DOCKETED	
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Behind theThermostat?

Lead Commissioner Workshop to Launch Distributed Energy Resources in California's Energy Future Proceeding

California Energy Commission

June 1, 2022

Panama Bartholomy

Building Decarbonization Coalition



California Community Choice Association

Sonoma Clean Power







TerraVerde



Greenbank Associates















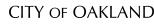
























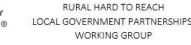












RHTR









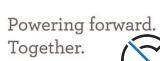










































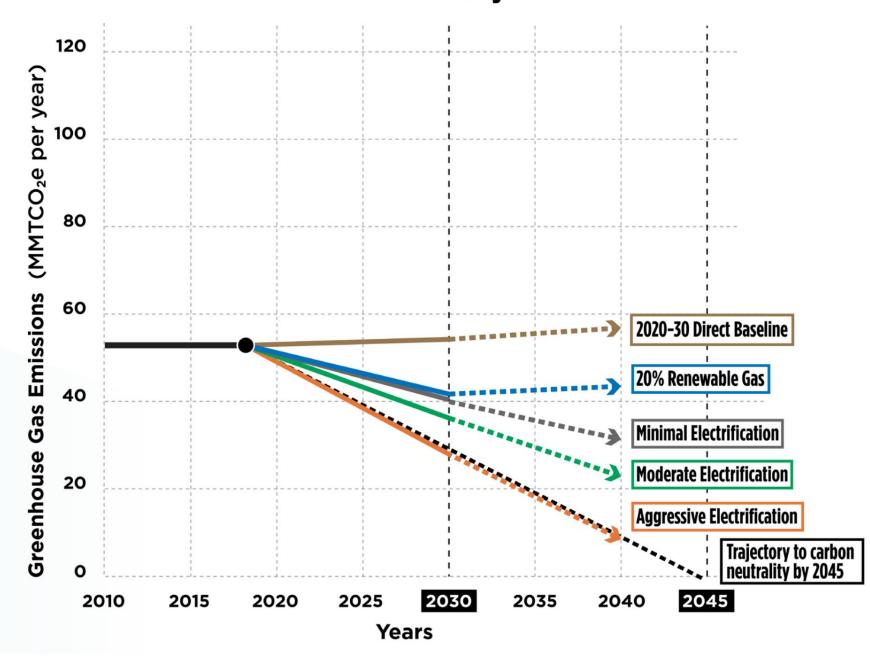






Figure ES-7: Direct Straight-Line Building Emission Trajectories of Scenarios Compared to 2045 Carbon Neutrality





- Goal 1: Build customer, builder, contractor and policy-maker awareness and interest in decarbonization.
- Goal 2: Ensure that customers receive a good value from adopting building decarbonization measures.
- Goal 3: Ensure that building decarbonization provides a better value to builders and contractors than fossil-fuel heating.
- Goal 4: Prepare supply-chains and delivery agents to meet rising demand for emission-free building technologies with a quality product.
- Goal 5: Align Policy to meet other goals.

TECH CLEAN CALIFORNIA



CA needs to aggressively scale heat pumps to meet Climate Goals

SB 32:

40% GHG reduction below 1990 levels by 2030

CEC 2021 IEPR Target:

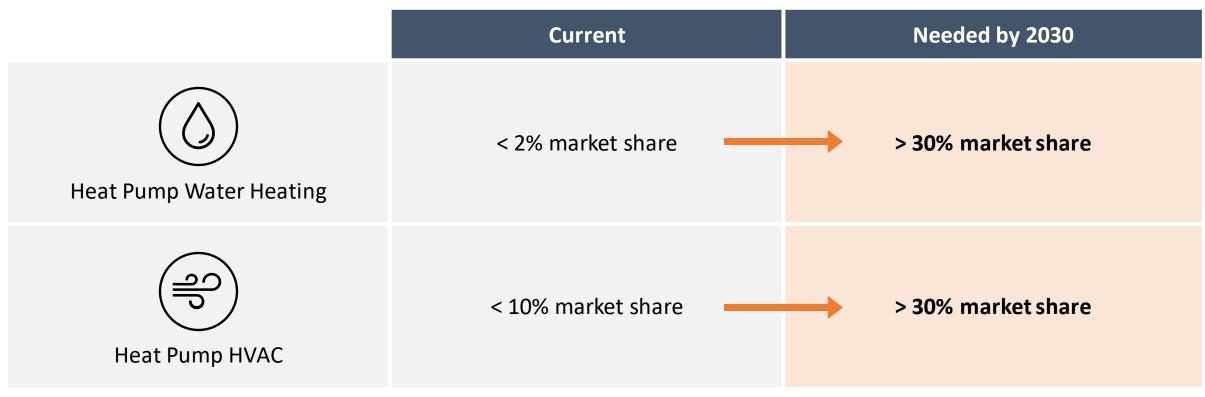
6 million heat pumps installed by 2030

SB 100:

100% clean electricity by 2045

Executive Order B-55-18:

Economy-wide carbon neutrality by 2045 (In July 2021, Governor Newson directed CARB to review feasibility of carbon neutrality by 2035)

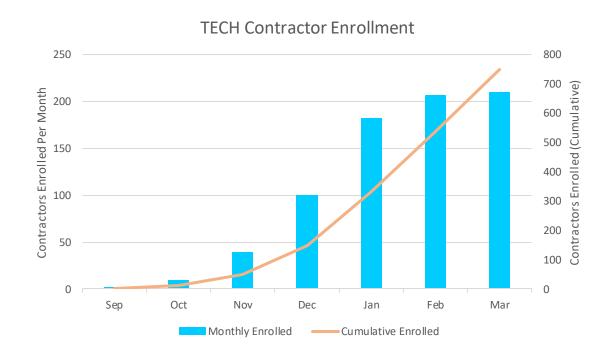


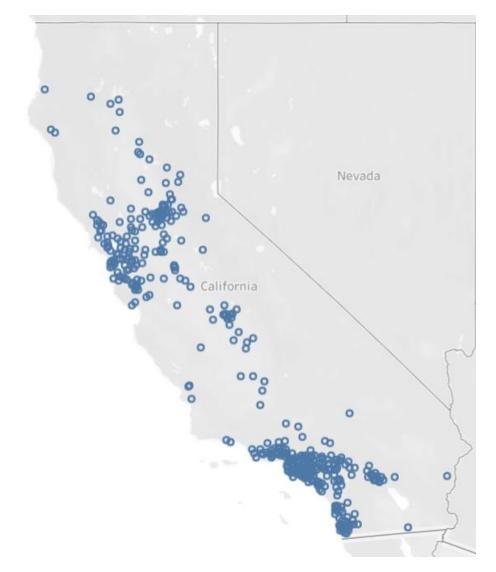
Estimates based on RASS 2019 data: https://webtools.dnv.com/CA_RASS/

Market Engagement

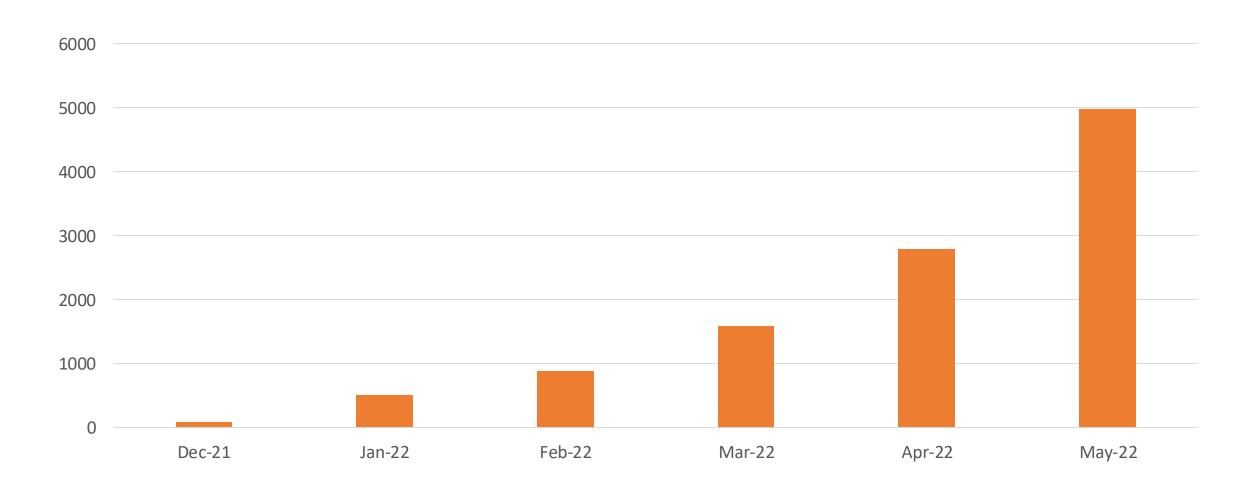
Progress to date:

- Enrolled over <u>750</u> contractors, **412** active participants
- Engaged major manufacturers and distributors on enrollment, marketing and training

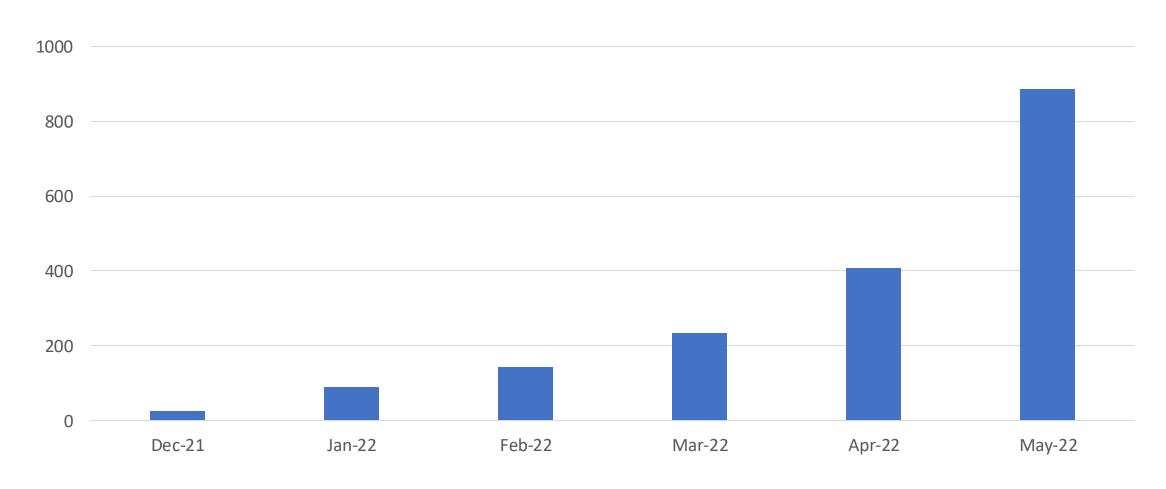




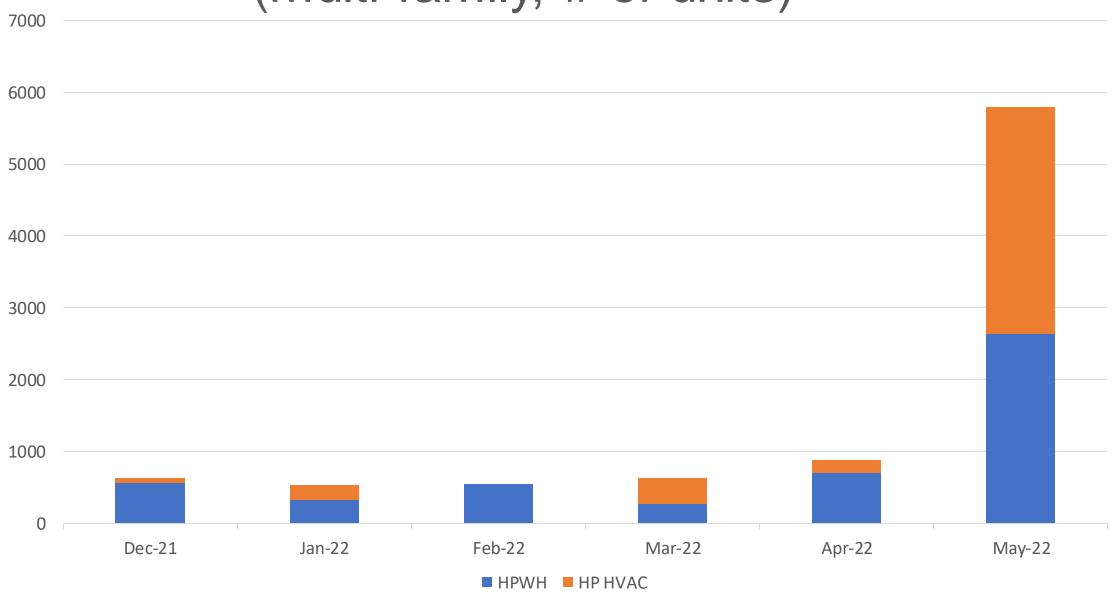
TECH HP HVAC applications by month (single family)



TECH HPWH applications by month (single family)



TECH Heat Pump application by month (multi-family, # of units)



Goal 1: Build customer, builder, contractor and policy-maker awareness and interest in decarbonization.

Fund a large scale consumer education campaign

Goal 2: Ensure that customers receive a good value from adopting building decarbonization measures.

- Electricity rate reform
- Tariffed on bill financing
- Well designed incentive program

Goal 3: Ensure that building decarbonization provides a better value to builders and contractors than fossil-fuel heating.

Well designed mid-stream incentives (e.g. TECH)

Goal 4: Prepare supply-chains and delivery agents to meet rising demand for emission-free building technologies with a quality product.

- Policy certainty
- Electrical panel upgrade program

Goal 5: Align Policy to meet other goals.

- Demand forecasts in alignment with our electrification goals
- Stop public subsidies of gas appliances and infrastructure
- All-electric new construction code
- Pragmatic gas appliance phase out dates

FUND TECH!!



Thank you

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