  - \$1,600 for insulation, ventilation and sealing
  - Total home cap of \$14,000 cap. This program is income tested at 150% AMI.







## Home electrification & energy efficiency rebates

Home energy performance-based, whole house rebates - \$4.3 billion

 State energy offices whole-home rebates for retrofits of up to \$4,000/home for market rate customers, \$8,000 for LMI homes (for energy savings >35%). No income testing.



# Home electrification & energy efficiency rebates

State-based home energy efficiency contractor training grants - \$250 million

- Financial assistance to States to develop and implement a State program which shall provide training and education to contractors
- A State may use amounts received
  - to reduce the cost of training contractor employees;
  - to provide testing and certification of contractors trained and educated under a State program
  - to partner with nonprofit organizations to develop and implement a State program.





## Building tax credits

## • Residential Clean Electricity Tax Credit

- 30% credit for eligible expenditures for on-site residential solar electric, solar water heating, fuel cell, small wind energy, and geothermal heat pumps through the end of 2032.
- Residential Energy Efficiency Tax Credit
  - 30% of eligible purchases. Maximum annual credit of \$1,200 with exception of \$2,000 for heat pumps.



# Direct-Pay Tax credits for Local Governments

Production Tax Credit (PTC): facilities that generate electricity as a result of wind, solar, biomass and geothermal projects that begin construction before January 1, 2025.

Investment Tax Credit (ITC): small wind, solar, microgrid controller and energy storage system projects that begin construction before January 1, 2025.

Eligible entities: 501(c)(3) organizations like hospitals and private colleges, 501(c)(4) **social welfare organizations**, and 501(c)(6) trade associations, **cities, counties, public school districts**, public universities, and other similar entities.





## Greenhouse Gas Reduction Fund

### Greenhouse Gas Reduction Fund - \$27 billion

- EPA for a greenhouse gas reduction green bank initiative divided into three categories of grants to local entities to provide loans, grants, technical assistance and other financing:
  - \$7 billion in competitive grants for low-income and disadvantaged communities to utilize zero-emission technologies.
  - \$11.97 billion for competitive grants for projects that reduce or avoid greenhouse gas emissions.
  - \$8 billion in competitive grants for low-income and disadvantaged communities for climate-related activities.



## Environmental justice & community resilience

### Climate pollution reduction grants - \$5 billion

- Planning Grants: A grant to at least one eligible entity in each State and each major Metropolitan area for the costs of developing a plan for the reduction of greenhouse gas air pollution.
- Implementation Grants: Competitive grants to eligible entities to implement the plan form the planning Grant
  - California Air Resources Board
  - Bay Area Air Quality Management Board



## Environmental justice & community resilience

### **Environmental and Climate Justice Block Grants - \$3 billion**

- EPA provides grants of up to three years to local governments, universities or community-based nonprofits (or partnerships of those entities) for a variety of environmental projects benefiting disadvantaged communities.
- Eligible activities include community-led pollution monitoring, prevention, and remediation; low- and zero-emission resilient technologies and related infrastructure; workforce development tied to GHG reduction; mitigating climate and health risks from urban heat islands; climate resilience and adaptation; and reducing indoor air pollution.



## Recommendations

- Advocate at:
  - California Energy Commission
  - California Air Resources Board
  - Bay Area Air Quality Management District
- Form Partnerships to apply for EJ Block Grants
- Start working with installers in your community now
  - Provide training
  - Streamline permitting
- Work with MCE
- Educate residents about programs
  - $\circ \ \text{Switchison.org}$







## Thank you!

Panama Bartholomy Building Decarbonization Coalition