

Report on Draft Clean Energy Roadmap for Existing Buildings

*BOS Sustainability Committee
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Achieving State Greenhouse Gas Reduction Targets Will Require Going All-Electric

- In 2019 residential structures accounted for 19% of Contra Costa County's total GHG emissions
- Meeting California's statewide GHG emission reduction targets will require a fuel source transition in residential buildings from natural gas to all-electric

Proportion of GHG Emissions, 2019

Sector	2019
Transportation	47%
Energy - Residential	19%
Energy - Nonresidential	9%
Solid waste	22%
Agriculture	4%
Off-road equipment	5%
Water and wastewater	Less than 1%
BART	Less than 1%
Land use and sequestration	-7%
Total Annual MTCO ₂ e	100%
Note: Total may not equal the sum of individual rows due to rounding.	

Source: Updated 2024 CAAP

Roadmap Progress To Date

- Transitioning Existing Buildings to All-Electric Cohort (Fall 2021 – Summer 2022)



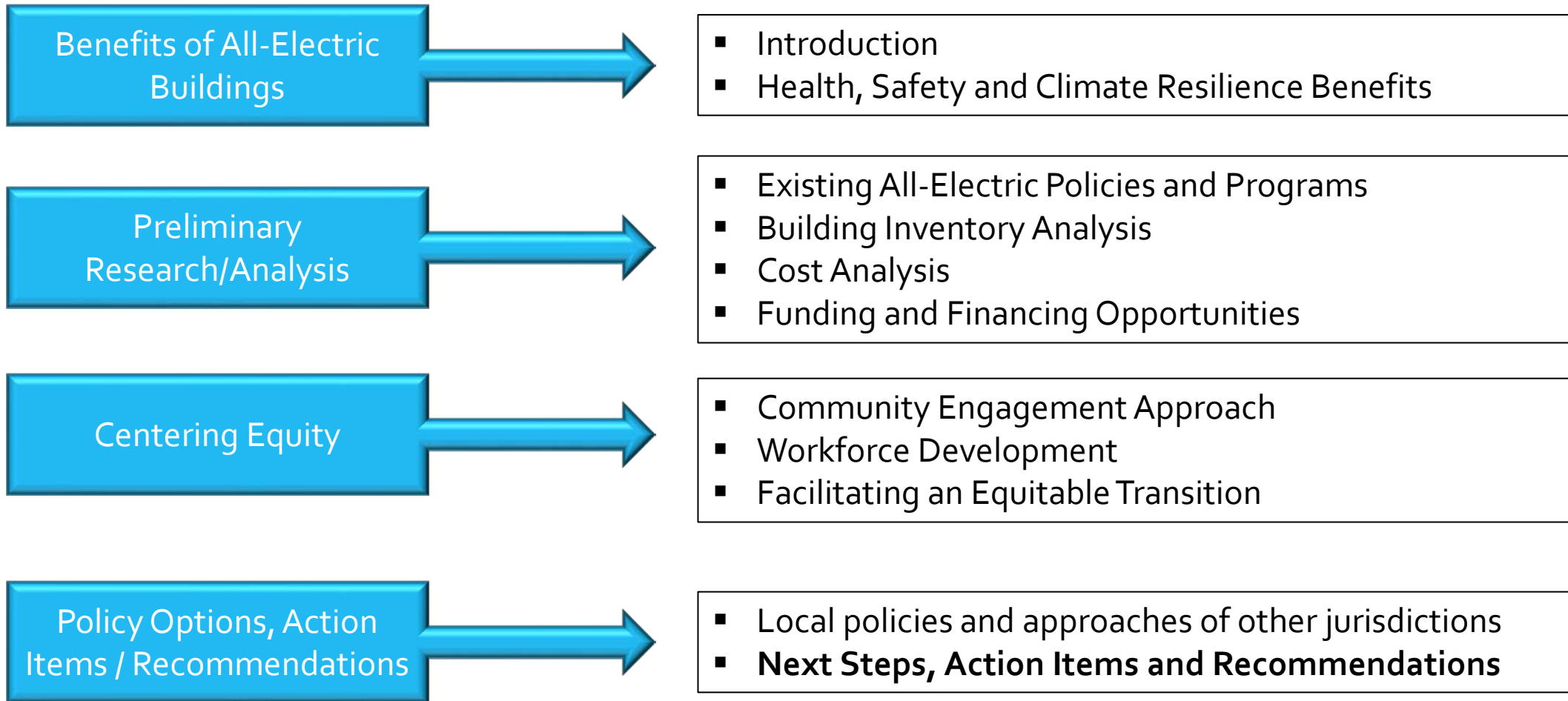
- Research and Initial Roadmap Development (Fall 2022)
- Presented Roadmap Outline to Sustainability Commission (December 2022 & April 2023)
- Presented Updated Roadmap Outline to Sustainability Committee (May 2023)
- Updated 2024 Climate Action and Adaptation Plan (CAAP) includes **CAAP Strategy BE-2** that includes implementation action to **create a detailed County roadmap to convert existing homes and businesses to use low-carbon or carbon-free appliances.**

Clean and Efficient Built Environment (BE): CAAP Strategy BE-2

BE-2: Retrofit existing buildings and facilities in the unincorporated county, and County infrastructure, to reduce energy use and convert to low-carbon or carbon-free fuels.

- **Create a detailed County roadmap** to convert existing homes and businesses to use low-carbon or carbon-free appliances. The roadmap should include steps to support converting buildings to rely on low-carbon or carbon-free energy using an equitable framework that minimizes the risk of displacement or significant disruptions to existing tenants. (COS-A14.7)

Clean Energy Roadmap for Existing Buildings (focuses on residential Buildings)



Next Steps, Action Items and Recommendations

Regional and State Collaboration

Work with the County's Legislation Committee and Board of Supervisors to develop a policy framework that allows staff to establish new and/or expand existing relationships with regulatory agencies to support the goal of transitioning existing buildings to all-electric. It would enable staff to formally participate in public hearings, provide comments during the regulatory decision-making process, and petition for rulemaking from regulatory agencies like the California Energy Commission (CEC). It also includes collaborating with the investor-owned utilities (IOUs), such as PG&E, and Community Choice Aggregators (CCAs), such as MCE that service our region to gain a better understanding of the existing gas distribution system as well as explore the process and feasibility of decommissioning gas lines at a neighborhood/community scale.

Implementation Timeline: 3-6 Months for Adoption of Policy Framework

Next Steps, Action Items and Recommendations...continued

Additional Analysis

Conduct additional analysis to expand on the work presented in this roadmap. This includes an expanded building inventory that will provide more data on the condition of the existing building stock and more research on the costs of transitioning existing buildings to all-electric in the County.

Implementation Timeline: 6-12 Months to complete a building inventory and cost analysis. Study to be completed to determine the residential building types that would be most cost-effective to retrofit in the County. \$100K already approved for allocation by County under its Energy Efficiency and Conservation Block Grant for consultant to complete study.

Next Steps, Action Items and Recommendations...continued

Outreach and Engagement

A specific outreach and engagement strategy is needed to communicate and collaborate with the residents of Contra Costa County that ensures that historically marginalized and unrepresented communities have a voice in planning for a clean energy transition. The roadmap outlines a specific framework for staff to follow to ensure that efforts around transitioning existing buildings to all-electric extend to all unincorporated communities throughout the County. This includes working with community-based organizations to engage and collaborating with our communities to further develop the various strategies that will provide better health outcomes and a more resilient future.

Implementation Timeline: *No funding is allocated to implement this recommendation. Staff will look to leverage other existing programs, funding opportunities to determine how to implement this action.*

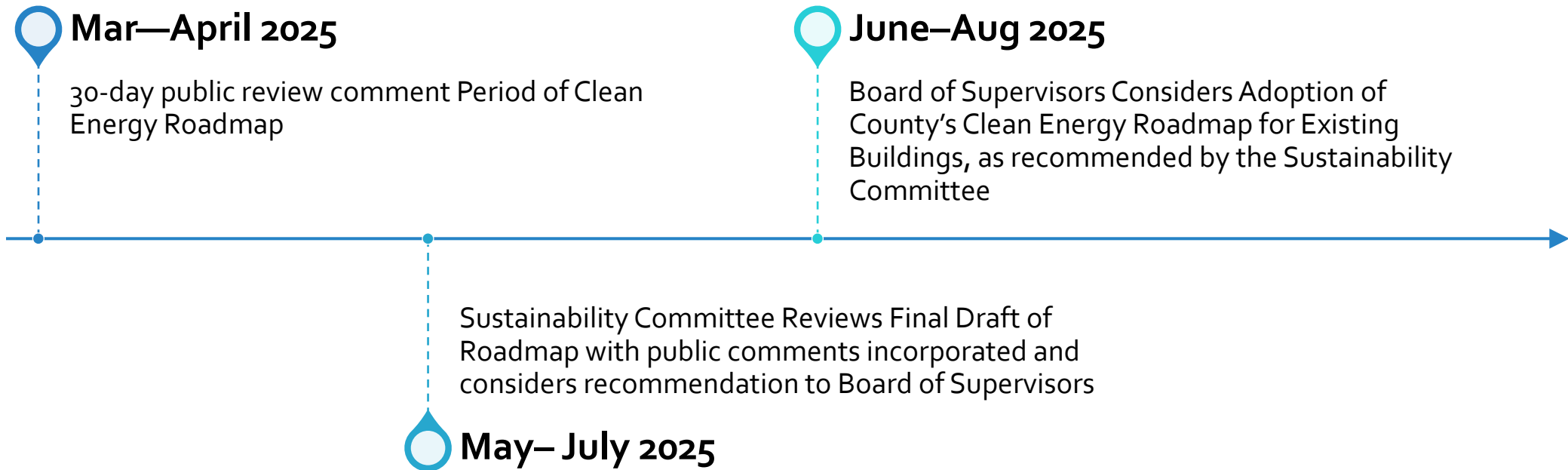
Next Steps, Action Items and Recommendations...continued

Other Actions

There are other actions included in the roadmap that will strengthen the County's ability to succeed in this transition. These actions include seeking approval from the Board of Supervisors (BOS) to continuously pursue funding for this effort as well as further analysis of the policy options and issues related to facilitating an equitable transition for converting existing buildings to all-electric. It also includes implementing pilot projects, where appropriate.

Implementation Timeline: Ongoing

Timeline For Adoption of County's Clean Energy Roadmap for Existing Buildings



QUESTIONS?



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