| File No. | 230080 | Committee Item No1 |
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| •        |        | Board Item No.     |
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| Cmte Board  |  |  |  |  |  |
| Motion Resolution Ordinance Legislative Digest Budget and Legislative Analyst Report Youth Commission Report Introduction Form Department/Agency Cover Letter and/or Report MOU Grant Information Form Grant Budget Subcontract Budget Contract/Agreement Form 126 – Ethics Commission Award Letter Application Public Correspondence |  |  |  |  |  |
| OTHER (Use back side if additional space is needed)   |  |  |  |  |  |
| Funding San Francisco Climate Action Report 11/2022   |  |  |  |  |  |
| FYI Referral 1/27/2023  |  |  |  |  |  |
| ENV Presentation 3/15/2023  |  |  |  |  |  |
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|   |  |  |  |  |  |
| Completed by: Brent Jalipa Date March 9, 2023 Completed by: Brent Jalipa Date   |  |  |  |  |  |



# Long-term Funding for Climate Action

SF Board of Supervisors Budget and Appropriation Committee March 15, 2023

**SAN FRANCISCO** 



**DEPARTMENT** 



Chapter 9 of the Environment Code – established goals and targets

Climate Action Plan - charts a pathway to achieve net-zero greenhouse emissions and works towards addressing racial and social equity, public health, economic recovery and resilience.



FY21-22 SFBOS appropriated funding to research sustainable funding mechanisms for equitable CAP implementation .

SFE contracted with UC Berkeley CLEE and Civic Makers

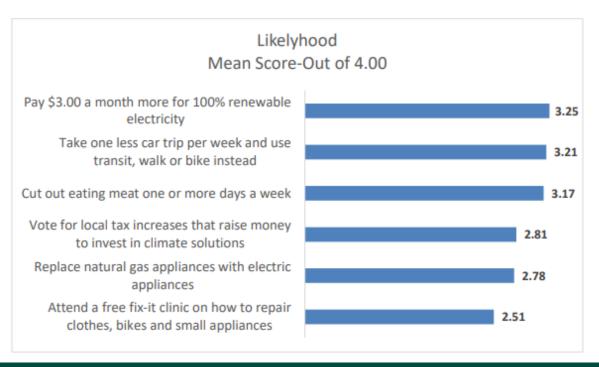


CivicMakers & SFE convened advisory groups

Strong support for general obligation bonds, mixed support for a parcel tax, and challenges for a gross receipts tax



# Realistically, how likely would you be to take any of the following actions related to climate change:





# Thank you!

**Cyndy Comerford**Climate Program Manager

San Francisco Environment Department

SFEnvironment.org

#### **SAN FRANCISCO**

# **ENVIRONMENT**

**DEPARTMENT** 

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# Funding San Francisco's Climate Action Plan

Center for Law, Energy & the Environment UC Berkeley School of Law

# Introduction to CLEE











Berkeley Law | Center for Law, Energy, & the Environment

# Our Approach

**CAP** analysis

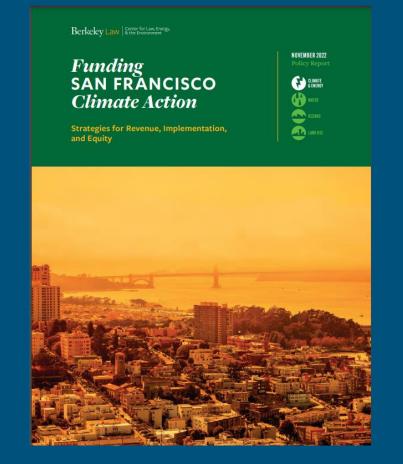
Revenue + implementation research

City + external expert interviews

Expert + stakeholder convenings

Technical advisory group

Participant review process



Berkeley Law | Center for Law, Energy, & the Environment

# **Assessing Costs**

| BY SECTOR   |      |                  |                   |  |
|---|------|------------------|-------------------|--|
|   | NO.* | TOTAL COST (LOW) | TOTAL COST (HIGH) |  |
| Energy Supply (ES)  | 5    | \$1.012 Billion  | \$10.12 Billion   |  |
| Building Operations (BO)                                    | 4    | \$503 Million    | \$5.03 Billion†   |  |
| Transportation/Land Use (TLU)                               | 7    | \$513 Million    | \$5.132 Billion   |  |
| Housing (H)   | 4    | \$210 Million    | \$1.101 Billion   |  |
| Production/Consumption (RPC)                                | 4    | \$2 Million      | \$20 Million      |  |
| Healthy Ecosystems (HE)                                     | 7    | \$51 Million     | \$511 Million     |  |
| Total   | 31   | \$2.291 Billion  | \$21.914 Billion  |  |
| * Number of CAP strategies within each sector               |      |                  |                   |  |
| † Includes residential buildings only, for scoping purposes |      |                  |                   |  |

These estimates are based solely on CAP cost ranges (\$0-1m, \$1-10m, \$10-100m, \$100-500m, \$500m+) and are likely conservative

# Recommendations

**Revenue**: Diversity of sources, scales, timelines, and spending flexibility

**Implementation**: City tools and staff to plan and lead investment

**Equity**: Throughout revenue generation, spending, and decision-making

| REVENUE        | Tools for raising revenue and accessing funds to implement CAP actions.  |
|----------------|--|
| IMPLEMENTATION | Processes and capacity expansions to support implementation of revenue strategies and CAP actions efficiently and effectively. |
| EQUITY         | Measures to integrate equity considerations throughout the funding, financing, and implementation processes.                   |

# Recommendations - Revenue (Bonds)

**Building decarbonization GO bond (\$300-\$500m)**: Direct grants for retrofits in lower-income housing stock; seed funds for city green bank to attract private capital

**Affordable housing GO bond expansion (\$50-100m)**: Funds for SF Housing Accelerator Fund to acquire/develop low-carbon, affordable units

**Transportation GO bond (\$300-\$500m)**: Funds for CAP-aligned transit and vehicle electrification investments in priority communities

- Could be structured as individual measures or an omnibus bond
- Building decarbonization funds likely can cover privately owned building electrification infrastructure if linked to a public purpose (likely affects tax exempt status)

# Recommendations - Revenue (Near term)

Gross receipts tax (\$25-50m annual): Funds for city staff, equity oversight bodies, workforce development initiatives

Parcel tax (\$12-25m annual): Funds for green infrastructure investments

# Recommendations - Revenue (Medium term)

**Congestion pricing (\$50-100m annual)**: Funds for CAP-aligned transit and vehicle electrification investments in priority communities or free/discounted Muni

**Parking pricing (\$40-60m annual)**: Funds for CAP-aligned transit and vehicle electrification investments in priority communities or free/discounted Muni

Commercial building carbon emissions fee (\$20-128m annual): Funds for all CAP building decarbonization measures

# Recommendations - Implementation

- Fund or reallocate City staff to accelerate CAP implementation and secure federal (IRA/IIJA) and state climate funds
- Convene formal cross-departmental committee of City employees
- Fund nonprofits and community-based organizations
- Establish fund for corporate and philanthropic partners

# Recommendations - Equity

- Create an independent community council for oversight
- Work with communities to identify high-priority projects
- Structure each of the large-scale GO bond programs to direct a portion of funds to:
  - Make investments through a community-scale competitive grant process
  - Deliver near-term capital improvements in priority communities
- Require racial equity impact assessments for major initiatives

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# Funding SAN FRANCISCO Climate Action

Strategies for Revenue, Implementation, and Equity

NOVEMBER 2022
Policy Report













# FUNDING SAN FRANCISCO CLIMATE ACTION

Strategies for Revenue, Implementation, and Equity

#### ABOUT THIS REPORT

The Center for Law, Energy & the Environment (CLEE) prepared this report for the San Francisco Department of the Environment as part of an initiative to develop an equitable revenue generation and implementation strategy for San Francisco's 2021 Climate Action Plan. As part of this initiative, CLEE conducted over fifty expert interviews and two stakeholder convenings with leaders across climate and municipal finance, green infrastructure and resilience investment, environmental justice, community development, San Francisco City departments, and other groups key to equitable climate action in the city and throughout California. This report is the result of that outreach and CLEE's own research and analysis. The recommendations in this report—the first steps in a broader public engagement and refinement process—are intended to guide City leaders as they implement the Climate Action Plan.

# ABOUT THE CENTER FOR LAW, ENERGY & THE ENVIRONMENT

The Center for Law, Energy & the Environment (CLEE) channels the expertise and creativity of the Berkeley Law community into pragmatic policy solutions to environmental and energy challenges. CLEE works with government, business, and the nonprofit sector to help solve urgent problems requiring innovative, often interdisciplinary approaches. Drawing on the combined expertise of faculty, staff, and students across the University of California, Berkeley, CLEE strives to translate empirical findings into smart public policy solutions to better environmental and energy governance systems.

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Template design and layout: Jordan Rosenblum

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Adobe Stock

The San Francisco Department of the Environment engaged the Center for Law, Energy & the Environment (CLEE) at UC Berkeley School of Law to develop this report for the purpose of identifying and refining viable strategies and tools for obtaining large-scale, long-term funding for San Francisco's Climate Action Plan. This final report documents the findings of CLEE's research, outreach, and engagement processes. It was informed by the many experts and stakeholders acknowledged on the following pages and CLEE's own analysis. It does not necessarily reflect the views of all individual convening participants, expert interviewees, reviewers, or City Departments.

#### ACKNOWLEDGMENTS

The authors thank Cyndy Comerford, Climate Program Manager at the San Francisco Department of the Environment, for her leadership throughout this initiative, and Tyrone Jue, Acting Director of the San Francisco Department of the Environment, for his support. The authors also thank Lawrence Grodeska and Alex Porteshawver of CivicMakers for their input on this phase of the initiative and their efforts to carry it forward. Finally, the authors thank CLEE's Ken Alex and Ethan Elkind for their input on this process and this report.

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For a complete list of expert interviewees and convening participants, see <u>page 100</u>.

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#### **EXECUTIVE SUMMARY**

In 2021, San Francisco took two groundbreaking steps toward a carbon neutral future. In September 2021, the Mayor sponsored, and the Board of Supervisors adopted, a set of aggressive emissions reduction targets for the coming decades: achieve net-zero greenhouse gas emissions generated in the city by 2040 and reduce emissions associated with consumption of all goods and services in the city (regardless of where emissions originate) 80 percent by 2050.

In December 2021, the Mayor released the City's Climate Action Plan (CAP) detailing the actions needed to accomplish these ambitious targets, developed through a multi-agency and stakeholder process led by the San Francisco Department of the Environment.<sup>a</sup>

San Francisco's Department of the Environment contracted UC Berkeley's Center for Law, Energy & the Environment (CLEE) to assess options for funding the equitable implementation of San Francisco's CAP. To develop the recommendations in this report, CLEE conducted over 50 expert interviews with community leaders, City departments, municipal finance and environmental policy experts, and other stakeholders; facilitated two expert and stakeholder workshops to discuss revenue generation options; and convened a Technical Advisory Committee that provided guidance on opportunities and barriers to each potential strategy.

Based on these engagements, and with ongoing guidance from the Department of the Environment and feedback from interviewees and participants, CLEE developed a set of principles to inform revenue generation and investment processes (page 12); and recommendations on the most promising revenue generation mechanisms to fund and implement the CAP, including top-priority recommendations (page 15). This report prioritizes near-term revenue strategies to initiate high-priority CAP actions, reflecting CLEE's analysis and

a The City's 2021 <u>Hazards and Climate Resilience Plan</u> details strategies for resilience to climate impacts, which are distinct from but in many cases overlap with CAP emissions reduction strategies. For more information see Appendix D.

input from a range of stakeholders, coupled with sets of strategies focused on implementation and on equity.

In all cases, it will be vital that the burdens and benefits of these revenue programs be implemented with an equity lens, aligning with the CAP's vision for equitable climate action that helps to mitigate unjust impacts and advance economic prosperity. Because the approach to and implementation of a funding or financing strategy matters as much as the strategy itself, the report also includes implementation and equity recommendations that should be adopted alongside the revenue generation strategies.

To recognize the importance of each set of recommendations, this report organizes principles and recommended actions into three categories: revenue, implementation, and equity.

| REVENUE        | Tools for raising revenue and accessing funds to implement CAP actions.  |
|----------------|--|
| IMPLEMENTATION | Processes and capacity expansions to support implementation of revenue strategies and CAP actions efficiently and effectively. |
| EQUITY         | Measures to integrate equity considerations throughout the funding, financing, and implementation processes.                   |

The recommendations in this report will support decarbonization efforts in San Francisco, including continuing efforts that are already in development. The priority recommendations will allow City leaders to rapidly raise significant, flexible funds for early implementation. The report also includes recommendations for medium- and long-term funding strategies that will require additional partnership development, stakeholder engagement, or other work to develop and implement. San Francisco, like all cities, faces a range of investment needs that may complement or compete with CAP priorities, and success will require substantial funding support and policy action at the state and federal levels. Finally, it is important to keep in mind that while some of the proposed CAP measures will incur significant costs, which is the focus of this report, many will also drive long-term savings through reduced fuel costs, improved air quality and public health, and resilience.

#### CAP NAMING CONVENTIONS

This report adopts the CAP's convention for designating sectors, strategies, and supporting actions. The six sectoral abbreviations are ES (Energy Supply), BO (Building Operations), TLU (Transportation and Land Use), H (Housing), RCP (Responsible Production and Consumption), and HE (Healthy Ecosystems). The 31 overarching strategies are designated by sector and number, i.e., BO.1 ("Eliminate fossil fuel use in new construction"). The 159 individual actions are designated by a second number, i.e., BO.1-1 ("By 2021, require newly constructed buildings to be efficient and all-electric with no on-site carbon emissions"). See Appendix B for a complete list of CAP strategies and supporting actions

#### A. THIS REPORT AND THE CAP PROCESS

The recommendations included in this report are one step in an iterative process of CAP development and implementation. They are preceded by the significant analysis and stakeholder outreach conducted by the Department of the Environment in preparing the CAP and will be followed by community and stakeholder outreach processes to identify immediate next steps. This engagement will occur alongside actions by City leaders, agencies, and stakeholders and will set a roadmap to 2040 and 2050.

#### **B. ABOUT SAN FRANCISCO'S CAP**

The San Francisco CAP is an ambitious and comprehensive roadmap of goals, strategies, and actions to achieve emission reductions across six sectors: Energy supply, building operations, transportation and land use, housing, responsible production and consumption, and healthy ecosystems. Key strategies include, but are not limited to, provision of 100 percent carbon-free energy, decarbonization of buildings, and increases in the public transit, active transportation, and vehicle electrification networks. See <a href="Section II">Section II</a> for an overview of the CAP's emissions reduction actions. The San Francisco Department of the Environment led the development of the CAP in coordination with 18 other City departments including the San Francisco Planning Department, San Francisco Public Utilities Commission, Department of Public Health, Municipal Transportation Agency, County Transportation Authority, Recreation and Parks Department, Office of Resilience and Capital Planning, and San Francisco International Airport.

The CAP estimates the cost of each of its 31 strategies in cost ranges from up to \$1 million (\$) to \$500+ million (\$\$\$\$\$) but does not include specific cost estimates for each of the 159 individual actions within these strategies. However, independent analyses provide information on the significant scale of investment required to realize CAP goals. For example:

- In April 2021, the San Francisco Budget and Legislative Analyst's Office prepared an <u>analysis</u> estimating the cost of full electrification of the existing residential building stock (strategy BO.2) at approximately \$3.5-\$5.9 billion.
- San Francisco Municipal Transportation Agency's (SFMTA's) <u>2021 20-Year Capital Plan</u> estimates that approximately \$10 billion is needed for planned transit system expansion and \$5 billion is needed for each of facility, fleet, and street improvements (strategies TLU.1/2/5/6/7).
- In September 2019, the City made an <u>initial offer</u> of \$2.5 billion to acquire PG&E's distribution grid assets (action ES.1-3).

#### STAKEHOLDER FEEDBACK

This report reflects the most salient input and feedback received from reviewers, interviewees and convening participants. Due to limitations in scope and time, not all feedback was incorporated. The Department of the Environment will review comments that could not be addressed in this report as part of its ongoing engagement processes. Some topics for further inquiry and engagement include the equity implications of pricing strategies; the appropriateness and structure of tax measures in the context of the ongoing business recovery from COVID-19; and optimal structures for additional staffing and interagency coordination. A range of City leaders and stakeholders will engage in the process of connecting revenue and implementation strategies to specific decarbonization investments.

These analyses make it possible to prepare a rough estimate of CAP costs based on an assumption that the highest-cost strategies have an average high cost of \$5 billion. (This assumption is purely for scoping purposes and costs could be much higher in the most capital-intensive sectors, like public transit.) Table 1 below provides an overview of anticipated cost ranges, based on the CAP's estimates:

| BY SECTOR                     |      |                  |                   |
|-------------------------------|------|------------------|-------------------|
|                               | NO.* | TOTAL COST (LOW) | TOTAL COST (HIGH) |
| Energy Supply (ES)            | 5    | \$1.012 Billion  | \$10.12 Billion   |
| Building Operations (BO)      | 4    | \$503 Million    | \$5.03 Billion†   |
| Transportation/Land Use (TLU) | 7    | \$513 Million    | \$5.132 Billion   |
| Housing (H)                   | 4    | \$210 Million    | \$1.101 Billion   |
| Production/Consumption (RPC)  | 4    | \$2 Million      | \$20 Million      |
| Healthy Ecosystems (HE)       | 7    | \$51 Million     | \$511 Million     |
| Total                         | 31   | \$2.291 Billion  | \$21.914 Billion  |

<sup>\*</sup> Number of CAP strategies within each sector

<sup>†</sup> Includes residential buildings only, for scoping purposes

| BY COST GROUP               |      |  |                     |                      |
|-----------------------------|------|--|---------------------|----------------------|
|                             | NO.* | STRATEGIES   | TOTAL COST<br>(LOW) | TOTAL COST<br>(HIGH) |
| \$\$\$\$: \$500+ million    | 4    | ES.1, ES.3, BO.2, TLU.1  | \$2 Billion         | \$20 Billion         |
| \$\$\$\$: \$100-500 million | 2    | H.2, H.4   | \$200 Million       | \$1 Billion          |
| \$\$\$: \$10-100 million    | 8    | ES.2, TLU.2, H.1, HE.3,<br>HE.4, HE.5, HE.6, HE.7                              | \$80 Million        | \$800 Million        |
| \$\$: \$1-10 million        | 11   | ES.4, ES.5, BO.1, BO.3,<br>BO.4, TLU.5, TLU.6,<br>TLU.7, RPC.2, RPC.3,<br>HE.2 | \$11 Million        | \$110 Million        |
| \$: ≤ \$1 million 4         |      | TLU.3, TLU.4, H.3, \$0<br>HE.1   |                     | \$4 Million          |
| N/A                         | 2    | RPC.1, RPC.4   |                     |                      |
| Total                       | 31   |  | \$2.291 Billion     | \$21.914 Billion     |

<sup>\*</sup> Number of CAP strategies within each cost group

**Table 1:** CAP strategies by estimated cost. Source: San Francisco CAP. Cost estimates are based on estimates stated in CAP, with an assumption of \$5 billion average high cost for items listed in the CAP at \$500+ million ("\$\$\$\$") with no upper bound (assumption is authors' own, for scoping purposes only).

CAP implementation will require a diverse mix of revenue streams across decades to support significant capital investment as well as agency staff, outreach, and supporting programs. In many cases, these build on existing revenue strategies in use by the City-such as general obligation bonds that fund transportation investments, utility ratepayer funds that support electrical grid investments, and refuse collection fees that pay for recycling programs—to drive specific emissions—reducing actions. In other cases, CAP implementation will require development of new revenue—generation mechanisms, drawing on the resources of residents and businesses, federal and state governments, and private and philanthropic partners. In addition, the CAP includes a number of policy, regulatory, and planning actions that are key enabling actions but will impose little or no cost to the City; these actions are not a focus of this report, but remain high priorities for aggressive emissions reduction.

#### C. PRIORITIES AND PRINCIPLES FOR CAP INVESTMENT

Participants and interviewees identified 1) building decarbonization and 2) transportation and land use as the highest priorities for initial investment and emphasized a need to focus on lower-income and disadvantaged communities including Bayview-Hunters Point, Chinatown, Excelsior, the Tenderloin, and other areas identified through San Francisco's Environmental Justice Communities Map (while also acknowledging that lower-income residents reside in communities throughout the city). See Figure 4 to view the EJ Communities Map. Key factors in this prioritization, which aligns with the CAP's own analysis, included:

- The potential for immediate, tangible quality-of-life and public health benefits in high-priority communities, including air quality improvements and transportation cost reductions
- The high proportion of greenhouse gas emissions from the transportation and buildings sectors in San Francisco (47 percent and 41 percent, respectively)
- The link between transportation system connectivity and community economic development
- The enabling relationship between building electrification and transportation electrification

However, top priorities for investment–within the scope and structure of the strategies and actions developed in the CAP process–ultimately must be determined by City leaders working directly with community members through multiple engagement and decision-making processes as officials refine revenue proposals.

In addition to identifying priorities for investment, interviewees and convening participants also developed a set of principles to guide revenue generation and investment. These are organized into the three framework categories.

#### PRINCIPLES TO GUIDE CAP INVESTMENT

#### **REVENUE**

- Utilize all available and appropriate City revenue sources to focus on priority building and transportation electrification investments, including but not limited to:
  - · General fund
  - · General obligation bonds
  - · Revenue bonds
  - · Property, sales, hotel, and special taxes
  - · Utility fees and on-bill financing strategies
  - · Development and mitigation fees
  - · Financing districts
- · Incorporate all available federal, state, and regional revenue sources for capital and programmatic investments
- · Leverage all available private capital for private infrastructure investments
- · Develop pricing strategies that raise revenue while encouraging low-carbon activity
- · Maximize and monetize co-benefits and ecosystem services where possible
- · Authorize local tax options including congestion pricing, carbon, and income taxes
- · Build flexibility in revenue sources to meet multi-decade investment needs and maximize multi-benefit projects
- · Prioritize progressive taxation structures and ensure equity guardrails in pricing strategies

#### **IMPLEMENTATION**

- · Ensure City budget is written to achieve timely fulfillment of CAP priorities
- Dedicate ongoing funding for Climate Action Plan implementation, stakeholder and expert consultation, and agency coordination
- Establish interagency processes to coordinate across all relevant City investment and implementation capacities and to strategically align revenue generation strategies
- Expand existing stakeholder processes to gather spending prioritization input from community, labor, climate, environmental justice, and business groups, and invest in capacity-building to help frontline communities engage meaningfully in those processes
- Cultivate philanthropic and corporate support for community and voter engagement efforts related to CAP revenue generation and implementation

#### **EQUITY**

- · Continue to take a "root causes" approach to center equity in all CAP decision-making
- · Prioritize lower-income, disadvantaged, and overburdened communities and communities of color through:
  - · Targeted investments with the potential for immediate, high-quality climate benefits
  - · Meaningful investment decision-making authority for communities
  - · Neighborhood-based approaches to emission reduction
  - · Consistency with federal and state minimum investment requirements for environmental justice/disadvantaged communities as a floor
  - · Strong, culturally competent messaging on climate, economic, and labor opportunities
- Build local employment infrastructure through workforce development components and labor standards in all CAP investments, including targeted hiring for high-priority communities
- · Support small businesses, social enterprises, and community-based organizations to carry out CAP investment
- · Avoid cost-of-living increases that result in net out-migration from San Francisco to more carbon-intensive jurisdictions through:
  - · Anti-gentrification and anti-eviction policies
  - · Homelessness services
  - · Affordable clean technology
  - · Generational equity strategies to grow the populations of young and African American San Franciscans
- Evaluate outcomes of investments (including City and community input) to ensure positive equity and climate benefits and adjust as necessary

The recommendations on the following pages identify specific top-priority revenue, implementation and equity actions for City leaders to take in alignment with these principles.

Given the anticipated cost and timeline of the CAP-likely tens of billions of dollars over multiple decades (see Table 1 for more detail)—no single funding and implementation strategy will achieve all of the City's goals. At the same time, City agencies and stakeholders will need to grow their own capacity to take advantage of new revenue. As a result, City leaders should prioritize an initial group of mechanisms that can rapidly raise significant, flexible funds for early implementation. Many measures will require repeat action—in particular, general obligation bond measures to fund major capital investments—as part of long-term City capital planning processes, while tax and other measures will require iteration and calibration. Given the scale and complexity of the decarbonization challenge, strategies to support implementation and equity will be vital components alongside new revenue sources, and all City departments and agencies will need to support the effort.

The tables on the following pages describe top-priority recommendations for revenue, implementation, and equity. The revenue generation proposals focus on measures within City control; strategies to attract outside funds such as state and federal grants, which will be vital complementary efforts to achieve CAP targets, are not the focus of this analysis but are described later in the report. See <a href="Section III.B.5">Section III.B.5</a> for a summary of potential CAP funding opportunities from the federal Infrastructure Investment and Jobs Act and Inflation Reduction Act and the 2022-2023 California State Budget, the latter two of which were finalized during the preparation of this report, and each of which includes significant opportunities for City leaders to fund the CAP. For a complete list of potential strategies, see Section III and Appendix A.

#### D. REVENUE ACTIONS

Revenue measures are divided between near-term (1-3 year timeframe from fall 2022) and medium-term (4-7 year timeframe from fall 2022). CAP implementation will occur over decades, and a number of additional strategies will be required for long-term funding. These initial recommendations focus on the highest-priority strategies for City leaders to take direct action at the outset of implementation; the remainder of the report identifies other revenue strategies that can support long-term action and potential federal, state, and other outside sources of funds. The revenue measures proposed in this section should be read together with the implementation and equity strategies proposed in Sections E and F below.

Revenue measures include an estimate of the amount of revenue generated, whether it would be one-time or recurring, and its level of volatility (i.e.,

responsiveness to changes in economic conditions); along with context and justification for the proposed measure, implementation steps, and examples for revenue generation and investment. Within the near- and medium-term categories, proposed measures are not proposed in a particular chronological order.

#### **NEAR-TERM MEASURES (1-3 YEARS)**

**PROPOSE AND PASS CAP-FOCUSED GENERAL OBLIGATION (GO) BONDS,** coupled with an increase in the City's GO bond limit<sup>b</sup> to allow property tax increases exclusively to fund new bonds for CAP investments, including:

- A **building decarbonization GO bond** to fund efficiency and electrification retrofits for existing residential buildings<sup>1</sup>
- Increase the size of the affordable housing GO bond to fund the San Francisco Housing Accelerator Fund for CAP-aligned housing investment

#### **BUILDING DECARBONIZATION GO BOND**

#### **REVENUE ESTIMATE**

#### \$300-\$500 million | One-time | Low volatility

Based on the size of <u>recent</u> housing (2015: \$310 million, 2019: \$600 million) and public health (2016: \$272 million, 2020: \$60 million) GO bonds and estimated <u>\$3-5 billion cost</u> of citywide residential building electrification.

## CONTEXT AND JUSTIFICATION

Buildings are the second-highest source of emissions in San Francisco; efficiency improvements will result in immediate quality-of-life benefits for residents. The City is targeting complete building decarbonization by 2040; the CAP includes policy strategies to drive retrofits with a focus on lower-income residents (BO.2-2, 2-9/10/11/12), including requirements to electrify at various transfer or renovation points. A large-scale GO bond can both kick-start efficiency and electrification investment in high-priority communities and establish permanent programs that can marshal the billions of dollars of private capital required for CAP building decarbonization efforts.

b The City Charter and Office of Resilience and Capital Planning (ORCP) currently cap GO bond issuance in two ways: outstanding bond indebtedness may not exceed 3% of total assessed property values; and GO bond measures may not increase property tax rates above 2006 levels. Each of these caps-instituted by City leaders for reasons of fiscal prudence-could limit the City's ability to add new revenue for CAP investment, with the ORCP policy in particular posing a potential ceiling. Effective CAP implementation could call for climate action-specific exemptions. In general, the GO bond proposals in this section are intended to direct near-term CAP investment and are not intended to preclude future iterations of similar bonds in the City's long-term capital planning process. CAP investments, like other City capital investments, will require recurring GO bonds at regular intervals. While this section presents three separate GO bond proposals, in practice, the nuances of the public approval process and benefits of simplicity could call instead for a single, comprehensive GO bond for building decarbonization, housing, and transportation investments.

Rapidly decarbonizing existing buildings will require programs tailored to different socioeconomic groups: high-income residents can generally afford upfront costs or traditional financing, middle-income residents will need access to low-cost financing options, and lower-income residents will likely rely on direct grant and rebate programs. GO bond funds for CAP implementation should support the latter two groups, with direct grants for lower-income and affordable housing residents (expanding on state and utility programs such as the Low-Income Weatherization Program and TECH Clean California) and seed funding to attract private capital for upgrades in other buildings via a City Green Bank. A Green Bank could also win funding from the Inflation Reduction Act's Greenhouse Gas Reduction Fund for state and local decarbonization financing programs. Funds should prioritize multifamily properties to target residents most in need of financial support and to address landlord-tenant split incentives, cover upgrades to building electrical systems needed to support new installations, and include robust tenant protections to limit displacement.

#### **IMPLEMENTATION**

- Update ORCP policy (and amend charter if necessary) to allow GO bonds over the current limits for CAP-focused measures
- · Propose and pass bond via ballot measure
- Commit 50-75% of funds to direct grants (managed by one or more nonprofit program administrators) for efficiency and electrification retrofits for lower-income residences with a focus on multifamily properties, including decarbonization workforce development through CityBuild program
- Commit 25-50% of funds to create SF Green Bank to attract private capital for decarbonization investments and incorporate additional seed funding from Inflation Reduction Act's Greenhouse Gas Reduction Fund
- Create SF Green Bank as a publicly chartered nonprofit, independent 501(c)(3), and/or collaboration among existing CDFIs

# PRECEDENT/ EXAMPLES

Miami Forever Bond | NYCEEC | DC Green Bank | Montgomery Co. Green Bank |
Connecticut Smart-E | Michigan Saves | CA Climate Catalyst Fund | CA GoGreen

#### **HOUSING GO BOND**

#### **REVENUE ESTIMATE**

#### \$50-\$100 million | One-time | Low volatility

Based on anticipated size of <u>scheduled 2024 affordable housing GO bond</u> (\$160 million), size of <u>recent housing GO bonds</u> (2015: \$310 million, 2019: \$600 million), and estimated Housing Accelerator Fund need to carry out 2+ direct acquisition projects resulting in hundreds of new units of affordable housing in CAP-aligned locations and structures.

# CONTEXT AND JUSTIFICATION

Increasing the affordable housing supply is essential to making San Francisco more equitable and livable for all residents and for supporting transit-oriented residential density. City-led preservation and development is the most certain way to ensure investments result in permanently affordable units. The high cost of housing investment and the scale of the current housing crisis require hundreds of millions of dollars in readily available capital.

The San Francisco Housing Accelerator Fund's (HAF) Housing to End Homelessness Program acquires land and buildings for original construction, redevelopment, and preservation of affordable and permanent supportive housing units at less than 2/3 of standard development costs. SF HAF can use direct funding for land acquisition and can integrate philanthropic and concessionary capital to fund development and operation of the site.

#### IMPLEMENTATION

- Update ORCP policy (and amend charter if necessary) to allow GO bonds over the current limits for CAP-focused measures (see fn. b)
- Increase the total dollar amount of the scheduled November 2024 affordable housing bond from \$160 million to \$210-\$260 million
- · Propose and pass bond via ballot measure
- Direct the additional funds to the SF HAF exclusively for direct acquisition of sites located in areas with high transit access to support preservation or development of affordable or supportive units that meet CAP targets for building decarbonization.

#### PRECEDENT/ EXAMPLES

Miami Forever Bond | 2019 Proposition A | SF HAF's 833 Bryant Street Pilot Project

#### A SAN FRANCISCO GREEN BANK FOR BUILDING DECARBONIZATION

A green bank can take many forms, but the core structure commits public funds to one or more financing mechanisms-such as direct loans, revolving funds, or credit enhancement-to redue investment risk in order to attract private capital to clean energy technologies and upgrades. Green bank programs are a popular and effective strategy to leverage limited public funds to accelerate building decarbonization investment by private property owners, often taking the form of loloss reserve fund credit enhancement for financial institutions and credit unions. Programs like California's GoGreen, Connecticut's Green Bank Smart-E, and the Michigan Saves programs have leveraged over ten dollars in private capital for every dollar of public funds, facilitating tens of millions of dollars in home energy upgrades. New York City, Washington, DC, and Montgomery County, Maryland have piloted local equivalents. With sufficient capital, a city-scale credit enhancement program could support private building decarbonization investments through pre-approved lenders and contractors, helping to advance CAP-aligned policies requiring retrofits at appropriate property transfer and renovation points. Committing a significant portion of GO bond funds to create a building decarbonization green bank program could maximize the City's ability to draw private capital, which will be essential given the high cost of citywide building decarbonization, the private nature of most of the investments, and the need to commit most public funds to direct investment in lower-income communities. Including no-debt and tariffed on-bill financing options could be key to ensure access and consumer protections for lower-income residents. Over time, the bank could attract philanthropic and concessionary capital, integrate with state and federal financing efforts, and expand its portfolio to support other CAPaligned investments.

# **IMPLEMENT AN ADDITIONAL GROSS RECEIPTS TAX ON THE HIGHEST-REVENUE BUSINESSES** to fund workforce development initiatives, City staff to implement the CAP, and equity oversight bodies

#### **REVENUE ESTIMATE**

#### \$25-\$50 million | Annual/continuing | Medium volatility

Based on <u>City analysis</u> of 2018 Proposition C, which estimated \$250-300 million per year for tax increases of 0.015%-0.04% on receipts over \$50 million, and recent <u>reporting</u> that revenue dropped from \$394 million in 2019-20 to \$217 million in 2020-21. The new gross receipts tax increase could be limited to a smaller increment and a smaller subset of high-revenue businesses while still generating sufficient funds to support CAP implementation actions (but not capital investments).

## CONTEXT AND JUSTIFICATION

Effective CAP implementation will require a dedicated, continuing source of revenue to support multiple new City staff positions (see Implementation below), provide funding for participation by community members and community-based organizations in long-term oversight and investment planning efforts, and introduce workforce development initiatives associated with building and transportation decarbonization actions. The revenue source should be distinct from those supporting major capital investment programs, which will likely reflect program-specific timelines and in many cases will rely on property taxation or one-off state and federal grants. Voters have demonstrated willingness to increase business taxes to support high-priority causes, and other leading cities have recently implemented climate action-oriented business taxes.

In 2020, San Franciscans approved Proposition F replacing the City's payroll tax with a gross receipts tax. The top bracket includes all businesses with over \$25 million in gross receipts. In 2018, voters approved Proposition C imposing a gross receipts tax increase of 0.015%-0.04% on certain businesses with over \$50 million in annual gross receipts in San Francisco, raising hundreds of millions of dollars in City revenue for homelessness initiatives.² In July 2022, a motion was submitted to the Board of Supervisors proposing a November 2023 ballot initiative to increase the gross receipts tax on business revenues over \$25 million with proceeds directed equally to fund the Department of the Environment and CAP implementation; a guaranteed income program for low-income households in environmentally impacted areas; decarbonization workforce development; and public transit operational costs including subsidized Muni access.

Gross receipts tax revenue is inherently volatile, particularly following the COVID-19 pandemic and shifts in commuting and work-from-home patterns, which can substantially affect revenue. Limiting application of the tax to the few hundred businesses that exceed \$100 million in local revenue would mitigate impacts to smaller businesses, but could also increase volatility; expanding application to businesses with at least \$25-50 million in local revenue would broaden the base of the tax and reduce volatility, but could affect more local businesses. City leaders should be careful not to base expenditures on high-end revenue projections (or include measures to backfill any missing revenue with general fund dollars). As with any tax measure, City leaders should craft it to be efficient, administrable, sustainable, and equitable in implementation.

#### **IMPLEMENTATION**

- · Propose and pass tax via ballot measure
- Direct funds to the Department of the Environment for CAP implementation and equity initiatives and to City College and CityBuild for workforce development initiatives.

**IMPLEMENT A PARCEL TAX** (based on square footage of property or impermeable surfaces) to fund parks, green infrastructure, and tree canopy investments

#### **REVENUE ESTIMATE**

#### \$12-25 million | Annual/continuing | Low volatility

Based on total building square footage of residential and commercial properties in the city (approximately 500,000,000, based on data from <u>DataSF Land Use portal</u>, excluding vacant, open space, and other inapplicable property types) taxed at a rate of \$.025-\$.05 per year.

# CONTEXT AND JUSTIFICATION

Tree canopy and green space are well established as cost-effective strategies to combat the urban heat island effect, sequester carbon, retain rainfall, and support urban air quality. As warm weather days increase due to climate change, expanding green cover will be a key strategy to reduce harm to vulnerable populations facing significant physical health, mental health, and productivity impacts. Increasing green space and park access will also provide immediate, tangible quality of life improvements for all city residents, particularly those in communities with minimal green space. Effective CAP implementation will require a dedicated revenue stream to support CAP investments in parks and the urban forest (HE.3-HE.5) that will require tens of millions of dollars per year for decades. A parcel tax can accomplish this goal while ensuring the payment obligation is tied to property owners; a square footage basis can ensure a measure of equity in assessments compared to a flat rate per parcel, which places a higher burden on low-income property owners.

The City's Urban Forestry Council and Friends of the Urban Forest have crafted an ambitious Urban Forest Plan to expand tree canopy and green space, and in 2016 voters shifted responsibility of street tree maintenance to the City. However, planting and maintenance efforts are underfunded, and today San Francisco has one of the lowest average tree canopies among all major US cities at 13.7%, compared to 21% for Los Angeles and 24% for New York. Per capita tree cover and green space are especially low in high-priority neighborhoods such as Bayview-Hunters Point and Chinatown, highlighting the need for equitable investment in new greening efforts and the potential equity benefits of new green spaces.

#### **IMPLEMENTATION**

- · Propose and pass parcel tax measure
- · Direct funds to Planning, Public Works, and Recreation and Parks Departments for Urban Forest Plan implementation

### PRECEDENT/ EXAMPLES

Los Angeles Measure A | Los Angeles Measure W

### **MEDIUM-TERM MEASURES (4-7 YEARS)**

**PROPOSE AND PASS A TRANSPORTATION GO BOND** to fund public transit, active transportation, and electric vehicle charging infrastructure (following an increase in the City's GO bond limit to allow property tax increases exclusively to fund new bonds for CAP investments, as described in Near-term Measures

#### REVENUE ESTIMATE

### \$300-\$500 million | One-time | Low volatility

Based on the size of recent transportation-related GO bond measures (2014: \$500 million, 2022: \$400 million) and high capital cost of transportation infrastructure investments (e.g., \$4.8 billion SFMTA 10-year capital need for already-planned investments).

# CONTEXT AND JUSTIFICATION

Transportation is the highest source of emissions in San Francisco; improving transit and active transportation access will increase connectivity and economic opportunity, and increasing electric vehicle (EV) use will improve air quality. A large-scale GO bond is needed to kick-start investment in high-priority, high-profile decarbonized transit projects while meeting the financial scale of major transportation capital infrastructure. The GO bond would supplement anticipated state and federal matching funds and other existing revenue streams.

SFMTA and other City leaders have developed comprehensive, multi-decade <u>capital plans</u> encompassing a range of investments in transportation infrastructure, outlining over \$30 billion in capital needs through 2040. Many of these investments overlap with CAP's public transit, active transportation, and EV infrastructure investments, but only some have certain funding sources. City residents narrowly failed to approve a June 2022 bond measure that would have invested \$400 million in Muni system repair, maintenance, and street safety investments.

#### **IMPLEMENTATION**

- · Update ORCP policy (and amend charter if necessary) to allow GO bonds over the current limits for CAP-focused measures (see fn. a)
- · Propose and pass ballot measure
- Direct funds to SFMTA for initial investment in CAP transportation projects, such as TLU.1 transit investments and TLU.7 electric vehicle infrastructure pilots, in high-priority communities

### PRECEDENT/ EXAMPLES

Miami Forever Bond 2014 Proposition A

**IMPLEMENT VEHICLE PRICING STRATEGIES** to incentivize reductions in driving and raise revenue for low-carbon transportation, with rebates, discounts, or exemptions for lower-income residents or in priority communities as applicable

 Institute downtown vehicle congestion pricing with revenue dedicated to public transit, active transportation, and/or electric vehicle charging infrastructure • Expand the residential parking permit system to encompass all curbside parking and private parking spaces and authorize SFMTA to operate it as a revenue-positive program, with revenue dedicated to public transit, active transportation, and/or electric vehicle charging infrastructure

#### **CONGESTION PRICING**

#### **REVENUE ESTIMATE**

# \$50-100 million | Annual/continuing | Medium volatility (may decline over time)

Based on estimates gathered for the <u>SF Mobility, Access, and Pricing study</u> published in 2010, which estimated between \$60 and \$80 million in net operating revenue (in 2008 dollars) across different scenarios. Estimates adjusted to reflect changes in downtown travel patterns and pricing proposals since the 2010 study.

# CONTEXT AND JUSTIFICATION

Transportation is the highest source of emissions in San Francisco; improving transit and active transportation access will increase connectivity and economic opportunity, and increasing EV use will improve air quality. A congestion price will discourage private vehicle use in the downtown area, improve air quality, and support use of transit options instead, while creating a recurring source of funds for investment in low-carbon transportation options throughout the city, but especially those that provide alternatives to car travel in the downtown core. Changes in commutes following the COVID-19 pandemic have altered downtown congestion and transit patterns, but pricing strategies still have potential to directly reduce emissions and raise sustainable revenue for transportation investment.

City transportation leaders began evaluating the strategy with the 2010 Downtown Congestion Pricing Study, which was part of an ongoing City process investigating several pricing and implementation options. Other global cities have implemented programs that reduce total trips and raise tens of millions of dollars per year. For example, Stockholm established a seven-month pilot congestion pricing program in 2006 and evaluated impacts from the pilot before initiating a permanent congestion price in 2007. London launched its congestion pricing system in 2003, and the program generated £1.7 billion in net revenue in its first 14 years (2003 to 2017). This revenue supports transportation connectivity and safety improvements and sustainable transportation alternatives.

Congestion pricing is a potential medium-term revenue source (4 to 7 years out) because of the coordination and time required to develop, establish, and execute such a program. The San Francisco County Transportation Authority <u>estimates</u> that it will take at least five years to institute a congestion pricing program. The program should include exemptions and discounts for lower-income and disabled individuals and zone residents as outlined by SFCTA's proposals. Where possible, the City should invest in improved low-carbon transportation options before or concurrently with initiating the congestion price so that drivers face fewer barriers in switching modes.

#### **IMPLEMENTATION**

- · Complete the updated Downtown Congestion Pricing Study
- · Advocate for legal authorization at the state legislature
- · Pass congestion pricing ordinance including discounted rate structure to ensure equity
- Direct funds to SFMTA for initial investment in CAP transportation projects-such as TLU.1 transit investments and TLU.7 electric vehicle infrastructure pilots-in highpriority communities, and/or discounted or free Muni service

# PRECEDENT/ EXAMPLES

SF Downtown Congestion Pricing | London | Singapore | Stockholm

### **PARKING PRICING**

#### REVENUE ESTIMATE

#### \$40-60 million | Annual/continuing | Low volatility

Based on revenue from the existing permit system (approx. \$12 million/year, which is fully committed to operational costs) extrapolated to coverage of the entire city (approx. 300% increase) and allowing rate flexibility outside simple revenue neutrality.

# CONTEXT AND JUSTIFICATION

Transportation is the highest source of emissions in San Francisco; improving transit and active transportation access will increase connectivity and economic opportunity, while increasing EV use will improve air quality. Instituting paid permits for curb use citywide and allowing SFMTA to operate the program to fund transportation investments would provide additional recurring revenue for transportation investment and would internalize the full cost of private vehicle use. Crucially, SFMTA could require annual paid permits to maintain private driveway curb cuts (i.e., charging a fee for the curb space held open for private driveway access) to ensure that cost burdens are shared equitably and not just paid by those who park on the street. Each individual width of curb cut could be assessed its own fee, so owners of two-car garages would pay increased fees accordingly.

SFMTA currently implements a \$165 residential parking permit system (RPP) in higher-density areas covering approximately one quarter of the city. Based on an interpretation of the state constitution regarding local government fees, SFMTA operates the program purely on a cost recovery basis, meaning it does not generate revenue for other investments. If deemed legal (or approved by teh voters), SFMTA could more than triple revenue; by shifting it to a revenue-generating program and setting rates above cost-recovery points.<sup>c</sup> As an example, Vancouver, Canada has considered a full-city overnight parking permit system as part of its climate action investment

c Under Article XIIIC of the California Constitution, a "charge imposed for entrance to or use of local government property" is not considered a "tax" for the purposes of Proposition 13/26/218 voter approval requirements. Curb space, whether used for vehicle parking or held open for driveway access, is City property and thus could be eligible for this exemption, although it has not been so treated in the past. Under Section 716 of the City Public Works Code, an "annual fee of \$3.00 per square foot of occupancy of the sidewalk" and no less than \$100 is required for curb cuts, but it is unclear if this assessment is regularly enforced or paid.

planning. When increasing rates to raise revenue, SFMTA leaders should take care to develop pricing structures that reflect ability to pay and do not overburden lower-income drivers. Instituting paid permits for all private curb cuts—a highly valuable reservation of the public right-of-way for exclusive private purposes—would be central.

#### **IMPLEMENTATION**

- Work with SFMTA, City Attorney, and Board of Supervisors to update RPP as a charge for use of public curb property to permit revenue-positive operation and application to driveway curb cuts
- · Alternatively, authorize revenue-positive operation via ballot initiative
- · Institute annual paid permit for curb cut maintenance and set rates above costrecovery point
- · Institute RPP in all neighborhoods and set rates above cost-recovery point
- · Consider dynamic pricing (e.g., demand-based) strategies and/or income-based or neighborhood discounts to ensure equity
- Direct funds to SFMTA for initial investment in CAP transportation projects-such as TLU.1 transit investments and TLU.7 electric vehicle infrastructure pilots-in highpriority communities, and/or discounted or free Muni service

### PRECEDENT/ EXAMPLES

<u>SFMTA Residential Parking Permit program</u> | <u>SF Public Works Code § 716</u> | <u>Vancouver Climate Emergency Parking Program</u> | <u>SFpark pilot program</u>

# **IMPLEMENT A CARBON EMISSIONS TAX FOR LARGE COMMERCIAL BUILDINGS** to fund building decarbonization and workforce development investments

#### **REVENUE ESTIMATE**

### \$20-\$128 million | Annual/continuing | Low volatility (steady decline over time)

Based on San Francisco city data on building type, square footage, and energy usage. Estimated energy usage for commercial buildings with an area of 10,000 square feet or higher converts to approximately 200,000 tons of carbon emissions as a lower bound and 640,000 tons as an upper bound, based on 2019 emissions from commercial buildings. A revenue range is then calculated assuming two options for a tax: \$100 per ton or \$200 per ton of carbon emissions.

# CONTEXT AND JUSTIFICATION

Buildings are the second highest source of emissions in San Francisco. Reducing building sector emissions will require targeted, widespread decarbonization efforts in all types of buildings, from residential (single- and multi-family) to commercial and industrial. Electrifying building systems, appliances, and HVAC and reducing building energy usage will decrease the building sector's greenhouse gas emissions while also generating public health benefits through improved indoor air quality. Building decarbonization efforts are central to achieving several CAP actions, including BO.2-2 and 2-9 through 2-12.

However, decarbonizing the city's buildings will be an expensive endeavor, and many residents will not be able to afford the required upgrades. To ensure that all residents are able to benefit from decarbonization efforts, San Francisco could implement a tax on large commercial buildings in the medium-term (4 to 7 years out), allowing time for

post-pandemic recovery before imposing additional burden on building owners. Taxing large commercial buildings would capture revenue from some of San Francisco's largest employers and building owners. Certain buildings could be exempt from the tax, such as hospitals, buildings owned by public pension funds, or buildings owned by non-profit entities. Revenue from this tax could be directed toward building decarbonization and workforce development investments, with emphasis on equity.

San Francisco already taxes commercial entities for their energy use through the Utility Users Tax. The tax covers natural gas, steam, and electricity along with non-energy utilities. Increasing the tax for emissions-intensive utilities could raise additional revenue for citywide building decarbonization efforts. The current tax rate is 7.5 percent for electricity and gas consumption. Increasing this amount to 10 percent or more could raise tens of millions of dollars in new revenue each year. New York City's Local Law 97 and Boston's Building Emissions Reduction and Disclosure Ordinance provide examples of locally implemented requirements for energy efficiency and greenhouse gas emissions from large commercial buildings, with per-ton fees of over \$200 for emissions cap exceedances. CLEE's range presents a conservative estimate based on revenue projections from increases in the Commercial Utility Users Tax combined with projected revenue from a tax per ton of carbon emissions, while accounting for the COVID-19 pandemic's detrimental impacts on San Francisco's commercial building sector.

#### IMPLEMENTATION

- Implement emissions tax per unit of natural gas or steam consumed. A tax of between roughly \$100 and \$200 per ton may be appropriate depending on the source of energy consumed
- · Clarify which buildings and building owners are subject to the tax
- In collaboration with City Attorney, Board of Supervisors, City staff, determine any limitations on uses for the revenue
- Direct funds to CAP building decarbonization measures, such as BO.2-2 and BO.2- 9/10/11/12

### PRECEDENT/ EXAMPLES

New York Local Law 97 | Boston Building Emissions Reduction and Disclosure Ordinance | SF Commercial Utility Users Tax

#### E. IMPLEMENTATION ACTIONS

- Fund or reallocate City staff to accelerate CAP implementation including:
  - One full-time senior staff member (i.e., direct report to department head) and supporting staff at the lead implementation department for each CAP sector (e.g., SFMTA, SFPUC, Recreation and Parks, etc.) dedicated to:
    - CAP-specific budget development, investment planning, and grant-seeking
    - CAP implementation coordination, working with existing CAP leadership at SF Environment
  - One full-time staff member each at SF Environment and the Office of Resilience and Capital Planning to coordinate cross-sectoral CAP grant-seeking (including opportunities under recent federal infrastructure and climate legislation) and multi-benefit project investment including projects that can achieve both CAP and Hazards and Climate Resilience Plan goals (see Appendix D)
  - Multiple full-time staff members to accelerate and streamline processing of permits required for building electrification, EV charging, housing, and other permit-reliant efforts, including at the Department of Building Inspection, Department of Public Works, and Planning Department. See <u>Appendix E</u> for a complete list of San Francisco City agencies with key CAP implementation roles.
- Convene a formal cross-departmental committee of City employees
  focused on coordinating CAP implementation efforts, such as by aligning
  grant seeking opportunities across departments and by developing revenue
  prioritization strategies to ensure successful implementation<sup>d</sup>
- Fund nonprofits and community-based organizations to lead CAP implementation, technical assistance, and capacity building in priority communities while requiring coordination with the City to ensure alignment with CAP goals
- Establish a fund, administered by the Mayor's Office and SF Environment, for corporate and philanthropic partners to provide direct funding for community engagement and educational efforts, workforce development programs such as CityBuild, and other initiatives to raise the profile of the CAP and build support (subject to the limitations on solicitation of behested payments detailed in City Campaign and Governmental Conduct Code § 3.620)

d An example of all-of-government climate action planning and implementation is the California Climate Action Team. The Climate Action Team is a multi-agency team that coordinates statewide climate efforts, tapping agency leaders to develop, evaluate, and implement climate change emission reduction strategies in accordance with the California Global Warming Solutions Act of 2006. For more information, see https://calepa.ca.gov/climate-action/#cat.

### F. EQUITY ACTIONS

- Create an independent community council to provide equity oversight of CAP investment, implementation, and revenue generation mechanisms with representatives from City government and community, climate, environmental justice, labor, and small business groups
  - Focus council activities on individual CAP sectors for one- or two-year timeframes, beginning with Building Operations followed by Transportation and Land Use, with sector-specific leaders from City departments invited to participate as relevant
  - Vest the council with substantive decision-making authority by requiring council approval for a designated portion of investment decisions in major GO bonds
  - Compensate community participants for their participation time
- Structure each of the large-scale GO bond programs to direct a portion of funds to investments through a community-scale competitive grant process that reflects principles of equitable investment like those in the State's Transformative Climate Communities program
  - Initiate community-led processes to identify priority investments
  - Award funds to proposal(s) most likely to promote equitable, effective investment in CAP strategies
  - Establish preferential criteria for lower-income communities, state-identified Disadvantaged Communities, highest-scoring communities on the San Francisco Environmental Justice Communities Map, and MTC-identified Equity Priority Communities
  - Fund nonprofits and community-based organizations to provide technical assistance to support community application development
  - Include the community council in grant award decision-making
- Structure large-scale GO bond programs and tax measures to direct a portion of funds to deliver capital improvements through the CityBuild workforce development program including building retrofits and electrification, EV charger installation and repair, and housing construction
- Work with priority communities, as identified in the Environmental Justice Communities Map, to identify high-priority projects that address community needs and support CAP implementation
- Require racial equity impact assessments for major revenue generation and investment initiatives, based on the CAP's Racial and Social Equity Assessment Tool, with periodic review and adjustment of implementation strategies as needed to address any equity shortcomings

## I. INTRODUCTION

San Francisco's Department of the Environment contracted UC Berkeley's Center for Law, Energy & the Environment (CLEE) to assess revenue options for funding the implementation of San Francisco's Climate Action Plan (CAP). CLEE first reviewed the CAP to identify opportunities for revenue generation within CAP activities and the overall magnitude of revenue required to achieve the vision outlined in the CAP. CLEE conducted desk research to identify examples of revenue-raising approaches in other cities worldwide and to pinpoint the revenue mechanisms most likely to provide the necessary capital over short- and medium-term time horizons.

CLEE then conducted over 50 expert interviews including a wide array of voices, from community leaders and City departments to municipal finance and environmental policy experts. These interviews offered crucial insight into the political feasibility, staffing needs, equity implications, and revenue generating potential of various revenue tools, such as taxes, bond measures, or grants. Interviews also allowed for the evaluation of different revenue options through the lenses of equity and labor. Throughout the process of identifying and recommending strategies, CLEE weighed equity implications and labor impacts. In general, strategies that were seen as inequitable were not prioritized for further consideration. CLEE also hosted and facilitated two expert and stakeholder workshops to discuss revenue generation options in a group setting, convened a four-member Technical Advisory Committee (TAC) to provide guidance on opportunities and barriers to each potential strategy, and solicited feedback on report drafts.

Through a combination of interviews, workshops, TAC meetings, and ongoing guidance from the Department of the Environment, CLEE developed recommendations regarding the most promising revenue generation, implementation, and equity strategies. Priority recommendations are listed at pages 15-26. Factors that influenced these recommendations include the priority of different CAP measures; the estimated level of revenue generation and need; the estimated timeframe over which revenue can be expected; the level of effort required to initiate the mechanism; and the equity implications of the mechanism, to avoid placing disproportionate burdens on disadvantaged communities when raising revenue and to prioritize them when making investments.

The remainder of this report provides an overview of the Climate Action Plan (Section II), an assessment of existing and potential revenue strategies in San Francisco (along with examples from around the country) and identification of revenue generation opportunities within Climate Action Plan activities (Section III), a discussion of equity considerations and strategies for ensuring equity in revenue raising measures and implementation (Section IV), and an overview of labor considerations and strategies through a series of case studies (Section V). Appendix A presents a complete list of potential revenue strategies identified through CLEE's research and interview process (including those that were not included in the set of high-priority recommendations); Appendix B provides an overview of Climate Action Plan strategies and actions; Appendix C offers an analysis of relevant recent local ballot measures; Appendix D presents an overview of the Hazards and Climate Resilience Plan; and Appendix E contains an overview of San Francisco plans and departments relevant to CAP implementation, plus additional research resources and a bibliography.



## II. OVERVIEW OF THE CAP

This section provides an overview of San Francisco's Climate Action Plan (CAP), with a focus on the key actions and major investments/ expenditures in each sector. The CAP includes a comprehensive list of actions that the City of San Francisco can take to reduce greenhouse gas (GHG) emissions to meet the City's GHG reduction targets while achieving equitable outcomes.

The San Francisco Department of the Environment led the development of the CAP in coordination with 18 other City departments including the San Francisco Planning Department, San Francisco Public Utilities Commission, Department of Public Health, Municipal Transportation Agency, County Transportation Authority, Recreation and Parks Department, Office of Resilience and Capital Planning, and San Francisco International Airport.

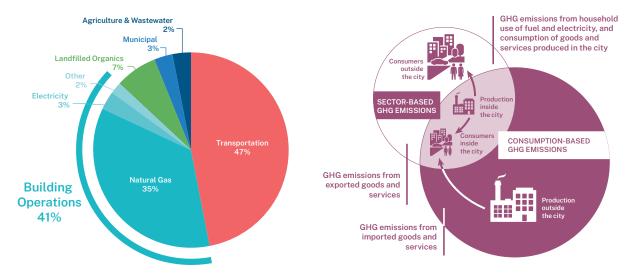
The San Francisco Board of Supervisors adopted and codified two GHG emissions targets in 2021.<sup>3</sup> These include sector-based and consumption-based targets. Sector-based emissions inventories track traditional emissions in categories produced within municipal boundaries such as transportation, energy use in buildings, and solid waste.<sup>4</sup> In contrast, consumption-based emissions use a full lifecycle accounting method that sums up the GHGs of all energy, transportation, food, goods, and services consumed by San Francisco households and governments, regardless of where they were released to the atmosphere.<sup>5</sup> Consumption-based inventories include emissions generated outside city borders to produce any goods and services for consumption by residents. Assessing consumption-based emissions provides additional opportunities for reducing emissions and helps avoid inequities associated with outsourcing high-emissions activities to other communities.<sup>6</sup> The table below shows the City's GHG targets.

| MILESTONE YEAR | SECTOR-BASED TARGET   | CONSUMPTION-BASED TARGET |
|----------------|---|--------------------------|
| 2030           | 61% below 1990 levels   | 40% below 1990 levels    |
| 2040           | Net-zero (at least 90% below<br>1990 levels with the remainder<br>sequestered or removed) | _                        |
| 2050           | _   | 80% below 1990 levels    |

Table 2: City of San Francisco GHG Emission Reduction Targets. Source: San Francisco CAP, San Francisco Environment Code.

To develop the CAP, the Department of the Environment led an extensive stakeholder engagement process with the goal that all communities be supported throughout the transition to a climate-just future. Since the primary goal of this analysis is to identify CAP funding strategies, this summary describes just a portion of the total breadth and scope of the CAP, focusing specific attention on the highest-profile investment items where significant infrastructure and/or spending will be needed. A number of outreach, policy, and programmatic actions in the CAP are equally important to the CAP's success as the major capital investments, but they are not highlighted in this summary since their anticipated costs—while potentially significant—are orders of magnitude lower than those of the major investment initiatives and in many cases can be funded through the same strategies. However, the process of analyzing the CAP and developing a spending plan and priorities will reflect these supporting and enabling actions, and it will require incorporation of equity and environmental justice principles throughout.

The figures below show the City's GHG emissions profile and the relationship between sector- and consumption-based emissions inventories.



Figures 1 and 2: Figures 1 and 2: San Francisco's 2019 emissions inventory and the relationship between sectorand consumption-based inventories. Source: San Francisco CAP.

Building operations and transportation account for nearly 90 percent of emissions in San Francisco, with private vehicle use and natural gas combustion in buildings responsible for the vast majority of those two categories, at 72 percent and approximately 90 percent of their respective categorical emissions. As a result, while the CAP aims to address all sources of emissions, its most prominent (and potentially costly) strategies focus on buildings, transportation networks, and energy supply.

#### A. SIX FOCUS AREAS AND GOALS OF THE CAP

The CAP is structured in six core focus areas: Energy Supply (ES), Building Operations (BO), Transportation and Land Use (TLU), Housing (H), Responsible Production and Consumption (RPC), and Healthy Ecosystems (HE). For each sector, the CAP outlines multiple strategies to achieve various emission reduction (and associated) goals, and multiple specific actions within each strategy, totaling 31 strategies and 159 supporting actions. The City aims to complete these strategies and actions while also advancing four thematic lenses: racial and social equity, public health, community resilience, and a just economy.

The six focus areas of and associated goals of the CAP are broken down as follows:10

### Powering Homes, Vehicles, Businesses With 100% Renewable Energy

- Goal: 100% renewable electricity by 2025
- Goal: 100% renewable energy by 2040 (no fossil fuels)

### **Decarbonizing Building Operations**

- Goal: All new construction is zero emissions starting in 2021
- Goal: All large commercial buildings are zero emissions by 2035
- Goal: All buildings are zero emissions by 2040

### Decarbonizing Transportation & Investing in Public Transit

- Goal: By 2030, 80% of trips taken by low-carbon modes
- Goal: By 2030, at least 25% of all vehicles registered are electric, reaching 100% by 2040

### Creating More Equitable Housing

Goal: Build at least 5,000 new units per year, with no less than 30% affordable, focus on rehab of existing housing

### Sending Zero Waste to Landfills

- Goal: Reduce solid waste generation 15% below 2015 levels by 2030
- Goal: Reduce disposal to landfill 50% below 2015 levels by 2030

### Increasing Green Infrastructure & Drawing Down Carbon from The Atmosphere

Goal: Sequester residual emissions through nature-based solutions

### **B. CAP STRATEGIES WITH LARGEST EMISSION REDUCTION** POTENTIAL

While much of this analysis focuses on funding the largest investments needed to kick-start the goals and strategies of the CAP, it is important to understand which CAP actions will lead to the greatest emissions reductions. The following table highlights the 11 strategies that the CAP estimates will generate the greatest emissions reduction benefits, together with the CAP's estimated cost for those strategies. (Note: the CAP estimates potential GHG emissions benefits and costs by strategy and not by individual actions within each strategy.) Strategies are listed in order of estimated GHG reduction potential.

| STRATEGY  | REPRESENTATIVE ACTIONS  | GHG REDUCTION POTENTIAL BY 2030 (CAP ESTIMATE) | ESTIMATED COST<br>BY 2030 (CAP<br>ESTIMATE) |
|---|---|--|---|
| TLU.7: Where motor vehicle use or travel is necessary, accelerate adoption of zero-emissions vehicles (ZEVs) and other electric mobility options.   | 7-2: Expand publicly available EV charging citywide that is financially and geographically accessible to lowincome households and renters.  | Greater than 400,000 mtCO <sub>2</sub> e       | \$1-10 million                              |
|   | 7-3: By 2024, develop a plan to help the City's non-revenue fleet and small and locally owned businesses build infrastructure that allows for zero emission delivery, drayage, and longer haul trucks.  |  |   |
| TLU.3: Develop pricing and financing of mobility that reflect the carbon cost and efficiency of different modes and projects and correct for inequities of past investments and priorities. | 3-2: Advance local, regional, state, and federal opportunities to transition away from fossil fuels by increasing fees to driveIdentify and consider pricing mechanisms that can be implemented locally (e.g. vehicle license fee).   | 250,000 - 400,000<br>mtCO <sub>2</sub> e       | ≤ \$1 million                               |
|   | 3-3: Introduce new tools to manage short-term curb uses, such as flexible regulations and pricing.  |  |   |
| TLU.1: Build a fast and reliable transit system that will be everyone's preferred way to get around.  | 1-1: Fund and implement recommendations of the ConnectSF Transit Corridors Study and Muni Forward Plan, including taking steps to: a) implement key corridors for service every 5 minutes or better; b) invest in transit-only lanes, signal management, queue-jump lanes, c) retime traffic lights to minimize signal delay, and d) optimize stop spacing to maximize ridership. | 100,000 - 250,000<br>mtCO <sub>2</sub> e       | \$500+ million                              |

CHC DEDUCTION

| STRATEGY  | REPRESENTATIVE ACTIONS   | GHG REDUCTION POTENTIAL BY 2030 | ESTIMATED COST<br>BY 2030       |
|---|--|---------------------------------|---------------------------------|
|   | 1-6: By 2025, implement 50 miles of Muni Forward transit priority improvements, including 30 miles of new transit-only lanes. to increase reliability, frequency and safety for riders.  |                                 |                                 |
| BO.2: Eliminate fossil fuel use in existing buildings by tailoring solutions to different building ownership, systems, and use types.         | 2-2: By 2023, develop a time- of-<br>replacement policy that phases in<br>requirements that all newly installed<br>residential and other small building<br>equipment be efficient and all-electric.  | 100,000 - 250,000<br>mtCO2e     | \$500+ million                  |
|   | 2-6: SFO will prioritize all-electric<br>equipment replacements throughout<br>campus buildings.  |                                 |                                 |
| ES.1: Supply 100% greenhouse gas-free electricity to residents and businesses.  | 1-1: Provide 100% renewable electricity at affordable rates.   | 0 - 100,000 mtCO <sub>2</sub> e | \$500+ million                  |
|   | 1-3: Ensure 100% renewable electricity is the only option for San Francisco residents and businesses by 2025, by supporting state or local regulatory requirements and/or acquiring PG&E's grid assets serving San Francisco.                      |                                 |                                 |
| BO.1: Eliminate fossil fuel use in new construction.  | 1-1: By 2021, require newly constructed buildings to be efficient and all-electric with no on-site carbon emissions.   | o - 100,000 mtCO <sub>2</sub> e | Cost neutral, potential savings |
| TLU.2: Create a complete and connected active transportation network that shifts trips from autos to walking, biking, and other active modes. | 2-2: Expand community programs and partnerships to make biking more accessible, via safety and maintenance classes, community parking, and subsidies for electric bikes for lowincome residents.   | o - 100,000 mtCO <sub>2</sub> e | \$10-100 million                |
|   | 2-4: Expand the protected bikeway network by at least 20 miles by 2025.  |                                 |                                 |
| HE.3: Restore and enhance parks, natural lands and large open spaces.   | 3-2: By 2030, continue improving management of existing salt marshes and explore expanding restoration acreage of degraded Bayshore properties owned by the Port and Recreation and Parks at India Basin and at Candlestick State Recreation Area. | o - 100,000 mtCO <sub>2</sub> e | \$10-100 million                |

| STRATEGY   | REPRESENTATIVE ACTIONS  | GHG REDUCTION POTENTIAL BY 2030 | ESTIMATED COST<br>BY 2030 |
|--|---|---------------------------------|---------------------------|
| HE.5: Maximize trees throughout the public realm.                                  | 5-1: By 2040, plant 30,000 street trees in the sidewalk tree wells, approximately a 25% increase, to complete the street tree network.  | o - 100,000 mtCO <sub>2</sub> e | \$10-100 million          |
| HE.6: Maximize greening<br>and integration of local<br>biodiversity into the built | 6-5: By 2030, maximize replacing concrete to create biodiverse green space on public land.  | 0 - 100,000 mtCO <sub>2</sub> e | \$10-100 million          |
| environment.   | 6-6: By 2030, build 10 pollinator habitat landscapes at public housing sites.   |                                 |                           |
| HE.7: Conduct carbon sequestration farming pilot projects and research.            | 7-1: By 2024, apply approximately 500 wet tons of biosolids per year as a soil amendment and to sequester carbon on newly identified sites such as mine reclamation projects. | 0 - 100,000 mtCO <sub>2</sub> e | \$10-100 million          |

**Table 3:** CAP strategies by estimated GHG emission reduction potential. Source: San Francisco CAP. Cost and emissions reduction impact estimates are derived from the CAP and are not the authors' own estimates. In general, cost estimates identify costs to the City and may not reflect all costs to private parties and residents.

Other CAP strategies (not listed in this table) are identified as "Enabling/ Accelerating" as they are not expected to have a direct emission reduction impact but are key to the emission reductions identified in other actions. For example, only one of the Energy Supply strategies has an estimated GHG emission impact, while the other four are all considered "Enabling/Accelerating" of that impact. These other strategies—especially on housing affordability and housing habitability—are also vital to a successful and equitable CAP implementation process.

### C. SECTOR-BY-SECTOR SUMMARIES

This section provides an overview of the CAP's six sectors, the strategies in each sector that are anticipated to require the most significant financial investment (in general, those estimated at \$10-100 million or greater), and the actions within each such strategy that are mostly likely to involve significant expenditures (rather than solely consisting of supporting and/or policy actions). The sectors are listed in approximate order of emission reduction potential. See Appendix B for a complete list of CAP strategies and actions.

### 1. Building Operations

### **Background**

In 2019, buildings were responsible for 41 percent of citywide emissions (2.02 million mtCO2e), roughly split between residential and commercial buildings. 11 Of that total, the overwhelming majority (87 percent) was from natural gas burned to operate heating systems, boilers, water heaters, clothes dryers, and cooking appliances while 13 percent was from electricity.<sup>12</sup> While emissions from buildings have successfully been cut in half since 1990, completing net-zero emissions by 2040 will require a strategic shift from natural gas to 100% renewable electricity. Decarbonization efforts will require mass retrofitting of gas appliances and heaters while installing clean all-electric equipment for tens of thousands of tenants and working-class individuals. The City instituted an all-electric new construction requirement in 2021, achieving a CAP strategy (BO.1-1: "By 2021, require newly constructed buildings to be efficient and all-electric with no on-site carbon emissions") that will take decades to achieve significant emissions reduction benefits. In early 2022, Mayor London Breed joined the White House-led National Building Performance Standards Coalition, along with three other California cities and over thirty jurisdictions nationwide committed to enacting building performance standards by April 2024.<sup>13</sup>

Many of the strategies and key actions in this section will rely on action and investment by individual residential and commercial building owners, rather than direct infrastructure or capital investment by the City. As a result, success will likely rely on a suite of incentives and financing programs incorporating local, state, federal, and utility funding streams to spur private building owner upgrades, together with direct City investments in priority communities and segments.

#### Selected Capital-Intensive Investment Strategies

# BO.2: Eliminate fossil fuel use in existing buildings (2030 cost: \$500+ million)

Key investment actions:

- Develop a system to monitor the replacement rate of existing private sector natural gas equipment and report to BOS (BO.2-1)
- Develop a time-of-replacement policy to require all newly installed residential and other small building equipment be efficient and all-electric (BO.2-3)
- Ensure the City's Capital Plan is updated to reflect the need to replace gas equipment (BO.2-5)
- Adopt a building performance policy requiring large commercial buildings to transition to electrification by 2035 (BO.2-7)

# BERKELEY'S EXISTING BUILDING STRATEGY

In November 2021, the City of Berkeley released an Existing Building Electrification Strategy with a focus on equitable implementation including four "equity guardrails" promoting health and safety benefits, economic benefits, ease of installation, and housing affordability and anti-displacement. The strategy calls for policies mandating electrification at point of sale, lease, or renovation and via phased-in performance standards for existing buildings by 2030. The strategy emphasizes the need for affordable and accessible funding and financing strategies, including measures such as gas equipment fees with equity exemptions and tariffed on-bill financing.14

### 2. Transportation and Land Use

### **Background**

Eliminating emissions from transportation will require a fundamental change in how people move around and how transportation and land use efforts are prioritized, funded, and implemented. Transportation is responsible for 47percent of San Francisco's total emissions. 72percent of that amount comes from cars and trucks (only 3percent is from transit). As part of the CAP, the goal is for 80percent of all trips to be made by walking, biking, or transit by 2030, along with having a full 25percent of all vehicles electrified. By 2040, the goal is to have 100% of all vehicles electrified.

While City agencies and leaders will need to craft innovative programs and fund major capital investments to drive transportation decarbonization, they will be operating in the context of regional and statewide transportation networks and funding programs. Coordination with regional partners through the Metropolitan Transportation Commission will be particularly important, as will funding multijurisdictional transit programs that are vital to reducing reliance on automobile travel, including Bay Area Rapid Transit and Caltrain. Efforts to develop seamless Bay Area transit network planning and interoperability–such as the proposed Senate Bill 917–could help advance CAP implementation.<sup>15</sup>

The role of land use decisions in reducing emissions is central. Although for much of the past century land use decisions incentivized private vehicle ownership and sprawl, recently San Francisco has reversed that trend by removing parking requirements and revising density controls to enable the denser housing more reflective of walkable communities. Much more can be done in the urban and dense environment of San Francisco to further coordinate transportation and land use. In addition, pricing strategies for downtown core access and for parking—which City leaders are actively considering—have the potential to raise revenue for new investments while disincentivizing private vehicle use. These strategies create the potential for highly efficient emissions reduction, although careful consideration of equitable pricing will be vital. A number of existing City policies and programs support implementation of these CAP strategies, including the Transit First policy (Charter § 8A.115); Vision Zero; an Electric Vehicle Roadmap; the Transportation Demand Management policy (Planning Code § 169); the ConnectSF Transit Corridors Study; the Downtown Congestion Pricing Study; and the Muni Forward Plan.

### Selected Capital-Intensive Investment Strategies

# TLU.1: Build a fast, reliable, and preferred transit system (2030 cost: \$500+ million)

Key investment actions:

 Fund and implement ConnectSF Transit Corridors Study and Muni Forward Plan including transit corridors and lanes and major capital

- projects including Westside Subway, Caltrain Downtown Extension, Central Subway extension, and Link21 new transbay tube (TLU.1-1)
- Fund repairs with at least \$300 million annually (TLU.1-2)
- Implement 50 miles of Muni Forward improvements by 2030 including 30 miles of transit-only lanes (TLU.1-6)
- Fund regional-local connector projects and regional projects including Caltrain Downtown Rail Extension, Caltrain Service Vision, Second Transbay Crossing, California's State Rail Plan, and ferry projects (TLU.1-8)

# TLU.2: Create a connected active transportation network (2030 cost: \$10-100 million)

Key investment actions:

- Expand programs that provide active transportation corridors including connecting slow streets and bikeways (TLU.2-1)
- Expand community bike parking and bike access subsidies in lowerincome communities (TLU.2-2)
- Expand protected bikeway network by 20 miles by 2025 (TLU.2-4)

# TLU.7: Accelerate the adoption of zero-emissions vehicles (ZEVs) and other electric mobility options (2030 cost: \$1-10 million)

Key investment actions:

• Expand publicly available EV charging across the city that is financially and geographically accessible to low-income households and renters (TLU.7-1)

### 3. Energy Supply

### **Background**

The San Francisco Public Utilities Commission (SFPUC) and Pacific Gas & Electric (PG&E) are the two energy providers for San Francisco. SFPUC provides more than 70 percent of the electricity consumed in the city through two programs: Hetch Hetchy Power and CleanPowerSF. Hetch Hetchy Power is San Francisco's publicly owned utility that has been generating hydroelectric power for more than a century. It energizes municipal services such as Muni, public schools, and the SFO Airport, as well as thousands of residential and commercial customers. SFPUC also operates CleanPowerSF, a community-choice aggregation program (CCA) providing power to 380,000 residents. PG&E is the investor-owned utility (IOU) providing power to remaining residents and some commercial customers, and there are also some Direct Access customers who privately procure energy for large commercial and industrial customers. SFPUC operates many programs aimed at equity and helping all residents

adopt cleaner energy, such as energy bill assistance, GoSolarSF incentives, a Disadvantaged Communities Green Tariff and the in-development Community Green Tariff.

The CAP Energy Supply strategies include converting San Francisco's energy supply to 100% GHG-free electricity by 2025 (ES.1); investing in local renewable energy and resilience projects (ES.2); and developing a reliable and flexible local electrical grid (ES.3). The CAP estimates costs for these strategies at \$500+ million, \$10-100 million, and \$500+ million respectively.

### ACQUIRING PG&E'S DISTRIBUTION GRID ASSETS

Acquiring the electrical distribution grid assets owned by PG&E in San Francisco (ES.1-3) is a key component of ensuring rapid decarbonization, as it would place the entire electricity supply under the City's commitment to 100% carbon-free power and could accelerate the deployment of distributed generation and energy storage projects while supporting significant increases in flexible supplies needed for building and vehicle electrification efforts. <sup>16</sup> In 2019, the City offered PG&E \$2.5 billion to acquire the grid assets. PG&E rejected that offer and negotiations over the potential transaction, which include oversight by the California Public Utilities Commission, are ongoing. <sup>17</sup> While the acquisition itself would not reduce consumption of fossil fuel-based power sources, it is seen as a significant (and capital-intensive) enabling step .

### Selected Capital-Intensive Investment Strategies

### ES.1: Supply 100% GHG-free electricity (2030 cost: \$500+ million)

Key investment actions:

- Provide 100% GHG-free power at affordable rates by 2025 (ES.1-1)
- Acquire PG&E grid assets (ES.1-3)
- Expand programs and preferential rates for lower-income residents (ES.1-4)

# ES.2: Invest in local renewable energy and resilience projects (2030 cost: \$10-100 million)

Key investment actions:

- Assist affordable housing to install onsite solar and storage (ES.2-1)
- Develop onsite solar on City-owned buildings and reservoirs (ES.2-2)
- Scale up net metering, community solar, feed-in tariffs, and battery storage programs (ES.2-4)

# ES.3: Develop reliable and flexible grid of the future (2030 cost: \$500+ million)

Key investment actions:

- Develop SFPUC Integrated Resource Plans for electrification (ES.3-1)
- Invest in distribution infrastructure and smart grid technology (ES.3-3)

### 4. Responsible Production and Consumption

### **Background**

In addition to reducing waste and optimizing recycling, the CAP is looking at the impact of material production and the overall impact of consumption. San Francisco has long led on pursuing zero waste and reducing exposure to harmful chemicals. Now, the CAP aims to begin to address the lifecycle impacts of the products, goods, and services that flow in and out of San Francisco. The City plans to use a Consumption Based Emissions Inventory to best assess and act strategically to cut emissions, while aligning other activities with climate actions goals. The CAP aims to cut down on solid waste generation by 15 percent solid waste generation and 50 percent of landfill waste by 2030, compared to 2015 levels. Previously, San Francisco cut waste nearly by 50 percent between 2000 and 2012, but recent years have seen a reversal of the trend. Currently, there are mandatory recycling and composting programs for private properties. The CAP aims to expand the programs and invest in landfill diversion to reduce climate impacts.

### Selected Capital-Intensive Investment Strategies

RPC.2: Reduce the carbon footprint of the food system by reducing waste, promoting climate friendly diets, and getting excess food to communities in need. (2030 cost: \$1-10 million)

Key investment actions:

 Develop and maintain Food Waste Prevention and Edible Food Recovery policy and develop a program and incentives structure for compliance and monitoring in alignment with California's State Bill 1383 food recovery regulations. (RPC.2-3)

### 5. Healthy Ecosystems

### **Background**

The CAP's Healthy Ecosystems strategies and supporting actions are more limited on significant spending requirements and revenue generating opportunities. The City has undertaken a number of ambitious policies to manage healthy ecosystems, including the San Francisco Urban Forestry Council, Urban Forest Plan, forest financing report, 2018 Biodiversity Resolution, and Significant Natural Resource Areas Management Plan. However, as acknowledged in the CAP, urban green space and access to nature are not equitably distributed throughout the city and the City's ambitious policies are only a starting point–for example, San Francisco has one of the smallest tree canopies (13.7%) of any major US city, and cover is lowest in many high-priority communities such as Bayview-Hunters Point (6.7%), Chinatown (5%), and Excelsior (10.3%).<sup>19</sup> There are numerous opportunities to leverage these policies to create crucial carbon sequestration tools that will help San Francisco meet climate goals and create other community benefits, including a number of CAP strategies. Looking beyond the 49 square miles of the city boundaries, the Healthy Ecosystem sector will also address lands in surrounding counties, including watershed lands that protect water supplies, that San Francisco owns and manages as part of resource management.

### Selected Capital-Intensive Investment Strategies

HE.3: Restore and enhance parks, natural lands and open spaces (2030 cost: \$10-100 million)

Key investment actions:

- Expand the City's natural areas preservation system through land transfers and acquisitions of undeveloped/unprotected private and public lands by 2030 (HE.3-1)
- Expand restoration acreage of degraded Bayshore properties owned by the Port and Recreation and Parks at India Basin and at Candlestick State Recreation Area by 2030 (HE.3-2)
- Create a 3-acre horizontal levee at Heron's Head Park by 2025 (HE.3-3)
- Restore and create 173 acres of natural ecological parkland on Yerba Buena and Treasure Islands by 2030 (HE.3-4)
- Restore 100+ acres of upland and wetland habitats at the San Bruno Jail and SFO West of Bayshore Properties by 2030 (HE.3-5)

# HE.4: Optimize management of the city's urban forest system (2030 cost: \$10-100 million)

Key investment actions:

- Complete the Urban Forest Master Plan Phases 2 (Parks and Open Space) and Phase 3 (Private Lands and Backyards) by 2023 (HE.4-2)
- Expand urban wood waste diversion to maximize carbon sequestration and conserve landfill space by 2023 (HE.4-3)

HE.5: Maximize trees throughout the public realm (2030 cost: \$10-100 million)

### Key investment actions:

- Plant 30,000 street trees in the sidewalk tree wells by 2040 (HE.5-1)
- Create a City-managed and -dedicated street tree nursery by 2023 (HE.5-3)

# HE.6: Maximize greening and integration of local biodiversity (2030 cost: \$10-100 million)

Key investment actions:

- Revegetate degraded City and State major expressway, highway and rail corridors with hardy, low-maintenance trees and shrubs by 2026 (HE.6-3)
- Create a City-owned and managed local native plant nursery that supplies plants annually to City agencies by 2025 (HE.6-4)
- Replace concrete to create more biodiverse green space on public land by 2030 (HE.6-5)
- Build 10 pollinator habitat landscapes at public housing sites by 2030 (HE.6-6)
- Fully implement the Sunset Boulevard Biodiversity Master Plan by 2030 (HE.6-7)

# HE.7: Conduct carbon sequestration farming pilot projects (2030 cost: \$10-100 million)

Key investment actions:

- Apply approximately 500 wet tons of biosolids per year as a soil amendment by 2024 (HE.7-1)
- Improve compliance with Environment Code Chapter 19 and SB 1383 and optimize organics processing (HE.7-2)
- Pilot appropriate carbon sequestration techniques as part of ongoing ecological restoration of degraded habitats within SFPUC lands by 2030 (HE.7-3)

### 6. Housing

#### **Background**

Ensuring that San Francisco is affordable and livable for its diverse population will be vital to success in reducing emissions and building long-term resilience. Providing housing to people of all incomes near services, jobs, and activities helps replace private vehicle trips with low-carbon modes such as walking, biking, and transit.<sup>20</sup> Therefore, in line with its equity goals, the CAP prioritizes increasing the amount of housing available with a focus on affordable and

inclusive housing options: the target is to build 5,000 new units per year, 30 percent of them affordable.<sup>21</sup> The City's Regional Housing Needs Assessment (RHNA) allocation, a state and regionally determined and approved target for housing construction, is anticipated to include an 8-year target of 82,000 units.<sup>22</sup> The existing guiding policy for housing is the 2022 Housing Element update, as part of the City General Plan. Overall, the goal is to increase the supply of affordable, compact, infill housing production near transit that can help residents avoid vehicle trips; preserve and upgrade existing affordable units; and build resilience and equity by supporting underserved residents.<sup>23</sup>

The San Francisco Housing Accelerator Fund (HAF), a nonprofit created to accelerate the acquisition and preservation of affordable housing through a combination of lending and direct investment, could be key to realizing CAP housing goals. HAF provides predevelopment and acquisition loans to affordable housing developers for new construction and to nonprofit housing operators for small and large site acquisition and rehabilitation, with oversight from the City. A revolving fund including City seed funds helps attract private and philanthropic capital, allowing HAF to move quickly to deploy funds when a parcel or building comes on the market. HAF's primary programs include provision of bridge loans for nonprofit property developers to begin affordable housing acquisition and development while securing City and state grant funds; and direct acquisition and development of new affordable and supportive units. Since 2017, HAF has funded acquisition, construction, or preservation of over 1,500 affordable units housing over 2,600 San Franciscans.<sup>24</sup>

The combination of financing and direct investment strategies and mix of capital sources offers a promising model for affordable housing development in line with CAP goals. HAF has the capacity to target decarbonized construction and rehabilitation projects with additional funding; additional funding could directly fund new zero-carbon acquisition and development projects and/ or pay the marginal cost of renovations and technologies to decarbonize rehabilitated affordable housing units, as well as fund staff or consultant time to perform decarbonization technical assistance across the program's portfolio. In addition, funding for new HAF development and preservation of affordable housing near transit could help achieve CAP goals by addressing carbon emissions associated with displacement and the lack of affordable housing in San Francisco.<sup>25</sup>

### Selected Capital-Intensive Investment Strategies

H.1: Housing and stabilization programs to anchor and return BIPOC families (2030 cost: \$10-100 million)

Key investment actions:

- Expand tenant services including education, outreach, counseling, and legal and rent assistance (H.1-3)
- Initiate steps to increase housing production, particularly affordable and accessible housing (H.1-4)

H.2: Preservation and rehabilitation of existing housing and new housing development that serves vulnerable populations and disadvantaged communities (2030 cost: \$100-500 million)

Key investment actions:

- Provide funding and resources to help people who are unhoused or without stable housing become and stay safely housed (H.2-1)
- Subsidize and develop incentives for building housing targeted towards vulnerable populations in high resource areas (H.2-2)
- Initiate steps to fund the acquisition and preservation of 400 units of existing, affordable, multifamily housing annually (H.2-3)

H.4: Expand subsidized housing production and availability for low-, moderate-, and middle-income households (2030 cost: \$100-500 million)

Key investment actions:

- Increase production of affordable housing to meet RHNA target (H.4-1)
- Renew and increase public and private funding for affordable housing by 2025 as one-time bond funds and ERAF allocations are depleted (H.4-2)



## III. REVENUE STRATEGIES

This section provides a brief analysis of the central revenue generation sources available to the City to fund the strategies outlined in the Climate Action Plan, including a discussion of funding and financing mechanisms available to California local governments and a review of potential revenue generation opportunities contained within CAP actions.

To fund the actions identified in the Climate Action Plan, the City will need to take a number of steps, including:

- Leveraging existing revenue sources that are not currently being applied to climate action (or perhaps are not being applied to the fullest extent possible)
- Developing new revenue streams from traditional municipal sources such as bonds, taxes, and fees, while accounting for equity
- Crafting innovative measures ranging from special districts to publicprivate partnerships and grant opportunities
- Accessing state and federal grant funds, as well as philanthropic and corporate funds.

These sources will likely include both funding and financing options (defined below) to ensure both immediate and sustained, long-term sources of funds for CAP actions.

The estimated cost of full CAP implementation is still being determined and will evolve over decades of action. But as described in the preliminary cost analysis in the Executive Summary, it is clear that successful implementation will likely require tens of billions of dollars in public and private funds over multiple decades. No single revenue source will be financially sufficient or structurally appropriate to provide all of these funds. Rather, the City will have to embrace a mixed approach.

As City leaders evaluate funding strategies to pursue, they should consider the effectiveness, feasibility, and equity implications of each measure. In particular, when determining effectiveness, leaders should assess each measure for its:

- Adequacy to meet the revenue needs for particular CAP actions
- · Sustainability and stability of funds over time
- Potential to deliver emissions reductions
- Potential to deliver and socioeconomic co-benefits

#### A. EXISTING CITY REVENUE SOURCES

According to an analysis in the CAP, local tax revenues provide the vast majority of San Francisco's revenue, comprising over \$4.2 billion of the \$5.7 budgeted for the City's General Fund in Fiscal Year 2019-2020; nearly half of local tax revenue (approximately \$2 billion) comes in the form of property taxes.<sup>28</sup> In Fiscal Year 2019-2020, San Francisco's revenue sources included:

Local tax revenue: 74% (of total revenue)

State subventions: 15%Federal subventions: 5%

Service charges: 4%

• Licenses, fines, interests, and rent: 2%

Local tax revenue sources include:

• Property taxes: 48% (of all tax revenue)

Business taxes: 26%Hotel room tax: 10%

Real property transfer tax: 7%

• Sales tax: 5%

• Utility users tax: 2%

Parking tax: 2%

The balance of City revenue and of local tax revenue shifted during 2020 and 2021 due to the COVID-19 pandemic; for example, hotel and business taxes declined sharply while federal aid increased.<sup>29</sup> However, as business activity returns to pre-pandemic levels, historic revenue balances (such as those from FY 2019-2020) will likely return and should be a useful predictor for future balances.

#### **FUNDING AND FINANCING**

Funding and financing are distinct pathways to pay for public projects and capital investments, and most governments regularly deploy a combination of both to fund their operations, including their climate-related investments. Funding generally describes tax revenue, fees, grants, or other public dollars that pay for project implementation without repayment obligation. Financing generally includes bonds, loans, or other mechanisms that allow a government to borrow money to cover project expenses with an eventual repayment obligation, including any interest that has accrued over time. Governments can use revenues generated by a completed project or another source of funds (such as tax revenue) to pay financing costs.<sup>26</sup> Financing measures can also include strategies such as credit enhancement and revolving loan funds that are distinct from government borrowing but can leverage public funds to attract private investment in decarbonization. For such measures, governments typically identify public funds that will seed the financing program; develop a structure to de-risk private investment (such as a loan loss reserve); and then use the program to connect desired projects to capital.

As implemented by public agencies, the key distinction is sometimes described as "pay-as-you-go" funding (i.e., projects are completed with currently available funds) versus "pay-as-you-use" debt financing (i.e., funds are borrowed to complete projects and then repaid over time). Key considerations include the project's financial feasibility with present funds or any mismatch between construction and revenue timelines; the urgency of the project; and generational equity considerations regarding who benefits and who pays.<sup>27</sup>

# B. POTENTIAL REVENUE-GENERATING MECHANISMS TO FUND THE CAP

A range of funding and financing mechanisms have the potential to generate revenue to fund the actions outlined in the CAP. The City will need to combine versions of these taxes, fees, bonds, special districts, grants, and other sources in overlapping and iterative fashion to fund the CAP's ambitious, multi-decade decarbonization program.

This section provides an overview of strategies available to the City-including many the City already employs to some extent but could expand-and a discussion of how they might fit with the items included in the CAP.<sup>30</sup> The strategies in this section are not necessarily recommended for prioritization by City leaders; see the Executive Summary for top-priority recommendations and Appendix A for a full list of strategies identified by stakeholders.

#### Taxes

Local governments use taxes on real property, business conducted within the jurisdiction, and certain other activities to provide general fund revenue and pay for budgeted programs as well as to secure and repay debt.<sup>31</sup> (For example, most general obligation bonds are secured and repaid with property tax revenues.) California local governments face a number of restrictions on their taxation authority under Proposition 13 and its associated constitutional provisions, which generally require voter approval for new tax measures, including a supermajority requirement for many taxes and a small group of exceptions for certain types of fees and charges.<sup>32</sup>

Property taxes are the City's most significant source of revenue, currently generating approximately \$2 billion annually for the City's General Fund, based on an approximately 1 percent assessment on all real property in San Francisco. Property taxes are the primary revenue stream used to support financing instruments including issuance of general obligation bonds, which allow the taxing government body to access revenue immediately to fund near-term projects. Property tax assessments are often the source of revenue for special financing districts. Under California's Proposition 13, two thirds of voters must approve any property tax increase, and increases are generally constrained in total amount and in applications, potentially limiting the usefulness of standard property tax increases to support CAP investments.

Parcel taxes generally take the form of a flat fee (rather than percentage assessment) per parcel of property, meaning owners pay the same amount regardless of the size or value of their property. Parcel taxes can raise a predictable and significant amount of revenue, but the flat rate across all property and community types results in inequitable outcomes, as high-income and low-income property owners pay the same flat rate. For example, 2016 Bay Area Measure AA instituted a \$12 parcel tax to fund approximately \$25 million per year in regional restoration and resilience efforts.

Sales taxes are a common source of local and regional transportation funding throughout California, such as the ½-cent taxes instituted in Los Angeles (Measure M, 2016), San Diego (Proposition A, 2004), and San Francisco (Proposition K, 2003). Sales taxes follow Proposition 13's requirement of two-thirds voter approval for any tax imposed for specific purposes (i.e., a "special" tax) or simple majority voter approval for any tax imposed for general purposes (i.e., a "general" tax).<sup>33</sup> A citywide gas tax—which would be imposed on top of existing federal and state gas taxes—would carry the same public approval requirements as any other tax on the sale of goods, but with the benefit of disincentivizing a significant GHG-emitting activity in line with CAP goals. Sales taxes (including gas taxes) are generally quite regressive since they consume a higher proportion of the assets of lower-income residents, and thus they could diminish the overall equity of a CAP revenue-generation plan.

Business taxes are imposed on the total receipts of most businesses operating in the City and generate hundreds of millions of dollars in City revenue each year. Business taxes require voter approval under Proposition 13. In 2020, San Francisco voters approved Proposition F which transitioned the City from a payroll tax to a gross receipts tax and raised the exemption threshold for small businesses.<sup>34</sup> Portland's Clean Energy Surcharge funds climate action programs through a 1 percent gross receipts tax on large, high-revenue retailers.<sup>35</sup> Some view this tax as a business tax rather than a sales tax since it is imposed on gross receipts and not on each transaction, and since its limitation to large retailers with gross income over \$1 billion means that affected businesses are national or international in character and thus less likely to pass new costs through to local residents (and more likely to raise costs, if at all, across all locations).

Transfer taxes are imposed at the point of sale of real property and generate over one hundred million dollars in City revenue each year. Transfer tax increases require voter approval under Proposition 13. Senate Bill 2 (2017) added a \$75 state transfer tax, with fifty percent of proceeds made available to local governments to streamline housing production.<sup>36</sup>

Vacancy taxes are imposed on unoccupied residential and commercial real property units. These taxes are designed to motivate owners and investors to sell or rent unoccupied units, addressing housing supply concerns while also creating an additional source of revenue for a local jurisdiction. The City currently administers a commercial property vacancy tax which generates revenue for small business support.<sup>37</sup> A recently introduced proposal for the November 2022 ballot would institute a vacancy tax ranging from \$2,500 to \$5,000 per unit per year, with escalations for consecutive years of vacancy (defined as occupied for less than half the year). 38 A January 2022 City Budget and Legislative Analyst analysis on the number of residential vacancies in San Francisco, reasons for vacancies, comparison to other cities, and policy options concluded over 40,000 housing units are vacant, or approximately ten percent of San Francisco's more than 400,000 housing units. Approximately half of vacant units are in sale or leasing processes, and half are vacant for other reasons including occasional use, ongoing repairs, and personal or family reasons.<sup>39</sup> Notable jurisdictions with residential vacancy taxes include Washington, DC (adopted in 2016), Vancouver (2017), British Columbia (2018),

and Oakland (2018). Oakland's Vacant Property Tax established an annual tax of \$3,000 to \$6,000 on vacant properties, determining that a property is considered vacant if it is "in use less than fifty days in a calendar year," and not subject to any exemption. Deritish Columbia's speculation and vacancy tax applies to about 6,500 residential properties (primarily owned by foreign residents and satellite families) and raised about \$80 million in revenue during the 2020 tax year. Derkeley is also currently considering a vacancy tax.

Personal income taxes are the greatest source of revenue for the state of California and are among the most equitable forms of revenue generation because of their progressive imposition, but there are no local government income taxes in California.<sup>43</sup> Prior to 2021, San Francisco imposed a payroll expense tax on employers which was often characterized as an income tax since it was calculated on employee pay (i.e., income) and employers could pass it through to employees.<sup>44</sup> While income taxation at the local or regional level would likely require authorization by the state legislature or potentially an amendment to the state Constitution, it represents one of the greatest opportunities to raise significant levels of revenue in a manner that reflects ability to pay and does not impose disproportionate burdens on lower-income residents. A regional approach would mitigate risk of out-migration from San Francisco.

A carbon tax could be imposed on greenhouse gas emissions or energy consumption specifically to fund CAP investments and disincentivize emitting activities. Such a tax would require voter approval (subject to Proposition 13 special/general tax requirements) but could potentially be structured in a progressive fashion to avoid inequitable imposition. The commercial buildings greenhouse gas emissions tax included in this report's recommendations would be a form of carbon tax. Because California's state-level cap-and-trade program covers major energy generation and industrial facilities and San Francisco contains very few of either, a city carbon tax would primarily cover building energy consumption (electricity and natural gas) and vehicle energy consumption (gasoline and, increasingly, electricity). Given the complexity of emissions measurement and verification, implementation of a carbon tax at the city level could prove challenging, although the City has made significant progress on commercial building emissions through the reporting requirements of the Existing Buildings Energy Ordinance.<sup>45</sup>

Some analyses use the term Climate Action Plan tax to describe a carbon tax (or any tax) that is introduced to fund CAP investments; in practice, any tax measure described in this section could be considered a Climate Action Plan tax.

### 2. Fees

California local governments' ability to assess fees is generally less restricted than the ability to tax, but fees must be narrowly tailored to ensure that the funds they generate are used to fund a program or project that specifically benefits the payors of the fee.<sup>46</sup>

Utility user fees are collected from a variety of activities, such as building permit fees or solid waste fees. The City collects a relatively small portion of its total revenue from utility user fees, but this revenue stream may be a candidate for funding energy- or transportation-related CAP projects, as user fees are collected from energy and transportation activities. Similarly, Responsible Production and Consumption CAP activities could continue to be partially funded through solid waste fees, a type of user fee collected by the City. Utility user fees have the benefit of linking directly to energy, transportation, and waste services that are the subject of CAP decarbonization investments; however, they are typically imposed uniformly, and thus can be regressive in nature.

Vehicle registration and parking fees are paid by drivers who register a vehicle through the state Department of Motor Vehicles (a portion of this fee is passed to local jurisdictions) or who park vehicles in San Francisco. San Francisco implements a parking space occupancy tax "for the rent of every occupancy of parking space in a parking station in the City and County." Increasing the parking tax to collect additional revenue would be subject to Proposition 13 and require approval by two-thirds of voters.

SFMTA also collects fees from residential parking permits required for street parking in designated permit areas covering approximately one quarter of the city.<sup>48</sup> The program is currently operated on a revenue-neutral basis, with permit costs designed to generate just enough revenue to cover program operation costs. Expanding the parking permit system to include all parking uses of the curb (private curb cut access and street parking) and to cover the entire city, modifying it to allow for positive revenue generation, and increasing rates accordingly could generate tens of millions of dollars in sustained funds to support transportation investments in line with CAP actions. While SFMTA has traditionally operated the permit program on a revenue neutral basis, the California Constitution and state law likely accord cities the ability to charge reasonable fees for the use of public space (i.e., the curb) that generate positive revenue without triggering the restrictions of Proposition 13, a strategy legal experts have called for to support transit networks after COVID slowdowns.49 (City leaders could also adopt a more robust parking fee system as a publicly approved tax measure under Proposition 13 rules, but it would not be necessary.) However, a parking tax or fee could raise equity concerns if its imposition is regressive and burdens San Francisco's lowest income residents; solutions include charging for curb cuts that provide access to private driveways (so owners of private parking spaces are not exempted) and dynamic pricing (which could charge lower rates in lower-demand neighborhoods, although this strategy would require close evaluation as it could reduce rates in lowdensity, high-income residential areas). San Francisco also has special state law authorization to institute an additional local vehicle registration fee and the San Francisco County Transportation Agency administers a \$10 vehicle registration fee, approved in 2010, to fund road repair and transit investments.<sup>50</sup>

Development impact fees are collected from new development projects within San Francisco. Collected revenue funds mitigations to increased strain on City services (e.g., more passengers at a particular Muni stop may be offset with Muni service enhancements).<sup>51</sup> Impact fees are generally not subject to Proposition

13's requirements since they are classified as fees imposed in exchange for a specific benefit not conferred to the general public. The most recent fee information, including a list of specific developments required to pay the fee, is available through the Impact Fee Register.<sup>52</sup> The Capital Planning Committee oversees rate increases. Article 4 of the City Planning Code covers development impact fees, including evaluation of fees and requirements for implementation.<sup>53</sup>

### 3. Bonds<sup>54</sup>

Local governments issue bonds in a range of formats to finance capital investments and public programs, with a range of local revenue streams-principally property taxes-providing security and repayment of the debt. California municipal finance and capital planning departments manage complex investment and revenue considerations when crafting bond proposals, with voters often responsible for final approval. One key advantage for municipal debt issuers-the ability to sell tax-exempt bonds which many investors prefer and are thus cheaper to issue-may be unavailable when the planned investments are for private use or benefit, which could limit the scope or size of potential bonds for building decarbonization and vehicle electrification measures in the CAP.<sup>55</sup>

General obligation bonds are government-issued debt secured by local property tax revenue and are a common financing instrument used by local governments. General obligation bonds enable local governments to facilitate immediate and predictable access to revenue to fund major investments. General obligation bonds require approval of two thirds of eligible voters and their proceeds must fund improvements to real property or infrastructure that are deemed a public necessity by the Board of Supervisors. Per the City Charter, San Francisco is bound to a cap on outstanding general obligation bond indebtedness of 3 percent of the assessed value of taxable property within the city, and plans future bonds within this cap on a multi-year schedule; in addition, the Office of Resilience and Capital Planning has committed not to issue GO bonds that increase property tax rates above 2006 levels.<sup>56</sup> These two limitations may make it challenging to introduce significant new CAP-related general obligation bonds. However, these limitations are self-imposed measures meant to promote fiscal responsibility by preserving the City's bond rating, buyers' interest in City issuances, and the faith of taxpayers; they can be modified, and to the extent climate change poses a threat to the City's long-term resilience (and property values), they may merit raising specifically to allow for more CAPfocused investment.

The table below shows the upcoming proposals on the City's general bond obligation schedule that may be relevant to CAP investments and climate programs. Proposition A, the June 2022 \$400 million transportation bond that was largely devoted to Muni system maintenance and safety measures, narrowly failed to receive the requisite majority of votes, which could have significant implications for the bond schedule and future Muni system investments, including creating potential for a more CAP-oriented transportation bond in the near future.<sup>57</sup>

# SAN FRANCISCO GENERAL OBLIGATION BOND PROGRAM (Dollars in millions)

| ELECTION DATE | BOND PROGRAM                           | AMOUNT |
|---------------|--|--------|
| June 2022     | Transportation                         | 400    |
| November 2023 | Public Health                          | 187    |
| November 2024 | Affordable Housing                     | 160    |
| November 2026 | Waterfront Safety                      | 130    |
| November 2027 | Earthquake Safety & Emergency Response | 217    |
| November 2028 | Parks and Open Space                   | 151    |
| November 2031 | Public Health                          | TBD    |
| TOTAL         |  | 1,245  |

Figure 3: Upcoming San Francisco GO bond schedule. Source: OneSF Capital Plan Overview. 58 June 2022's Proposition A failed to receive the requisite supermajority of votes for passage.

Revenue bonds are government-issued debt secured by the future revenue generated by the project that the bonds finance. Voter approval is required for most revenue bonds, but bonds for port- and airport-related projects secured exclusively by port and airport revenues, bonds for electric power facilities owned by the San Francisco Public Utilities Commission, and bonds for renewable energy and energy conservation equipment or facilities can be approved by the Board of Supervisors or the relevant City departments. Because the project itself is the source of revenue that supports the bond issuance, revenue bonds would likely only be viable for revenue-generating projects in the CAP such as new energy investments. SFPUC's revenue bond program includes the City's first green bond, a 2015 issuance that generated \$30 million for clean energy and energy efficiency projects. 60

Environmental impact bonds finance environmental and resiliency projects, allowing for upfront capital to cover investments that enhance local environment and resilience goals. Environmental impact bonds are an emerging financial instrument, and differ from green bonds, which are more commonly used. An environmental impact bond links financial return to project performance, resulting in higher financial returns when a project achieves environmental benefits.<sup>61</sup> Environmental impact bonds could be leveraged to finance CAP actions, and CAP actions with performance metrics may be strong candidates for environmental impact bonds.

Green bonds are a certification applied to bonds that support climate and environmental goals through the projects they finance and may receive preferential tax treatment or attract particularly motivated investors. Unlike

environmental impact bonds, green bonds do not tie financial returns to project performance.<sup>62</sup> San Francisco issued its first green bond in 2015 through the SFPUC.<sup>63</sup> In 2020, SFPUC became the first US municipal green bond on the London Stock Exchange.<sup>64</sup>

Joint powers authorities (JPAs) can issue JPA housing bonds to finance the purchase of market-rate housing with a property tax abatement, conversion to deed-restricted housing for lower- and middle-income tenants, and eventual government ownership or control of the buildings on conclusion of bond repayment. These instruments have the potential to create and preserve affordable multifamily housing, but advocates have voiced significant concern over the potential risks to local governments and the need to ensure that tenant savings exceed the foregone tax revenue and service fees.<sup>65</sup>

### 4. Financing and Assessment Districts

In addition to general and enterprise fund revenue sources such as taxes and fees and traditional general obligation bonds, California local governments and agencies can finance capital projects with debt secured by voter-approved special assessments and taxes linked to specific projects. These strategies include financing and special assessment districts and tax-increment financing mechanisms that rely on the anticipated increase in property taxes that will result from the new infrastructure. Since financing and assessment districts are typically tied to distinct neighborhood/district boundaries (and property taxes), they may not be optimal for funding citywide decarbonization efforts as compared to GO bonds—but for locally specific measures (such as green infrastructure) and later CAP investment stages, they may provide key revenue streams.

Enhanced Infrastructure Financing Districts (EIFDs) are financing districts that allow for the collection of revenue based on a property tax increment to fund public facilities including CAP-relevant items such as transit facilities, parks and open space, waste facilities, transit priority projects, SB 375 Sustainable Communities Strategy implementation projects, port and harbor infrastructure, and climate adaptation and resilience projects.<sup>67</sup> An EIFD is administered by a public financing authority (PFA) established by the local legislative authority (i.e., the Board of Supervisors), which is authorized to issue bonds to fund the selected infrastructure investments based on the incremental property tax revenue, subject to approval by 55 percent of district voters.<sup>68</sup> EIFDs have recently been used in the city to fund improvements at Treasure Island and Mission Rock.<sup>69</sup>

Community Facilities Districts (CFDs) are financing districts that fund public improvements within the district boundaries (which can potentially extend citywide) based on a special parcel tax that is assessed on all properties within the district according to a "rate and method of apportionment" that can potentially reflect owners' ability to pay or their likely benefit from infrastructure investments (rather than an ad valorem approach). To CFDs can finance CAP-relevant items such as maintenance of parks, streets, and roads; and a provision authorizes the financing of "tangible property with an estimated useful life

of five or more years that is owned by the local agency" that establishes the district, which could allow a CFD to finance a number of CAP investments. The facilities funded through the CFD can provide general services in the district area (including operation and maintenance costs) and need not provide a special or unique benefit to particular owners; however, those services must be "in addition to those provided in the territory of the district before the district was created" and cannot "supplant services already available," potentially limiting application for some CAP items. Issuance of bonds to fund the infrastructure investments based on the assessment revenue requires two-thirds approval of district voters. An existing CFD may also annex new territory into the district. CFDs have recently been used in the city to fund improvements at the Transbay Transit Center and on Treasure Island.

Special Assessment Districts (SADs) involve an assessment on properties within the district to fund a "special" improvement with specific benefits for those properties (the assessment revenue cannot be used to fund "general" benefits enjoyed by other properties or the public. <sup>74</sup> State-level analyses have recently raised concerns around SAD oversight. <sup>75</sup> One prominent example are Geologic Hazard Abatement Districts (GHADs), which finance and maintain soil erosion and earthquake protection improvements. <sup>76</sup> SADs can fund a range of improvements, but due to the property-specific use of funds, they may not be a viable option for most CAP investments.

Community Revitalization and Investment Authorities (CRIAs) are districts that enable geographically targeted funding of economic development investments.<sup>77</sup> CRIAs execute community revitalization plans within a specific geographic area. Property taxes provide financing for CRIA investments that support a variety of potential projects, including transit stations, affordable housing, building retrofit loans or grants, public spaces, and transit-oriented development projects, among others. The cities of Riverside and Victorville have proposed creation of CRIA within their jurisdictions.<sup>78</sup>

#### 5. Grants

Federal, state, and regional government grant programs are a primary source of funding for City investment in transportation, housing, and other key CAP-related infrastructure. <sup>79</sup> City agencies with a record of funding major capital projects, such as SFMTA, are highly familiar with the process of applying for and spending these grant funds, and the City in general has a sophisticated ability to seek and obtain external grant funds. <sup>80</sup> In addition to winning grants for specific CAP investments, these agencies should consider how to integrate CAP priorities into their other grant applications wherever possible to contribute to interagency CAP goals.

In general, federal grants are a key source of funding for municipal infrastructure projects and come in two main forms. Competitive grants, which are typically awarded based on proposed projects' alignment with program goals and ability to attract matching funds, have funded many climate action-relevant projects in San Francisco. For example, SFMTA has obtained approximately \$1 billion from the US Department of Transportation's New Starts grant program to

fund the Central Subway project. While City leaders should target this and other federal Capital Investment Program sources for the most significant transportation capital projects in the CAP, funds are not guaranteed, and local and regional matching funds are typically expected.

By contrast, formula grants allocate funds to recipients (typically states) on a non-competitive basis and according to a set formula (e.g., factoring in population or income) as long as the recipient meets requirements. The federal Infrastructure Investment and Jobs Act (IIJA, also known as the Bipartisan Infrastructure Law or BIL) allocates funding towards formula grants that align with CAP implementation goals. For example, Surface Transportation Block Grant Program funds are distributed to states according to a formula, and state governments then direct the funds to eligible recipients, which may also be determined by a formula. States must direct 55 percent of Surface Transportation Block Grant funds to areas with certain population sizes, while 45 percent of the funds may be directed to any region of the state.<sup>81</sup> Formula grants may offer more certainty than competitive grant programs, but available funding can still change over time as funding amounts or formula-based allocations may be modified, and the headline dollar amounts of new programs represent pools to be divided among many state and local entities.

This section discusses state and federal grant opportunities. At the federal level, both the Inflation Reduction Act of 2022 (IRA) and the IIJA will play a crucial role in climate action and will offer an array of grant opportunities relevant to the CAP. Tables below provide an overview of programs that could be applicable to CAP implementation. However, given the early stages of policy implementation, details are subject to change.

Although grants are crucial, CAP implementation cannot rely solely on grants to cover implementation costs. In particular, competitive grants may fund significant portions of large capital investments, but the City is not certain to win them; at the same time, formula grants may be more certain, but the City is only one of many recipients within the state.

CLEE's review of the IIJA, IRA, and the recent California state budget identifies several grant programs aligned with CAP implementation efforts. While these sources of funding offer several promising pathways for CAP implementation, relatively few of the funding programs and eligibility criteria in the IIJA or state budget align directly with CAP goals. Nonetheless, several programs stand out as potential opportunities:

- IIJA: Dedicated funding for electric vehicle and charging infrastructure deployment, including \$7.5 billion available for EV infrastructure. See California is slated to receive around \$384 million of that funding over five years through formula grants. The state will also be eligible for competitive grants to provide additional EV charging funds.
- IIJA: Allocations to public transit and active transportation, including an expected \$10.3 billion for California over five years.<sup>84</sup>
- IIJA: \$550 million nationwide towards the Energy Efficiency and Conservation Block Grant Program until funds are exhausted.

- IRA: \$7 billion available for state, local, and tribal governments to fund green banks and other financing strategies for decarbonization investments.
- California State Budget: \$25 million available for building weatherization and electrification in low-income households and \$922 million for equitable building decarbonization measures administered by the California Energy Commission.
- California State Budget: \$750 million for active transportation and \$6.1 billion for ZEV infrastructure and access.

Several headline programs in IIJA focus on climate resilience, which is not directly covered by the CAP, while others do not include city governments as eligible recipients of funds. IIJA in particular has the potential to fund projects unaligned with local climate goals. In fact, a Georgetown Climate Center analysis concluded that the IIJA could potentially increase GHG emissions if funds are not spent carefully and intentionally by recipient government agencies, primarily because a high proportion of IIJA dollars are allocated towards surface transportation investments that could be directed towards highway expansion.<sup>85</sup> Thus, City leaders should look to IIJA for grant opportunities related to EV infrastructure and potentially building decarbonization, but may not be able to support a large portion of CAP implementation from the law. In accordance with the Administration's Justice40 initiative, City leaders should consider targeting these investments in lower-income and underserved communities. Table 4 below highlights a selection of CAP-aligned opportunities that IIJA funds could support, and Table 5 highlights a selection of CAP-aligned opportunities in the IRA.

California's 2022-2023 budget also represents a significant potential source of new funding for CAP actions, allocating \$22.5 billion in new funding for climate initiatives over five years while expanding on the \$15 billion directed towards climate resilience in the 2021 Budget Act. <sup>86</sup> CAP implementation could benefit from certain mitigation programs funded through the budget. Resilience investments are beyond the scope of the CAP. Table 6 below highlights a selection of CAP-aligned opportunities that the state budget could support.

Grants can serve an important role as a source of supplemental funding to cover upfront costs, establish and grow programs, and jumpstart delivery of CAP actions that are well-suited for the particular grant program–in particular major capital investments in transit infrastructure.

Key grant funding opportunities may include the following federal, state, and regional programs:

#### Federal programs

The Capital Investment Grants program is administered by the Federal Transit Administration under the U.S. Department of Transportation (DOT), including the New Starts, Small Starts, and Core Capacity programs for public transit investment projects, which differ in their eligibility requirements (such as project type or estimated total capital cost).<sup>87</sup> Grant funding could be used towards transit projects in line with CAP goals.

The Greening America's Communities program through the U.S. Environmental Protection Agency (EPA) enables cities to undertake pilot projects that promote environmental and economic benefits. Examples of eligible projects include pedestrian and bicycle infrastructure and safety improvements, urban greenways, and green infrastructure. PCAP actions related to Healthy Ecosystems, such as urban forestry or greening and integration of local biodiversity into the built environment, or active transportation improvements may be strong candidates for funding from this program.

Community Development Block Grants (CDBG) are administered by the U.S. Department of Housing and Urban Development (HUD) for resilience-focused housing projects that minimize future disaster risk. 90 While the program is better suited for resilience activities (e.g., making buildings more resilient to changing storm patterns), certain activities eligible under the program may align with the climate mitigation activities described in the CAP. For example, a CDBG grant can be used for improving building codes (which may be relevant for the CAP's building operations actions) or managing land use planning and community development (which may be relevant for housing and transit decisions).

Technical assistance grants can build institutional capacity and support climate action implementation, such as EPA's Environmental Justice Thriving Communities Technical Assistance Centers Program and collaboration with the Department of Transportation to issue grants to community organizations and nonprofits to manage environmental justice and transportation improvements.<sup>91</sup>

The 2021 Infrastructure Investment and Jobs Act includes billions of grant dollars for electric vehicle charging infrastructure, public transportation, congestion mitigation, and other investments through creation of new programs or increased funding for existing programs. Specific programs within the Act that may provide relevant funding for CAP actions focus primarily on transportation investments.

The table on the following pages identifies key IIJA provisions that could support implementation of CAP strategies and actions.

## INFRASTRUCTURE INVESTMENT AND JOBS ACT SECTION<sup>92</sup>

#### POTENTIALLY RELEVANT CAP ACTION(S)<sup>e</sup>

Sec. 11109. Surface Transportation Block Grant Program

**TLU.7-2, TLU.7-5, TLU.7-7.** This existing program covers a wide array of transportation investments, including National Highway System investments. The IIJA modifies the existing program by expanding eligibility to include EV charging infrastructure. <sup>93</sup> The Surface Transportation Block Grant also includes eligibility for EV workforce and training, EV planning projects, EV infrastructure for freight transportation, and EV charging that supports "transit capital projects eligible under chapter 53 of title 49, United States Code." Actions to achieve TLU.7-2, 7-5, and 7-7 may be best situated to receive Surface Transportation Block Grant funds.

Sec. 11121. Construction of Ferry Boats and Ferry Terminal Facilities **TLU.1-8, TLU.3-5.** This section allocates funding towards ferry and terminal construction. TLU.1-8 calls for enhanced collaboration and funding opportunities to improve regional and local transit connections, including ferry service. TLU.3-5 implements the Treasure Island Mobility Management program, which includes new ferry service. These CAP actions may be eligible to secure federal funding through the program.

Sec. 11130. Public Transportation

**TLU.1-1, TLU.1-8.** This section adds funding eligibility for bus rapid transit corridors or bus lanes. CAP actions TLU.1-1 and TLU.1-8 may be strong candidates for this funding given their emphasis on transit-only lanes and improved service reliability (TLU.1-1) and improving seamless transfers between local and regional transit systems (TLU.1-8).

Sec. 11133. Bicycle Transportation and Pedestrian Walkways

**TLU.2-1, TLU.2-2, TLU.2-4.** This section adds new language regarding shared micromobility and pedestrian and bicycle access. Relevant CAP actions include TLU.2-1, which expands corridors for micromobility devices, bicycles, pedestrians, and other modes of active transportation; TLU.2-2, which expands partnerships to encourage accessibility and safety of biking, including for electric bikes; and TLU.2-4, which expands the protected bikeway network at least 20 miles by 2025.

e This table is intended to provide an overview of sections of the Infrastructure Investment and Jobs Act that may offer funding for CAP actions, and to match relevant CAP actions where possible. This is not a comprehensive list of all the possible Infrastructure Investment and Jobs Act funding programs that the City may wish to explore, nor is it a comprehensive list of all the possible CAP actions that could be funded by each program. The City will need to ensure it meets any eligibility requirements before pursuing funding from these programs. Additionally, some funding initiated by the Infrastructure Investment and Jobs Act may be distributed to state governments, and then passed through to municipal governments. For a review of EV-oriented funding opportunities in the IIJA, see Governor's Office of Business and Economic Development, "Infrastructure Investment and Jobs Act: California Local Opportunities," available at <a href="https://static.business.ca.gov/wp-content/uploads/2002/05/IIJA-Funding-Packet-Final-Updated.pdf">https://static.business.ca.gov/wp-content/uploads/2002/05/IIJA-Funding-Packet-Final-Updated.pdf</a>.

#### INFRASTRUCTURE INVESTMENT AND JOBS ACT SECTION

#### POTENTIALLY RELEVANT CAP ACTION(S)

| Sec. 11401. Grants for Charging and<br>Fueling Infrastructure          | <b>TLU.7</b> . This new program allocates \$1.25 billion each to two categories of charging and fueling—corridor charging and local public charging. <sup>95</sup> The program seeks to deploy infrastructure "accessible to all drivers of electric vehicles, hydrogen vehicles, propane vehicles, and natural gas vehicles." <sup>96</sup> CAP actions identified under TLU.7 may be strong candidates for this federal funding given their focus on expanding ZEV accessibility.   |  |
|--|---|--|
| Sec. 11403. Carbon Reduction Program                                   | <b>TLU.1, TLU.2, TLU.3, TLU.7.</b> This new program covers a wide range of projects aimed at reducing transportation emissions. Eligible uses of funds include bicycle infrastructure improvements, congestion pricing or other demand shift methods, and alternative fuel vehicle deployment (including charging infrastructure), and other eligible projects. The broad eligibility of the Carbon Reduction Program means that several categories of CAP actions could benefit from this funding, including TLU.1 (transit system), TLU.2 (active transportation), TLU.3 (pricing strategies), and TLU.7 (ZEV adoption).  |  |
| Sec. 11404. Congestion Relief Program                                  | <b>TLU.4-2, TLU.4-4, TLU.4-5</b> . The Congestion Relief Program funds cities that "advance innovative, integrated, and multimodal solutions to congestion relief in the most congested metropolitan areas of the United States." Grant funds may be used for "planning, design, implementation, and construction activities," system deployment and operation, and incentive programs (including parking pricing and congestion pricing), among other end uses. The Congestion Relief Program may be relevant for TLU.4-2, which calls for expanded paid parking throughout San Francisco, as well as TLU.4-4 and 4-5, which seek to expand the parking tax on private parking and to develop programs to reduce parking pricing's impact on low-income individuals, respectively. |  |
| Sec. 71102. Electric or Low-emitting<br>Ferry Pilot Program            | <b>TLU.1-8, TLU.3-5</b> . The IIJA establishes a pilot grant program "for the purchase of electric or low-emitting ferries and the electrification of or other reduction of emissions from existing ferries." The program will receive \$50 million for each fiscal year between 2022 and 2026. TLU.1-8 involves funding projects and collaboration activities that improve connectivity between local and regional transit systems. TLU.3-5 specifically focuses on new ferry, bus, and tolling systems under the Treasure Island Mobility Management Program. These CAP actions may be positioned well for funding under the ferry pilot program.   |  |
| Sec. 11529. Active Transportation<br>Infrastructure Investment Program | <b>TLU.2.</b> The Active Transportation Infrastructure Investment Program funds projects that "provide safe and connected active transportation facilities in an active transportation network or active transportation spine." Application evaluation considered the applicant's commitment to public input in project development and the extent to which projects connect transit services, "communities, including schools, workplaces, residences, businesses, recreation areas, and other community areas," among other evaluation factors. TLU.2 might be well positioned for these grants as it contains a set of several actions intended to shift trips from cars to active transportation mode such as walking and biking.   |  |

### INFRASTRUCTURE INVESTMENT AND JOBS ACT SECTION

#### POTENTIALLY RELEVANT CAP ACTION(S)

| <b>TLU.2.</b> The Safe Streets and Roads for All Program is intended to provide up to \$6 billion in grants for local governments "to prevent roadway deaths and serious injuries." Potentially eligible projects include multimodal network improvements, speed management measures, and safe transit route access investments, which could support or form components of CAP investments in transportation mode-shift. <sup>101</sup>   |  |
|---|--|
| <b>ES.3-1, ES.3-3.</b> IIJA Section 40107 amends the Energy Independence and Security Act of 2007 to include new technologies that improve grid resilience and flexibility, such as enhanced data analytics, Smart Grid technologies, or wireless broadband communications. This section also appropriates \$3 billion for the Smart Grid Investment Matching Grant Program between FY 2022 and 2026. ES.3-1 focuses on building a reliable and flexible energy grid by planning for demand and use changes due to transportation and building electrification ES.3-3 invests in distribution infrastructure and smart-grid technologies. These CAP actions may be eligible for this portion of IIJA funding. |  |
| <b>BO.2, BO.3.</b> The IIJA allocates \$550 million towards the Energy Efficiency and Conservation Block Grant Program, originally established in the Energy Independence and Security Act of 2007. IIJA expands the allowable uses of grant funding to include financing programs and other programs, such as "loan programs and performance contracting programs, for leveraging of additional public and private sector funds, and programs that allow rebates, grants, or other incentives"   |  |
| <b>HE.5-1.</b> The Healthy Streets Program supports projects that either install cool and porous pavements or increase tree cover. The program aims to improve air quality, reduce the urban heat island effect, and mitigate risks to residents and road users from floods or heat impacts. HE.5-1 is aligned with the goals of the Healthy Streets Program as it envisions 30,000 trees planted in San Francisco's sidewalk tree wells by 2040.   |  |
|   |  |

Table 4. Comparison of Infrastructure Bill Sections to Relevant CAP Actions.

City climate leaders can refer to the White House's Bipartisan Infrastructure Law guidebook and interactive data table to assess which programs might be a good fit for their needs and collect information on eligibility or application requirements.<sup>103</sup>

The Inflation Reduction Act of 2022 (IRA) is a multifaceted piece of legislation that will have major implications for national efforts to curb greenhouse gas emissions. Portions of the legislation apply directly to units of local government, including portions of the Greenhouse Gas Reduction Fund that will support state and local green bank initiatives. <sup>104</sup> In addition to the sections of the IRA outlined below, local governments with municipal utilities are now eligible to benefit from clean energy tax credits. Perhaps most notably, Section 13801 of the IRA allows municipalities and municipal utilities to directly access tax credits and pass on 100 percent of cost savings to customers. <sup>105</sup> This can assist municipalities and municipal utilities with increasing investments in clean energy generation and purchasing clean energy assets. Specific programs within the Act may provide relevant funding for CAP actions, including:

Sec. 60103. Greenhouse Gas Reduction Fund

# **ES.1-1, ES.1-3, ES.2-1, ES.2-2, ES.3-3, BO.2-7, BO.2-12.** The IRA Greenhouse Gas Reduction Fund is a new fund administered by the Environmental Protection Agency (EPA). Municipal governments, tribal governments, and nonprofit entities that provide and leverage capital (e.g., green banks) to finance projects to reduce greenhouse gas emissions are eligible. The program has multiple components:

- \$7 billion for grants, loans, and financial and technical assistance "to enable low-income and disadvantaged communities to deploy or benefit from zero-emission technologies," including rooftop solar, and other GHG reduction activities.<sup>107</sup>
- \$11.97 billion for direct and indirect investment in projects, activities, or technologies that (1) reduce or avoid greenhouse gas and other air pollution by leveraging investment from the private sector or (2) assist communities in the efforts of those communities to reduce or avoid greenhouse gas and other air pollution.
- \$8 billion for the same activities specifically in low-income and disadvantaged communities, and the funding will remain available until September 30, 2024 to make grants on a competitive basis.

Actions to achieve ES.1, ES.2, ES.2, BO.2-7, and BO.2-12 may be best situated to receive greenhouse gas reduction fund awards because they will decarbonize the energy supply of the city and reduce emissions from the built environment.

Sec. 60114. Climate Pollution Reduction Grants

### **ES.5-1, ES.5-3, BO.2-1, BO.2-3, TLU.1-7, TLU.7-3.** This section directs the EPA to allocate:

- \$4.75 billion for grants to implement GHG pollution reductions
- \$250 million to support the development of plans to reduce greenhouse gas pollution in support of later projects that implement such pollution reductions
- Many of the details remain to be determined by the EPA, but applications for funding will need to include information regarding the degree to which greenhouse gas air pollution is projected to be reduced in total and with respect to low-income and disadvantaged communities.<sup>108</sup>

f This table is intended to provide an overview of sections of the Inflation Reduction Act of 2022 that may offer funding for CAP actions, and to match relevant CAP actions where possible. This is not a comprehensive list of all the possible funding programs that the City may wish to explore, nor is it a comprehensive list of all the possible CAP actions that could be funded by each program. The City will need to ensure it meets any eligibility requirements before pursuing funding from these programs. Additionally, some funding initiated by the Inflation Reduction Act may be distributed to state governments, and then passed through to municipal governments.

#### POTENTIALLY RELEVANT CAP ACTION(S)

CAP actions identified to reduce energy system, building operations, and transportation emissions may be strong candidates for this federal funding. Planning and infrastructure efforts, such as TLU.7-3 efforts to help the City's non-revenue fleet and small and locally owned businesses build zero emission transportation infrastructure could qualify. Additionally, BO.2-3 aims to develop a plan and policy to require all newly installed residential and other small building equipment to be efficient and all-electric. Building decarbonization would reduce climate pollution and improve public health.

Sec. 50131. Assistance for Latest and Zero Building Energy Code Adoption **BO.2-7.** In conjunction with the City's All-Electric New Construction Ordinance, the City could apply for funding from the Department of Energy to expedite building codes that meet or exceed the 2021 International Energy Conservation Code (for residential) or the ANSI/ASHRAE/IES Standard 90.1-2019 (for commercial). <sup>109</sup> Local governments that have building code authority are eligible as grantees to assist with developing or adopting these plans. The IRA also appropriates \$670 million for the adoption of codes that meet or exceed the zero energy provisions in the 2021 International Energy Conservation Code or an equivalent stretch code and for related compliance plans.

Sec. 60107. Low Emissions Electricity Program

**ES.1, ES.2, ES.3, ES.5.** Through a \$17 million appropriation to the EPA, this program allows for outreach and technical assistance to local governments with respect to reductions in greenhouse gas emissions that result from domestic electricity generation and use. While the appropriation does not specify details for how EPA might allocate funds, the City could use potential funding for deployment of renewable energy resources, advanced metering infrastructure, demand response, and equitable electrification as they decommission the natural gas system.

Sec. 60501. Neighborhood Access and Equity Grant Program

TLU.2, TLU.3, HE.3, HE.5. A Federal Highway Administration (FHWA) program will provide more than \$3 billion of funding for highway removal or remediation, building or improving complete streets or active transportation networks, and increasing access to public spaces and transportation hubs. This new program covers a wide range of projects aimed at restoring communities and reimagining existing infrastructure while reducing transportation emissions. Eligible uses of funds include bicycle infrastructure improvements and alternative fuel vehicle deployment (including charging infrastructure), along with other eligible projects. The broad eligibility of the Neighborhood Access and Equity Grant Program means that several categories of CAP actions could benefit from this funding, including TLU.2 (active transportation), TLU.7 (ZEV adoption), HE.3 (park and open space restoration), HE.5 (street trees). There could also be alignment with Housing goals to create vibrant low- and moderate-income communities.

## INFLATION REDUCTION ACT SECTION

#### POTENTIALLY RELEVANT CAP ACTION(S)

Sec. 40007. Alternative Fuel and Low-Emission Aviation Technology Program **RPC.4.** The U.S. Department of Transportation is directed to allocate \$244.5 million in funding for projects to produce, transport, blend, or store sustainable aviation fuels and \$46.5 million for other projects "relating to low emission aviation technologies." Local governments are among the public and private entities eligible to receive this funding. CAP actions RPC.4-1 and 4-2 regarding incorporating sustainable aviation fuel at San Francisco International Airport (SFO) may be bolstered by program funding. Switching aviation sector fuel to low carbon sources for both air and ground fleets and working with airlines to replace up to 50% of its fuel supply with Sustainable Aviation Fuels by 2050 will likely be eligible activities under the program.

Sec. 23003. State and Private Forestry Conservation Programs

**HE.3, HE.5, HE.6.** The U.S. Department of Agriculture is responsible for allocating a \$1.5 billion program to support tree planting activities by local governments, states, insular areas, Indian Tribes, and nonprofit organizations through the Urban and Community Forestry Assistance Program. Applicable Healthy Ecosystem CAP actions include supporting ecological parkland, planting street trees in the sidewalk tree wells (HE.5-1), and creating a City-owned and managed local native plant nursery that supplies plants annually to City agencies (HE.6-4).

Sec. 60201. Environmental and Climate Justice Block Grants **BO.2-8, BO.2-9.** As part of a new federal block grant program, more than \$2.8 billion is available for activities including: "(1) community-led air and other pollution monitoring, prevention, and remediation, and investments in low- and zero-emission and resilient technologies; (2) mitigation of urban heat islands, extreme heat, wood heater emissions, and wildfires; (3) reducing indoor air pollution; (4) climate resilience and adaptation; and (5) facilitating engagement of disadvantaged communities in State and Federal advisory groups, workshops, rulemakings, and other public processes." Applicable CAP actions include efforts to align anti-displacement policies in buildings transitioning to efficient and all-electric systems and offering targeted technical assistance for BIPOC and low-income owners and tenants including building decarbonization incentive, rebate, and financing information.

Table 5. Comparison of Inflation Reduction Act Sections to Relevant CAP Actions.

#### State programs

The California Climate Investments (CCI) program, funded by California's capand-trade program, includes the following continuously appropriated programs:

- The Affordable Housing and Sustainable Communities (AHSC) program for emissions-reducing infill housing development.
- The Transformative Climate Communities (TCC) program for community-led resilience and emission reduction investments. (TCC is not funded via continuous appropriations but future funding rounds may become available.)
- The Transit Intercity Rail Capital Program for transformative capital investments in transit systems; and
- Low Carbon Transit Operations to provide operating assistance to transit agencies.

State Transportation Investment Program (STIP) funds support local transit and transportation network improvements and Senate Bill 1 grants for road improvement and public transportation investments.

The Housing-Related Parks Program funds investment in new or rehabilitated park space associated with low-income housing development.

The Clean Transportation Program funds investment in advanced transportation and fuel technologies.

The California Infrastructure and Economic Development Bank (IBank) provides direct public financing for local government building energy efficiency investments through the Statewide Energy Efficiency Program (SWEEP), loans for capital investments including street, transit, and energy projects through the Infrastructure State Revolving Fund (ISRF), and flexible financing to attract capital through the Climate Catalyst Fund (funds are currently limited to wildfire management projects but may expand in future years).

Table 6 below highlights some of the key allocations in the FY 2022-2023 State Budget that may be aligned with CAP implementation efforts. This is not a comprehensive list of all the climate-focused FY 2022-2023 budget allocations and does not include money available through existing programs that were not modified by the latest budget.

### CALIFORNIA STATE BUDGET ITEM<sup>112</sup>

#### POTENTIALLY RELEVANT CAP ACTION(S)113

#### Zero-Emission Vehicle (ZEV)

**TLU.7.** The budget includes \$6.1 billion of new funding to bolster ZEV infrastructure and access. An additional \$3.9 billion from the 2021 Budget Act also targets ZEV deployment. Specific allocations that may be of interest for CAP implementation include:

- \$900 million for ZEV infrastructure build out in low-income communities
- \$419 million for expanded zero-emission mobility options in low-income communities, with emphasis on community-identified projects

#### Transportation

**TLU.1, TLU.2, TLU.6.** The budget allocates \$750 million for active transportation efforts, including improved connectivity of active transportation networks and pedestrian safety efforts, all with a focus on improving equity.

#### Energy

**BO.2, BO.4.** The budget directs over \$922 million to the California Energy Commission between 2022 and 2024 for equitable building decarbonization. The California Air Resources Board receives an additional \$40 million over the same time frame for equitable building decarbonization efforts related to ultra-low global warming potential refrigerants.

#### Sustainable Communities

**TLU.5, TLU.6, H.1, H.2, H.3, H.4.** The budget allocates funds towards infill development, affordable housing, and adaptive reuse projects. Line items relevant for CAP implementation include:

- \$500 million for infill parcel housing development in downtown areas
- \$300 million "to support land-use, housing, transportation, and land preservation projects for infill and compact development that reduce climate pollution."
- \$100 million for projects that facilitate adaptive reuse of buildings for residential purposes, primarily in downtown areas

#### POTENTIALLY RELEVANT CAP ACTION(S)

## Nature-Based Solutions and Community Resilience

**HE.3, HE.4, HE.5, HE.6.** Although the CAP focuses on climate mitigation efforts rather than resilience, the state budget categorizes some items under resilience that may be relevant for CAP implementation. These include:

- · \$100 million for urban and community forestry and urban greening
- \$25 million for building weatherization and electrification (e.g., heat pumps) in low-income households

The budget also allocates \$1.4 billion towards nature-based solutions, and a portion of that amount will be dedicated towards improving community greening and enhancing biodiversity.

#### Circular Economy

**RPC.2, RPC.3.** The 2021 Budget Act directed \$270 million over two years to circular economy practices that reduce and repurpose waste materials. The 2022-2023 budget allocates "\$65 million associated with the second year of these investments to support implementation of goals to reduce short-lived climate pollutants, including advancing organic waste infrastructure, edible food recovery, and non-organic waste recycling." 115

Table 6. Comparison of FY 2022-2023 California State Budget Items to Relevant CAP Actions.

#### Regional programs

Metropolitan Transportation Commission (MTC) competitive grants support transportation capital investments.

Regional Transportation Investment Program (RTIP) funds support local transit and transportation network improvements, which are a portion of STIP funds.

#### 6. Other Potential Revenue Sources

Congestion pricing involves the imposition of a charge on vehicles entering designated zones within San Francisco to reduce traffic and air pollution, with the resulting revenue available to fund projects including public transit and active transportation investments outlined in the CAP. The San Francisco County Transportation Agency is currently evaluating a proposal for congestion pricing for entry to the downtown (northeast) area, with fees imposed during weekday rush hours only and scaled by income. The proposed fee schedule would include a \$6.50 base fee for middle- and high-income residents; 33 percent, 66 percent, and 100 percent discounts for moderate-, low-, and very-low-income residents respectively; a 50 percent discount for disabled residents; and potential discounts for zone residents and bridge toll payers

as well as for Muni use, with associated increases in the base rate.<sup>116</sup> The potential to adjust pricing strategies based on equity, as well as the direct link between disincentivizing private vehicle travel and improving transit service in congested areas (with appropriate investment in transit options to ensure equitable access), make congestion pricing an appealing option for raising CAP revenues. However, state authorizing legislation would be necessary due to a current ban on local road use fees, an issue the City has recognized since it first analyzed the strategy in 2010.<sup>117</sup> London, Singapore, and Stockholm have instituted successful congestion pricing programs.

As the City increases its supply of publicly available electric vehicle charging pursuant to TLU.7, City-owned and operated electric vehicle charging at curbside and public parking locations could provide a substantial revenue stream to support installation and maintenance of the charger network. While private electric vehicle supply equipment (EVSE) companies may occupy much of the publicly available charging space, City-managed chargers could be a priority option to drive installation in lower-income communities in particular.

A municipal green bank can take many forms, but the core structure involves committing public funds to financing mechanisms such as direct loans, revolving funds, or credit enhancement to reduce investment risk in order to attract private capital to clean energy technologies and upgrades. Green bank programs often take the form of loan loss reserve fund credit enhancement for financial institutions and credit unions, serving as both an implementation strategy and a revenue generation strategy by leveraging limited public investment into significant private investment. Montgomery County, Maryland provides an example of a municipal green bank that has invested in energy efficiency for small business customers and renewable energy finance. New York City and Washington, DC have also created local programs and state-level programs exist in California, Connecticut, and Michigan to fund a range of decarbonization investments.

A revolving loan fund model would leverage a seed investment or initial fund to provide loans for the creation of new businesses or development of projects under the CAP with the capacity to generate revenue. That revenue then can be used to repay the loans and replenish the fund for subsequent iterations. Since fund recipients must be able to generate revenue, the model might only be applicable to a subset of CAP strategies (for example, those relating to electric vehicle charging infrastructure) or could be useful to facilitate clean transportation or energy efficiency retrofit service startups. The Biomass Utilization Fund created in Tuolumne County with a \$17 million federal investment is one example. The Climate Tech Finance program coadministered by the Bay Area Air Quality Management District and California Infrastructure and Development Bank, which includes a loan fund for innovative microgrid and electrification projects, is another. Source of the supplies of the sup

Energy savings performance contracts (ESPCs) allow state and private property owners to finance building energy efficiency retrofits and installations based on a contract with an energy service company which commits to funding an efficiency project in exchange for repayment via the energy cost savings generated by the upgrade.<sup>121</sup> ESPCs may present an opportunity for performance

upgrades of City infrastructure and, if aggregated and supported by the City, could assist private property owners as well.

Private philanthropy from national and local foundations as well as anchor companies could provide direct funding for new initiatives or pilot projects, seed funding for revolving loan funds or other investments with direct links to corporate operations (such as building retrofits), or additional funding for planned investments where existing City revenue will be inadequate to complete the project. The Business Council on Climate Change (BC3) is an example of corporate engagement that could facilitate identification of philanthropic opportunities.<sup>122</sup>

California Environmental Quality (CEQA) mitigation can, in some cases, provide funding for emissions-reducing and other climate investments that align with the need to offset or reduce the environmental impacts of development projects. CEQA requires developers and lead agencies to mitigate the significant impacts of new projects where feasible. Some mitigation actions—in particular, strategies for mitigating vehicle miles traveled impacts under Senate Bill 743—could align directly with CAP investments in public transit, active transportation, and transit-oriented development, including potentially through a mitigation bank or exchange program to help direct investment.<sup>123</sup>

Voluntary carbon markets allow for the sale of credits representing verified emissions reductions from the party achieving the reductions to parties seeking to support decarbonization or meet corporate emissions reductions pledges. While major questions remain around verification and additionality (i.e., confirmation that reductions would not have occurred but for the revenue source) of emissions reductions, voluntary markets represent an opportunity to monetize the GHG impacts of the CAP. With voluntary carbon markets valuing carbon at over \$10/ton and the CAP contemplating emissions reductions in the millions of metric tons per year, voluntary markets could generate millions of dollars for CAP implementation efforts while engaging City corporate and philanthropic partners.

## C. EXAMPLES OF LOCAL CLIMATE AND CAP-RELEVANT FUNDING MECHANISMS

The following list includes representative examples of local funding mechanisms instituted in San Francisco, California, and nationwide that may offer valuable precedent for CAP implementation. It is not an exhaustive list.

San Francisco Proposition K (2003 Transportation Sales Tax): Authorized a ½-cent sales tax to fund transportation investment, administered by SFCTA, with approximately 65 percent dedicated to new transit investments. 124 Voters will decide on renewing the sales tax in November 2022.

San Francisco Proposition C (2012 Housing Trust Fund): Created a trust fund with redirected general fund money to create, acquire, and rehabilitate affordable housing and promote affordable home ownership programs over 30 years.<sup>125</sup>

San Francisco Proposition A (2014 Transportation Bond): Authorized \$400 million in general obligation bonds to fund Muni rapid transit network improvements and extensions, pedestrian and street safety measures, and other priority transit infrastructure upgrades.<sup>126</sup>

San Francisco Proposition A (2018 Seawall Safety Bond): Authorized \$425 million in general obligation bonds to fund planning, design, and construction of earthquake, flood protection, and general mitigation projects along the Embarcadero seawall.<sup>127</sup>

San Francisco Proposition D (2019 Ride-Share Business Tax): Authorized a tax on commercial ride-share trips originating in San Francisco (1.5 percent for shared rides, 3.25 percent for single rides, 1.5 percent for all zero-emission vehicle rides) through 2045, expected to raise approximately \$30 million per year for public transit and pedestrian and bicycle safety investments.<sup>128</sup>

Bay Area Measure AA (2016 Water and Habitat Protection Tax): Authorized a 12-cent parcel tax for 20 years (approved by voters), anticipated to raise \$25 million per year for habitat restoration, flood protection, and shore access projects across the nine-county Bay Area.<sup>129</sup>

Bay Area Regional Measure 3 (2018 Toll Increase): Authorized toll increases on seven state-owned bridges in the Bay Area with 55 percent voter approval (enabled by state legislation, SB 595) to finance \$4.5 billion in transportation investments, including BART extension and service improvements, Caltrain extension, SF Muni and Transbay bus service improvements, and numerous roadway improvements.<sup>130</sup>

Los Angeles Measure R and M (2008/2016 Transportation Sales Taxes): Authorized a ½-cent sales tax in Los Angeles County to fund transit projects, including 35 percent to new rail and bus rapid transit projects and 20 percent to bus and rail operations. Total anticipated funding of \$700 million in year one, \$8.5 billion through year 10, and \$40 billion through year 30. The tax was first approved by voters in 2008 (through 2039) and then made permanent in 2016.<sup>131</sup>

Los Angeles Measure A (2016 Parks Parcel Tax): Authorized a parcel tax of 1.5 cents per square foot of improved property with no expiration date, expected to raise over \$90 million per year for a mix of direct investment in priority parks and a competitive grant program for public agencies and nonprofits to invest in local parks and beaches.<sup>132</sup>

Los Angeles Measure W (2018 Water Parcel Tax): Authorized a special parcel tax of 2.5 cents per square foot of impermeable surfaces, estimated to raise \$300 million per year for stormwater capture and treatment programs.<sup>133</sup>

Palmdale EIFD/Infrastructure Financing Plan: The enhanced infrastructure financing district (EIFD) is the largest in the state, raising \$176 million to fund street/road, water, and other infrastructure on 23,000 acres of Palmdale and LA County, and is intended to support \$3.5 billion in private development.<sup>134</sup>

Miami Forever Bond (2017): A \$400 million general obligation bond to fund investments in climate resilience-related areas including flood prevention, roads, parks, and affordable housing.<sup>135</sup>

Portland Clean Energy Surcharge and Community Benefits Fund (2018): A voter-approved 1 percent surcharge on gross receipts of large retailers, with exemptions for grocery and medical purchases, to fund clean energy projects and associated job training and apprenticeship programs, anticipated to raise approximately \$50 million per year. 136

Denver Ballot Initiative 2A (2020): A voter-approved 0.25 percent increase in the local sales and use tax to create a "Climate Protection Fund" expected to raise \$40 million per year for distributed generation, adaptation and resilience, climate justice, employment, and other related programs.<sup>137</sup>

Atlanta Environmental Impact Bond (2019): \$14 million EIB issued to fund stormwater improvements and related green infrastructure in a disproportionately impacted community, with a pay-for-success component based on total water capture as well as a water equity task force to guide decision making.<sup>138</sup>

DC Water Environmental Impact Bond (2016): \$25 million EIB issued to fund green stormwater management infrastructure, with a pay-for-success component based on "risk share" or "outcome" payments depending on the over- or under-performance of the installation.<sup>139</sup>

Richmond Social Impact Bond (2015): \$3 million bond issued for repair and rehabilitation of abandoned residential properties, followed by sale to first-time home buyers, with a focus on energy efficient construction. 140

Watsonville Carbon Impact Fee (2014): Development impact fee imposed on all new residential and commercial construction equal to 30-50 percent of the standard permit fee, with revenues deposited in a dedicated carbon fund for climate-related city projects.<sup>141</sup>

#### Congestion Pricing Programs

- London: £15 daily charge for vehicle entry into central London during peak hours, with discounts for zone residents (90%), 9+ passenger vehicles (100%), and other groups and exemptions for motorbikes, disabled drivers, and emergency vehicles. The program is associated with tens of thousands of fewer vehicles in the zone and hundreds of millions of dollars in annual net revenues. 142
  - London Ultra Low Emission Zone: £12.50 daily charge for vehicle use within the greater London area 24 hours a day, with exemptions for qualifying ultra low-emission vehicles (PM and NOx standards that went into effect for all new vehicles between 2005 and 2014) as well as taxis and a small group of utility vehicles.

- Singapore: Approximately \$3 daily charge for entry into the central business district during Monday-Saturday peak hours, with variable pricing based on congestion conditions. Associated with hundreds of millions of dollars in annual net revenues. 143
- Stockholm: Approximately \$4 daily charge for entry into the central business district during weekday peak hours, with variable pricing based on time of day. Associated with hundreds of millions of dollars in annual net revenues.<sup>144</sup>

## D. REVENUE GENERATION OPPORTUNITIES IN CAP ACTIONS

A number of emission reduction strategies and actions in the CAP have the potential to directly raise revenue that could be used to self-finance these actions (and/or potentially to fund other CAP actions). As City leaders develop strategic plans for CAP implementation, they should consider prioritizing completion of those actions that can generate funds while reducing emissions—in particular, congestion and parking pricing strategies as identified in the Executive Summary:

#### **Energy Supply**

- Rate design to facilitate renewable procurement (ES.1-3/4, ES.3-2)
- Local renewable energy development (ES.2-3/4/6)

#### **Building Operations**

- Commercial building electrification in-lieu fee (BO.2-7)
- Revolving decarbonization fund through virtual power plant or other district scale solution that monetizes the benefits derived from energy efficiency, demand response, and energy storage systems (BO.2-12)

#### Transportation and Land Use

- Downtown San Francisco Congestion pricing implementation (TLU.3-1)
- Local vehicle pricing strategies including vehicle licensing fees (TLU.3-2)
- Curb use fees and pricing strategies (TLU.3-3)
- Pricing/financing of mobility through implementing the Treasure Island Mobility Management Program, including new ferry service and East Bay bus service, while ensuring money generated from pricing programs is invested in transportation improvements for lower-income communities (TLU.3-4/5/6)
- Expanding paid parking citywide where appropriate with prices to reduce parking demand, reform residential parking system, add demand-responsive pricing (TLU.4-2)
- Expanding the parking tax on private parking (TLU.4-4)

• Expanding publicly available EV charging, launching pilots to advance the use of ZEVs, e-bikes, and other low-carbon modes of transportation (TLU.7-2/3/4/5/6/7)

#### Housing

- Federal, state, and local resources for accessibility, energy efficiency, decarbonization, and resilience upgrades in existing and new housing (H.2-4)
- Cost cutting measures to make affordable housing developments in San Francisco more competitive for regional, state, and federal funding (H.4-4)

#### Responsible Production and Consumption

• Creating markets for sustainable aviation fuel (RPC.4-1/2)



## IV. EQUITY CONSIDERATIONS AND STRATEGIES

The CAP is expressly grounded in principles of racial and social equity, based on recognition that lower-income and BIPOC communities are among those least responsible for contributing to climate change and those most vulnerable to its impacts. The CAP's equity focus—in particular, its emphasis on high-priority communities and its significant housing element—represents something of an evolution from past trends in California climate action planning, which has largely focused solely on greenhouse gas emission reduction and lacked concrete actions to address equity concerns.<sup>145</sup>

Through the CAP community engagement process, City leaders identified five key themes and community priorities: evidence-based efforts rooted in transparency and avoidance of negative impacts; equitable distribution of cost burdens; balance of agency such that large institutions are responsible for climate actions rather than individuals; alignment with existing programs and policies; and workforce development that extends opportunities in low-income and BIPOC communities. Additionally, the CAP applies four equity lenses through which CAP implementation actions are viewed and delivered. These include racial and social equity, economic recovery and just transition, protecting public health, and resilience. 147

Building from the CAP's equity goals and lenses, CLEE conducted targeted outreach and interviewed experts and leaders from community-based organizations, local environmental justice groups, and policy and research institutions. CLEE heard from community members concerned about workforce impacts, economic burdens, displacement, infrastructure accessibility, and participatory opportunities in the CAP funding and implementation phase. The revenue recommendations in this report strive to incorporate these and other crucial equity concerns while remaining informed by the engagement process conducted to develop the CAP itself. Many but not all of these strategies are reflected in the Executive Summary. The table on the following pages summarizes key equity strategies developed for CAP implementation.

As the CAP states, in order to acknowledge and remedy climate-related disparities, "strategies to reduce emissions must be intentionally designed for equity to mitigate and reverse these outcomes." <sup>148</sup> It follows that funding and financing mechanisms to support those strategies should, where possible,

also be designed to reflect and advance the CAP's equity principles and avoid traditional revenue-raising strategies that can overburden the residents least able to afford the cost.<sup>149</sup>

The City undertook extensive engagement to develop the CAP strategies, drawing on input from communities across San Francisco's diverse neighborhoods. City leaders have similarly stated that they are committed to equity in implementing the CAP and raising the revenue necessary to deliver on the CAP actions identified by San Franciscans. Some revenue generation strategies that deliver significant funding for CAP actions may be regressive, placing a burden on residents least able to afford additional taxes or fees. Equitable CAP implementation will require raising adequate revenue without further disadvantaging these residents, and, wherever possible, reinvesting it in communities where historic and ongoing underinvestment has generated inequitable outcomes.

This section presents various strategies that San Francisco could adopt in its efforts to ensure equity throughout CAP revenue generation and implementation. The section begins with an overview of the CAP's equity considerations and a discussion of equity-aligned goals for funding and financing, followed by case studies examining equitable economic and revenue-generating principles. It concludes with a set of high-priority equity strategies and a summary of other equity-focused tools and strategies relevant for CAP implementation.

#### A. CAP EQUITY COMPONENTS, GOALS, AND METRICS

The equity grounding of the CAP's analysis and strategies includes the following core components:

- CAP "lenses" that are designed to shape climate actions to "maximize benefits for the entire community, and with a special eye toward reducing burdens on marginalized communities" including racial and social equity, economic recovery and just transition, public health, and resilience.<sup>150</sup>
- Action items focused specifically on equity, from equitable energy rate design and expansion of subsidy programs for lower-income residents to local hiring and workforce development initiatives throughout the CAP.<sup>151</sup>
- A Racial and Social Equity Assessment Tool (RSEAT) used to evaluate and improve CAP strategies.<sup>152</sup>
- An analysis of the socioeconomic benefits of CAP strategies, with a focus on public health and reduced energy cost burdens.<sup>153</sup>

The CAP's Racial and Social Equity Assessment applied the RSEAT (a series of questions in five themes and 17 impact areas to address distribution of benefits and root causes of racial disparities) to the CAP's strategies. The analysis identified eight cross-sector equity goals, associated metrics and CAP actions, and other recommendations to further advance racial justice. The first two columns in the table below detail these eight goals and systemic racial equity metrics to track progress in achieving them, derived from CAP

Appendix D. The third column of the table offers additional considerations for funding and financing each goal, based on the authors' analysis.

| CAP GOAL   | CAP METRICS TO TRACK PROGRESS  | CONSIDERATIONS FOR FUNDING AND FINANCING  |
|--|--|---|
| Shift financial responsibility<br>for climate action away from<br>parties least responsible for<br>climate change            | <ul> <li>Reduce cost burdens for low-income populations</li> <li>Reduce wealth and income disparities by race</li> </ul>   | <ul><li>Rate and fee structures</li><li>Role of grants, incentives, and loans</li></ul>   |
| Increase opportunities for people with barriers to employment and reduce income disparities by race                          | <ul> <li>Reduce wealth and income disparities by race</li> <li>Increase City and County of SF contracts awarded to Disadvantaged Business Enterprises (DBEs) and Local Business Enterprises (LBEs)</li> <li>Increase income for people with barriers to employment</li> </ul>                        | <ul> <li>Labor and workforce investments</li> <li>Identifying priority populations</li> <li>Incentives for DBE/LBE hiring in financing structure (aligning with the principles of the California Workforce Development Board's Putting California on the High Road report)</li> </ul> |
| Reduce burden on and increase<br>support for BIPOC-owned small<br>businesses and nonprofits to<br>reverse their displacement | <ul> <li>Reverse displacement of<br/>nonprofits that are BIPOC-<br/>owned and serving</li> <li>Reduce income and wealth<br/>disparities by race</li> </ul>   | <ul> <li>Incentives for hiring</li> <li>Access to capital and funding</li> <li>Legal services and technical assistance to access funding/ finance</li> <li>Tenant protections in building improvement financing</li> </ul>  |
| Repair land and property injustice   | <ul> <li>Increase traditional land use and management by local tribes and the American Indian community</li> <li>Reverse displacement of American Indian, Black, and other People of Color</li> <li>Reduce disparity in homeownership by race</li> <li>Reduce disparity in wealth by race</li> </ul> | <ul> <li>Land trusts and land banking</li> <li>Equity measures in funding building decarbonization to avoid displacement and reverse housing discrimination</li> <li>Investments in first-time homeownership</li> </ul>   |

## CAP METRICS TO TRACK PROGRESS

## CONSIDERATIONS FOR FUNDING AND FINANCING

#### Protect low-income residential tenants from rising costs and displacement and support development of affordable housing

**CAP GOAL** 

- Reduce housing cost burden for low-income tenants
- Reverse displacement of American Indian, Black, and other People of Color
- Work on pass through of building retrofit and upgrade costs to avoid burdens on residents
- · Affordable housing investments
- Displacement avoidance strategies – legal assistance, etc.

## Protect all mobility needs, including for those who are vehicle reliant

- Improve mobility in areas underserved by transit, based on community needs
- All people in SF have mobility that is comfortable, affordable, and reliable
- Improve air quality in high air pollutant exposure zones
- Considerations for parking and pricing policies – exceptions and/ or discounts
- Public-private partnerships for transit gaps/connections
- · Small business support for fleets

#### Ensure equitable development and service provision, while preventing displacement

- Reverse displacement of BIPOC communities
- Reverse health disparities by race
- Increase representation from BIPOC communities in decision making roles
- Displacement avoidance investments and tools
- Technical assistance and capacity building as an investment need
- · Community benefits agreements
- Community solar and other projects designed to support participation by renters, lowincome population, etc.
- Co-development of investment strategies

#### Reduce racial bias and discrimination in government and community processes

- Reduce disproportionate arrests of Black and Brown people
- Co-development of investment strategies
- Technical assistance and capacity building as an investment need

Table 7. CAP equity goals and metrics, with considerations for funding and financing.

#### **B. CASE STUDY: GREENLINED ECONOMY GUIDEBOOK**

The Greenlining Institute's *Greenlined Economy Guidebook* presents a "long-term vision for an economic system with racial equity at its core" based on a cooperative, regenerative, democratic, non-exploitative, and inclusive economy. The Guidebook distinguishes between the inequitable redlined economies that have given rise to climate change and an equitable, racially just, "greenlined" economy to build resilience. The framework includes six standards for equitable community investment that offer guiding insight for CAP investment:

- Emphasizing race-conscious solutions to target and prioritize the most impacted communities, in light of the role that racist policies have played in creating today's economic and environmental challenges.
- Prioritizing multi-sector approaches in light of the multi-sector nature of climate and economic problems.
- Delivering intentional benefits to those most in need while avoiding increased or new burdens, rather than hoping for benefits to trickle down to communities.
- Building community capacity to acknowledge and overcome the role of structural racism in limiting the capacity of communities of color to invest and improve.
- Being community-driven at every stage of idea generation and decision-making.
- Establishing paths toward wealth-building for as many community members as possible, including pathways beyond and lower barriers to entry to homeownership.<sup>155</sup>

The Guidebook maps these standards across public, private, public-private, and philanthropic investment types, including an emphasis on community targeting for public investments and bond measures.<sup>156</sup> To the extent possible, City leaders could focus CAP investments on communities and areas that stand to benefit the most from equitable community investment standards.

## C. CASE STUDY: MORE THAN FINES AND FEES: INCORPORATING EQUITY INTO CITY REVENUE STRATEGIES

In December 2021, the Urban Institute published an assessment of efforts to describe the challenge and opportunity of integrating equity principles into city revenue strategies. The efforts were completed by the What Works Cities Initiative City Budgeting for Equity and Recovery program, funded by Bloomberg Philanthropies. The Urban Institute analysis examined city revenue structures, including the types of revenues cities rely on and how much cities collect from residents by race or ethnicity.

Key findings from the report include:

- Cities have limited revenue-generating alternatives because state rules restrict which local revenue-raising mechanisms are permissible.
   Overall, limits on local tax authority and property taxation, a need to maintain the economic base, and a need to meet service demands can constrain cities' flexibility and ability to reform revenue structures.
- Only a handful of cities routinely use "mature" equity plans or frameworks for all citywide revenue proposals. One example is the District of Columbia which recently instituted a Council Office of Racial Equity (CORE) and racial equity impact assessments (REIAs) for major legislation.<sup>158</sup>
- Many cities, including Buffalo, New York and St. Louis, Missouri, have filed recovery plan reports describing use of American Rescue Plan Act funds guided by equity.<sup>159</sup> For example, the City of Buffalo's spending proposal includes "disaggregated data on service industry employment by race and neighborhood" in efforts to better contextualize the wealth gap, needed job training and skill building, and related spending allocations.<sup>160</sup> Buffalo officials noted that because communities of color disproportionately made up service industry jobs impacted by the pandemic (hotel workers, restaurant workers, etc.), focusing on pandemic-proof job training opportunities in those communities could impact system economic inequities.<sup>161</sup>
- The Infrastructure Investment and Jobs Act (IIJA) outlines equity as a core value in infrastructure spending, including for economic redevelopment, roads, highways, bridges, climate change mitigation, water, sewer, and other functional areas. In addition, the IIJA reauthorizes and expands eligibility for the Surface Transportation System Funding Alternatives Program to local governments. The new Strategic Innovation for Revenue Collection program will "test the design, acceptance, equity, and implementation of user-based alternative revenue mechanisms" such as road usage fees. 163
- Cities could monitor and measure how changes in revenue and revenue dispersion are placing burdens on low-income residents and communities of color.<sup>164</sup> Using this data, cities can better assess outcomes by race, income, and other factors indicative of progress towards equity goals.

Additionally, the Urban Institute developed criteria questions that help assess traditional and equitable tenets of revenue evaluation, with some additional considerations to frame funding opportunities through the lens of equity. For example, alongside traditional tenets of revenue evaluation (such as adequacy, sustainability, stability, and transparency of funding), leaders should assess revenue measures for their horizontal and vertical equity, market neutrality, and equity in the use of proceeds. Key questions could include "Does the tax provide fair distribution of burden across individuals and businesses at different income levels, geographies, and demographics?" or "If vulnerable populations are disproportionately paying the tax, are they (at a minimum) receiving a proportional benefit?" These types of inquiries are vital for City leaders as

they craft CAP revenue strategies, particularly given the scale and diversity of measures that will be needed to adequately fund CAP implementation. The report also defines a "mature" equity-informed revenue approach as one that includes "principles and a process to integrate equity into revenue strategies" and "measures and tracks how the equity-informed revenue processes enhance determinants of equity in the city over time," highlighting the extent to which equitable CAP implementation will rely on creation and support of concrete decision-making processes, some of which the City has already initiated.<sup>166</sup>

## D. EQUITABLE FUNDING AND IMPLEMENTATION STRATEGIES

Based on research outreach, CLEE identified a set of strategies for equity in CAP revenue generation and implementation. Table 8 describes a set of top-priority strategies developed through CLEE's process, many of which are reflected in the Executive Summary. The remainder of the section discusses a range of equitable taxation, budgeting, contractual, impact assessment, mapping, and oversight strategies that can shape CAP implementation.

#### 1. Top-priority strategies

#### **STRATEGY**

Create an independent community council to provide equity oversight of CAP investment and implementation with representatives from city government and community, climate, environmental justice, labor, and small business groups

- Focus council activities on individual CAP sectors for one- or two-year timeframes, beginning with Building Operations followed by Transportation and Land Use, with sector-specific leaders from City departments invited to participate as relevant
- Vest the council with substantive decision-making authority by requiring council approval for a designated portion of investment decisions in major GO bonds

#### **EXAMPLES/PRECEDENT**

Solar on Multifamily Affordable Housing (SOMAH)
Advisory Council: A program serving California investorowned utilities, the community-driven process includes an advisory council of stakeholders from community-based organizations. These organizations contribute to program development and implementation, and thus the advisory council can monitor the progress of the program and maximize benefits to low-income housing tenants.

SF Planning EJ working group: The City established an Environmental Justice Working Group to include both community leaders representing the neighborhoods most impacted by environmental justice and staff from City agencies that have EJ programs and/or oversee relevant work.

#### City of Los Angeles Climate Emergency Commission:

A body designed to assist with establishing climate priorities and approving the climate roadmap, with positions designated for tribal, youth, disadvantaged community, small business, and other representatives.

Establish a participatory budgeting process for a specific portion of total CAP investments as part of the oversight council processes Fresno TCC process: The City of Fresno used a participatory budgeting process to develop a suite of proposals for its submission to the state Transformative Climate Communities (TCC) program. The five-month process included five community steering committee meetings, ultimately leading to winning more than \$66 million in funding.

SFMTA-BHP process: SFMTA engaged Bayview-Hunters Point community residents for a two-year process to develop spending priorities under a Caltrans Sustainable Planning Grant. The process included formation of a community steering committee, solicitation of ideas, and a public vote on project proposals. The selected projects included crosswalk upgrades, new bus shelters, and more staff.

Cambridge, MA participatory budgeting: Projects must benefit the public; be one-time expenditures that cost \$1 million or less; be physical infrastructure or capital projects (something bought or built); and be implemented by the city on city property.

Require racial equity impact assessments for major revenue generation and investment initiatives based on the CAP's Racial and Social Equity Assessment Tool DC Racial Equity Impact Assessments: Washington, DC's Council on Racial Equity (CORE) conducts Racial Equity Impact Assessments (REIAs) for most proposed legislation. Notably, general obligation and revenue bonds and the budget are excluded. REIAs assess how a bill would operate in practice, examine the inclusion of different groups in the bill's development, and determine whether the bill would impact particular groups or racial equity.

Work with priority communities, as identified in the Environmental Justice Communities Map, to identify high-priority projects that address community needs and support CAP implementation

AB 617 Community Air Protection Program (CAPP): In response to Assembly Bill (AB) 617, CARB established the CAPP to reduce exposure in EJ communities. Each selected community organizes a Community Steering Committee to develop and implement strategies and priorities. Each Committee develops a Community Assessment Monitoring Plan to identify hotspots and a Community Emissions Reduction Plan to prioritize investment.

#### **EXAMPLES/PRECEDENT**

Create a funding mechanism to support CAPrelated project predevelopment activities, such as electrical panel upgrades before building decarbonization installations, to ensure program accessibility for high-need applicants with limited resources TECH Clean California: A \$120 million state initiative to advance building decarbonization, including incentives for multifamily properties and "quick start" grants that can fund electrification readiness and fuel switching preparation measures.

Ensure community-based organization (CBO) outreach and language services

SOMAH Marketing and Outreach Services: As part of the SOMAH program, community-based organizations were paid as subcontractors to provide multilingual services, such as a multilingual tenant hotline. The organizations completed direct outreach and education in target communities, with a focus on small property owners and tenants.

Administer stipends for community engagement and participation so that time is compensated

Eastern Coachella Valley AB 617 Community Steering Committee: Active community residents on the Committee are entitled to receive a stipend for each meeting attended, subject to the availability of AB 617 funding. The stipend is only available for local community residents. The stipend allows for greater participation and procedural equity within the AB 617 implementation process.

Table 8. High-priority strategies for equitable CAP funding and implementation.

#### 2. Progressive and equitable tax strategies

City leaders can craft any CAP-oriented taxes to ensure their burdens are distributed equitably across residents according to ability to pay and in recognition of the traditional disproportionate impact of tax policies on lower-income and underserved communities. Strategies could include:

Exemptions or carve-outs for essential goods and services such as food and medical care. For example, Portland's Clean Energy Surcharge on large retailer income excludes qualifying groceries, pharmaceuticals, medical services, and certain other expenses.<sup>167</sup>

Exemptions or carve-outs for smaller businesses. For example, Portland's Clean Energy Surcharge only applies to retailers with total gross income over \$1 billion and in-city gross income over \$500,000.168

Progressive application to larger properties. For example, Los Angeles Measure A's parks parcel tax is charged per square foot of improved property, meaning owners of larger properties pay proportionately higher taxes. Los Angeles Measure W's water parcel tax is charged per square foot of impervious property, meaning owners of larger properties and homes pay proportionately higher taxes; however, if lower-income owners have reduced vegetation and tree canopies on their properties, such a charge could prove inequitable without other exemptions or opportunities for vegetation cover.

#### 3. Community and participatory budgeting processes

Participatory budgeting is a process in which community members participate directly in spending decisions, with the goal of ensuring greater equity and public buy-in for public investments. Participatory budgeting typically includes process design by a steering committee, idea generation by community members, proposal refinement and outreach by volunteer delegates, and a public vote. <sup>169</sup> Examples of participatory budgeting include:

Bayview-Hunters Point, where SFMTA partnered with community residents for a two-year process to develop spending priorities for \$750,000 under a Caltrans Sustainable Planning Grant as part of a broader Community-Based Transportation Plan. The process included formation of a community steering committee, solicitation and refinement of ideas into 11 qualifying categories, and a public vote on 15 project proposals by 368 voters. The selected projects included three transit assistant positions, four crosswalk upgrades, and two new bus shelters. The selected projects included three transit assistant positions are crosswalk upgrades.

Fresno, where the city used a participatory budgeting process to develop a suite of proposals for its submission to the state Transformative Climate Communities (TCC) program. The five-month process included five community steering committee meetings and a final vote by 125 committee members, resulting in over \$215 million in proposed climate resilience investments including a satellite community college campus, mixed-use development, clean shared mobility and rail connectivity, and parks and urban greening.<sup>172</sup> (Approximately \$77 million of the proposals were included in the TCC proposal and over \$137 million sought match funds.) While some analysts found that the budgeting process had limited community representation and was overly reliant on existing community groups and elite institutions, 173 the proposal that the participants developed was ultimately successful, winning a \$66 million TCC grant, the largest in the program's history. 174 Following the grant award, Fresno developed and dedicated over \$800,000 to a Community Engagement Plan for residents, business owners, and other stakeholders in priority communities to "be active participants in all areas of project planning and implementation" of the project, building on the community budgeting effort.<sup>175</sup>

New York City, where regular participatory budgeting processes have been used since 2011 to inform community decision-making on the investment of individual council members' discretionary district funds. Qualifying projects must be physical infrastructure with a lifespan of at least 5 years, cost over \$50,000, and benefit the public. The most recent round included over 30 of

the 51 council districts and \$35 million in parks, transit, schools, and other investments. 176

Cambridge, Massachusetts, where since 2015 residents over 12 years old have had the opportunity to vote directly on a subset of capital expenditures through a program run by the City's budget department. In the most recent round, residents selected six projects for a total of \$1 million in capital expenditures, including investment in two new public EV chargers. The annual process includes community submission of ideas, volunteer outreach and development of formal proposals, City staff vetting for feasibility and cost, and public voting on a final list of 20 options. Proposals must involve one-time capital expenditures on public property and confer a community benefit. The process takes approximately six months. The process takes approximately six months.

#### 4. Community benefits agreements

Community benefits agreements (CBAs) are agreements between developers and community-based organizations for community support of new projects based on commitment to measures such as local hiring minimums, affordable housing units, and parks or community facility development. CBAs can include any commitment between a developer and community members, though they are often tailored to the nature of the development in question.<sup>179</sup> Government officials and agencies are typically not party to a CBA, but they can be involved in the process and can require the creation of a CBA as a condition to approval or preferential bid factor for private developments. One prominent CBA example is the 2008 agreement between the master developer of San Francisco's Hunters Point Shipyard and Candlestick Point and a group of community nonprofits, which committed the developer to making 32 percent of housing units affordable for low- and middle-income residents, providing \$27 million in housing purchase assistance funds, contributing \$8.5 million to a local workforce development fund, and including local hiring requirements in project contracts. 180

#### 5. Racial Equity Impact Assessments

Washington, DC's Council on Racial Equity (CORE) conducts Racial Equity Impact Assessments (REIAs) for most proposed legislation in the district.<sup>181</sup> (Notably, general obligation and revenue bonds and the budget are excluded.) REIAs assess the potential pros and cons of how a bill would operate in practice, examine the inclusion of different groups in the bill's development, and determine whether the bill would impact particular groups or advance racial equity. REIAs do not make explicit policy or amendment recommendations and are not binding—while a REIA may find that proposed legislation could harm a particular group or equity in general, that finding would not necessarily prevent passage. Dedicated CORE staff conduct REIAs upon request of the City Council, and CORE maintains a database of REIAs.<sup>182</sup> For example, an April 2022 REIA for a proposed urban forest preservation act to protect "special and heritage trees" found that the bill would likely improve health outcomes for residents of color but would likely harm Black residents because

the imposition of fines for damage to those trees could disproportionately impede Black wealth building.<sup>183</sup>

The City of Oakland's 2030 Climate Action Plan was developed as an Equitable Climate Action Plan (ECAP). As part of the ECAP process, the city completed a Racial Equity Impact Assessment and Implementation Guide. The REIA aimed to understand the needs of BIPOC customers, businesses, and communities with a systematic examination of how different racial and ethnic groups will likely be affected by proposed actions, such as building decarbonization goals.

The Oakland REIA highlights community engagement strategies including establishment of inter-departmental communication, delegation of power to frontline communities, establishment of local implementation committees, and development of equitable partnership agreements. Local implementation committees are envisioned as "decentralized, neighborhood-based governance bodies, envisioned as regularly occurring decision-making forums, held in neutral, community-oriented, and accessible public spaces" with standing meetings and dedicated implementation staff; partnership agreements are envisioned as financial commitments from the City to compensate community members for participation in ECAP implementation. 186

The Oakland REIA also identifies equity-specific strategies for implementation of each of the ECAP items, including some–such as exploration of transfer of development rights (TDR), working with community land trusts (CLTs), progressive parking fees, priority tree planting in lowest tree-cover areas, and requirements for ride-share companies to fund vehicle upgrades–that may have relevance to equitable CAP implementation.<sup>187</sup>

#### 6. Mapping and assessment tools

Environmental justice- and equity-focused mapping and assessment tools assist decision-makers in identifying the communities and neighborhoods most affected by social and environmental inequities, most vulnerable to environmental impacts, and most in need of prioritization in future climate-related investment plans. Consistent application of these tools can be vital to ensuring that new investments are structured and targeted-and the funds that support those investments are raised-in an equitable manner. Key examples include:

<u>CalEnviroScreen</u>, a program of the California Office of Environmental Health Hazard Assessment (OEHHA), which identifies disadvantaged communities (DACs) that bear disproportionate burdens of environmental pollution based on a combination of pollution burden (e.g., air quality, water quality, proximity to hazardous sites) and population (e.g., asthma rate, housing burden, poverty) indicators. Under Senate Bill 535 (De Leon, Chapter 830, Statutes of 2012) and Assembly Bill 1550 (Gomez, Chapter 369, Statutes of 2016), the state is required to commit a minimum percentage of funds generated by the greenhouse gas cap-and-trade program to investments that benefit or are located in DACs.

San Francisco's Environmental Justice Communities Map, which builds on CalEnviroScreen with additional local data on pollution and demographics, identifying "EJ communities" as the census tracts with the top 30% of cumulative environmental and socioeconomic vulnerability across the city, including Bayview Hunters Point, South of Market, Tenderloin, Chinatown, Visitacion Valley, Potrero Hill, Treasure Island, and Mission neighborhoods.

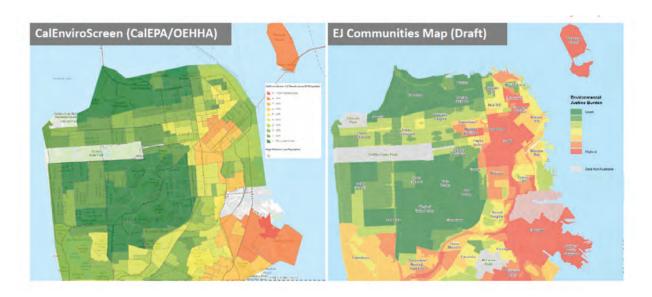


Figure 4: Comparison of CalEnviroScreen and San Francisco EJ Communities Map analyses of San Francisco communities' environmental and socioeconomic vulnerabilities. Source: SF Planning.

San Francisco's <u>Racial and Social Equity Assessment Tool</u> (RSEAT), which the City developed as part of the CAP to track progress and support implementation across eight equity goals including strategies such as income-based fee structures for EV charging, community benefits and workforce development criteria, and equitable passthrough of building electrification costs.<sup>189</sup>

The Metropolitan Transportation Commission's <u>Equity Priority Communities</u> map, which identifies Bay Area communities that are or have historically been underserved based on a mix of income, demographic, transportation access, and other data relevant to equitable regional transportation investment decision-making.

The White House Council on Environmental Quality's <u>Climate and Economic Justice Screening Tool</u>, which assists federal agencies in achieving the Biden Administration's Justice40 Initiative goal of directing 40 percent of benefits to disadvantaged communities.<sup>190</sup> The tool identifies communities' climate change burden, transit and housing availability, pollution exposure and health burdens, among other factors, compared to income and higher education attainment at the Census tract level.

#### 7. Equity oversight boards and committees

Establishment of an oversight board or committee to solicit community input and provide accountability could also improve equitable implementation of CAP actions. While there are limited examples of oversight committees with firm authority to direct investment or funding, jurisdictions are working to uplift frontline communities through new entities and transparent processes.

In the City of Los Angeles, the Climate Emergency Mobilization Office (CEMO) has a designated Commission to assist with establishing climate priorities and approving an Equitable Climate Action Roadmap.<sup>191</sup> The CEMO focuses on addressing and engaging the voices of frontline and Indigenous communities through convening community assemblies and stakeholder engagement sessions. Working in collaboration, the Commission will recommend strategies to CEMO that align with the City of Los Angeles's Green New Deal (2019 Climate Action Plan). The City of LA Climate Emergency Commission is composed of:

- Three Indigenous members, with one from each of the following three historic local tribes: Gabrielino-Tongva, Fernandeño-Tataviam Band of Mission Indians, and Chumash
- Seven members representing geographically distinct communities in the top 10% score/segment on CalEnviroScreen
- One organized labor member
- Three members that are policy experts on climate change/air quality, toxics, and/or workforce
- One member that is an owner of a small business
- Two youth members that are under the age of 24
- One member appointed by the President of the City Council
- One member appointed by the Chair of the Energy, Climate Change, Environmental Justice, and LA River Committee. 192

Sacramento County has established a Climate Emergency Mobilization Task Force to provide input, guidance, oversight and assistance to the County Sustainability Manager, and to serve as an advisory body.<sup>193</sup> While still soliciting Task Force members, the group will be composed of 13 members, including six members with technical expertise in air quality, agriculture, built environment, economics, energy, or transit/transportation; six environmental justice leadership members; and one student member. Notably, Sacramento is planning to compensate Task Force members \$70 per meeting.

The Bay Area Air Quality Management District's Community Health Protection Program implements California Assembly Bill 617 (C. Garcia, Chapter 136, Statutes of 2017) to reduce community exposure to air pollutants. 194 The Community Steering Committees are a collaborative initiative that brings together community

groups, community members, environmental organizations, regulated industries, and other key stakeholders to reduce harmful air pollutants. The Bay Area Air Quality Management District and California Air Resources Board selected West Oakland and Richmond as the first two AB 617 communities. Each has its own Steering Committee, which serves to identify areas of concern for air pollution sources and sensitive receptor sites, and review existing plans, studies and reports on air quality. <sup>195</sup> The Committee provides strategic input towards Plan development and disseminates information to community stakeholders.

Also as part of AB 617, some air districts and communities have developed stipend programs to financially compensate Community Steering Committee members' participation.<sup>196</sup> In the Eastern Coachella Valley, active community residents on the Committee are "entitled to receive a stipend of \$75 per meeting attended (excluding any additional meetings such as Working Group meetings, Subcommittee Meetings, and Workshops), subject to the availability of AB 617 funding."

The stipend is only available for local community residents and is subject to certain requirements. The stipend allows for greater participation and procedural equity within the AB 617 implementation process.

Los Angeles County's Safe Clean Water Program (Measure W) raises revenue for improving drinking water quality and quantity through a parcel tax of 2.5 cents per square foot of each parcel's impermeable area. The parcel tax incorporates exemptions for low-income seniors, and a potential credit for all low-income owners. The program relies on Watershed Area Steering Committees to envision, execute, and evaluate projects, vesting these bodies with substantial decision-making authority regarding program funding. Each Watershed Area Steering Committee includes five seats for community stakeholders "represent[ing] environmental justice interests, business interests, and environmental interests," with two seats allocated for "representatives from the community, such as: public health, labor, non-governmental organization, disadvantaged communities, community-based organization, schools, academia, and others."



# V. LABOR CONSIDERATIONS AND STRATEGIES

Successful implementation of CAP actions will rely on a well-paid, trained, and supported local workforce ready to electrify buildings, build active and public transportation networks, and expand urban greening, among many other actions critical to achieving CAP goals across all six sectors. At the same time, delivering quality employment and training opportunities to priority communities will be vital to achieving an equitable transition to a low-carbon economy.

The CAP explicitly prioritizes a just transition for workers displaced by the transition to a clean economy and development of "quality jobs that support economic and climate justice" in recognition that "whole communities could be left behind and penalized in the shift to decarbonization, unless policies are advanced to protect against that harm." While San Francisco is home to relatively few jobs in fossil fuel-based industries that are at the greatest risk of displacement, ensuring shared prosperity and supporting local workers is a key component of the City's own just transition.

CAP implementation and revenue-raising activities should seek to incorporate demand-side strategies (i.e., policies or goals that catalyze demand for labor, such as community workforce agreements), supply-side strategies (i.e., initiatives that prepare workers for success, such as targeted training programs or new apprenticeship programs), and just transition strategies that retrain displaced workers and enable them to excel in new career pathways. Revenue-raising strategies across all CAP sectors can benefit from prioritizing labor demand, supply, and transition.

This section describes multiple approaches for incorporating labor considerations into CAP implementation, including an overview of California's just transition strategy, a case study from San Diego County, and a sector-specific example for deploying equitable labor strategies in the building electrification context.

### A. CASE STUDY: PUTTING CALIFORNIA ON THE HIGH ROAD: A JOBS AND CLIMATE ACTION PLAN FOR 2030

In their June 2020 report *Putting California on the High Road: A Jobs and Climate Action Plan for 2030*, the California Workforce Development Board (CWDB) and Governor's Office of Planning and Research (OPR) defined a just transition in the context of economic decarbonization as:

integrated policy approaches offering protection, support, and compensation for displaced workers and communities in specific industries or regions.... Just transition programs can offer resources for both immediate short-term assistance to workers and communities directly affected by these trends, and long-term assistance to communities and workers as they "retool" and adapt to a carbon-neutral economy. These strategies can also incorporate economic development planning, to help regions better identify the most promising emerging new industries based on regional assets including geography, educational and research institutions, and existing workforce skills.<sup>202</sup>

The report, commissioned under California Senate Bill 398, provides a framework for integrating job creation, workforce training and retraining, community benefits and project labor agreements, community-based organization partnerships, and other workforce development strategies into California's climate policies.<sup>203</sup>

This framework can inform funding and implementation decisions made under San Francisco's CAP, which defines a just transition as "a strategic, people-focused approach to phasing out polluting industries while creating employment pathways for workers in those industries, plus a new generation of workers, to transition to quality jobs that support economic and climate justice," and which identifies a just transition as one of four lenses through which new initiatives should be developed and implemented to reduce burdens for marginalized communities and maximize benefits for all.<sup>204</sup>

To achieve a just transition through decarbonization programs, the CWDB and OPR framework emphasizes a "high-road" approach based on high-quality jobs, high-quality work, and wages and benefits sufficient to support both, through demand-side, supply-side, and just transition policy strategies. These strategies include skilled workforce and wage standards, job training programs, displaced worker assistance, and community workforce agreements. They can be aligned with the specific policy mechanisms (such as public investments and incentive programs) that drive climate mitigation and may affect jobs in one or more sectors:



Figure 5: Visual depiction of California's high road workforce training approach. Source: CWDB and OPR, Putting California on the High Road (June 2020).

To achieve these goals, policymakers should consider labor an investment rather than a cost of the decarbonization transition; focus on the quality as well as the quantity of jobs; and craft deliberate policy interventions to advance job quality and social equity.<sup>206</sup> While San Francisco's CAP and broader decarbonization goals only implicate a portion of the just transition question since the city is home to relatively few carbon-intensive industries at risk of displacement, these principles can nonetheless inform the development of a labor- and workforce-supportive CAP funding plan. Key labor investment strategies for CAP leaders to consider include:

• Demand-side strategies include prevailing wage standards for specific sectors and projects (see, e.g., Senate Bill 35, Wiener, Chapter 366, Statutes of 2017) and living wage requirements (such as San Francisco's existing requirements);<sup>207</sup> skilled and trained workforce and certification requirements; responsible contractor and employer standards; project labor agreements and community workforce agreements; inclusive and first-source hiring;<sup>208</sup> and insourcing/public sector work retention.<sup>209</sup> Key strategies with potential application to CAP funding and financing models include community workforce agreements, inclusive procurement requirements for large capital investments, responsible employer standards for incentive programs, increased scale of projects, and public sector insourcing.<sup>210</sup>

- Supply-side strategies include inclusion training with career matching, screening, technical training, and job readiness; pre-apprenticeship, apprenticeship, and mentoring programs for disadvantaged communities and the formerly incarcerated;<sup>211</sup> community college pathway promotion programs; training for skilled construction and technical occupations; and skills upgrade programs such as the Green Janitors Education Program and California Advanced Lighting Controls Training Program.<sup>212</sup> Key strategies with potential application to CAP funding and financing models include aligning with existing state programs such as CWDB's High Road Training Partnership initiative, creating new apprenticeship programs, and creating new inclusion and pre-apprenticeship programs for construction, technical, and professional jobs.<sup>213</sup>
- Just transition strategies largely focus on plant closure and industry phase-out concerns for high-emitting sectors such as coal mining and steel production, which are not applicable to San Francisco's CAP in most cases. However, certain key strategies-such as the Diablo Canyon nuclear plant closure plan and "Joint Proposal" for employee support and retraining<sup>214</sup>-could have potential application to CAP funding and financing models.<sup>215</sup>
- Energy sector strategies with potential application to CAP funding and financing models include responsible contractor standards, increased project scale including municipal, school, hospital, and community installations, and apprenticeship programs for distributed generation; responsible contractor requirements, skilled workforce requirements, increased project scale, and community workforce agreements for energy efficiency; inclusive procurement and insourcing for public procurement and low-income weatherization programs; and just transition support for natural gas workers.<sup>216</sup>
- Transportation sector strategies with potential application to CAP funding and financing models include inclusive procurement for programs that contract with transportation network companies (TNCs) and micro-transit services; worker protections and strict enforcement of labor laws for TNCs; electric vehicle infrastructure training program (EVITP) certification requirements for all EV charging infrastructure installation; and project labor agreements or community workforce agreements for major transit infrastructure projects.<sup>217</sup>
- Waste sector strategies with potential application to CAP funding and financing models include climate-related rate increases for waste services and training partnerships to meet the demand for organic diversion.<sup>218</sup>
- Urban forest and ecosystem sector strategies with potential application to CAP funding and financing models include inclusive procurement policies for large capital purchases and insourcing for local urban greening projects.<sup>219</sup>

# B. CASE STUDY: PUTTING SAN DIEGO COUNTY ON THE HIGH ROAD TO A CARBON-NEUTRAL ECONOMY: SOCIAL POLICIES AND CAPITAL INVESTMENTS TO ENSURE A JUST TRANSITION FOR WORKERS

This 2022 report for San Diego County applies the strategies outlined in the 2020 state High Road jobs report to the San Diego Regional Decarbonization Framework (RDF), a county-wide climate action policy document designed to support implementation of the county's 2018 climate action plan.<sup>220</sup> The analysis includes recommendations for a number of CAP-relevant sectors, including:

- Building decarbonization. San Diego's RDF calls for 90%+ electrification of new equipment by 2030 and 90%+ electrification of all equipment by 2050, with potential new jobs from retrofit projects as well as a loss of jobs from the phaseout of the gas system. Strategies with potential relevance to CAP implementation include skilled workforce requirements and community workforce agreements for nonresidential buildings; neighborhood aggregation and prequalification of responsible contractors for residential buildings; apprenticeship programs; and neighborhood-scale carbon-free district energy pilots installed by current gas workers.<sup>221</sup>
- Energy supply decarbonization. San Diego's RDF calls for 100% renewable energy by 2050 including maximum rooftop and distributed generation, with job opportunity and wage limitation concerns in the distributed installation and maintenance sector. Strategies with potential relevance to CAP implementation include community- and other larger-scale/aggregated models for distributed generation installations; responsible employer requirements; and apprenticeship opportunities.<sup>222</sup>
- Transportation decarbonization. San Diego's RDF includes EV adoption and EV infrastructure deployment goals as well as public transit and active transportation goals, with potential negative job quality and wage concerns for EV infrastructure installers and TNC drivers, contrasted with union protections for public transit operators and transit infrastructure development. Strategies with potential relevance to CAP implementation include EVITP certification requirements for EV charger installations; inclusive procurement, responsible employer, and sustainable wage policies for TNC-related programs; project labor agreements and community workforce agreements for new transit infrastructure projects; and apprenticeship programs.<sup>223</sup>

# C. CASE STUDY: CULTURE, COLLABORATION, AND CAPITAL: LEVERAGING PROCUREMENT FOR ECONOMIC EQUITY

This 2019 City Accelerator report identifies a group of equity-focused procurement policies including:

- Pre-bid tools such as contract procurement forecasting to provide advance notice of opportunities to small and minority-owned businesses; bonding and insurance assistance to address financing limitations for smaller businesses; and joint ventures.<sup>224</sup>
- Procurement tools such as streamlining bidding processes, breaking up large contracts into smaller contracts, prompt payment initiatives, and minority business distributorships to attract a more diverse pool of businesses.<sup>225</sup>

The report also highlights successful procurement overhaul examples in Los Angeles, such as a top-to-bottom city procurement review and new certification training initiatives, which are relevant to San Francisco due to California Proposition 209's ban on many racial affirmative action policies.

## D. CASE STUDY: HEAT PUMP RETROFITS: OPTIONS TO PROMOTE EQUITABLE AND AFFORDABLE ADOPTION IN EXISTING BUILDINGS<sup>226</sup>

This 2022 report from CLEE and UCLA School of Law focuses on policy and workforce solutions to scaling deployment of space and water heat pumps in existing buildings, one of the central technologies in building decarbonization efforts. The report builds on multiple recent efforts by UC researchers at the intersection of building decarbonization and labor, including CLEE's and UCLA's 2021 report *Building Toward Decarbonization* and the UCLA Luskin Institute's 2019 comprehensive assessment of *California Building Decarbonization Workforce Needs and Recommendations*.<sup>227</sup>

Most notably for San Francisco, the California Workforce Development Board's High Road to Building Decarbonization in the San Francisco Bay Area program is a \$10 million demonstration project designed to model partnership strategies for the state that will decarbonize buildings, generate high quality careers, and create health benefits for disadvantaged communities in the Bay Area.<sup>228</sup> Led by Rising Sun Center for Opportunity, this project aims to prepare the emerging building decarbonization industry and workforce with knowledge and resources about heat pump technology. Local workforce development boards from Alameda County and Oakland Workforce Development Boards have developed relationships with CWDB and Building and Construction Trades. City leaders could consider expanding on or replicating the demonstration project in the first rounds of CAP building decarbonization investment.

#### Strategies recommended in the report include:

- Carrot and stick models for raising building retrofit standards. State
  and local leaders can condition rebates and incentives (including
  accelerated permitting) for building electrification projects on
  commitments to workforce, hiring, and skill standard criteria to
  attract high performing contractors, ensure work quality, and prevent
  wage and labor law violations.
- In-house apprentice programs and HVAC schools. Since many technicians and installers are trained by companies, finding solutions to improve in-house training can result in more knowledge transfer. Utility programs could offer incentives to contractors for in-house training. Programs can also support City College workforce development opportunities or opportunities hiring residents from disadvantaged communities.

### VI. CONCLUSION

Based on research, interviews, workshops, and guidance from both the City of San Francisco and the Technical Advisory Committee, CLEE presents the following priority recommendations for CAP revenue generation:

#### **Near-term Measures:**

- Propose and pass CAP-focused general obligation (GO) bonds, coupled with an increase in the City's
  GO bond limit to allow property tax increases exclusively to fund new bonds for CAP investments,
  including:
  - A **building decarbonization GO bond** to fund efficiency and electrification retrofits for existing residential buildings
  - Increase the size of the 2024 **affordable housing GO bond** to fund the San Francisco Housing Accelerator Fund for CAP-aligned housing investment
- Implement an additional gross receipts tax on the highest-revenue businesses to fund workforce development initiatives, City staff to implement the CAP, and equity oversight bodies.
- Implement a parcel tax (based on square footage of property or impermeable surfaces) to fund parks, green infrastructure, and tree canopy investments.

#### Medium-term Measures:

- Propose and pass a **transportation GO bond** to fund public transit, active transportation, and electric vehicle charging infrastructure (coupled with an increase in the City's GO bond limit to allow property tax increases exclusively to fund new bonds for CAP investments)
- Implement **vehicle pricing strategies** to incentivize reductions in driving and raise revenue for low-carbon transportation, with rebates, discounts, or exemptions for lower-income residents or in priority communities as applicable:
  - Institute **downtown vehicle congestion pricing** with revenue dedicated to public transit, active transportation, and/or electric vehicle charging infrastructure
  - Expand the **residential parking permit system** to encompass all curbside parking and private parking spaces/curb cuts and authorize SFMTA to operate it as a revenue-positive program, with revenue dedicated to public transit, active transportation, and/or electric vehicle charging infrastructure
- Implement a carbon emissions tax for large commercial buildings to fund building decarbonization and workforce development investments.

These recommendations reflect the principles, priorities, and strategies identified by a range of experts and stakeholders who will be central to realizing San Francisco's CAP. Together with this report's implementation and equity recommendations, they offer a roadmap for the first iterations of CAP action. Leaders throughout the City will now need to lead long-term engagement processes with communities and stakeholders to convert recommendations into the programs and investments that will achieve San Francisco's climate goals.



### ACKNOWLEDGMENTS (CONTINUED)

#### **INTERVIEWEES**

The authors thank the following expert and stakeholder interviewees whose thoughts informed this report:

Dan Adler, California Infrastructure and Economic Development Bank • Dalila Adofo, Bayview Hunters Point Advocates • Michelle Allersma, San Francisco Controller's Office • Hillary Angelo, UC Santa Cruz • Navjeet Bal, Social Finance • Arthur Bart-Williams, GRID Alternatives • Neha Bazaj, Emerald Cities Collaborative • Christina Borsum, New Energy Nexus • Mike Brown, San Francisco Public Utilities Commission • Amanda Brown-Stevens, Greenbelt Alliance • Jeff Buckley, San Francisco Department of Building Inspection • Dan Carol, Milken Institute • Derek Chernow, California Alternative Energy and Advanced Transportation Finance Authority • Chris Chou, San Francisco City Attorney's Office • Keane Chukwuneta, San Francisco Building Decarbonization Coalition • Drew Cooper, San Francisco County Transportation Authority • Justin Cooper, Orrick • Raynell Cooper, San Francisco Municipal Transportation Agency • Anna Van Degna, San Francisco Controller's Office of Public Finance • Antonio Díaz, PODER • Timothy Doherty, San Francisco Municipal Transportation Agency • Michael Eckhart, Columbia University • Ted Egan, San Francisco Controller's Office • Elena Engel, San Francisco Building Decarbonization Coalition • Dan Feitelberg, KPMG • Rebecca Foster, San Francisco Housing Accelerator Fund • Zach Franklin, GRID Alternatives • Michael Germeraad, Metropolitan Transportation Commission • Gabriel Goffman, San Francisco Building Decarbonization Coalition • Nick Gower, HIP Investor • Nancy Haber, San Francisco Building Decarbonization Coalition • Rachael Hartofelis, Metropolitan Transportation Commission • Paul Herman, HIP Investor • Josh Hesterman, KPMG • Matt Horton, Milken Institute • Rebecca Hutman, San Francisco Housing Accelerator Fund • Kiran Jain, Replica • Avni Jamdar, Emerald Cities Collaborative • Robert Johnson, Hannon Armstrong • Nick Josefowitz, SPUR • Nuin-Tara Key, California Governor's Office of

Planning and Research • Amir Khalegi, HIP Investor • Adam Klaus, San Francisco Building Decarbonization Coalition • Erik de Kok, California Governor's Office of Planning and Research • Lyslynn Lacoste, BMAGIC • Lizzie Lincoln, GRID Alternatives • Audrey Liu, San Francisco Building Decarbonization Coalition • Tom Lockard, Insperex • Monique Lopez, Pueblo Planning • Elizabeth Mattiuzzi, Federal Reserve Bank of San Francisco • Dan McDonald, Community Vision • James McIntyre, Inclusive Prosperity Capital • Maura McKnight, Business Council on Climate Change • Chris Naso, San Francisco Building Decarbonization Coalition • Mark Northcross, NHA Advisors • Sarah Owens, Office of Mayor London Breed • Arnab Pal, Office of Senator Edward Markey • Mike Paparian, Climate Bonds Initiative • Srdana Pokrajac, HIP Investor • Jonathan Rewers, San Francisco Municipal Transportation Agency • Ben Rosenfield, San Francisco City Controller • Tim Schaefer, California Treasurer's Office • Christine Selig, Christine Selig Associates and PODER • Travis Sheehan, Shell • Sarah Simms, Federal Reserve Bank of San Francisco • Patti Sinclair, Lincoln Property Company • James Sirigotis, UC Santa Cruz • Maria Stamas, Initiative for Energy Justice • Brian Strong, San Francisco Office of Resilience and Capital Planning • Stacy Swann, WSP/Climate Finance Advisors • Geof Syphers, Sonoma Clean Power • Daniel Tahara, San Francisco Climate Emergency Coalition • David Taussig, DTA • JB Tengco, Blue Green Alliance • Karri Ving, San Francisco Public Utilities Commission • Kuda Wekwete, DTA • Paul Wermer, San Francisco Building Decarbonization Coalition • Hank Willson, San Francisco Municipal Transportation Agency • Sadie Wilson, Greenbelt Alliance • Luke Wojtaszek, GRID Alternatives • Edward Wright, Office of Supervisor Gordon Mar • Tina Yuen, ChangeLab Solutions • Carol Zabin, UC Berkeley Labor Center

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The authors thank the following expert and stakeholder convening participants whose thoughts informed this report:

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#### APPENDIX A: CAP REVENUE STRATEGIES

The following table lists the top strategies for CAP revenue generation identified in CLEE's research and outreach processes, including funding and financing strategies for actions within each CAP sector and across sectors. The list is not comprehensive with respect to the CAP but is intended to highlight a mix of opportunities to initiate equitable CAP investments and engagement. Some of these strategies are included in the Executive Summary.

Certain key accelerating/enabling actions-including a number of actions identified in the CAP itself-will support these strategies and merit near-term prioritization to accelerate early CAP implementation:

- Updating the City Charter and Office of Resilience and Capital Planning's General Obligation Bond Policy to allow increases in outstanding general obligation bond indebtedness and property tax levels for CAP funding purposes
- Establishing a citywide CAP-related governance structure to coordinate CAP-relevant revenue generation and investment decision-making across all relevant City departments and identify multi-benefit priority projects
- Fast-tracking certain low- and no-cost CAP and CAP-derived actions to accelerate more capital-intensive actions, including:
  - Establishing a requirement for full electrification of all residential and commercial buildings a) at point of transfer or substantial renovation and b) no later than 2040 (BO.2-10)
  - Expanding housing capacity, density, height limits, and multifamily zoning (TLU.5-1, TLU.6-2)
  - Streamlining development approval processes in transit-accessible corridors (TLU.5-3)
  - Completing the Downtown Congestion Pricing Study (TLU.3-1)

The revenue strategies are grouped by the CAP sector and individual CAP strategies and actions they could support, beginning with a group of cross-sectoral/general CAP funding options. Within each sector below, revenue strategies are not necessarily presented in order of priority or feasibility, but high-priority strategies included in the Executive Summary are listed first in bold.

| CAP Sector     | CAP<br>Strategies/Actions | Revenue Strategy  | Example/Notes   |
|----------------|---------------------------|---|---|
| Cross-Sectoral |                           | Implement an additional gross receipts tax on the highest-revenue businesses to fund workforce development initiatives, City staff to implement the CAP, and equity oversight bodies.   | Portland Clean Energy Surcharge  1% surcharge on gross receipts of large retailers with exemptions for grocery and medical purchases to fund clean energy projects and associated job training and apprenticeship programs.  San Francisco Proposition F  Proposition F was approved by voters in November 2020, eliminating the City's Payroll Expense Tax and gradually raising the Gross Receipts Tax rates across most industries while temporarily lowering those rates for some small businesses in certain industries.  Denver Initiative 2A  A voter-approved 0.25% increase in the local sales and use tax to create a "Climate Protection Fund" expected to raise \$40 million per year for distributed generation, adaptation and resilience, climate justice, employment, and other related programs. |
|                |                           | Establish a fund, administered by the Mayor's Office and SF Environment, for corporate and philanthropic partners to provide direct funding for community engagement and educational efforts (subject to the limitations on solicitation of behested payments detailed in City Campaign and Governmental Conduct Code § 3.620)            | Kalamazoo Foundation for Excellence A gift of \$400 million to a small Michigan city to fund infrastructure projects, reduce property taxes, and take other leadership initiatives.  Richmond Social Impact Bond A \$3 million bond issued for repair and rehabilitation of abandoned residential properties, followed by sale to first-time home buyers, with a focus on energy efficient construction.  NYC Central Park Conservancy The Conservancy's goal is to preserve the park. Funded primarily by individual donations, the Conservancy invests funds into park protection and improvements. The Conservancy is meant to last in perpetuity, allowing the NYC Department of Parks and Recreation to allocate nearly its entire budget to other parks.  |
|                |                           | Implement a general CAP-oriented GO Bond to fund a combination of infrastructure investments across all six CAP sectors, initiating the first level of investment in each focus area. (Coupled with increases in the City's GO bond-limiting policies to allow property tax increases exclusively to fund new bonds for CAP investments.) | Miami Forever Bond  A \$400 million general obligation bond to fund investments in climate resilience. Not directly related to energy assets, but focused on infrastructure and resilience broadly.   |
|                |                           | Initiate a program to sell credits in the voluntary carbon market backed by verified GHG emissions reductions achieved through CAP implementation, with revenue dedicated to City operations, community outreach and engagement, and other CAP implementation supporting actions.   | Verra Verified Carbon Standard A voluntary carbon market program with sectoral protocols for energy, transport, waste management, and forestry projects.  |

| CAP Sector    | CAP<br>Strategies/Actions | Revenue Strategy   | Example/Notes   |
|---------------|---------------------------|--|---|
|               |                           | Apply for and obtain federal and state grants for a variety of CAP implementation areas, including:  Federal funds available through DOT's Capital Investment Grants program, EPA's Greening America's Communities program, HUD's Community Development Block Grants, and other federally administered programs aimed at climate mitigation activities aligned with the CAP  Federal funds available through new or expanded programs under the 2021 Infrastructure Investment and Jobs Act (IIJA), including \$550 million allocated towards the Energy Efficiency and Conservation Block Grant Program, \$6 billion towards the Safe Streets and Roads for All Program, and various programs directed at active transportation and public transit improvements.  State funding available through the California Climate Investments Program, the State Transportation Investment Program, Housing-Related Parks Program, Clean Transportation Program, and other state programs aimed at reducing emissions.  State funds allocated through the 2022-2023 budget, including \$922 million for equitable building decarbonization, \$500 million for infill parcel housing development in downtown areas, \$100 million for urban greening and community forestry, and \$270 for circular economy efforts, along with other programs. | Infrastructure Investment and Jobs Act (See Table 4) Inflation Reduction Act (See Table 5) California State Budget 2022-2023 (See Table 6)  |
|               |                           | Consider the following approaches (or a combination of multiple approaches, if appropriate) to increase tax revenue relevant to CAP implementation:  • Implement a city carbon tax to fund all CAP strategies as directed by an interagency governing body such as a CAP Joint Powers Authority  • Advocate for state legislative (or constitutional) authorization of local and regional income taxes to fund climate action through a truly progressive revenue source  • Reinstate the City's Payroll Expense Tax for individual compensation (including wages, bonuses, and property/stock) exclusively in high income brackets  | In Michigan, New Jersey, New York, Oregon, and other states, cities and counties administer local income taxes to fund city services.   |
| Energy Supply | ES.2-2<br>ES.3-3          |  | Miami Forever Bond A \$400 million general obligation bond to fund investments in climate resilience. Not directly related to energy assets, but focused on infrastructure and resilience broadly.  |
|               | ES.1-3<br>ES.2-3          |  | \$32 million revenue bond issuance to fund zero-carbon power generation and energy efficiency projects.  California Community Choice Financing Authority Municipal Bond Three California Community Choice Aggregators (East Bay Community Energy, Marin Clean Energy, and Silicon Valley Clean Energy) issued municipal non-recourse Clean Energy Project Revenue Bonds to support 450 megawatts of clean energy resources. |

| CAP Sector                  | CAP<br>Strategies/Actions | Revenue Strategy   | Example/Notes  |
|-----------------------------|---------------------------|--|--|
| Building<br>Operations      | BO.2<br>BO.3              | Implement a general obligation bond to fund a combination of residential building decarbonization initiatives including:  • Direct grants for retrofits for lower-income multifamily and single-family residences managed by one or more nonprofit program administrators, including decarbonization workforce development through CityBuild program  • SF Green Bank to attract private capital for decarbonization investments through credit enhancement and/or revolving loan fund  (Coupled with increase in the City's GO bond limiting policies to allow property tax increases exclusively to fund new bonds for CAP investments.) | CT Smart-E Program The Connecticut Green Bank partners with local lenders and contractors to offer long-term, low-interest financing to help upgrade private home energy performance with no money down, with equity restrictions to keep the program limited to owner-occupied properties.  Ithaca, NY Electrification Ithaca introduced a citywide electrification plan to retrofit 6,000 buildings using \$100 million from private investors, philanthropic funds, and government grants.  Montgomery Co. Green Bank The County's Green Bank is introducing energy efficiency financing measures for |
|                             | BO.2<br>BO.3              | Implement a carbon emissions tax for large commercial buildings to fund building decarbonization and workforce development investments   | residential units. Eligible customers can receive a loan of up to \$35.000 with low  New York Local Law 97  Sets binding emissions limits for large buildings and imposes penalties for failure to achieve reduction targets.  |
|                             | BO.2-7                    | Expand the commercial PACE GreenFinanceSF program to improve access to financing for commercial property owners while allowing a repayment plan via their property tax bill.   | GreenFinanceSF Property owners can secure financing for commercial Property Assessed Clean Energy projects, and repay the cost of the upgrade over time through a special line item on their property tax bill.  |
|                             | BO.2<br>ES.2-2<br>ES.2-3  | Obtain California IBank financing for energy efficiency, electrification, and decarbonization investments at City-owned buildings.   | SWEEP Statewide Energy Efficiency Program through the state Infrastructure Bank (I-Bank) that funds local government and nonprofits to undertake energy efficiency upgrades Eligible projects include demand response, energy storage, and HVAC upgrades.  ISRF The Infrastructure State Revolving Fund Program provides low-cost public financing to local government entities.   |
|                             | BO.2<br>ES.2-2<br>ES.2-3  | Enact a property tax abatement for investments in carbon capture at buildings and facilities located in the city, incentivizing installation of carbon capture technologies and reducing emissions within San Francisco.   | New York Carbon City Property Tax Abatement Act  Early-stage proposed legislation to amend real property tax law to provide a tax abatement for facility-integrated carbon-to-value equipment.   |
| Transportation and Land Use | TLU.1<br>TLU.2            | Implement a transportation general obligation bond to fund public transit, active transportation, and electric vehicle charging infrastructure, as well as safe pedestrian, bicycle, wheelchair, and micromobility routes that encourage active transportation options.  (Coupled with increase in the City's GO bond limiting policies to allow property tax increases exclusively to fund new bonds for CAP investments.)  | Miami Forever Bond  A \$400 million general obligation bond to fund investments in climate resilience. Not directly related to energy assets, but focused on infrastructure and resilience broadly.  |

| CAP Sector | CAP<br>Strategies/Actions                         | Revenue Strategy   | Example/Notes   |
|------------|---|--|---|
|            | TLU.1 TLU.2 TLU.3-1 TLU.3-6 TLU.4 TLU.7-1 TLU.7-2 |  | emission zones) during peak hours, with discounts for zone residents (90%), 9+  |
|            | TLU.3-1<br>TLU.7-1<br>TLU.7-2                     | Introduce a rideshare tax and use revenue to support EV charging infrastructure investments, including:  • Expanding publicly available EV charging infrastructure while ensuring accessibility for low-income residents  • Developing and implementing a public awareness campaign designed to improve residents' awareness of and openness to EVs  • Initiate pilot projects for e-bicycles, e-scooters, and other micromobility methods | SF Traffic Congestion Mitigation Tax Ordinance (2019 Proposition D)  The transportation network company (TNC) Tax imposes a surcharge on app-based ride-hailing trips that originate in San Francisco, for the portion of the trip within the city. The tax also applies to private transit companies and rides given by autonomous vehicles commercially. The tax went into effect on January 1, 2020, and sunsets in November 2045. |
|            | TLU.7-1<br>TLU.7-2                                | Introduce feebates on internal combustion engine (ICE) vehicles registered in SF and use revenues to support EV charging infrastructure.   | Singapore Vehicular Emissions Scheme Operated by the Land Transport Authority (LTA) of Singapore, individuals may enjoy a rebate or pay a surcharge depending on the vehicle's emissions. The scheme applies to personal vehicles and taxi cabs. Electric vehicles are rated by applying an emission factor to the electricity energy consumption.  |

| CAP Sector                                   | CAP<br>Strategies/Actions | Revenue Strategy  | Example/Notes  |
|--|---------------------------|---|--|
|  | TLU.1<br>TLU.2            | Implement a VMT mitigation bank or exchange program for land use developments under CEQA, with program investments in transit and active transportation aligned with CAP investments. Eligible mitigation projects could include:  • Expanded active transportation networks  • Improved public transportation reliability  • Expanded public transportation service  • Transit-oriented development that improves housing accessibility near transit, jobs, healthcare, schools, and other services                                  | City program that addresses induced transportation demand by requiring investment in offsetting transit, active transportation and other development project features.  San Diego Mobility Choices program City program that imposes an in-lieu fee on low-density, high-VMT development with funds directed to transit and density investments.  CLEE Implementing SB 743 Report Overview of potential strategies to develop VMT mitigation bank programs, with potential to deliver revenue for transit and density projects.  |
| Housing                                      | H.1<br>H.2<br>H.4         | Increase the amount of the November 2024 affordable housing general obligation bond and direct the additional revenue to the SF Housing Accelerator Fund for CAP-aligned housing investments  | SF Housing Accelerator Fund Public-private partnership working to stabilize existing housing stock, build affordable housing, and utilize financing tools that support SF goals to amplify public funding for housing.   |
|  | H.4                       | Implement vacancy tax to fund rental subsidies for lower-income residents and the acquisition and rehabilitation of deed-restricted affordable housing  | Oakland Vacancy Tax  Annual tax on vacant property, considered "vacant" if it is in use less than 50 days in a calendar year and not subject to any exemption.   |
|  | H.1<br>H.2<br>H.4         | Collaborate with MTC and ABAG on upcoming regional housing bond measures to ensure alignment with CAP housing investments. Potential investments could include:  • Expanding affordable housing production and access, with a focus on housing historically marginalized groups, including by expanding affordable and multi-family housing supply in high-resource areas  • Providing resources for unhoused individuals  • Support workforce development, training, and apprenticeship programs covering green construction methods | Transit-Oriented Affordable Housing Fund MTC revolving loan fund program for production and preservation of housing in transit priority areas, responsible for hundreds of affordable housing units in San Francisco.  Bay Area Preservation Pilot Fund MTC revolving loan fund program for acquisition of unsubsidized multifamily housing near transit service.  City of Los Angeles Transit Oriented Communities Incentive Program The Transit Oriented Communities Incentive Program encourages the construction of affordable housing near bus and train stations. Passed as part of a broader ballot initiative by voters, the measure amended the Los Angeles Municipal Code to create the affordable housing program for developments within a half-mile radius of a major transit stop. |
| Responsible<br>Production and<br>Consumption | RPC.2<br>RPC.3            | Increase waste/recycling program user fees to support waste reduction and recycling pilot programs  | San Francisco Zero Waste Program City's pioneering waste reduction program that has diverted more than 2.5 million tons of organic waste and 3 million tons of recyclables from landfill. SF Environment leads zero waste programs, with approximately half of department funding coming from Recology waste and recycling program ratepayer fees.  San Francisco Checkout Bag Charge Program requiring retail charge of 25 cents per checkout bag (and requiring all bags be compostable or recyclable), generating millions of dollars in annual fees.   |

| CAP Sector            | CAP<br>Strategies/Actions            | Revenue Strategy  | Example/Notes   |
|-----------------------|--------------------------------------|---|---|
|                       | RPC.4-1<br>RPC.4-2                   | Increase SFO landing fees, with exemption or discounts for flights powered by sustainable aviation fuel (SAF), to support investments in SAF fueling infrastructure at the airport. (While the Clean Air Act and Federal Aviation Act broadly preempt state and local regulation of aircraft and aircraft emissions, airports have the authority to—and SFO already does—impose reasonable fees that fund airport infrastructure improvements.) | SFO Landing Fee Fee charged for landing aircraft based on craft weight.  Proposed Hawaii Visitor Green Fee Proposal to tax all non-residents a \$50 per person "green fee" who use state and county beaches, parks and trails to fund programs to protect and restore land, water, wildlife and cultural resources impacted by tourism.   |
| Healthy<br>Ecosystems | HE.1<br>HE.3<br>HE.4<br>HE.5<br>HE.6 |   | Los Angeles County Measure A Parcel tax of 1.5 cents per square foot of improved property with no expiration date (raising approx. \$90 million/year) for a mix of direct investment in green space and parks in disadvantaged areas, and establish a competitive grant program for public agencies and nonprofits to invest in local parks and beaches.  Los Angeles Measure W Parcel tax of 2.5 cents/sq.ft. of impervious surfaces (raising approx. \$300 million per year) with a 30-year time-horizon, for stormwater capture and treatment programs.  East Bay Parks Bond In November 2018, Alameda and Contra Costa counties extended an existing \$12/year (\$1/month) parcel tax to fund regional park services including wildfire prevention, public access, trails, and restoring natural habitat. |
|                       | HE.2<br>HE.5<br>HE.6                 |   | DC Water Environmental Impact Bond \$25 million bond issued to fund green stormwater management infrastructure, with a pay for success component based on "risk share" or "outcome" payments depending on the over- or under-performance of the installation.  Atlanta Environmental Impact Bond \$14 million bond issued to fund stormwater improvements and related green infrastructure in a disproportionately impacted community, with a pay for success component based on total water capture as well as a water equity task force to guide decision-making.   |

### APPENDIX B: SUMMARY OF ALL CAP STRATEGIES & ACTIONS

|        | CAP Strategy/Action   | CAP Estimated Cost and Potential<br>GHG Emissions Impact (strategies<br>only) | Action Type (capital investment,<br>other direct spending, non-city<br>spending, policy/planning,<br>analysis/study,<br>engagement/advocacy) | Matching HCR<br>Action |
|--------|---|---|--|------------------------|
| ES.1   | Supply 100% renewable electricity to residents and businesses   |   |  |                        |
| ES.1-1 | Provide 100% renewable electricity at affordable rates.   |   | Other direct spending  |                        |
| ES.1-2 | Promote early adoption of 100% renewable electricity products to all San Franciscans, with a preference for City programs.  |   | Policy/planning  |                        |
| ES.1-3 | Ensure 100% renewable electricity is the only option for San Francisco residents and businesses by 2025, by supporting state or local regulatory requirements and/or acquiring PG&E's grid assets serving San Francisco.  | Cost: \$500 million+  | Other direct spending  |                        |
| ES.1-4 | Continue to expand programs and rates that provide low-income customers with renewable electricity and ensure community and stakeholder engagement in program development and rate-setting.   | GHG Impact: < 100,000 mtCO2e  | Other direct spending  |                        |
| ES.2   | Invest in local renewable energy and energy resilience projects   |   |  |                        |
| ES.2-1 | Assist affordable housing developments with installing on-site solar and battery storage and meeting City energy efficiency and solar energy requirements.  |   | Other direct spending  |                        |
| ES.2-2 | Continue to develop onsite solar on City-owned buildings and reservoirs based on emerging opportunities and SFPUC feasibility analysis.   |   | Other direct spending  | B-5.02                 |
| ES.2-3 | Explore developing grid-independent solar and storage at critical municipal facilities and other critical or vulnerable community sites.  | Cost: \$10-100 million  | Other direct spending  | B-5.02                 |
| ES.2-4 | Support the development of local renewable electricity production by scaling up programs such as net metering, community solar, feed-in tariffs, and battery storage.   | ,                                       | Policy/planning  |                        |
| ES.2-5 | Ensure SFPUC customer programs center equity in their design and metrics.   | GHG Impact:   | Policy/planning  |                        |
| ES.2-6 | Continue to encourage private sector investment in local renewable energy solutions by engaging in public advocacy, educating consumers about their options (such as financing), and serving as a strategic partner.  | Enabling/Accelerating (no direct reduction)                                   | Engagement/advocacy  |                        |
| ES.3   | Design and develop the reliable and flexible grid of the future   | Cost: \$500 million+  |  |                        |
| ES.3-1 | Plan for the change in electricity demand and usage due to electrification of transportation and buildings through efforts such as the SFPUC's Integrated Resource Plans and ensure community engagement in these efforts.  | aug to the same   | Policy/planning  | IN-5.05                |
| ES.3-2 | By 2023, evaluate the rate and program options to facilitate an affordable transition to all-electric buildings.  | GHG Impact:   | Analysis/study   | IN-5.05                |
| ES.3-3 | Invest in distribution infrastructure (including acquisition of PG&E assets) and smart-grid technologies, such as advanced metering infrastructure, demand response, and distribution automation.   | Enabling/Accelerating (no direct reduction)                                   | Capital investment   | IN-5.05                |
| ES.4   | Develop workforce capacity to deliver clean energy resources  |   |  |                        |
| ES.4-1 | Continue to champion clean energy installers participating in City-funded incentive programs that engage in workforce development.  |   | Engagement/advocacy  |                        |
| ES.4-2 | Utilize workforce development programs, such as Project Pull Internship and CityBuild, and education programs, such as Project Learning Grants and the Teacher Externship Program, to expose youth to clean energy related jobs and careers and diversify the workforce.  | Cost: \$1-10 million  | Policy/planning  |                        |
| ES.4-3 | Include community benefits criteria for renewable energy and other contracts of \$5 million or more, giving preference to contracts that demonstrate a commitment to community benefits and environmental justice.  | GHG Impact:   | Policy/planning  |                        |
| ES.4-4 | Engage in analysis to identify opportunities to meet diversity and workforce goals in the procurement of clean energy resources.  | Enabling/Accelerating (no direct reduction)                                   | Analysis/study   |                        |
| ES.5   | Plan for the equitable decommissioning of the city's natural gas system   |   |  |                        |
| ES.5-1 | By 2023, assemble data to inform strategic and equitable planning for geographically focused electrification and gas decommissioning plans.  Develop metrics to inform prioritization and implementation, including cost, equity, safety, climate and just transition.  |   | Analysis/study   |                        |
| ES.5-2 | By 2025, report annually on the status of gas decommissioning, including reduction of methane leakage in San Francisco attributable to decommissioning or removal of gas distribution, along with cost, equity, safety, and just transition.  |   | Analysis/study   |                        |
| ES.5-3 | By 2025, publish a Decarbonization Masterplan documenting the systematic approach to decommissioning natural gas distribution and transmission in San Francisco. Specify difficult-to-address loads/uses that are likely to remain "residual" in 2040. Provide neighborhood groups and business districts with interactive planning mechanisms to empower coordination of electrification, and to set localized goals and priorities. | Cost: \$1-10 million  | Policy/planning  |                        |
| ES.5-4 | By 2026, establish memorandum of understanding between the City, state regulators, and utilities stating mutual intent to de-commission natural gas transmission and distribution in San Francisco.   | GHG Impact:<br>Enabling/Accelerating (no direct                               | Policy/planning  |                        |
| ES.5-5 | By 2030, transition the district system steam loop serving downtown and Civic Center to renewable energy.   | reduction)  | Other direct spending  |                        |
| BO.1   | Eliminate fossil fuel use in new construction   | Cost: Cost-neutral, potential savings of \$1-10 million                       |  |                        |
| BO.1-1 | By 2021, require newly constructed buildings to be efficient and all-electric with no on-site carbon emissions.   | GHG Impact: < 100,000 mtCO2e  |  |                        |
| BO.2   | Eliminate fossil fuel use in existing buildings by tailoring solutions to different building ownership, systems, and use types  |   |  |                        |

| specific filt of whether found are single-speciments in large and the company of    |         | By 2023, develop a system to monitor the replacement rate of existing private sector natural gas-fueled equipment with all-electric. Annually   |                             |                       |                      |
|--|---------|---|-----------------------------|-----------------------|----------------------|
| ## Page 1997   Pag   | BO.2-1  | report to BOS whether fossil-fuel using equipment is being switched at a rate sufficient to meet climate goals, including access to electrification   |                             | Analysis/study        |                      |
| specimens place, and place of internal gas faultod coulpoint till municipal buildings.  10-24. 9 2025, ensure the Circl's Capital films specimen to present present and construction of the construction of th   | BO.2-2  |   |                             |                       |                      |
| 10.24   10.23 gentlemen is insertion of natural gas finded expansed in management and uniform.   20.24 p. 20.20 in a construction of the process of the pr     | BO.2-3  |   |                             | Policy/planning       | B-3.02/3.03          |
| By 2004, ensure the Cry's Capital Final is updated to reflect the needs to represe gas before organization, and improved with the Cry's 200 mode, and indicated an indicated process of the Cry's Capital Plant in Committee Com     | BO.2-4  |   |                             | Analysis/study        | B-3.02/3.03          |
| Double specimentary Will by 2013, beginned and private in accurate control of the process of a private and private in a private process. Specimens and private in a private in   | BO.2-5  | By 2024, ensure the City's Capital Plan is updated to reflect the need to replace gas-fueled equipment, in alignment with the City's 2040 net-  |                             |                       |                      |
| sportsementary 90 th y 2000, and by printer all electric equipments throughout campus buildings, including terminal and non- terminal paper. Adopt a building participation of programming   |         | v v   |                             |                       |                      |
| 10.2.1 al completely transition to efficient and all electric equipment to later than 2055   1 all 2005, Spen regular decidence of grows as toward grad and continued of the control of th   | BO.2-6  | approximately 80% by 2030, and b) prioritize all-electric equipment replacements throughout campus buildings, including terminal and non-   |                             | Analysis/study        | B-3.02/3.03          |
| species.  80.29 by 2013. Spean offering targeted technical assistance for BPOC and low-income owners and tenants including information about incentives, relatives, and guidle and private financing options.  80.21 by 2014. Spean as resistential time of alse policy that requires an electrification plan, prioritizing water and space healing, indoor air quality, electric safety, how to access emergency response information, and recording of the presence or absence of gas service for each property.  80.21 by 2014. Givening and implement specifyies criteria and permit & inspection processor for residential heat pump water heaters to be installed in the single interpretation of the presence or about the presence or about the property.  80.3 Expond the building decarbonization may be property and present the property of the district scales obtained the building decarbonization workforce, with targeted support for disadvantaged workers.  80.3. Expond the building decarbonization workforce, with targeted support for disadvantaged workers.  80.4. Partner with workforce development entities, labor unions, and apprenticely programs to align with and disseminate regional and statewide building electrification training, funding and present and the property for management workforce, subject matter experts, sulfiles and Clear/bowers/F, (EO's and obtained regional and statewide building decarbonization workforce development with high road properties in invalidation to business operations.  80.4. The properties of the properties of the subject of the development by properties of the subject of the ordinary of refigerants.  80.4. The properti   | BO.2-7  | a) completely transition to efficient and all-electric equipment no later than 2035<br>b) in 2025, begin regular disclosure of progress toward goal   |                             |                       |                      |
| rebates, and public and private financing options.  10.3-10  10.3-10  10.3-10  10.3-10  10.3-10  10.3-11  10.3-11  10.3-12  10.3-12  10.3-13  10.3-   | BO.2-8  |   |                             | Policy/planning       |                      |
| Section   Sect     | BO.2-9  |   |                             | Other direct spending | B-3.02/3.03          |
| with a single integrated permit.  Bo.2.12 Spote the creation of a revolving describonization fund by developing a virtual power plant (VPP) or other district scale solutions that more than the benefits derived from energy efficiency, demand response, and energy storage systems.  Bo.3.1 Partner with workforce development entitles, labor unions, and apprenticeship programs to align with and disseminate regional and statewide building describonization training, funding and project financing, opportunities, prioritizing those transitioning from fossil-fuel dependent trades.  Bo.3.2 Cartner with a fordable housing providers, equipment vendors, subject matter experts, utilities and clear/PowerSP. (ROS) and others to create a financing, and case studies.  Bo.3.3 by 2025, define goals and create policies for professional and workforce development building upon CityBuild Pro to ensure equitable access to building decarbonization jobs for BPPC and labor wincome communities, from design to installation to business operations.  Bo.4.1 Partner with a fordable housing providers, adulting the case of the providers and installers, rebates and financing, and case studies.  Bo.4.2 Sypport the adoption of more stringent state and federal regulations for unions of the communities, from design to installation to business operations.  Bo.4.2 Sypport the adoption of more stringent state and federal regulations to reduce refrigerants from existing equipment, and collection and recovery of refrigerants from existing equipment with state regulations.  Bo.4.2 Sypport the adoption of more stringent state and federal regulations to reduce refrigerant SVP.  Bo.4.3 In union of the communities of the commun   | BO.2-10 | electric safety, how to access emergency response information, and recording of the presence or absence of gas service for each property.   | Cost: \$500 million+        | Policy/planning       | B-3.02/3.03          |
| BO.31 Expand the building decarbonization workforce, with turgeted support for disadvantaged workers  BO.32 Partner with workforce development entities, labor unions, and apprenticeship programs to align with and disseminate regional and statewise building electrification training, funding and project financing opportunities, prioritizing those transitioning from fossil-fuel dependent trades.  BO.33 Pay 2023, define goals and create policies for professional and workforce development building owners and other costomers with high-road service providers and installers, rebates and financing, and case set used.  BO.34 Pay 2023, define goals and create policies for professional and workforce development building owners and other costomers with high-road service providers and installers, rebates and financing, and case set used.  BO.41 Partner with affordable housing providers, equipment vendors, subject matter experts, utilities and GeanPowerSf; CBD's and others to create a flag one.  BO.43 Pay 2023, define goals and create policies for professional and workforce development building upon CityBuild Prot to ensure equitable access to pulliding decarbonization jobs for BPOC and low-income communities, from design to installation to business operators.  BO.41 Partner of the provided for the provided goal building operators of professional and workforce development building upon CityBuild Prot to ensure equitable access to pulliding decarbonization jobs for BPOC and low-income communities, from design to installation to business operators.  BO.42 Support the adoption of more stringent transagement between the provided goal districts and professional and an advantagement to the provided goal districts and professional and professional professional and professional    | BO.2-11 | with a single integrated permit.  | GUG Impacts 100 000 350 000 | Policy/planning       | в-3.02/3.03          |
| B0.31 Partner with workforce development entities, labor unions, and apprenticeship programs to align with and disseminate regional and statewide building electrification training, funding and project financing opportunities, prioritizing those transitioning from fossil-fuel dependent trades.  B0.32 Partner with affordable housing providers, equipment vendors, subject matter experts, utilities and CleanPoweSF, (B0's and others to create a financing, and case studies.  B0.33 Py 2023, define goals and create policies for professional and workforce development building upon CityBuild Prot to ensure equitable access to building decarbonization jobs for BPCC and low-income communities, from design to installation to business operations.  B0.34 Py 2025, create a Public-Private facilities managers and building operators roundtable to support peer-to-peer learning on fuel switching.  B0.4 Transition to low-global warming potential refrigerants  B0.4.1 Support the adoption of more refrigerant management best practices for selection of lowest-GWP refrigerants in new and replacement equipment, and collection and recovery of refrigerants from exhance compliance with state regulations for future purchases of products containing refrigerants.  B0.4.2 Support the adoption of more stringent state and federal regulations to reduce refrigerant GWP.  B0.4.3 Py 2023, support (Ity departments' transition away from high-GWP refrigerants, you have been complianced by the products containing refrigerants.  B0.4.1 Build a fast and reliable transit system that will be everyone's preferred way to get around  Find and milenment the recommendations of the ConnectSF Transit Corridors Study and Muni Forward Plan including taking steps to:  B0.4.2 Build entity and implement extransit crimity treatments.  Capital investment  Capital investment  Capital investment  Capital investment  DNS-09/5.10, 8-5.01, C-5.01  B0.00 pottimes to spoagaging on frequent lines.  Op Optimize stops paging on frequent lines.  Di pottime transit origin frastructure    | BO.2-12 |   |                             | Policy/planning       |                      |
| building electrification training, funding and project financing opportunities, prioritizing those transitioning from fossil-fuel dependent trades.  B0.3-2 Clear Energy Building Public or normalization statistics and Clear Energy Building Public or normalization and Clear Energy Building Beta District building owners and other customers with high-road service providers and installers, rebates and financing, and case studies.  B0.3-3 By 2023, define goals and create policies for professional and workforce development building upon CityBuild Pro to ensure equitable access to building decarbonization jobs for BIPOC and low-income communities, from design to installation to business operations.  B0.3-4 By 2023, reate a Public-Private facilities managers and building operators roundtable to support peer-to-peer learning on fuel switching.  B0.4-1 By 2023, publish guidelines for refrigerant management best practices for selection of lowest-GWP refrigerants in new and replacement equipment, and collection and recovery of refrigerant from existing equipment to enhance compliance with state regulations.  B0.4-2 Support the adoption of more stringent state and federal regulations to reduce refrigerant GWP.  B0.4-3 By 2023, support City departments' transition away from high-GWP refrigerant GWP.  B0.4-3 By 2023, support City departments' transition away from high-GWP refrigerant GWP.  B0.4-3 By 2023, support the adoption of more stringent state and federal regulations to reduce refrigerant GWP.  B0.4-3 By 2023, support City departments' transition away from high-GWP refrigerant GWP.  B0.4-3 By 2023, support City departments' transition away from high-GWP refrigerant GWP.  B0.4-3 By 2023, support City departments' transition away from high-GWP refrigerant GWP.  B0.4-3 By 2023, support City departments' transition away from high-GWP refrigerant GWP.  B0.4-3 By 2023, support City department's transition away from high-GWP refrigerant GWP.  B0.4-3 By 2023, support City department that will be everyone's preferred way to get a   | BO.3    | Expand the building decarbonization workforce, with targeted support for disadvantaged workers  |                             |                       |                      |
| B0.3-2 Clean Energy Buildings Hub to connect building owners and other customers with high-road service providers and installers, rebates and innancing, and case studies.  B0.3-3 building decarbonization jobs for BIPOC and low-income communities, from design to installation to business operations.  B0.3-4 by 2025, create a Public-Private facilities managers and building operators roundtable to support peer-to-peer learning on fuel switching.  B0.4.1 Transition to low-global warming potential refrigerants  B0.4.2 Support the adoption of more stringents state and federal regulations to reduce refrigerants from existing equipment to enhance compliance with state regulations.  B0.4.3 By 2023, support City departments' transition away from high-GWP refrigerants, by providing guidelines and specifications for future purchases of products containing refrigerants.  B0.4.3 By 2023, support City departments' transition away from high-GWP refrigerants, by providing guidelines and specifications for future purchases of products containing refrigerants.  B0.4.3 By 2023, support City departments' transition away from high-GWP refrigerants, by providing guidelines and specifications for future purchases of products containing refrigerants.  B0.4.3 By 2023, support City departments' transition away from high-GWP refrigerants, by providing guidelines and specifications for future purchases of products containing refrigerants.  B0.4.3 By 2023, support City departments' transition away from high-GWP refrigerants, by providing guidelines and specifications for future purchases of products containing refrigerants.  B0.4.3 By 2023, support City department key transit corridors for service every 5 minutes or better all day long.  B0.4.5 By 2024, and a implement key transit corridors for service every 5 minutes or better all day long.  B0.4.5 By 2024, and a implement key transit corridors for service every 5 minutes or better all day long.  B0.4.5 By 2024, and a management, queue-  B0.4.5 By 2024, and a management development to maxin   | BO.3-1  |   |                             | Engagement/advocacy   |                      |
| BO.3-3 building decarbonization jobs for BIPOC and low-income communities, from design to installation to business operations.  BO.3-4 by 2025, create a Public-Private facilities managers and building operators roundtable to support peer-to-peer learning on fuel switching.  BO.4 Transition to low-global warming potential refrigerants  By 2023, publish guidelines for refrigerant management best practices for selection of lowest-GWP refrigerants in new and replacement equipment, and collection and recovery of refrigerants from existing equipment to enhance compliance with state regulations.  BO.4.2 Support the adoption of more stringent state and federal regulations to reduce refrigerants, by providing guidelines and specifications for future purchases of products containing refrigerants.  TLU.1 Build a fast and reliable transit system that will be everyone's preferred way to get around  Fund and implement the recommendations of the ConnectSF Transit Corridors Study and Muni Forward Plan, including taking steps to: a) Identify and implement key transit corridors for service every S minutes or better all day long. b) Ensure transit on frequent corridors is not delayed by recurring congestion by investing in transit-only lanes, signal management, queue-jump lanes and other transit capital projects, including a new Westside Subway along 19th Avenue and Geary, the Caltrain Downtown Extension, central Subway extension, and the link21 new transits or frequent lines to maximize transit ridership. e) Advance major transit capital projects, including a new Westside Subway along 19th Avenue and Geary, the Caltrain Downtown Extension, central Subway extension, and the link21 new transits or good repair. Adequately fund State of Good Repair with at least \$300 million  TILL 12 Improve transit reliability by bringing infrastructure into a state of good repair. Adequately fund State of Good Repair with at least \$300 million  For the fact of the fact of the search of the switch of the land of the substance of the substance of th | BO.3-2  | Clean Energy Buildings Hub to connect building owners and other customers with high-road service providers and installers, rebates and  | Cost: \$1-10 million        | Engagement/advocacy   |                      |
| BO.34 Transition to low-global warming potential refrigerants  BO.41 By 2023, publish guidelines for refrigerant management best practices for selection of lowest-GWP refrigerants in new and replacement equipment, and collection and recovery of refrigerants from existing equipment to enhance compliance with state regulations.  BO.42 Support the adoption of more stringent state and federal regulations to reduce refrigerants by 2023, support City departments' transition away from high-GWP refrigerants, by providing guidelines and specifications for future purchases of products containing refrigerants.  BY 2023, support City departments' transition away from high-GWP refrigerants, by providing guidelines and specifications for future purchases of products containing refrigerants.  BY 2023, support City departments' transition away from high-GWP refrigerants, by providing guidelines and specifications for future purchases of products containing refrigerants.  BY 2023, support City departments' transition away from high-GWP refrigerants, by providing guidelines and specifications for future purchases of products containing refrigerants.  BY 2023, support City departments' transition away from high-GWP refrigerants, by providing guidelines and specifications for future purchases of products containing refrigerants.  BY 2023, support City departments' transition away from high-GWP refrigerants, by providing guidelines and specifications for future purchases of products containing refrigerants.  BY 2023, support City departments' transition away from high-GWP refrigerants, by providing guidelines and specifications for future purchases of products containing refrigerants.  BY 2023, support City departments' transition away from high-GWP refrigerants, by providing guidelines and specifications for future purchases of products containing refrigerants.  BY 2023, support City departments' transit corridors Study and Muni Forward Plan, including steps to:  BY 2023, support City departments' transit corridors Study and Muni    | BO.3-3  |   | · ·                         | Policy/planning       |                      |
| BO.4-1 by 2023, publish guidelines for refrigerant management best practices for selection of lowest-GWP refrigerants in new and replacement equipment, and collection and recovery of refrigerants from existing equipment to enhance compliance with state regulations.  BO.4-2 Support the adoption of more stringent state and federal regulations to reduce refrigerants GWP.  BO.4-3 by 2023, support (it) departments' transition away from high-GWP refrigerants, by providing guidelines and specifications for future purchases of products containing refrigerants.  TIU.1 Build a fast and reliable transit system that will be everyone's preferred way to get around  Fund and implement the recommendations of the ConnectSF Transit Corridors Study and Muni Forward Plan, including taking steps to: a) Identify and implement key transit corridors for service every 5 minutes or better all day long. b) Ensure transit on frequent corridors is not delayed by recurring congestion by investing in transit-only lanes, signal management, queue-lump lanes and other transit priority treatments. c) Retime traffic lights to minimize signal delay for frequent lines. d) Optimize stop spacing on frequent lines to maximize transit ridership. Advance major transit capital projects, including a new Westside Subway along 19th Avenue and Geary, the Caltrain Downtown Extension, Central Subway extension, and the Link21 new transbay tube.  Improve transit reliability by bringing infrastructure into a state of good repair. Adequately fund State of Good Repair with at least \$300 million  Folicy/planning  Engagement/advocacy  Engagement/advocacy  Engagement/advocacy  Engagement/advocacy  Enabling/Accelerating (no direct reduction)  Folicy/planning  Engagement/advocacy  Enabling/Accelerating (no direct reduction)  Engagement/advocacy  Engagement/advocacy  Enabling/Accelerating (no direct reduction)  Engagement/avavacacy  Engagement/avavacacy  Engagement/avavacacy  Enabling/Accelerating (no direct reduction)  Engagement/avavacacy  Enabling/Accelerating (no dir  | BO.3-4  | By 2025, create a Public-Private facilities managers and building operators roundtable to support peer-to-peer learning on fuel switching.  |                             | Engagement/advocacy   |                      |
| BO.4-1 equipment, and collection and recovery of refrigerants from existing equipment to enhance compliance with state regulations.  BO.4-2 Support the adoption of more stringent state and federal regulations to reduce refrigerant GWP.  BO.4-3 By 2023, support City departments' transition away from high-GWP refrigerants, by providing guidelines and specifications for future purchases of products containing refrigerants.  TIU.1 Build a fast and reliable transit system that will be everyone's preferred way to get around  Fund and implement the recommendations of the ConnectSF Transit Corridors Study and Muni Forward Plan, including taking steps to:  a) Identify and implement key transit corridors for service every 5 minutes or better all day long. b) Ensure transit on frequent corridors for service every 5 minutes or better all day long. b) Ensure transit or frequent corridors for service every 5 minutes or better all day long. c) Retime transit for lights to minimize signal delay for frequent lines. d) Optimize stop spacing on frequent lines to maximize transit ridership. e) Advance major transit capital projects, including a new Westside Subway along 19th Avenue and Geary, the Caltrain Downtown Extension, Central Subway extension, and the Link21 new transbay tube.  TIU.1.2 Improve transit reliability by bringing infrastructure into a state of good repair. Adequately fund State of Good Repair with at least \$300 million  TIU.1.3 Improve transit reliability by bringing infrastructure into a state of good repair. Adequately fund State of Good Repair with at least \$300 million   | BO.4    | Transition to low-global warming potential refrigerants   |                             |                       |                      |
| By 2023, support City departments' transition away from high-GWP refrigerants, by providing guidelines and specifications for future purchases of products containing refrigerants.  TLU.1 Build a fast and reliable transit system that will be everyone's preferred way to get around  Fund and implement the recommendations of the ConnectSF Transit Corridors Study and Muni Forward Plan, including taking steps to:  a) Identify and implement key transit corridors for service every 5 minutes or better all day long.  b) Ensure transit on frequent corridors is not delayed by recurring congestion by investing in transit-only lanes, signal management, queue- jump lanes and other transit priority treatments.  c) Retime traffic lights to minimize signal delay for frequent lines.  d) Optimize stop spacing on frequent lines to maximize transit ridership.  e) Advance major transit capital projects, including a new Westside Subway along 19th Avenue and Geary, the Caltrain Downtown  Extension, Central Subway extension, and the Link21 new transbay tube.  Improve transit reliability by bringing infrastructure into a state of good repair. Adequately fund State of Good Repair with at least \$300 million  INS. 09/5.10, C5. 20   | BO.4-1  |   |                             | Policy/planning       |                      |
| BO.4-3 of products containing refrigerants.  TLU.1 Build a fast and reliable transit system that will be everyone's preferred way to get around  Fund and implement the recommendations of the ConnectSF Transit Corridors Study and Muni Forward Plan, including taking steps to: a) Identify and implement key transit corridors for service every 5 minutes or better all day long. b) Ensure transit on frequent corridors is not delayed by recurring congestion by investing in transit-only lanes, signal management, queue-jump lanes and other transit priority treatments. c) Retime traffic lights to minimize signal delay for frequent lines. d) Optimize stop spacing on frequent lines to maximize transit ridership. e) Advance major transit capital projects, including a new Westside Subway along 19th Avenue and Geary, the Caltrain Downtown Extension, Central Subway extension, and the Link21 new transbay tube.  TILL 1.2 Improve transit reliability by bringing infrastructure into a state of good repair. Adequately fund State of Good Repair with at least \$300 million   | BO.4-2  | 11 1  | · ·                         | Engagement/advocacy   |                      |
| Fund and implement the recommendations of the ConnectSF Transit Corridors Study and Muni Forward Plan, including taking steps to: a) Identify and implement key transit corridors for service every 5 minutes or better all day long. b) Ensure transit on frequent corridors is not delayed by recurring congestion by investing in transit-only lanes, signal management, queue-jump lanes and other transit priority treatments. c) Retime traffic lights to minimize signal delay for frequent lines. d) Optimize stop spacing on frequent lines to maximize transit ridership. e) Advance major transit capital projects, including a new Westside Subway along 19th Avenue and Geary, the Caltrain Downtown Extension, Central Subway extension, and the Link21 new transbay tube.  TIL 1.1.2 Improve transit reliability by bringing infrastructure into a state of good repair. Adequately fund State of Good Repair with at least \$300 million   | BO.4-3  |   |                             | Policy/planning       |                      |
| a) Identify and implement key transit corridors for service every 5 minutes or better all day long.  Ensure transit on frequent corridors is not delayed by recurring congestion by investing in transit-only lanes, signal management, queue-jump lanes and other transit priority treatments.  C Retime traffic lights to minimize signal delay for frequent lines.  d) Optimize stop spacing on frequent lines to maximize transit ridership.  e) Advance major transit capital projects, including a new Westside Subway along 19th Avenue and Geary, the Caltrain Downtown  Extension, Central Subway extension, and the Link21 new transbay tube.  Improve transit reliability by bringing infrastructure into a state of good repair. Adequately fund State of Good Repair with at least \$300 million  | TLU.1   | Build a fast and reliable transit system that will be everyone's preferred way to get around  |                             |                       |                      |
|  | TLU.1-1 | <ul> <li>a) Identify and implement key transit corridors for service every 5 minutes or better all day long.</li> <li>b) Ensure transit on frequent corridors is not delayed by recurring congestion by investing in transit-only lanes, signal management, queue-jump lanes and other transit priority treatments.</li> <li>c) Retime traffic lights to minimize signal delay for frequent lines.</li> <li>d) Optimize stop spacing on frequent lines to maximize transit ridership.</li> <li>e) Advance major transit capital projects, including a new Westside Subway along 19th Avenue and Geary, the Caltrain Downtown</li> </ul> |                             | Capital investment    |                      |
|  | TLU.1-2 |   |                             | Capital investment    | IN-5.09/5.10, C-5.20 |

| TLU.1-3 | Greatly improve rider comfort, safety, and experience on transit across age, gender, race, and ability to encourage more people to ride transit. Example activities include data collection, reporting, sensitivity training of fare inspectors, and expanding the Muni Transit Assistance Program.  |   | Other direct spending |        |
|---------|--|---|-----------------------|--------|
| TLU.1-4 | Implement Phase One of SFMTA's Racial Equity Action Plan to improve working conditions and initiate the development of Phase Two in 2021 and then implement Phase Two in 2022 to improve safety, access, and opportunities for the public.   |   | Policy/planning       |        |
| TLU.1-5 | While meeting transit ridership goals, prioritize services and reduce obstacles for more vulnerable populations, neighborhoods with fewest mobility options, and populations that have faced historic disinvestment.   |   | Policy/planning       |        |
| TLU.1-6 | By 2025, implement 50 miles of Muni Forward transit priority improvements, including 30 miles of new transit-only lanes to increase reliability, frequency and safety for riders.  |   | Capital investment    | C-5.20 |
| TLU.1-7 | By 2022, study the role of Muni fare programs on equity, climate, and mobility goals and adopt recommendations.  |   | Analysis/study        |        |
| TLU.1-8 | a) Funding targeted projects that improve physical connections and make transfers seamless between local and regional transit systems b) Collaborating with regional partners to improve coordination between regional operators and secure funding for projects, including Caltrain Downtown Rail Extension, Caltrain Service Vision, Second Transbay Crossing, California's State Rail Plan, and ferry projects. | Cost: \$500 million+  GHG Impact: 100,000 - 250,000  mtCO2e | Capital investment    |        |
| TLU.2   | Create a complete and connected active transportation network that shifts trips from automobiles to walking, biking, and other active transportation modes   |   |                       |        |
| TLU.2-1 | Continue to expand programs that provide corridors that are attractive to all demographics for walking, biking, and using scooters, wheelchairs, and other small mobility devices. Connect the Slow Streets network, car-free roads in parks, and the protected bikeway network to neighborhoods in San Francisco.   |   | Capital investment    |        |
| TLU.2-2 | Expand community programs and partnerships to make biking more accessible, via safety and maintenance classes, community parking, and subsidies for electric bikes for low-income residents.   |   | Other direct spending |        |
| TLU.2-3 | By 2022, establish a modal planning framework, placing transit and active modes at the forefront, that will guide decisions about design and utilization of the City's rights-of-way.  |   | Policy/planning       |        |
| TLU.2-4 | Expand the protected bikeway network by at least 20 miles by 2025.   |   | Capital investment    |        |
| TLU.2-5 | Establish and utilize design guidelines to improve connectivity and access to active transportation options at major transit stops.  |   | Policy/planning       |        |
| TLU.2-6 | Update San Francisco's Bike Plan by 2023 to improve and expand the active transportation network with robust community input.  |   | Policy/planning       |        |
| TLU.2-7 | Encourage employers to further reduce auto commutes through incentives such as transit benefits and universal passes, e-bike incentives, active transportation support, telework policies, and carpool programs.  a) Continue promoting Transit First initiatives and incentives for all City employees  b) Integrate existing SFO Employee and Airline Employee BART Discount Programs                            | Cost: \$10-100 million  GHG Impact: < 100,000 mtCO2e        | Policy/planning       |        |
| TLU.3   | Develop pricing and financing of mobility that reflect the carbon cost and efficiency of different modes and projects and correct for inequities of past investments and priorities  |   |                       |        |
| TLU.3-1 | By 2022, develop recommendations for programs and policies that will advance equity (e.g., provide discounts and exemptions for low-income individuals), reduce vehicle traffic, and increase transit service to downtown. For example, complete the Downtown San Francisco Congestion Pricing Study recommendations, and by 2026, study and implement the appropriate pricing policies.                           |   | Policy/planning       |        |
| TLU.3-2 | Advance local, regional, state, and federal opportunities to transition away from fossil fuels by increasing fees to drive.  a) By 2022, identify and consider pricing mechanisms that can be implemented locally (e.g., vehicle license fee).  b) By 2022, establish priorities to advocate for regional, state and federal legislation (e.g. increase gas tax, application of road user charges).                |   | Engagement/advocacy   |        |
| TLU.3-3 | By 2023, introduce new tools to manage short-term curb uses, such as flexible regulations and pricing.   |   | Policy/planning       |        |
| TLU.3-4 | Develop and take all necessary steps to implement an integrated system of tolling for bridges and freeways and on Treasure Island to prioritize transit and higher occupancy vehicles.   | Cost: \$0-1 million   | Policy/planning       |        |
| TLU.3-5 | Implement the Treasure Island Mobility Management Program including new ferry service, East Bay bus service, and island tolling.   |   | Other direct spending |        |
| TLU.3-6 | Apply policy tools to reduce impacts on low-income and historically marginalized communities and ensure that money generated from pricing programs is invested in transportation improvements, especially for those communities.   | GHG Impact: 250,000 - 400,000<br>mtCO2e                     | Policy/planning       |        |
| TLU.4   | Manage parking resources more efficiently  |   |                       |        |
| TLU.4-1 | Prioritize enforcement of parking and curb regulations that impact street safety and efficiency  |   | Policy/planning       |        |
| TLU.4-2 | Expand paid parking citywide, where appropriate. Set prices at a level that reduces demand for parking so that drivers can always find a parking space near their destination.  a) Reinvent and expand the Residential Parking Permit program. b) Expand paid hourly parking to Sundays and evenings, where appropriate. c) Expand demand-responsive parking meter and garage pricing                              |   | Policy/planning       |        |
|         | c) Expand demand-responsive parking meter and garage pricing.  |   |                       |        |

| TLU.4-3 | Steadily reduce the City's overall parking supply in keeping with traffic reduction and emissions reduction goals, and convert underutilized public and private parking lots, parking spaces, and garages to more productive uses, such as housing and car-free roads in parks.   | Cost: \$0-1 million                             | Policy/planning                          | B-1.08 |
|---------|---|---|--|--------|
| TLU.4-4 | Reinvent and expand the parking tax on private parking to reduce congestion, air pollution and emissions.   |   | Policy/planning                          |        |
| TLU.4-5 | While using pricing to balance parking supply and demand, develop programs to reduce impact on low-income, auto-dependent people and ensure net benefit to low-income individuals.  | GHG Impact:<br>Enabling/Accelerating (no direct | Policy/planning                          |        |
| TLU.4-6 | Implement a program to prioritize access and parking for people-with-disability parking placards.   | reduction)                                      | Policy/planning                          |        |
| TLU.5   | Promote job growth, housing, and other development along transit corridors  | Cost: \$1-10 million                            |  |        |
| TLU.5-1 | Expand housing capacity (for example, by increasing heights and removing restrictions on density) in areas where existing or new high-capacity transit is planned.  | GHG Impact:                                     | Policy/planning                          |        |
| TLU.5-2 | Locate jobs close to existing or new high-capacity transit corridors.   | Enabling/Accelerating (no direct                | Policy/planning                          |        |
| TLU.5-3 | Use streamlined approval processes, such as Housing Sustainability Districts, in the 1/4-mile areas around major transit stations to build housing and mixed-use developments more quickly.   | reduction)                                      | Policy/planning                          |        |
| TLU.6   | Strengthen and reconnect communities by increasing density, diversity of land uses, and location efficiency   |   |  |        |
| TLU.6-1 | Facilitate the development of neighborhoods where people live within an easy walk or roll of their daily needs. Create a working group of City agencies and residents to plan and design for such neighborhoods.  |   | Policy/planning                          |        |
| TLU.6-2 | Examine rezoning to allow for multi-family housing throughout San Francisco.  |   | Policy/planning                          |        |
| TLU.6-3 | By 2023, increase the types of home-based businesses allowed in residential districts.  |   | Policy/planning                          |        |
| TLU.6-4 | Identify and reimagine under-utilized publicly owned land and roadways that could be transformed or repurposed.   |   | Analysis/study                           |        |
| TLU.6-5 | Design public space and the transportation system (including roadways) to advance racial and social equity by co-developing plans and projects with BIPOC community members and understanding their needs before designing the space.   | Cost: \$1-10 million                            | Policy/planning                          |        |
| TLU.6-6 | Update the Transportation Element of the City's General Plan.   | GHG Impact:                                     | Policy/planning                          |        |
| TLU.6-7 | Design public space and the transportation system to advance disability justice by co-developing plans and projects with diverse elements of the disability community and understanding their needs before designs are complete.  | Enabling/Accelerating (no direct reduction)     | Policy/planning                          |        |
| TLU.7   | Where motor vehicle use or travel is necessary, accelerate the adoption of zero-emissions vehicles (ZEVs) and other electric mobility options   |   |  |        |
| TLU.7-1 | By 2023, launch a public awareness campaign, including messaging tailored to specific communities, with the goal of educating residents about the health, economic, and environmental benefits of transit, active transportation, and electric vehicles.  |   | Engagement/advocacy                      |        |
| TLU.7-2 | Expand publicly available EV charging across the city that is financially and geographically accessible to low-income households and renters.  a) By 2022, complete an evaluation framework to develop curbside charging pilots  b) By 2023, expand charging to 10% of spaces in municipally owned parking lots  c) By 2023, expand charging to 10% of spaces within privately owned large commercial garages  d) By 2023, create three "fast-charging hubs" with one serving a disadvantaged community within San Francisco.  e) By 2025, install charging to 10% of SFO-owned parking stalls supported by load management software. |   | Policy/planning<br>Other direct spending |        |
| TLU.7-3 | By 2024, develop a plan to help the City's non-revenue fleet and small and locally owned businesses build infrastructure that allows for zero emission delivery, drayage, and longer haul trucks.   |   | Policy/planning                          |        |
| TLU.7-4 | By 2023, establish a pathway to incentivize Zero Emission Vehicles (ZEVs) for passenger service vehicles operating at the airport.  |   | Policy/planning                          |        |
| TLU.7-5 | By 2024, launch a pilot to advance the use of ZEVs, e-bikes, and other low-carbon modes for door-to-door goods and meal delivery services.  |   | Other direct spending                    |        |
| TLU.7-6 | By 2030, create incentives for the use of renewable diesel and emerging zero-emission technologies to reduce emissions from construction equipment at least 50% from 2020 levels.   | Cost: \$1-10 million                            | Policy/planning                          |        |
| TLU.7-7 | Design by 2023 and launch by 2024 a pilot project to test the use of accessible bicycles, e-bicycles and e-scooters for commuting, as well as recreation.   | GHG Impact: > 400,000 mtCO2e                    | Other direct spending                    |        |
| Н.1     | Anchor BIPOC families and advance their return to San Francisco through robust housing, stabilization, and wealth building programs   |   |  |        |
| H.1-1   | Leverage every housing action and investment to help reverse historic dispossession based on race, ethnicity, disability, or socio-economic status, and enable housing security for affected communities.   |   | Other direct spending                    |        |
| H.1-2   | Prioritize affordable housing in cultural districts and areas with historically marginalized racial or ethnic communities to encourage their stabilization and return.  | Cost: \$10-100 million                          | Other direct spending                    |        |
| H.1-3   | Expand tenant services including education, outreach, counseling, and legal and rent assistance to keep local residents and workers housed in San Francisco.  | GHG Impact:                                     | Other direct spending                    |        |
| H.1-4   | Initiate steps to increase housing production, particularly affordable and accessible housing, in higher opportunity neighborhoods that historically have been racially and economically exclusive.   | Enabling/Accelerating (no direct reduction)     | Non-city spending                        | C-1.05 |
| Н.2     | Support vulnerable populations and communities in cultural districts and priority geographies through both the preservation and rehabilitation of existing housing and new housing development that serves their needs  |   |  |        |

| H.2-1   | Provide funding and resources to help people who are unhoused or without stable housing become and stay safely housed.   |   | Other direct spending                   |        |
|---------|--|---|---|--------|
| H.2-2   | Subsidize and develop incentives for building housing targeted towards vulnerable populations in high resource areas, especially along transit-<br>rich, commercial, and social service corridors.   | Cost: \$100-500 million                     | Other direct spending                   | C-1.05 |
| H.2-3   | Initiate steps to fund the acquisition and preservation of existing, affordable, multi-family housing, with a goal of at least 400 units annually.   | GHG Impact:                                 | Other direct spending                   |        |
| H.2-4   | Secure federal, state, and local resources for accessibility, energy efficiency, decarbonization, and resilience upgrades in existing and new housing.   | Enabling/Accelerating (no direct reduction) | Other direct spending                   |        |
| Н.3     | Advance zoning and implementation changes that encourage sustainable, small and mid-sized, multi-family, and workforce housing, especially in high opportunity neighborhoods   |   |   |        |
| H.3-1   | Study changes to increase multi-family housing in higher-resource neighborhoods and near transit, jobs, services, parks, high quality schools, and other amenities.  |   | Analysis/study                          |        |
| H.3-2   | Develop additional approval and permit streamlining for new housing that exceeds inclusionary and sustainability requirements.   |   | Policy/planning                         |        |
| H.3-3   | Address financial and educational barriers for lower income small property owners to add housing (such as Accessory Dwelling Units) and rehabilitate existing units that are healthy and resource efficient.   | Cost: \$0-1 million                         | Policy/planning                         |        |
| H.3-4   | By 2025 establish codes and regulations that facilitate use of new materials (e.g. cross-laminated-timber) and new technology (e.g. modular housing) to lower costs and increase resource efficiency of construction.  | GHG Impact:                                 | Policy/planning                         |        |
| н.3-5   | Expand green construction training and apprenticeship programs to grow the local pool of skilled labor and reduce construction costs.  | Enabling/Accelerating (no direct reduction) | Policy/planning                         |        |
| H.4     | Expand subsidized housing for low, and moderate-income families  |   |   |        |
| H.4-1   | Meet Regional Housing Needs Allocation (RHNA) targets and requirements to affirmatively further fair housing by increasing production of affordable housing, especially for families with children, in both higher resource neighborhoods and Priority Geographies that have historically been home to lower income communities of color.  |   | Capital investment<br>Non-city spending | C-1.05 |
| H.4-2   | By 2025 renew and increase public and private funding for affordable housing as one-time bond funds and ERAF allocations are depleted.   | Cost: \$100-500 million                     | Other direct spending                   | C-1.05 |
| H.4-3   | Advocate for increased regional, state, and federal funding for affordable and green housing.  | ·   | Advocacy/engagement                     |        |
| H.4-4   | Identify cost cutting measures to make affordable housing developments in San Francisco more competitive for regional, state, and federal funding.   | GHG Impact:                                 | Policy/planning                         |        |
| H.4-5   | Continue to prioritize surplus City, enterprise agency, and other public land for affordable housing based on timing and financial feasibility.  | Enabling/Accelerating (no direct reduction) | Policy/planning                         | C-1.05 |
| RPC.1   | Achieve total carbon balance across the buildings and infrastructure sectors   |   |   |        |
| RPC.1-1 | Between 2024-2026, phase in policies to reduce embodied carbon more than 10% per project by addressing at least three product categories or building assembly types.   |   | Policy/planning                         |        |
| RPC.1-2 | By 2025, develop a suite of incentives, policies, and/or guidelines for adaptive reuse of existing buildings, as well as the design and procurement of low-carbon structural materials for new construction.   |   | Policy/planning                         |        |
| RPC.1-3 | By 2025, establish a maximum allowance for embodied carbon of buildings, to be adjusted at regular intervals.  |   | Policy/planning                         |        |
| RPC.1-4 | By 2025, amend existing policies to require deconstruction of buildings and increase the source separation of specific materials.  |   | Policy/planning                         |        |
| RPC.1-5 | By 2025, engage with designers, landlords, and lessees to develop guidelines for tenant improvement projects that reduce excess material purchases and support reuse distribution channels.  |   | Policy/planning                         |        |
| RPC.1-6 | By 2025, create a policy framework to expand and cultivate regional building material reuse markets that support workforce development, small business enterprises, and entrepreneurial innovation.  | Cost: N/A                                   | Policy/planning                         |        |
| RPC.1-7 | By 2030, advance best practices for "Design for Disassembly" and "Buildings As Material Banks" by creating implementation resources in partnership with global cities, and pilot at least one municipal project to maximize the value of carbon already invested in buildings.   | GHG Impact: N/A                             | Policy/planning                         |        |
| RPC.2   | Reduce the carbon footprint of the food system by reducing waste, promoting climate friendly diets, and getting excess food to communities in need   |   |   |        |
| RPC.2-1 | By 2030, reduce food waste by 50% in alignment with the City's voluntary commitment to the Pacific Coast Collaborative initiative by implementing food waste reduction guidelines and recommendations in partnership with food retail, distributors, and manufacturers.  |   | Policy/planning                         |        |
| RPC.2-2 | By 2022, continue implementing and scale the Kitchen Zero SF pilot program, which reduces food waste by tracking over-purchasing by food generators, and redirects otherwise wasted food to communities in need, including providing recovered fresh produce to communities with limited access.   |   | Policy/planning                         |        |
| RPC.2-3 | By 2024, adopt a Food Waste Prevention and Edible Food Recovery policy and develop a program and incentives structure for compliance and monitoring in alignment with California's State Bill 1383 food recovery regulations.  |   | Policy/planning                         |        |
| RPC.2-4 | By 2023, form strategic partnerships between SF Environment's Green Business Program, City agencies, and hospitality and food industry organizations to reduce over-purchasing of food and encourage lower- carbon intense menu choices.   |   | Policy/planning                         |        |
| RPC.2-5 | By 2024, develop guidance in partnership with other municipal agencies to implement city procurement of food in alignment with the five core values put forth by the Good Food Purchasing Program (GFPP): developing local economies, improving health, valuing the workforce, considering animal welfare, and environmental sustainability, including regenerative agriculture. |   | Policy/planning                         |        |

| By 2025, San Francisco Department of Public Health will ensure the Zuckerberg San Francisco General and Laguna Honda Hospitals meet a 20% reduction in carbon and water footprints by implementing sustainable food purchasing standards that ensure food procurement aligns with the core values of the GFPP.  By 2030, San Francisco Unified School District will continue to build upon its adopted resolution to participate in the GFPP, aiming to procure  |                           |
|--|---------------------------|
| By 2030, San Francisco Unified School District will continue to build upon its adopted resolution to participate in the GFPP, aiming to procure  | Policy/planning           |
| RPC.2-7 food locally and from minority owned businesses and farms, switch entrees to lower-emissions alternatives, reduce over-purchasing of food, and donate meals to communities in need.  GHG Impact: N/A   | Policy/planning           |
| RPC.3 Promote reduction, reuse, repair, and recovery of goods and materials  |                           |
| RPC.3-1  By 2023, reduce use of non-reusable foodware by requiring, incentivizing, supporting and/or promoting reusables for on and off-site dining (togo or delivery).  | Policy/planning           |
| RPC.3-2 By 2023, reduce, reuse, and repair, by requiring take-back and resale of used clothing, and promoting donation and longevity of used apparel and textiles.   | Policy/planning           |
| RPC.3-3  By 2024, encourage or facilitate inclusive and networked neighborhood-scale projects such as lending libraries, repair clinics, and reuse exchanges for tools, equipment, electronics, furniture and other goods that reduce production and consumption of goods.   | Engagement/advocacy       |
| By 2024, expand outreach, education, and incentives for paper and plastic use reduction by supporting businesses and institutions in their transition to more reusable and plastic-free packaging and digital forms of communication; support policies to extend producer responsibility to reduce and recover packaging.  | Engagement/advocacy       |
| Increase compliance with mandatory construction and demolition debris recovery (newly amended Environment Code Chapter 14) and mandatory recycling and composting (Environment Code Chapter 19) to increase recovery and reduce disposal while providing economic and social benefits such as local jobs and reduced illegal dumping.  Cost: \$1-10 million  | Policy/planning           |
| RPC.3-6  By 2025, advance opportunities, programs and policies within the city, neighborhoods, industrial and corporate campuses, and SFO airport to maximize material recovery.  GHG Impact: N/A  | Policy/planning           |
| RPC.4 Lead the aviation sector by reducing emissions across the airline passenger journey  |                           |
| RPC.4-1 SFO will encourage and incentivize, where viable, switching aviation sector fuel to low carbon sources for both air and ground fleets.   | Policy/planning           |
| RPC.4-2 SFO will continue its leadership and partnership with airlines to work to replace up to 50% of its fuel supply with Sustainable Aviation Fuels by 2050.  | Policy/planning           |
| RPC.4-3 SFO will explore how to expand its Scope 1 and 2 carbon mitigation and offset program, to also consider qualified soil carbon sequestration as well as other sequestration projects where viable and as an accepted best practice.  GHG Impact: N/A  | Policy/planning           |
| HE.1 Advance citywide collaboration to continually refine nature-based climate solutions that sequester carbon, restore ecosystems and conserve biodiversity   |                           |
| restore ecosystems and conserve anothersity  |                           |
| HE.1-1 By 2022, complete the Alameda watershed carbon case study and quantify the value of carbon storage provided by protecting this natural area.  | Analysis/study            |
| HE.1-2 By 2022, launch the municipal soil calculator and initiate an assessment of the potential for all City owned lands to sequester carbon while maximizing indigenous biodiversity.  | Analysis/study            |
| By 2023, City departments should develop their own policies and procedures for capital projects to assess carbon sequestration opportunities, prioritize biodiversity and green infrastructure, and maximize local native plants. Departments should work together in the Biodiversity Interagency Working Group to create shared policies and procedures where possible.  Cost: \$0-1 million   | Policy/planning           |
| HE.1-4 By 2025, develop best practice guidelines for improving or maintaining carbon sequestration and retention in soils, plants and natural habitats, while preserving biodiversity and ecosystem services.  GHG Impact:   | Policy/planning           |
| HE.1-5 By 2025, incorporate carbon sequestration and biodiversity conservation findings into a Carbon Sequestration and Ecosystem Restoration Strategy for City land and watershed management, consistent with agencies' existing plans and policies.  | no direct Policy/planning |
| HE.2 Increase equitable community participation and perspectives in nature-based climate solutions, including meaningful efforts to prioritize Indigenous science and Traditional Ecological Knowledge   |                           |
|  | Engagement/advocacy       |
| The City will engage American Indian tribes, cultural bearers, neighborhood organizations, local businesses, the San Francisco Unified School  HE.2-1 District, and non-profit organizations during the planning and implementation of greening projects, including for the purpose of local hiring and workforce development.   |                           |
| HE.2-1 District, and non-profit organizations during the planning and implementation of greening projects, including for the purpose of local hiring and workforce development.  By 2022, establish an inter-jurisdictional working group of American Indian representation, federal and state parks agencies, cultural districts, local non-profits, and educational and research institutions, dedicated to nature-based solutions, focused on resilience and biodiversity consequation.   | Engagement/advocacy       |
| HE.2-1 District, and non-profit organizations during the planning and implementation of greening projects, including for the purpose of local hiring and workforce development.  By 2022, establish an inter-jurisdictional working group of American Indian representation, federal and state parks agencies, cultural districts, local non-profits, and educational and research institutions, dedicated to nature-based solutions, focused on resilience and biodiversity   |                           |
| HE.2-1 District, and non-profit organizations during the planning and implementation of greening projects, including for the purpose of local hiring and workforce development.  By 2022, establish an inter-jurisdictional working group of American Indian representation, federal and state parks agencies, cultural districts, local non-profits, and educational and research institutions, dedicated to nature-based solutions, focused on resilience and biodiversity conservation.  The City will honor Indigenous knowledge from the original stewards of these lands (Yelamu) and create strong partnerships through meaningful engagement with the Ramaytush Ohlone and the American Indian community to participate in stewardship of lands managed by | dinat                     |

| HE.3-2 | By 2030, continue improving management of existing salt marshes and explore expanding restoration acreage of degraded Bayshore properties owned by the Port and Recreation and Parks at India Basin and at Candlestick State Recreation Area.                                |   | Policy/planning       |              |
|--------|--|---|-----------------------|--------------|
| HE.3-3 | By 2025, create a 3-acre horizontal levee at Heron's Head Park.  |   | Capital investment    |              |
| HE.3-4 | By 2030, restore and create 173 acres of natural ecological parkland on Yerba Buena and Treasure Islands, including implementing the Yerba Buena Island Habitat Management Plan.   | Cost: \$10-100 million                      | Capital investment    |              |
| HE.3-5 | By 2030, restore 100+ acres of upland and wetland habitats at the San Bruno Jail and SFO West of Bayshore Properties.  | GHG Impact: < 100,00mtCO2e                  | Capital investment    |              |
| HE.4   | Optimize management of the city's entire urban forest system   |   |                       |              |
| HE.4-1 | By 2023, encourage City agencies to develop guidelines for tree species selection and management procedures that incorporate community resilience, carbon sequestration, and ecosystem services and biodiversity, consistent with City agencies' strategic plans and goals.  | Cost: \$10-100 million                      | Policy/planning       |              |
| HE.4-2 | By 2023, pending availability of resources, standardize urban forestry and greening data collection (including street tree census and canopy coverage), and complete the Urban Forest Master Plan Phases 2 (Parks and Open Space) and Phase 3 (Private Lands and Backyards). | GHG Impact:                                 | Analysis/study        |              |
| HE.4-3 | By 2023, continue and, if applicable, expand urban wood waste diversion to maximize carbon sequestration and conserve landfill space.  | Enabling/Accelerating (no direct reduction) | Other direct spending |              |
| HE.5   | Maximize trees throughout the public realm   |   |                       |              |
| HE.5-1 | By 2040, plant 30,000 street trees in the sidewalk tree wells, approximately a 25% increase, to complete the street tree network.  |   | Other direct spending | IN-2.06/2.10 |
| HE.5-2 | By 2030, maximize, where woody vegetation is appropriate, planting coast live oak and other native trees and arborescent shrubs throughout the entire public realm.  | Ct- (10 100: !!!:                           | Other direct spending |              |
| HE.5-3 | By 2023, create a City-managed and -dedicated street tree nursery.   | Cost: \$10-100 million                      | Other direct spending |              |
| HE.5-4 | By 2023, create a policy to require preservation of mature trees during development or infrastructure modifications and for planting of basal area equivalent of mature trees whose removal is unavoidable.  | GHG Impact: < 100,000mtCO2e                 | Policy/planning       |              |
| HE.6   | Maximize greening and integration of local biodiversity into the built environment   |   |                       |              |
| HE.6-1 | By 2023, establish a measurable and geographically specific target for daylighting San Francisco creeks.   |   | Policy/planning       | IN-2.16      |
| HE.6-2 | By 2023, create permanent code and financial incentives for nurseries to sell local natives and for private property owners to preserve green space, protect existing mature trees and shrubs, plant local natives, and install living roofs and walls.                      |   | Policy/planning       | IN-2.16      |
| HE.6-3 | By 2026, maximize revegetation of degraded City and State major expressway, highway and rail corridors with hardy, low-maintenance trees and shrubs.   |   | Other direct spending | IN-2.16      |
| HE.6-4 | By 2025, create a City-owned and managed local native plant nursery that supplies plants annually to City agencies that do not currently have access to local native plants.   |   | Capital investment    | IN-2.16      |
| HE.6-5 | By 2030, maximize replacing concrete to create more biodiverse green space on public land.   |   | Other direct spending | IN-2.16      |
| HE.6-6 | By 2030, build 10 pollinator habitat landscapes at public housing sites.   | Cost: \$10-100 million                      | Capital investment    | IN-2.16      |
| HE.6-7 | By 2030, fully implement the Sunset Boulevard Biodiversity Master Plan by planting native grasses, trees and shrubs for habitat and climate resilience.  | Cost: \$10-100 million                      | Capital investment    | IN-2.16      |
| HE.6-8 | By 2030, develop and implement science-based recommendations for creating ecological corridors where feasible.   | GHG Impact: < 100,000mtCO2e                 | Policy/planning       | IN-2.16      |
| HE.7   | Conduct carbon sequestration farming pilot projects and research   |   |                       |              |
| HE.7-1 | By 2024, apply approximately 500 wet tons of biosolids per year as a soil amendment and to sequester carbon on newly identified sites such as mine reclamation projects in Northern California.  |   | Other direct spending |              |
| HE.7-2 | Improve compliance with Mandatory Composting (Environment Code Chapter 19 and SB 1383) and optimize organics processing to increase the quantity and quality of compost produced to support soil carbon sequestration activities.  |   | Policy/planning       |              |
| HE.7-3 | By 2030, pilot appropriate carbon sequestration techniques as part of ongoing ecological restoration of degraded habitats within SFPUC lands.  | Cost: \$10-100 million                      | Other direct spending |              |
| HE.7-4 | By 2025, SFO will expand its carbon mitigation and offset program to include soil carbon sequestration projects, where viable.   | GHG Impact: < 100,000mtCO2e                 | Policy/planning       |              |

### APPENDIX C: ANALYSIS OF CAP-RELEVANT LOCAL BALLOT MEASURES

The California Debt and Investment Advisory Commission (CDIAC), a program within the California State Treasurer's office, collects data on all California bond and tax ballot measures at the state and local levels. An analysis of CDIAC data covering 2016 through 2021 local, primary, and general elections identified 89 local ballot measures specifically committed to CAP-relevant categories of public expenditure or based on CAP-relevant revenue strategies out of over 1,700 total local bond or tax measures. These included bond and tax measures funding public transit and active transportation, housing, parks and open space, and climate resilience; and utility taxes or tax increases that included energy and/or gas utilities. All other measures (including school, fire/police, public health and public safety, water and sewer, and road repair and maintenance with no transit component, as well as non-energy utility taxes) were excluded.<sup>229</sup>

The table on the following pages lists measures by jurisdiction, purpose/type, amount, and pass/fail record.

No ballot measures have been introduced to exclusively fund a CAP or a comprehensive decarbonization plan. However, the success of measures related to CAP actions may offer some indication of the likelihood of new CAP-related ballot initiatives. The data revealed an overall success rate of approximately 61 percent across simple and two-thirds majority votes, which is lower than the general success rate for all bond and tax ballot measures, which typically exceeds 70 percent.<sup>230</sup> The success rate by measure type includes:

- Transit and transportation: 65 percent (11/17)
- Housing: 75 percent (9/12)
- Parks and open space: 59 percent (20/34)
- Utility taxes (with energy component) and other: 54 percent (14/26)

By geography, the success rate for CAP-related ballot measures includes:

- San Francisco: 88 percent (7/8) including 2016 Proposition C, 2016 Measure AA, 2016 Measure RR, 2018 Proposition D, 2018 Regional Measure 3, 2018 Proposition A, 2019 Proposition A, 2019 Proposition D.<sup>231</sup> Of these, only 2018 Proposition D, a proposed special commercial rent tax to fund housing and homelessness programs, did not receive the requisite votes.
- Bay Area: 73 percent (32/44)

These results indicate that while climate action-related measures generally see a lower success rate than other measures, San Francisco voters in particular and Bay Area voters in general are highly likely to approve such measures. However, June 2022's Proposition A, which would have authorized a \$400 million general obligation bond to fund transportation investments focused on Muni operations and maintenance, narrowly failed to reach the necessary 2/3 voter approval.

| County   | Agency Name                                   | Type of Tax     | Amount of Tax   | Purpose   | Measure  | % Yes     | % No  | Result | Threshold     | Year |
|--|---|-----------------|---|---|----------|-----------|-------|--------|---------------|------|
|  |   | Total = 61      | % (54/89)   |   | Go       | ld = pass |       |        | White = fail  |      |
|  |   | ransit and trar | nsportation (excluding pure road repair/highway measures): 65                     | % (11/17)   |          |           |       |        |               |      |
|  |   |                 | Sales Tax: Impose an additional sales tax of 1/2% for 30 years                    |   |          |           |       |        |               | T    |
|  |   |                 | for road repair/maintenance, relieve congestion, improve                          |   |          |           |       |        |               |      |
| 6 8 9  |   |                 | traffic flow, bicycle/pedestrian safety, transit for                              |   |          |           |       |        |               |      |
| San Benito                                       | San Benito County                             | Special Tax     | youth/seniors/disabled.   | Transit/transportation  | Р        | 59.8      |       | Fail   | Two-thirds    | _    |
| Alameda  | Alameda County                                | GO Bond         | \$3,500,000   | Public Transit  | RR       | 71.31     | 28.69 | Pass   | Two-thirds    | 2016 |
|  |   |                 | Parcel Tax: Extend the district's parcel tax of \$96 per parcel                   |   |          |           |       |        |               | 4    |
| Alameda/Contra Costa                             | Alameda-Contra Costa Transit District         | Special Tax     | for 20 years.   | Public Transit  | C1       | 82.11     | 17.89 | -      | Two-thirds    | 2016 |
| Alameda/Contra Costa/San Francisco               | San Francisco Bay Area Rapid Transit District | GO Bond         | \$3,500,000,000   | Public Transit  | RR       | 70.53     | 29.47 | Pass   | Two-thirds    | 2016 |
| Courting Court                                   | Control Control Country                       | Consider Tour   | Sales Tax: Increase sales tax by an additional 0.5% for 30 years.                 | Public Transit  |          | 63.45     | 26.55 | E - 11 | Torre Alabada | 2016 |
| Contra Costa                                     | Contra Costa County                           | Special Tax     | Sales Tax: Establish an additional half-cent sales tax for 20                     | Public Transit  | X        | 63.45     | 36.55 | Fall   | Two-thirds    | 2016 |
| Humboldt   | Humboldt County                               | Special Tax     | years for transportation.   | Public Transit  | u        | 48.83     | 51.17 | Eail   | Two-thirds    | 2016 |
| Transorat  | Trumbolat county                              | эресіаі тах     | Sales Tax: Impose an additional 0.5% tax for transportation                       | rubile fransit  | U        | 40.03     | 31.17 | i aii  | TWO-till us   | 2010 |
|  |   |                 | and indefinitely extend an existing 0.5% sales tax for                            |   |          |           |       |        |               |      |
| Los Angeles                                      | Los Angeles County                            | Special Tax     | transportation, originally set to expire in 2039.                                 | Public Transit  | м        | 71.15     | 28.85 | Pass   | Two-thirds    | 2016 |
|  | <u>0</u> ,                                    | .,              | Sales Tax: Adopt 0.5% tax for transportation repairs, public                      |   |          |           |       |        |               |      |
|  |   |                 | transit expansion, and open space preservation, increasing                        |   |          |           |       |        |               |      |
| San Diego  | San Diego County                              | Special Tax     | total tax rate to 8.5%.   | Public Transit/Open Space   | Α        | 58.37     | 41.63 | Fail   | two-thirds    | 2016 |
|  |   |                 | Sales Tax: Impose additional 0.5% tax for 30 years for                            |   |          |           |       |        |               |      |
| Santa Clara                                      | Santa Clara Valley Transportation Authority   | Special Tax     | transportation infrastructure projects.   | Public Transit  | В        | 71.74     | 28.26 | Pass   | Two-thirds    | 2016 |
|  |   |                 | Sales Tax: Impose additional 0.5% tax for 25 years for                            |   |          |           |       |        |               |      |
| Stanislaus                                       | Stanislaus County                             | Special Tax     | transportation improvements.  | Public Transit  | L        | 71.95     | 28.05 | Pass   | Two-thirds    | 2016 |
| Alameda/Contra Costa/Marin/Napa/San              |   |                 | Bridge Toll: Raise bridge tolls in the Bay Area (excluding the                    |   |          |           |       |        |               |      |
| Francisco/San Mateo/Santa<br>Clara/Solano/Sonoma | Metropolitan Transportation Commission        | Bridge Toll     | Golden Gate Bridge) by \$3 over 6 years to fund the Bay Area Traffic Relief Plan. | Traffic Relief/Public Transit                                       | RM 3     | FF 1      | 44.0  | Doce   | Majaritu      | 2018 |
| Clara/30lario/30llollia                          | Wetropontan Transportation Commission         | bridge roll     | Parcel Tax: Levy tax of \$99/residential unit & other rates for                   | Tranic Renery abile Transic   | KIVI 3   | 55.1      | 44.9  | Pass   | Majority      | 2018 |
|  |   |                 | commercial and industrial to fund the maintenance of streets                      |   |          |           |       |        |               |      |
|  |   |                 | and bike paths, with the possibility of an annual 2% increase                     |   |          |           |       |        |               |      |
| Yolo   | Davis   | Special Tax     | for 10 years.   | Maintain Streets and Bike Paths                                     | ı        | 57.1      | 42.9  | Fail   | Two-thirds    | 2018 |
|  |   |                 |   |   |          |           |       |        |               |      |
|  |   |                 |   | Repair Potholes/Maintain Roads/Widen                                |          |           |       |        |               |      |
|  |   |                 |   | Hwy 25 to Relieve Traffic   |          |           |       |        |               |      |
|  |   |                 | Sales Tax: Increase tax by 1% to 8.25% for roads and                              | Congestion/Improve Pedestrian,                                      |          |           |       |        |               |      |
| San Benito                                       | San Benito County                             | Special Tax     | transportation.   | Bicycle, and Transit Options  | G        | 69.77     | 30.23 | Pass   | Two-thirds    | 2018 |
| Can Francisco                                    | Con Francisco City and County                 | CO Devid        | \$435,000,000   | Waterfront/Public   |          | 02.70     | 47.20 | D      | Torre Alabada | 4    |
| San Francisco                                    | San Francisco City and County                 | GO Bond         | \$425,000,000   | Transportation/Buildings/Piers/Roads                                | А        | 82.70     | 17.30 | Pass   | Two-thirds    | 2018 |
|  |   |                 |   | Reduce Traffic Congestion/Repair and<br>Maintain Streets/Pedestrian |          |           |       |        |               | 4    |
|  |   |                 |   | Safety/Affordable Transit Services for                              |          |           |       |        |               |      |
|  |   |                 | Sales Tax: Impose 1/2 cent tax for 30 yrs. effective 7/1/2019                     | Seniors and Disabled/Increase Caltrain                              |          |           |       |        |               | 4    |
| San Mateo  | San Mateo County                              | Special Tax     | through 6/30/2049.  | and SamTrans Capacity   | w        | 66.90     | 33.10 | Pass   | Two-thirds    | 2018 |
|  |   |                 | Transportation Tax: Enact tax on ride-share companies at a                        |   |          |           |       |        |               |      |
|  |   |                 | rate of 1.5% of total fares on shared rides and rides in zero-                    |   |          |           |       |        |               |      |
|  |   |                 | emission vehicles; 3.25% on private rides, to improve and                         |   |          |           |       |        |               |      |
|  |   |                 |   | Public Transportation/Pedestrian and                                |          |           |       |        |               |      |
| San Francisco                                    | City and County of San Francisco              | Special Tax     | infrastructure.   | Bicycle Infrastructure  | D        | 67.65     | 32.35 | Pass   | Two-thirds    | 2019 |
|  |   |                 | Sales Tax: extending the existing 0.25 percent through March                      |   |          |           |       |        |               |      |
| Sanama / Marin                                   | Conomo Marin Area Bail Transit District       | PLF             | 31, 2059, generating approximately \$40,000,000 annually for                      | Dublic Transit Carvines   | l.       | F2 C0     | 46.40 | Fail   | Tura shin-1-  | 2000 |
| Sonoma / Marin                                   | Sonoma-Marin Area Rail Transit District       | PLF             | an additional 30 years  | Public Transit Services   | <u> </u> | 53.60     | 46.40 | rali   | Two-thirds    | 2020 |
|  |   | l               | Housing: 75% (9/12)   |   |          |           |       |        |               |      |
| Alameda  | Alameda County                                | GO Bond         | \$580,000,000   | Affordable Housing  | A1       | 73.30     | 29.61 | Pass   | Two-thirds    | 2016 |

| Alameda       | Oakland  | GO Bond     | \$600,000,000  | Street/Sidewalks Repairs; Affordable Ho  | VV             | 82.11 | 17.89   | Pass  | Two-thirds    | 2016 |
|---------------|--|-------------|--|--|----------------|-------|---|-------|---------------|------|
|               |  | +           | \$1,200,000,000  |  | ННН            | 77.14 | 22.86   | -     | 1             | 2016 |
| Los Angeles   | Los Angeles                                    | GO Bond     | \$260,700,000  | Affordable Housing   |                | 1     | 1   | Pass  | Two-thirds    |      |
| San Francisco | San Francisco                                  | GO Bond     |  | Affordable Housing   | Prop C         | 76.01 | 23.99   | Pass  | Two-thirds    | 2016 |
| Santa Clara   | Santa Clara County                             | GO Bond     | \$950,000,000  | Affordable Housing   | A              | 67.88 | 32.12   | Pass  | Two-thirds    | 2016 |
| Alameda       | Emeryville                                     | GO Bond     | \$50,000,000   | Housing  | С              | 72.1  | 27.9  | Pass  | Two-thirds    | 2018 |
|               |  |             | Commercial Rent Tax: Levy a new tax in the amount of 1.7%  |  |                |       |   |       |               |      |
|               |  |             | of gross receipts for other commercial properties to fund  |  |                |       |   |       |               |      |
| San Francisco | San Francisco                                  | Special Tax | low/medium income housing, homelessness services, and general fund.  | Housing/Homeless Programs  | D D            | 44.0  | FF 4  | E-11  | Tour Aletania | 2010 |
|               |  | <u> </u>    |  |  | Prop D         | 44.9  |   | Fail  | Two-thirds    | 2018 |
| Alameda       | Berkeley                                       | GO Bond     | \$135,000,000  | Housing  | 0              | 77.48 | 22.52   | Pass  | Two-thirds    | 2018 |
| San Francisco | City and County of San Francisco               | GO Bond     | \$600,000,000  | Affordable Housing   | A              | 71.16 | 28.84   | Pass  | Two-thirds    | 2019 |
|               |  |             | Property Transfer Tax: 0.75% for property valued between   |  |                |       |   |       |               |      |
|               |  |             | \$2 million and \$5 million, 1.0% for property valued between  |  |                |       |   |       |               |      |
| Santa Clara   | San Jose                                       | PLF         | \$5,000,000.01 and \$10 million, and 1.5% for property valued over \$10 million  | Housing  | _              | 53.46 | 46.54   | Pass  | Majority      | 2020 |
|               |  |             | The state of the s | =  |                |       |   |       |               | 2020 |
| San Diego     | San Diego                                      | GO Bond     | \$900,000,000  | Housing  | А              | 57.55 | 42.45   | Fail  | Two-thirds    | 2020 |
|               |  |             | Transient Occupancy Tax: increase from 12% to 13% on   |  |                |       |   |       |               |      |
|               |  |             | January 1, 2022 and to 14% on January 1, 2023, generating  |  |                |       |   |       |               |      |
| San Mateo     | East Palo Alto                                 | Special Tax | an estimated \$195,000 the first year and \$390,000 per year thereafter  | Housing  | V              | 64.66 | 35.34   | Eail  | Two-thirds    | 2020 |
| Sall Water    | East Faio Aito                                 | Special Tax |  | nousing  | I <sup>v</sup> | 04.00 | 33.34   | ган   | i wo-tilli us | 2020 |
|               |  | 1           | Parks and open space: 59% (20/34)  |  | 1              |       |   | ı     |               |      |
| Alameda       | Hayward Area Recreation & Park District        | GO Bond     | \$250,000,000  | Park Maintenance   | F1             | 78.88 | <del>                                      </del> | Pass  | Two-thirds    | 2016 |
| Fresno        | Coalinga-Huron Recreation and Park District    | GO Bond     | \$14,900,000   | Repair/Construct Park Facilities   | N              | 69.82 | 30.18   | Pass  | Two-thirds    | 2016 |
|               |  |             | Parcel Tax: Levy parcel tax at an annual rate of 1.5 cents/sq.   |  |                |       |   |       |               |      |
|               |  |             | ft. of improved property. This is a safe, clean neighborhood   |  |                |       |   |       |               |      |
|               |  |             | parks, open space, beaches, rivers protection, and water   |  |                |       |   |       |               |      |
| Los Angeles   | Los Angeles County                             | Special Tax | conservation measure.  | Parks and Open Space   | A              | 74.90 | 25.10   | Pass  | Two-thirds    | 2016 |
|               |  |             | Parcel Tax: Impose annual parcel tax of \$35/parcel primarily  |  |                |       |   |       |               |      |
| Los Angeles   | Mountains Recreation and Conservation Author   | Special Tax | for the maintenance of natural areas.  | Parks and Open Space   | GG             | 83.68 | 16.32   | Pass  | Two-thirds    | 2016 |
|               |  |             | Parcel Tax: Impose annual parcel tax of \$15/parcel primarily for the maintenance of natural areas.  |  |                | 75.00 | 22.04   |       |               | 2046 |
| Los Angeles   | Mountains Recreation and Conservation Author   | Special Tax | for the maintenance of natural areas.  | Parks and Open Space   | FF             | 76.99 | 23.01   | Pass  | Two-thirds    | 2016 |
|               |  |             | Sales Tax: Impose 0.25% tax for watershed and natural area   |  |                |       |   |       |               |      |
| Napa          | Napa County                                    | Special Tax | preservation, wildfire risk reduction, and park maintenance.   | Parks and Open Space   | 7              | 64.70 | 35.30   | Eail  | Two-thirds    | 2016 |
| Тчара         | ivapa county                                   | эресіаі тах | Parcel Tax: Implement tax for 20 years of \$75/single-family   | ranks and Open Space   |                | 04.70 | 33.30   | I all | TWO-tillius   | 2010 |
| Sacramento    | Arden Manor Recreation and Park District       | Special Tax | residential unit and varying rates for other parcel types.   | Parks and Open Space   | Q              | 65.71 | 34.29   | Fail  | Two-thirds    | 2016 |
| Sucramento    | Arden Wanor Red eathor and Tark District       | эрсии тих   | The state of the s | Tarks and Open Space   | ď              | 03.71 | 34.23   | i un  | TWO CHILLAS   | 2010 |
|               |  |             | Parcel Tax: Implement tax of \$48.64/single-family residential   |  |                |       |   |       |               |      |
| Sacramento    | Cordova Recreation and Park CFD No. 2016-1     | Special Tax | unit and other rates varying according to parcel type.   | Parks and Open Space   | J              | 71.23 | 28.77   | Pass  | Two-thirds    | 2016 |
|               |  |             | Parcel Tax: Impose tax of \$30/residential property,   | The state of the s |                |       |   |       |               |      |
|               |  |             | commercial property, or unimproved land for recreation and   |  |                |       |   |       |               |      |
| San Joaquin   | Lockeford Recreation and Park Services Distric | Special Tax | park services.   | Recreation and Park Services   | Т              | 46.35 | 53.65   | Fail  | Two-thirds    | 2016 |
|               |  |             | Sales Tax: Enact additional 0.125% sales tax for 15 years for  |  |                |       |   |       |               |      |
| San Joaquin   | Lodi   | Special Tax | park repairs and updates and riverbank erosion repairs.  | Parks and Open Space   | R              | 62.65 | 37.35   | Fail  | Two-thirds    | 2016 |
|               |  |             | Sales Tax: Establish 1/2 cent sales tax for 10 years for   |  |                |       |   |       |               |      |
| Sonoma        | Sonoma County                                  | Special Tax | Sonoma County parks.   | Parks and Open Space   | J              | 65.12 | 34.88   | Fail  | Two-thirds    | 2016 |
|               | Clayton Community Facility District 2007-1     |             |  |  |                |       |   |       |               |      |
| Contra Costa  | (Trails and Landscape Maintenance District)    | Special Tax | Parcel Tax: \$234.84 per year per parcel for 10 years  | Other Purpose  | Н              | 79.2  | 20.8  | Pass  | two-thirds    | 2016 |
|               |  |             | Parcel Tax: Extend annual parcel tax of \$49/parcel to fund  |  |                |       |   |       |               |      |
|               |  |             | the improvements and operation of Bolinas Community Parks  |  |                |       |   |       |               |      |
| Marin         | Mesa Park Recreation District                  | Special Tax | for 4 years.   | Parks  | F              | 82.61 | 17.39   | Pass  | Two-thirds    | 2017 |
|               | Greater Vallejo Recreation District            | Special Tax | Parcel Tax: Renew tax to \$48/parcel for 15 years.   | Parks and Recreation   |                | 67.9  | 32.1  | Pass  | Two-thirds    | 2017 |

| Septiment Cotta    Part   Cotta   Comment   Service Disorct   Septiment Cotta   Comment   Service Disorct   Septiment Cotta   Comment   Service Disorct   Septiment Cotta   Se   |  |   | I                   | D   | 1                                    |  | ı     |       |       |                |      |
|--|--|---|---------------------|---|--------------------------------------|--|-------|-------|-------|----------------|------|
| Death Community Services District   Special Tax   Company of the Community Services District   Sp   |  |   |                     | Parcel Tax: Impose annual tax of \$662.26/improved parcel,      |                                      |  |       |       |       |                |      |
| Part   Tack part   Pa   |  |   |                     |   | Police Services/Road Bridges Culvert |  |       |       |       |                |      |
| Part   Tax Recover tax of \$13,000,000   Part   Pa  | Contra Costa                           | Diablo Community Services District            | Special Tax         |   |                                      | B  | 67.7  | 32 3  | Pass  | Two-thirds     | 2018 |
| Part  |  | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,       |                     |   |                                      | 5  | 07.7  | JL.J  | 1 033 | TWO CHINGS     | 2010 |
| Provide the Community Services District   Special Tax  |  |   |                     |   |                                      |  |       |       |       |                |      |
| Process   Mediday Lake Community Services District   Special Tax   Special Tax   Controller Condition   Special Tax   Special T   | Kern                                   | Rosamond Community Services District          | Special Tax         | increase, to fund parks and recreation in the district.         | Parks and Recreation                 | Α  | 22.4  | 77.6  | Fail  | Two-thirds     | 2018 |
| Description   Process  |  |   |                     | Parcel Tax: Consolidate Resolution 88-01 and 2004-01 which      |                                      |  |       |       |       |                |      |
| Deciding   Parks   P   |  |   |                     | currently equals \$75/parcel annually into a single \$150 tax,  |                                      |  |       |       |       |                |      |
| Parcel Tax Renove tax of \$48/residential unit and other rates for commercial and industrial to fund park maintenance, programment of commercial and industrial to fund park maintenance, programment of the park policy of the  |  |   |                     | =   |                                      |  |       |       |       |                |      |
| Description  | El Dorado                              | Holiday Lake Community Services District      | Special Tax         | rescinded totalling \$18,600 annually.                          | Parks and Recreation                 | G  | 85.9  | 14.1  | Pass  | Two-thirds     | 2018 |
| Description  |  |   |                     |   |                                      |  |       |       |       |                |      |
|  |  |   |                     |   | David Majortana and /Danasatiana l   |  |       |       |       |                |      |
| Parcel Tax Levy Law of an average rate of \$50 Airgele-family  Alabany  Special Tax   | Volo                                   | Dovis   | Consint Tay         |   |                                      |  | 70.6  | 25.4  |       |                | 2040 |
| Image: A part  | 1010                                   | Davis   | эресіаі тах         |   | raciities/Open space                 | Н  | /3.6  | 26.4  | Pass  | I wo-thirds    | 2018 |
| ## Tehachapt Valley Receation and Park District   Go Bond   \$43,000,000   Park and Recreation Facilities   R   \$2,33   \$0.47   Fall   Two-thrirds   2018   ## Park and Recreation Facilities   R   \$2,33   \$0.47   Fall   Two-thrirds   2018   ## Park and Recreation Facilities   R   \$2,33   \$0.47   Fall   Two-thrirds   2018   ## Park and Recreation Facilities   R   \$2,33   \$0.47   Fall   Two-thrirds   2018   ## Park and Recreation Facilities   R   \$2,33   \$0.47   Fall   Two-thrirds   2018   ## Park and Recreation Facilities   R   \$2,33   \$0.47   Fall   Two-thrirds   2018   ## Park and Recreation Facilities   R   \$2,33   \$0.47   Fall   Two-thrirds   2018   ## Park and Recreation Facilities   R   \$2,33   \$0.47   Fall   Two-thrirds   2018   ## Park and Recreation Facilities   R   \$2,33   \$0.47   Fall   Two-thrirds   2018   ## Park and Recreation Facilities   R   \$2,33   \$0.47   Fall   Two-thrirds   2018   ## Park and Recreation Facilities   R   \$2,33   \$0.47   Fall   Two-thrirds   2018   ## Park and Recreation Facilities   R   \$2,50   \$2, | Alameda                                | Albany  | Special Tay         |   | Park and Recreation Facilities       | M  | 77 82 | 22.18 | Dace  | Two-thirds     | 2010 |
| Park and Recreation Facilities   Fair Oaks Recreation and Park District   Fair Oaks Recreation and Park District   Special Tax   | Alameda                                | Albumy  | Special Tax         | residence.  | Tark and near cation Tachties        | 141  | 77.02 | 22.10 | 1 033 | Two tillius    | 2016 |
| Jackiyou Mount Shaxta Recreation and Parks District Special Tax Sp   | Kern                                   | Tehachapi Valley Recreation and Park District | GO Bond             | \$43,000,000  | Park and Recreation Facilities       | R  | 32.53 | 67.47 | Fail  | Two-thirds     | 2018 |
| undereloped parcels for park upgrades and improvements for park and Recreation Facilities M 2.50 27.0   | Sacramento                             | Fair Oaks Recreation and Park District        | GO Bond             | \$26,900,000  | Park and Recreation Facilities       | J  | 68.94 | 31.06 | Pass  | Two-thirds     | 2018 |
| Mount Shata Recreation and Parks   Special Tax   Special   |  |   |                     | Parcel Tax: Levy tax of \$75 for developed parcels and \$40 for |                                      |  |       |       |       |                |      |
| Special Tax Special Tax Special Tax Sales Tax: Impose tax of 1/8 cent for 10 yrs. Park and Recreation Facilities M 72, 60 27.40 Pass Two-thirds 2018 Parks/Recreation April 1 Parks/Recreation April   |  |   |                     | undeveloped parcels for park upgrades and improvements for      |                                      |  |       |       |       |                |      |
| Parcel Tax Extend parcel tax approved in 2000 that is set to parcel fax approved in 2000 that is set to parcel  | Siskiyou                               | Mount Shasta Recreation and Parks District    | Special Tax         | 25 yrs.   | Park and Recreation Facilities       | P  | 65.03 | 34.97 | Fail  | Two-thirds     | 2018 |
| entra Costa El Cerrito Spedal Tax expre (5/30/2020. Parks/Recreational Facilities #1 78.34 21.66 Pass Two-thirds 2019  Arrect Tax: SSS per parcel, rasising an estimated \$5 million of park and Recreation Facilities A 8.57 \$1.43 Fail Two-thirds 2020  Arresno / Tulare Cutter Coros Joint Unified School District PF PF Presno Presno / Tulare Cutter Coros Joint Unified School District PF PF Presno Presno / Tulare Cutter Coros Joint Unified School District PF PF Presno Presno / Tulare PP PF PF PF PF PRESNO PRES   | Sonoma                                 | Sonoma County                                 | Special Tax         | Sales Tax: Impose tax of 1/8 cent for 10 yrs.                   | Park and Recreation Facilities       | M  | 72.60 | 27.40 | Pass  | Two-thirds     | 2018 |
| Special Tax   Parcel Tax Impose annual tax of 598 per residential unit or per 1,500 s. f. of non-residential unit or 3,500 s. f. of non-residential unit o   |  |   |                     | Parcel Tax: Extend parcel tax approved in 2000 that is set to   |                                      |  |       |       |       |                |      |
| San Anselmo Special Tax PF Parcel Tax S85 per parcel, raising an estimated \$3 million parcel Tax S85 per parcel, raising an estimated \$3 million parcel Tax S85 per parcel, raising an estimated \$3 million parcel Tax S85 per parcel, raising an estimated \$3 million parcel Tax S85 per parcel, raising an estimated \$3 million parcel Tax S85 per parcel, raising an estimated \$3 million parcel Tax S85 per parcel, raising an estimated \$3 million parcel Tax S85 per parcel, raising an estimated \$3 million parcel Tax S85 per parcel, raising an estimated \$3 million parcel Tax S85 per parcel, raising an estimated \$3 million parcel Tax S85 per parcel, raising an estimated \$3 million parcel Tax S85 per parcel, raising an estimated \$3 million parcel Tax S85 per parcel, raising an estimated \$3 million parcel Tax S85 per parcel, raising an estimated \$3 million parcel Tax S85 per parcel, raising an estimated \$3 million parcel Tax S85 per parcel, raising an estimated \$3 million parcel Tax S85 per parcel, raising an estimated \$3 million parcel Tax S85 per parcel, raising an estimated \$4 million parcel Tax S85 per parcel, thereby generating an estimated \$4 million per year.  Parcel Tax S85 per parcel, raising an estimated \$5 million per year.  Parcel Tax S85 per parcel, thereby generating an estimated \$5 million per year.  Parcel Tax S85 per parcel, thereby generating an estimated \$5 million per year.  Parcel Tax S85 per parcel, thereby generating an estimated \$5 million per year.  Parcel Tax S85 per parcel, thereby generating an estimated \$5 million per year.  Parcel Tax S85 per parcel, thereby generating an estimated \$5 million per year.  Parcel Tax S85 per parcel, thereby generating an estimated \$5 million per year.  Parcel Tax S85 per parcel, thereby generating an estimated \$5 million per year.  Parcel Tax S85 per parcel, thereby generating an estimated \$5 million per year.  Parcel Tax S85 per parcel for 20 years.  Other Purpose  C 69,5 30,5 9,5 10 wo-thirds 2020  Other Purpose  C 69,5 30,5 9,5 10 wo-thirds 2020  Other Purpose  C  | Contra Costa                           | El Cerrito                                    | Special Tax         | expire 6/30/2020.   | Parks/Recreational Facilities        | Н  | 78.34 | 21.66 | Pass  | Two-thirds     | 2019 |
| Parcel Tax \$85 per parcel, raising an estimated \$3 million per year Park and Recreation Facilities A 48.57 \$1.43 Fail Two-thirds 2020 Park and Recreation Facilities A 60.25 \$3.75 Fail Two-thirds 2020 Park and Recreation Facilities A 60.25 \$3.75 Fail Two-thirds 2020 Park and Recreation Facilities A 60.25 \$3.75 Fail Two-thirds 2020 Park and Recreation Facilities A 60.25 \$3.75 Fail Two-thirds 2020 Park and Recreation Facilities A 60.25 \$3.75 Fail Two-thirds 2020 Park and Recreation Facilities A 60.25 \$3.75 Fail Two-thirds 2020 Park and Recreation Facilities A 60.25 \$3.75 Fail Two-thirds 2020 Park and Recreation Facilities A 60.25 \$3.75 Fail Two-thirds 2020 Park and Recreation Facilities A 60.25 \$3.75 Fail Two-thirds 2020 Park and Recreation Facilities A 60.25 \$3.75 Fail Two-thirds 2020 Park and Recreation Facilities A 60.25 \$3.75 Fail Two-thirds 2020 Park and Recreation Facilities A 60.25 \$3.75 Fail Two-thirds 2020 Park and Recreation Facilities A 60.25 \$3.75 Fail Two-thirds 2020 Park and Recreation Facilities A 60.25 \$3.75 Fail Two-thirds 2020 Park and Recreation Facilities A 60.25 \$3.75 Fail Two-thirds 2020 Park and Recreation Facilities A 60.25 \$3.75 Fail Two-thirds 2020 Park and Recreation Facilities A 60.25 \$3.75 Fail Two-thirds 2020 Park and Recreation Facilities A 60.25 \$3.75 Fail Two-thirds 2020 Park and Recreation Facilities A 60.25 \$3.75 Fail Two-thirds 2020 Park and Recreation Facilities A 60.25 \$3.75 Fail Two-thirds 2020 Park and Recreation Facilities A 60.25 \$3.75 Fail Two-thirds 2020 Park and Recreation Facilities A 60.25 \$3.75 Fail Two-thirds 2020 Park and Recreation Facilities A 60.25 \$3.75 Fail Two-thirds 2020 Park and Recreation Facilities A 60.25 \$3.75 Fail Two-thirds 2020 Park and Recreation Facilities A 60.25 \$3.75 Fail Two-thirds 2020 Park and Recreation Facilities A 60.25 \$3.75 Fail Two-thirds 2020 Park and Recreation Facilities A 80.66 \$19.34 Pass Two-thirds 2020 Park and Recreation Facilities A 80.66 \$19.34 Pass Two-thirds 2020 Park and Recreation Facilities A 80.66 \$19.34 Pass Two-thirds  |  |   |                     | 1   |                                      |  |       |       |       |                |      |
| Unite Chico Area Recreation and Park District PLF per year Park and Recreation Facilities A 48.57 51.43 Fail Two-thirds 2020 2020 Park and Recreation Facilities A 60.25 39.75 Fail Two-thirds 2020 Park and Recreation Facilities A 60.25 39.75 Fail Two-thirds 2020 Park and Recreation Facilities A 60.25 39.75 Fail Two-thirds 2020 Park and Recreation Facilities A 60.25 39.75 Fail Two-thirds 2020 Park and Recreation Facilities A 60.25 39.75 Fail Two-thirds 2020 Park and Recreation Facilities A 60.25 39.75 Fail Two-thirds 2020 Park and Recreation Facilities PC 71.48 28.52 Pass Two-thirds 2020 Park and Recreation Facilities PC 71.48 28.52 Pass Two-thirds 2020 Park and Recreation Facilities PC 71.48 28.52 Pass Two-thirds 2020 Park and Recreation Facilities PC 71.48 28.52 Pass Two-thirds 2020 Park and Recreation Facilities PC 71.48 28.52 Pass Two-thirds 2020 Park and Recreation Facilities PC 71.48 28.52 Pass Two-thirds 2020 Park and Recreation Facilities PC 71.48 28.52 Pass Two-thirds 2020 Park and Recreation Facilities PC 71.48 28.52 Pass Two-thirds 2020 Park and Recreation Facilities PC 71.48 28.52 Pass Two-thirds 2020 Park and Recreation Facilities PC 71.48 28.52 Pass Two-thirds 2020 Park and Recreation Facilities PC 71.48 28.52 Pass Two-thirds 2020 Park and Recreation Facilities PC 71.48 28.52 Pass Two-thirds 2020 Park and Recreation Facilities PC 71.48 28.52 Pass Two-thirds 2020 Park and Recreation Facilities PC 71.48 28.52 Pass Two-thirds 2020 Park and Recreation Facilities PC 71.48 28.52 Pass Two-thirds 2020 Park and Recreation Facilities PC 71.48 28.52 Pass Two-thirds 2020 Park and Recreation Facilities PC 71.48 28.52 Pass Two-thirds 2020 Park and Recreation Facilities PC 71.48 28.52 Pass Two-thirds 2020 Park and Recreation Facilities PC 71.48 28.52 Pass Two-thirds 2020 Park and Recreation Facilities PC 71.48 28.52 Pass Pass Pass Pass Pass Pass Pass Pas  | Marin                                  | San Anselmo                                   | Special Tax         |   | Restore and Maintain Park            | М  | 39.19 | 60.81 | Fail  | Two-thirds     | 2019 |
| Pleasant Hill Recreation and Park District Outler-Orosi Joint Unified School District PIF Parcel Tax: annual tax of \$38.00 per parcel Park and Recreation Facilities PC 71.48 PARK and Recreation Facilities PR PARK and Recreation Facilities PR PARK and Recreation Facilities PARK and Recreation Facilities PR   |  |   |                     | 1   |                                      |  |       |       |       | L              |      |
| resno / Tulare Cutler-Orosi Joint Unified School District PLF Parcel Tax annual tax of \$38.00 per parcel Park and Recreation Facilities K \$ 54.89 45.11 Fall Two-thirds 2020 annual tax of \$30.00 per parcel Public Safety / Park and Recreation Facilities K \$ 54.89 45.11 Fall Two-thirds 2020 annual tax of \$30.00 per parcel for \$30.0   | Butte                                  |   |                     | ř   |                                      | А  |       |       |       |                | -    |
| Cannabis Tax: 9% for retail sales, 6% for cultivation and manufacture, and 5% for distribution and testing and Mapa County  PLF manufacture, and 5% for distribution and testing and testing and testing and testing and testing and the sales tax from 7.75% park and Recreation Facilities   |  |   |                     | , ,   |                                      | Α  |       |       |       |                |      |
| El Monte PLF manufacture, and 5% for distribution and testing Facilities PC 71.48 28.52 Pass Two-thirds 2020 apa Napa County PLF to 8% Sales Tax 0.25%, thereby increasing the sales tax from 7.75% Park and Recreation Facilities K 63.08 36.92 Fail Two-thirds 2020 everside Jurupa Area Recreation and Park District PF Parcel Tax: \$30 Park and Recreation Facilities H 43.93 56.07 Fail Two-thirds 2020 embodd Arcata Special Tax Special Tax 515,000 per year Parcel Tax: \$37 per parcel, thereby generating an estimated \$40 park and Recreation Facilities A 80.66 19.34 Pass Two-thirds 2020 embodd Arcata Special Tax 515,000 per year Parcel Tax: renewing an existing annual parcel tax of \$24 per parcel, thereby generating an estimated \$50 million per year, until ended by voters Park and Recreation Facilities T 81.35 18.65 Pass Two-thirds 2020 embodd Tax 515,000 per year Parcel Tax: Experiment and estimated \$50 million per year, until ended by voters Park and Recreation Facilities T 81.35 18.65 Pass Two-thirds 2020 embodd Tax 515,000 per year parcel for 20 years.    Comparation Allow Comparation Authority Special Tax 52 per year per parcel for 20 years. Other Purpose AA 70.6 29.4 Pass Two-thirds 2016 embodd Total Parcel Tax: \$12 per year per parcel for 20 years. Other Purpose C 69.5 30.5 Pass Majority 2016 embodd Municipal Power to the city and to update the utility users Tax Continue annual transfer of \$3,700,000 from Alameda Municipal Power to the city and to update the utility users Tax to include modern technologies. Electricity, gas, and cable television to 3% in 2017 and 6% in   | Fresno / Tulare                        | Cutler-Orosi Joint Unified School District    | PLF                 |   |                                      | K  | 54.89 | 45.11 | Fail  | Two-thirds     | 2020 |
| Sales Tax: 0.25%, thereby increasing the sales tax from 7.75% park and Recreation Facilities K 63.08 36.92 Fail Two-thirds 2020 verside Jurupa Area Recreation and Park District PEF Parcel Tax: \$30 Park and Recreation Facilities H 43.93 \$6.07 Fail Two-thirds 2020 parcel Tax: \$37 per parcel Tax: \$37 per parcel, thereby generating an estimated sumboldt Arcata Special Tax 275,000 per year Parcel Tax: \$37 per parcel, thereby generating an estimated parcel tax of \$24 per parcel tax of   |  |   |                     | · ·   |                                      |  |       |       |       |                |      |
| Area and Recreation Facilities   | Los Angeles                            | El Monte                                      | PLF                 | ,   | Facilities                           | PC   | 71.48 | 28.52 | Pass  | Two-thirds     | 2020 |
| verside Jurupa Area Recreation and Park District PLF Parcel Tax: \$30  Parcel Tax: \$37 per parcel, thereby generating an estimated \$175,000 per year Parcel Tax: \$37 per parcel, thereby generating an estimated \$175,000 per year Parcel Tax: renewing an existing annual parcel tax of \$24 per parcel, thereby generating an estimated \$8 million per year, until ended by voters until ended by voters    Parcel Tax: renewing an existing annual parcel tax of \$24 per parcel, thereby generating an estimated \$8 million per year, until ended by voters    Parcel Tax: renewing an existing annual parcel tax of \$24 per parcel, thereby generating an estimated \$8 million per year, until ended by voters    Parcel Tax: renewing an existing annual parcel tax of \$24 per parcel tax so the parcel tax of \$24 per parcel tax of \$24 pe   |  |   |                     |   |                                      | .,   | ca aa | 25.02 |       |                |      |
| Parcel Tax: \$37 per parcel, thereby generating an estimated \$175,000 per year Parcel Tax: \$175,000 per year parcel, thereby generating an estimated \$24 per parcel, thereby generating an estimated \$8 million per year, until ended by voters Park and Recreation Facilities T 81.35 18.65 Pass Two-thirds 2020    Santa Clara Valley Open Space Authority   Special Tax   Sp  |  | <u>'</u>                                      |                     |   |                                      | K  |       |       | _     |                |      |
| umboldt Arcata Special Tax \$175,000 per year Park and Recreation Facilities A 80.66 19.34 Pass Two-thirds 2020  Parcel Tax: renewing an existing annual parcel tax of \$24 per parcel, thereby generating an estimated \$8 million per year, until ended by voters Park and Recreation Facilities T 81.35 18.65 Pass Two-thirds 2020  **Two-thirds 2020**  | Riverside                              | Jurupa Area Recreation and Park District      | PLF                 | -   | Park and Recreation Facilities       | Н  | 43.93 | 56.07 | Fail  | Two-thirds     | 2020 |
| Parcel Tax: renewing an existing annual parcel tax of \$24 per parcel, thereby generating an estimated \$8 million per year, until ended by voters    Park and Recreation Facilities   T   81.35   18.65   Pass   Two-thirds   2020  | House had also                         |   | Consider Tour       |   | Dank and Danastica Facilities        |  | 00.55 | 10.24 | D     | Torre Alexande |      |
| parcel, thereby generating an estimated \$8 million per year, until ended by voters    Park and Recreation Facilities   T   81.35   18.65   Pass   Two-thirds   2020   | numbolat                               | Altata  | Special Tax         |   | Park and Recreation Facilities       | А  | 80.00 | 19.54 | Pass  | i wo-triirus   | 2020 |
| Santa Clara Valley Open Space Authority  Special Tax  until ended by voters  Park and Recreation Facilities  T 81.35 18.65 Pass Two-thirds 2020  General/resilience/utility taxes (excluding pure telecommunications taxes): 54% (14/26)  Iameda, Contra Costa, Marin, Napa, an Francisco, San Mateo, Santa Clara, olano, Sonoma San Francisco Bay Restoration Authority Special Tax  Parcel Tax: \$12 per year per parcel for 20 years. Other Purpose AA 70.6 29.4 Pass Two-thirds 2016  Carson General Tax Utility User Tax: Extend 2% UUT for 7 years. Utility Users Tax: Continue annual transfer of \$3,700,000 from Alameda Municipal Power to the city and to update the utility users tax to include modern technologies.  Utility Users Tax: Increase tax on telecommunications, electricity, gas, and cable television to 3% in 2017 and 6% in   |  |   |                     |   |                                      |  |       |       |       |                |      |
| General/resilience/utility taxes (excluding pure telecommunications taxes): 54% (14/26)  lameda, Contra Costa, Marin, Napa, an Francisco, San Mateo, Santa Clara, olano, Sonoma  San Francisco Bay Restoration Authority  Special Tax  Parcel Tax: \$12 per year per parcel for 20 years.  Other Purpose  AA 70.6 29.4 Pass two-thirds 2016  so Angeles  Carson  General Tax  Utility User Tax: Extend 2% UUT for 7 years.  Other Purpose  C 69.5 30.5 Pass Majority 2016  Utility Users Tax: Continue annual transfer of \$3,700,000 from Alameda Municipal Power to the city and to update the utility users tax to include modern technologies.  General Government  K1 72.92 27.08 Pass Majority 2016  Utility Users Tax: Increase tax on telecommunications, electricity, gas, and cable television to 3% in 2017 and 6% in   | Santa Clara                            | Santa Clara Valley Open Space Authority       | Special Tax         |   | Park and Recreation Facilities       | т  | 81.35 | 18.65 | Pass  | Two-thirds     | 2020 |
| lameda, Contra Costa, Marin, Napa, an Francisco, San Mateo, Santa Clara, olano, Sonoma  San Francisco Bay Restoration Authority  Special Tax  Parcel Tax: \$12 per year per parcel for 20 years.  Other Purpose  AA 70.6 29.4 Pass two-thirds 2016  General Tax  Utility User Tax: Extend 2% UUT for 7 years.  Other Purpose  C 69.5 30.5 Pass Majority 2016  Utility Users Tax: Continue annual transfer of \$3,700,000 from Alameda Municipal Power to the city and to update the utility users tax to include modern technologies.  General Tax  Utility Users Tax: Increase tax on telecommunications, electricity, gas, and cable television to 3% in 2017 and 6% in  |  |   | L .                 | · · · · · · · · · · · · · · · · · · ·                           | l                                    | <u>                                     </u> |       |       |       | 1              | 2020 |
| an Francisco, San Mateo, Santa Clara, plano, Sanoma  San Francisco Bay Restoration Authority  Special Tax  Parcel Tax: \$12 per year per parcel for 20 years.  Other Purpose  AA  70.6  29.4  Pass  two-thirds  2016  San Francisco Bay Restoration Authority  Special Tax  Utility User Tax: Extend 2% UUT for 7 years.  Other Purpose  C  69.5  30.5  Pass  Majority  2016  Utility Users Tax: Continue annual transfer of \$3,700,000  from Alameda Municipal Power to the city and to update the utility users tax to include modern technologies.  General Government  K1  72.92  27.08  Pass  Majority  2016  Utility Users Tax: Increase tax on telecommunications, electricity, gas, and cable television to 3% in 2017 and 6% in  | Alameda, Contra Costa, Marin Nana      |   | actici at/i estilei | because takes (excluding pare telecommunications taxes): 54     | 770 (±1/20)                          |  |       |       |       |                |      |
| San Francisco Bay Restoration Authority Special Tax Parcel Tax: \$12 per year per parcel for 20 years. Other Purpose AA 70.6 29.4 Pass two-thirds 2016 Carson General Tax Utility User Tax: Extend 2% UUT for 7 years. Other Purpose C 69.5 Other  | San Francisco, San Mateo, Santa Clara, |   |                     |   |                                      |  |       |       |       |                |      |
| SAngeles Carson General Tax Utility User Tax: Extend 2% UUT for 7 years. Other Purpose C 69.5 30.5 Pass Majority 2016  Utility Users Tax: Continue annual transfer of \$3,700,000 from Alameda Municipal Power to the city and to update the utility users tax to include modern technologies.  Utility Users Tax: Increase tax on telecommunications, electricity, gas, and cable television to 3% in 2017 and 6% in  | Solano, Sonoma                         | San Francisco Bay Restoration Authority       | Special Tax         | Parcel Tax: \$12 per year per parcel for 20 years.              | Other Purpose                        | AA   | 70.6  | 29.4  | Pass  | two-thirds     | 2016 |
| Utility Users Tax: Continue annual transfer of \$3,700,000 from Alameda Municipal Power to the city and to update the utility users tax to include modern technologies.  General Government  K1 72.92 27.08 Pass Majority 2016  Utility Users Tax: Increase tax on telecommunications, electricity, gas, and cable television to 3% in 2017 and 6% in  | Los Angeles                            |   |                     |   |                                      | С  |       | -     | +     |                | _    |
| from Alameda Municipal Power to the city and to update the utility users tax to include modern technologies.  Utility Users Tax: Increase tax on telecommunications, electricity, gas, and cable television to 3% in 2017 and 6% in  |  |   |                     |   |                                      |  |       |       |       | .,,            |      |
| Utility Users Tax: Increase tax on telecommunications, electricity, gas, and cable television to 3% in 2017 and 6% in  |  |   |                     |   |                                      |  |       |       |       |                |      |
| electricity, gas, and cable television to 3% in 2017 and 6% in   | Alameda                                | Alameda                                       | General Tax         | utility users tax to include modern technologies.               | General Government                   | K1   | 72.92 | 27.08 | Pass  | Majority       | 2016 |
|  |  |   |                     | Utility Users Tax: Increase tax on telecommunications,          |                                      |  |       |       |       |                |      |
| ontra Costa Brentwood General Tax 2018. General Government Z 39.13 60.87 Fail Majority 2016  |  |   |                     |   |                                      |  |       |       |       |                |      |
|  | Contra Costa                           | Brentwood                                     | General Tax         | 2018.   | General Government                   | Z  | 39.13 | 60.87 | Fail  | Majority       | 2016 |

|                                     |   |  | T  | 1  | _       |                                  |                                  |                     |  |                              |
|-------------------------------------|---|--|--|--|---------|----------------------------------|----------------------------------|---------------------|--|------------------------------|
| 1                                   |   |  | Utility Users Tax: Establish a 3.5% tax on electricity, water,   |  |         |                                  |                                  |                     |  |                              |
| la . a .                            |   |  | sewer, gas, and cable-television services for general city   |  | _       | 22.05                            | c= 0=                            |                     |  | 2046                         |
| Contra Costa                        | Oakley                                  | General Tax  | services.  Utility Users Tax: Increase sewer rates for all customer  | General Government   | E       | 32.95                            | 67.05                            | Fail                | Majority                               | 2016                         |
| Del Norte                           | Crescent City                           | General Tax  | classes by 5% per year for the next three fiscal years.  | General Government   | Q       | 42.97                            | 57.03                            | Eail                | Majority                               | 2016                         |
| Del Noite                           | crescent city                           | General rax  | Utility Users Tax: Modify existing tax to add a 5% tax on  | General Government   | ų.      | 42.37                            | 37.03                            | ган                 | iviajority                             | 2010                         |
| 1                                   |   |  | wireless communication devices for general government  |  |         |                                  |                                  |                     |  |                              |
| Fresno                              | Firebaugh                               | General Tax  | purposes.  | General Government   | w       | 18.21                            | 81.79                            | Fail                | Majority                               | 2016                         |
| Imperial                            | Brawley                                 | General Tax  | Utility User Tax: Extend 4% tax for 5 years.   | General Government   | W       | 62.02                            | 37.98                            | Pass                | Majority                               | 2017                         |
| Los Angeles                         | Covina                                  | General Tax  | Utility User Tax: Renew utility user tax of 6% for 10 years.   | General Government   | CC      | 71.39                            | 28.61                            | Pass                | Majority                               | 2017                         |
| Los Angeles                         | Vernon                                  | General Tax  | Utility User Tax: Impose tax of 6%.  | General Government   | 00      |                                  | 1                                |                     |  | -                            |
| LOS Afigeres                        | vernon                                  | General Tax  | Utility User Tax: Extend existing 8% utility user tax with   | General Government   | R       | 66.0                             | 34.0                             | Pass                | Majority                               | 2018                         |
|                                     |   |  | exemptions for low-income households and individuals 65  |  |         |                                  |                                  |                     |  |                              |
| San Bernardino                      | Rialto                                  | General Tax  | years old or older.  | General Government   | М       | 58.2                             | 41.8                             | Pass                | Majority                               | 2018                         |
| Sun Sernarame                       | rudico                                  | General Tax  | Utility User Tax: Impose tax of 8% on gas, water, electricity,   | Seneral Severiment   | IVI     | 36.2                             | 41.0                             | r a 33              | iviajority                             | 2010                         |
| Santa Barbara                       | Isla Vista Community Services District  | General Tax  | sewer, and garbage disposal services.  | General Government   | R-2018  | 84.0                             | 16.0                             | Pass                | Majority                               | 2018                         |
| Sunta Barbara                       | isia vista community services sistince  | General Tax  | Utility User Tax: Enact 4% tax on electric, natural gas, and   | Ceneral Covernment   | 11-2018 | 04.0                             | 10.0                             | r a 33              | iviajority                             | 2010                         |
| Fresno                              | Parlier                                 | General Tax  | telecommunication services with no expiration date.  | General Government   | к       | 48.30                            | 51.70                            | Fail                | Majority                               | 2018                         |
|                                     |   |  | Utility Users Tax: Tax users at rate of 5% for phone, electric,  |  | -       |                                  |                                  |                     | ,,                                     | 2010                         |
| I                                   |   |  | natural gas, water, sewer, cable television, and trash   |  |         |                                  |                                  |                     |  |                              |
| Kern                                | McFarland                               | General Tax  | services for 10 yrs.   | General Government   | P       | 42.32                            | 57.68                            | Fail                | Majority                               | 2018                         |
|                                     |   |  | Utility User Tax: Continue existing tax of 7.5% on water, gas.   |  |         |                                  |                                  |                     |  |                              |
| Los Angeles                         | South Pasadena                          | General Tax  | Electricity, telephone, and cable television services.   | General Government   | N       | 20.18                            | 79.82                            | Fail                | Majority                               | 2018                         |
|                                     |   |  | Utility Users Tax: Continue existing 3.95% tax for general   |  |         |                                  |                                  |                     |  |                              |
| Riverside                           | Canyon Lake                             | General Tax  | government purposes.   | General Government   | S       | 76.86                            | 23.14                            | Pass                | Majority                               | 2018                         |
|                                     |   |  |  |  |         |                                  |                                  |                     |  |                              |
|                                     |   |  | Transportation Sales Tax: Transportation Network Company   |  |         |                                  |                                  |                     |  |                              |
|                                     |   |  | trips of \$0.50 per private trip and \$0.25 per pooled trip for  |  |         |                                  |                                  |                     |  |                              |
| Alameda                             | Berkeley                                | General Tax  | 20 years, generating an estimated \$910,000 per year   | General Government   | GG      | 58.78                            | 41.22                            | Pass                | Majority                               | 2020                         |
| <br>                                |   |  | Utility Tax: increase from 7.5% to 10% on electricity and gas  |  |         |                                  |                                  |                     |  |                              |
| I                                   |   |  | and a 2.5% increase to the gas users tax, generating an  |  |         |                                  |                                  |                     |  |                              |
| Alameda                             | Berkeley                                | General Tax  | estimated \$2.4 million per year   | General Government   | HH      | 47.03                            | 52.97                            | Fail                | Majority                               | 2020                         |
|                                     |   |  | Utility Tax: extension to the 3.25% utility users tax for nine   |  |         |                                  |                                  |                     |  |                              |
| Alameda                             | Newark                                  | General Tax  | years, generating an estimated \$2.75 million per  | General Government   | PP      | 71.77                            | 28.23                            | Pass                | Majority                               | 2020                         |
|                                     |   |  | Utility Tax: 5% utility users tax for eight years on gas,  |  |         |                                  |                                  |                     |  |                              |
| i., ,                               |   |  | electricity, video and telecommunications generating an  |  |         |                                  |                                  |                     |  |                              |
| Alameda                             |   | 0 17   |  |  |         |                                  |                                  |                     | Majority                               |                              |
|                                     | Union City                              | General Tax  | estimated \$6.1 million per year   | General Government   | ww      | 56.87                            | 43.13                            | rass                | majority                               | 2020                         |
|                                     | Union City                              | General Tax  | Utility Tax: 5% utility users tax on phones, electricity, gas,   | General Government   | ww      | 56.87                            | 43.13                            | rass                | majority                               | 2020                         |
| Imperial                            |   |  | Utility Tax: 5% utility users tax on phones, electricity, gas, water, trash, sewer and cable generating an estimated   |  | ww      |                                  |                                  |                     |  |                              |
| Imperial                            | Union City  Calipatria                  | General Tax  General Tax                           | Utility Tax: 5% utility users tax on phones, electricity, gas, water, trash, sewer and cable generating an estimated \$348,078 per year  | General Government  General Government   | T       | 21.97                            | 78.03                            |                     | Majority                               | 2020                         |
| •                                   | Calipatria                              | General Tax  | Utility Tax: 5% utility users tax on phones, electricity, gas, water, trash, sewer and cable generating an estimated \$348,078 per year Utility Tax: 2.5% tax on utility bills generating an estimated   | General Government   | т       | 21.97                            | 78.03                            | Fail                | Majority                               | 2020                         |
| Imperial<br>Los Angeles             |   |  | Utility Tax: 5% utility users tax on phones, electricity, gas, water, trash, sewer and cable generating an estimated \$348,078 per year Utility Tax: 2.5% tax on utility bills generating an estimated \$3.2 million per year  |  | T UU    |                                  |                                  | Fail                |  |                              |
| •                                   | Calipatria                              | General Tax  | Utility Tax: 5% utility users tax on phones, electricity, gas, water, trash, sewer and cable generating an estimated \$348,078 per year Utility Tax: 2.5% tax on utility bills generating an estimated \$3.2 million per year  | General Government   | т       | 21.97                            | 78.03                            | Fail                | Majority                               | 2020                         |
| •                                   | Calipatria                              | General Tax  | Utility Tax: 5% utility users tax on phones, electricity, gas, water, trash, sewer and cable generating an estimated \$348,078 per year Utility Tax: 2.5% tax on utility bills generating an estimated \$3.2 million per year Oil Barrel Production Tax: increase from \$0.15 to up to \$0.30 per barrel generating an estimated \$1.6 million per year in   | General Government   | т       | 21.97                            | 78.03                            | Fail                | Majority                               | 2020                         |
| Los Angeles                         | Calipatria<br>Hawthorne                 | General Tax General Tax                            | Utility Tax: 5% utility users tax on phones, electricity, gas, water, trash, sewer and cable generating an estimated \$348,078 per year Utility Tax: 2.5% tax on utility bills generating an estimated \$3.2 million per year Oil Barrel Production Tax: increase from \$0.15 to up to \$0.30 per barrel generating an estimated \$1.6 million per year in addition to the city's special-purpose oil production tax of  | General Government   | т       | 21.97                            | 78.03<br>51.90                   | Fail<br>Fail        | Majority<br>Majority                   | 2020                         |
| •                                   | Calipatria                              | General Tax  | Utility Tax: 5% utility users tax on phones, electricity, gas, water, trash, sewer and cable generating an estimated \$348,078 per year Utility Tax: 2.5% tax on utility bills generating an estimated \$3.2 million per year Oil Barrel Production Tax: increase from \$0.15 to up to \$0.30 per barrel generating an estimated \$1.6 million per year in addition to the city's special-purpose oil production tax of \$0.33 per barrel  | General Government General Government  | T       | 21.97<br>48.10                   | 78.03<br>51.90                   | Fail                | Majority<br>Majority                   | 2020                         |
| Los Angeles                         | Calipatria<br>Hawthorne                 | General Tax General Tax                            | Utility Tax: 5% utility users tax on phones, electricity, gas, water, trash, sewer and cable generating an estimated \$348,078 per year Utility Tax: 2.5% tax on utility bills generating an estimated \$3.2 million per year Oil Barrel Production Tax: increase from \$0.15 to up to \$0.30 per barrel generating an estimated \$1.6 million per year in addition to the city's special-purpose oil production tax of  | General Government General Government  | T       | 21.97<br>48.10                   | 78.03<br>51.90                   | Fail Fail Pass      | Majority<br>Majority                   | 2020                         |
| Los Angeles                         | Calipatria Hawthorne Long Beach         | General Tax General Tax General Tax                | Utility Tax: 5% utility users tax on phones, electricity, gas, water, trash, sewer and cable generating an estimated \$348,078 per year  Utility Tax: 2.5% tax on utility bills generating an estimated \$3.2 million per year  Oil Barrel Production Tax: increase from \$0.15 to up to \$0.30 per barrel generating an estimated \$1.6 million per year in addition to the city's special-purpose oil production tax of \$0.33 per barrel  Utility Tax: 0.75% increase to the utility users tax for ten  | General Government  General Government  General Government                     | T<br>UU | 21.97<br>48.10<br>57.08          | 78.03<br>51.90<br>42.92          | Fail Fail Pass      | Majority Majority Majority             | 2020                         |
| Los Angeles Los Angeles Los Angeles | Calipatria Hawthorne Long Beach         | General Tax General Tax General Tax                | Utility Tax: 5% utility users tax on phones, electricity, gas, water, trash, sewer and cable generating an estimated \$348,078 per year Utility Tax: 2.5% tax on utility bills generating an estimated \$3.2 million per year Oil Barrel Production Tax: increase from \$0.15 to up to \$0.30 per barrel generating an estimated \$1.6 million per year in addition to the city's special-purpose oil production tax of \$0.33 per barrel Utility Tax: 0.75% increase to the utility users tax for ten years   | General Government  General Government  General Government                     | T<br>UU | 21.97<br>48.10<br>57.08          | 78.03<br>51.90<br>42.92<br>85.35 | Fail Fail Pass      | Majority Majority Majority             | 2020                         |
| Los Angeles                         | Calipatria Hawthorne  Long Beach Pomona | General Tax  General Tax  General Tax  General Tax | Utility Tax: 5% utility users tax on phones, electricity, gas, water, trash, sewer and cable generating an estimated \$348,078 per year Utility Tax: 2.5% tax on utility bills generating an estimated \$3.2 million per year Oil Barrel Production Tax: increase from \$0.15 to up to \$0.30 per barrel generating an estimated \$1.6 million per year in addition to the city's special-purpose oil production tax of \$0.33 per barrel Utility Tax: 0.75% increase to the utility users tax for ten years Utility Tax: extend the Utility User Tax at its current rate of | General Government  General Government  General Government  General Government | T<br>UU | 21.97<br>48.10<br>57.08<br>14.65 | 78.03<br>51.90<br>42.92<br>85.35 | Fail Fail Pass Fail | Majority  Majority  Majority  Majority | 2020<br>2020<br>2020<br>2020 |

# APPENDIX D: OVERVIEW OF HAZARDS AND CLIMATE RESILIENCE PLAN

The <u>Hazards and Climate Resilience Plan (HCR)</u> is a comprehensive document that fulfills San Francisco's federal hazard mitigation planning obligations under the Stafford Act and Disaster Management Act and its state climate adaptation planning obligations under Senate Bill 379.<sup>232</sup> The goal of the HCR is to:

"make San Francisco resilient to immediate and long-term threats of climate change and natural hazards through actions to mitigate risks, adapt built and natural assets, and build a more equitable and sustainable city."<sup>233</sup>

The HCR addresses hazard mitigation, climate adaptation, and resilience planning; it is designed to "coordinate[] with and support[]" the CAP, which addresses greenhouse gas emission reduction.<sup>234</sup> The HCR and the CAP share common goals including promoting equity, health, and livability in San Francisco,<sup>235</sup> and many of their respective strategies, while distinct, include complementary actions and serve complementary goals.

As a result, while the resilience and adaptation actions contemplated in the HCR are separate from those in the CAP and outside the scope of this analysis-and this analysis does not include funding and financing strategies for HCR actions-overlapping and multi-benefit opportunities that achieve both CAP and HCR strategies should be prioritized for both efficiency of investment and coherence across City plans.

#### STRATEGIES AND ACTIONS

The HCR includes over 90 resilience strategies across three domains (infrastructure, buildings, and communities) addressing geological, weather-related, combustion-related, and biological and toxic hazards. While each of these hazard categories bear some relation to climate change, certain hazards-such as flooding, extreme heat, and air quality events-are most central to climate resilience planning. Among these, high-priority and high-profile climate resilience strategies include:

- Diversifying water supply options under SFPUC's Water Supply Improvement Program<sup>236</sup>
- Implementing floodproofing and elevation projects for properties at risk of stormwater flooding citywide<sup>237</sup>
- Adapting Ocean Beach and shoreline parks to address sea level rise and flooding<sup>238</sup>
- Creating public cooling facilities and hubs<sup>239</sup>
- Developing sewage treatment and resilient electricity systems at SFO<sup>240</sup>
- Hardening the municipal fiber optic network<sup>241</sup>
- Reinforcing harbor infrastructure<sup>242</sup>

The following strategies have the potential for significant overlap or synergy with CAP strategies:

- Meeting housing production goals<sup>243</sup>
- Improving power distribution infrastructure to support new development and increase resilience244
- Implementing an SFMTA asset management and repair strategy and fixed guideway (rail and overhead wire) resilience strategy<sup>245</sup>

- Installing solar and storage systems at critical facilities<sup>246</sup>
- Expanding the StreetTreeSF Climate Resilient Tree Planting Initiative and increasing tree canopy and shade structures in parks<sup>247</sup>
- Strengthening citywide efforts to conserve biodiversity including implementation of the San Francisco Biodiversity Policy<sup>248</sup>
- Increasing privately-owned building weatherization rates and supporting building electrification and upgrades<sup>249</sup>
- Amending the capital improvement program for transportation facilities to consider hazard mitigation opportunities<sup>250</sup>
- Implementing SFMTA's traffic signal upgrade and resilience strategy<sup>251</sup>
- Conducting a citywide, multi-hazard vulnerability assessment for Muni<sup>252</sup>
- Implementing SFMTA's parking strategy to ensure parking structures are seismically sound<sup>253</sup>

# APPENDIX E: CAP-RELEVANT CITY POLICIES AND AGENCIES, RESOURCES, AND BIBLIOGRAPHY

#### **OVERVIEW OF CAP-RELEVANT CITY POLICIES**

#### **Climate Action Goals**

City Ordinance formally adopting emission reduction goals of 61% (sector-based) and 40% (consumption-based) below 1990 levels by 2030, net-zero sector-based emissions including 90% emission reduction by 2040, and 80% consumption-based emission reduction by 2050; and directing the Department of the Environment to prepare the CAP to achieve these goals.<sup>254</sup>

#### **All-Electric Construction Policy**

City Ordinance barring issuance of permits for new mixed-fuel buildings after June 2021, with exceptions for infeasibility and commercial food service.<sup>255</sup>

#### **Transportation Demand Management Program**

City Ordinance requiring all large developments to include and enforce a plan for investment in transportation demand and vehicle miles traveled-reducing measures, such as parking modifications, transit passes, and bicycle infrastructure.<sup>256</sup>

#### Healthy Air and Clean Transportation Program

City Ordinance promoting zero-emission transportation through commercial building bicycle access requirements, City department planning for transit-first workplace policies, replacement of City fleet vehicles with zero-emission models, and associated planning measures.<sup>257</sup>

#### Food Service Waste/Plastic Bag Reduction

City Ordinances banning sale of non-compostable or non-recyclable and Styrofoam food service implements and requiring only compostable, recyclable, or paper bags at retail checkout (with bag fee imposed).<sup>258</sup>

#### **Mandatory Composting and Recycling Programs**

City Ordinance requiring all residents and commercial establishments to separate recyclables, compostables, and trash, and requiring waste haulers to provide appropriate bins, with audits of haulers' waste separation practices.<sup>259</sup>

#### **Energy Performance Auditing**

City Ordinance requiring energy audits for all large nonresidential buildings and disclosure of building energy performance for all large residential and nonresidential buildings.  $^{260}$ 

#### Renewable Energy Requirements for Nonresidential Buildings

City Ordinance requiring large nonresidential buildings to obtain 100% of their electricity from on-site or offsite GHG-free sources (phased in from 2022 for 500,000+ sf to2030 for 50,000-250,000 sf). <sup>261</sup>

#### **EV Charging Requirements for Commercial Parking**

City Ordinance requiring Level 2 EV charging at at least 10% of all spaces in commercial parking lots with over 100 spaces (or lower numbers of DC Fast chargers) or equivalent EV charging services.<sup>262</sup>

#### **Transit-First Policy**

City Charter provision requiring the General Plan and all departments to implement principles including establishing public and active transportation as an "attractive alternative" to private automobiles; encouraging use of public right of way for non-automobile purposes; directing public improvements toward public transit; and otherwise promoting public and active transportation through City programs and investments.<sup>263</sup>

#### **Biodiversity Policy**

Commission on the Environment Policy adopting five biodiversity-related goals including ecosystem restoration and maintenance, equitable access, and climate resilience; and Board Resolution adopting same policy and directing relevant City departments to support and implement it.<sup>264</sup>

#### **Zero Waste Policy**

Board Resolution establishing a goal of 75% waste diversion by 2010 and directing the Department of the Environment to set a zero-waste goal after the 50% goal is met; Mayor's Declaration of 2030 goals of 15% municipal solid waste reduction and 50% landfill and incineration disposal reduction.<sup>265</sup>

#### **OVERVIEW OF CAP-RELEVANT CITY AGENCIES**

#### Department of the Environment

- Authority and role: Regularly produce an assessment of the City's environmental condition and manage the environmental programs, duties and functions assigned to it by the Mayor or by ordinance, including climate action planning, zero waste policies, toxic and health policies, and more.266
- Relevant strategies: ES/BO/TLU/H/RPC/HE

#### **Airport Commission**

- Authority and role: Construction, management, supervision, maintenance, extension, operation, use and control of all property of SFO Airport and exclusive authority to plan and issue revenue bonds for airport-related purposes (subject to Board of Supervisors approval).<sup>267</sup> Fix, change and adjust rates and charges for the furnishing of services, including the furnishing of utility services.<sup>268</sup>
- Relevant strategies: BO/TLU/RPC/HE

#### **Board of Supervisors**

- Authority and role: All rights and powers of a City and County which are not vested in another officer or entity by the Charter.<sup>269</sup> Includes core legislative authority.
- Relevant strategies: ES/BO/TLU/H/RPC/HE

#### **Department of Building Inspection**

- Authority and role: Overseeing the effective, efficient, fair and safe enforcement of the City and County's Building, Housing, Plumbing, Electrical, and Mechanical Codes, along with Disability Access Regulations.
- Relevant strategies: BO/H

#### **City Attorney**

- Authority and role: Represent the City and County in legal proceedings with respect to which it has an interest; provide advice or written opinion to any officer, department head or board, commission or other unit of government of the City and County; approve all surety bonds, contracts, and ordinances; and examine and approve title to all real property to be acquired by the City and County.<sup>270</sup>
- Relevant strategies: ES/BO/TLU/H/RPC/HE

#### CleanPowerSF

- Authority and role: Procurement of wholesale electricity for SF retail customers; short- and long-term energy resource planning; development of local distributed generation and demand management programs; rate setting for customers.<sup>271</sup> CleanPowerSF is a program of the San Francisco Public Utilities Commission.
- Relevant strategies: ES/BO

#### Controller

- Authority and role: Timely accounting, disbursement or other disposition of monies of the City and County in accordance with sound financial practices applicable to municipalities and counties. The Controller has the power and duties of a county auditor is responsible for monitoring the level and effectiveness of services rendered by the City to its residents. All disbursements of funds in the custody of the Treasurer must be authorized by the Controller.<sup>272</sup>
- Relevant strategies: ES/BO/TLU/H/RPC/HE

#### **County Transportation Authority**

- Authority and role: Long-range planning for City transportation, funding and implementation for select infrastructure projects; oversight of Measure K transportation investment program; oversight of Treasure Island mobility; and City Congestion Management Agency responsibilities.
- Relevant strategies: TLU

#### Office on Disability

- Authority and role: Assist City departments in making all programs, services, benefits, activities, and facilities owned, operated, or funded by the City accessible to and usable by individuals with disabilities, as may be required by the Americans with Disabilities Act and other disability rights laws and disability access regulations and codes.<sup>273</sup>
- Relevant strategies: BO/TLU/H/RPC/HE

#### Office of Economic and Workforce Development

- Authority and role: Strategic coordination for the City's workforce system, including implementing job
  training programs aimed at providing residents with access to today's jobs; managing major publicprivate development projects to maximize long-term public benefits, including affordable housing, jobs
  and economic development, and open space; facilitating the revitalization of commercial corridors in
  economically disadvantaged neighborhoods.
- Relevant strategies: ES/BO/TLU/H/RPC/HE

#### Mayor's Office

Authority and role: General administration and oversight of all departments and governmental units;
 coordination of all intergovernmental activities; introduction of the annual proposed budget or multi-year budget; veto of ordinances.<sup>274</sup>

• Relevant strategies: ES/BO/TLU/H/RPC/HE

### **Municipal Transportation Agency**

• Authority and role: Acquisition, construction, management, supervision, maintenance, extension, operation, use, and control of all public transit assets; enter into arrangements for use with any other public entity owning or having jurisdiction over rights-of-way, tracks, structures, subways, tunnels, stations; fix the fares charged by the Municipal Railway, rates for off-street and on-street parking, and all other, rates, fees, fines, penalties and charges; adopt regulations that control the flow and direction of motor vehicle, bicycle and pedestrian traffic; apply for, accept, and expend state, federal, or other public or private grant funds; incur debt for Agency purposes and to issue or cause to be issued bonds, notes, certificates of indebtedness, commercial paper, financing leases, certificates of participation or any other debt instruments (with Board concurrence).<sup>275</sup>

· Relevant strategies: TLU

#### Planning Department/Planning Commission

 Authority and role: Development and approval of the City's General Plan; review and approval of City-led development, public housing, and subdivision proposals; issuance of all permits and approvals under the Planning Code; enforcement of the Planning Code; proposal of zoning amendments.<sup>276</sup>

• Relevant strategies: BO/TLU/H

## **Public Utilities Commission**

• Authority and role: Construction, management, supervision, maintenance, extension, expansion, operation, use and control of all water, clean water and clean power supplies and distribution utilities of the City. Operate CleanPowerSF and Hetch Hetchy Power, San Francisco's public power services responsible for procurement of wholesale electricity for SF retail customers; short- and long-term energy resource planning; development of local distributed generation and demand management programs.<sup>277</sup> Issue revenue bonds, including notes, commercial paper, or other forms of indebtedness, when authorized by ordinance approved by a two-thirds vote of the Board of Supervisors, for the purpose of reconstructing, replacing, expanding, repairing, or improving water facilities, clean water facilities, power facilities, or combinations of water, clean water, and power facilities.<sup>278</sup> Establish rates, fees and charges at levels sufficient to improve or maintain financial condition and bond ratings, meet requirements and covenants under all bond resolutions and indentures, and provide sufficient resources for continued financial health.<sup>279</sup>

• Relevant strategies: ES/BO/TLU/H

#### **Department of Public Works**

Authority and role: To design, build, and improve the City's infrastructure and public right of way.<sup>280</sup>
 Administer all capital improvement and construction projects, except projects solely under the Airport,
 Port, Public Utilities, or Recreation and Park Commissions or SFMTA.<sup>281</sup>

Relevant strategies: ES/TLU/HE

### Office of Racial Equity

- Authority and role: Advance Racial Equity and repair harm done by government policy decisions
  that have created, upheld, or exacerbated Racial Disparities in the City through policy analysis and
  development, data collection and analysis, and support and accountability for City departments.<sup>282</sup>
- Relevant strategies: ES/BO/TLU/H/RPC/HE

#### **Department of Recreation and Parks**

- Authority and role: Manage and direct all parks, playgrounds, recreation centers and all other recreation facilities, avenues and grounds under the Commission's control; issue permits for the use of all property under the Commission's control; construct new parks, playgrounds, recreation centers, recreation facilities, squares and grounds, and to erect and maintain buildings and structures on parks, playgrounds, square, avenues and grounds.<sup>283</sup>
- · Relevant strategies: HE

#### Office of Resilience and Capital Planning

- Authority and role: Review and prioritize Capital Plan and Capital Budget requests; project and coordinate funding sources and uses; produce the Capital Plan and the Capital Budget; coordinate interagency capital initiatives; and offer strategic guidance to City executives and elected officials on resilienceand capital-related matters.<sup>284</sup>
- Relevant strategies: ES/BO/TLU/H/RPC/HE

#### CLIMATE ACTION FUNDING/FINANCING PLANS

#### Funding and Financing Climate Action in San Francisco (Arup Consulting, 2021)

Overview of City revenue sources and mechanisms available to fund (utility tax, property tax, sales tax, sales tax, food tax, carbon/CAP tax, development opportunities, community facilities district, special assessment district, enhanced infrastructure financing district, grants, congestion pricing) and finance (general obligation bond, revenue bond, green bond, certificates of participation, energy loans) CAP implementation.

#### Priorities for Sonoma County's Wildfire Settlement Vegetation Management Funds (CLEE, 2021)

Spending/investment plan for \$25 million vegetation management fund including direct spend on immediate action; governance and coordination; education and outreach; data and mapping; workforce development; and long-term financing. Long-term options include seeding a revolving fund, creating a Community Facilities District, creating a zone of benefit within the County Service Area, issuing resilience bonds, and instituting sales or parcel taxes.

### Proposed Funding Pathways for Adaptation to Climate Change in California (RLF, 2021)

Overview of innovative funding mechanisms for climate change adaptation largely focused on solutions to physical risks (such as wildfire, extreme heat, and sea level rise) and state policy reforms that fall outside the scope of the CAP. Proposes creation of a new "resilience financing district" that combines existing powers of Geologic Hazard Abatement Districts, Community Facilities Districts, Enhanced Infrastructure Financing Districts, and Fire Suppression Districts.

#### Six Innovative Ways to Fund Climate Action and Equity in US Cities (World Resources Institute, 2021)

Discussion of tax options to fund climate action, as well as climate and resilience bond approaches.

### Taking the SDGs seriously: Malmö's model for budget integration (Brookings, 2021)

Full integration of SDGs into the budget process, and conversion of budget from an annual document to a four-year document, converted the budget into the City's primary sustainable development action plan.

### Berkeley Existing Buildings Electrification Strategy (City of Berkeley, 2021)

Comprehensive strategy for city-scale building electrification by 2045, including some discussion of financing needs and a framework for equitable implementation.

#### Funding and Financing Climate Action Plans (Urban Sustainability Directors' Network, 2019)

Analysis of CAP funding and financing options with a focus on cross-departmental collaboration and multibenefit project development to unlock financial innovation.

### Finance Guide for Resilient by Design Bay Area Challenge (NHA Advisors, 2018)

Comprehensive analysis of financing strategies available for bay area resilience investment.

# Fortifying San Francisco's Great Seawall: Strategies for Funding the Seawall Resiliency Project (SF Office of Resilience and Capital Planning, 2017)

Overview of funding strategies seawall resiliency including general obligation bond, CFD, tax increment revenue, sales taxes, and other secondary and supplementary strategies.

#### RESEARCH REPORTS AND ANALYSES

# Missing the Housing for the Trees: Equity in Urban Climate Planning (Journal of Planning and Education Research, 2022)

Analysis of 170 California climate action plans finding limited integration of equity-focused policies and heavy reliance on open space and greening initiatives.

# Putting San Diego on the High Road to a Carbon-Neutral Economy: Social Policies and Capital Investments to Ensure a Just Transition for Workers (Inclusive Economics, 2022)

Overview of workforce development strategies to ensure job quality, access, and training through county climate action plan investments.

# Adaptive Reuse Challenges and Opportunities in California (University of California Berkeley, Terner Center for Housing Innovation, 2021)

Reuse of land zoned for retail and office for residential purposes presents an opportunity to revitalize vacant buildings, repurpose existing commercial real estate, and address some of the significant challenges that local jurisdictions face with the rising cost of housing.

# Climate-Related Risks Faced by Low- and Moderate-Income Communities and Communities of Color: Survey Results (Federal Reserve Bank of San Francisco, 2021)

Survey of lower-income community residents finding high awareness of climate risk and lack of housing and lack of savings as major exacerbating factors.

# Los Angeles Building Decarbonization: Tenant Impact and Recommendations (Strategic Actions for a Just Economy, 2021)

Analysis of risks to tenants from building decarbonization costs and policy recommendations including banning pass-through of costs and limitation on large landlord receipt of public subsidies.

# Los Angeles Building Decarbonization: Community Concerns, Employment Impacts, Opportunities (Inclusive Economics, 2021)

Analysis of employment implications and opportunities of building decarbonization plans in Los Angeles with policy and investment recommendations to ensure job promotion and equity.

#### More than Fines and Fees: Incorporating Equity into City Revenue Strategies (Urban Institute, 2021)

Review of strategies to incorporate equity in tax revenue programs (e.g., community advisory board for Seattle soda tax and local option cannabis taxes in Massachusetts), and nontax revenue programs (e.g., in-kind exactions for land development and transfer of city-owned land to address past inequities) and discussion of equity-informed revenue strategies (nascent, emerging, mature).

### A New Era of Racial Equity in Community Development Finance (Urban Institute, 2021)

Analysis of strategies to develop flexible, long-term financing for development in underserved communities with a focus on climate change.

# Performance Audit of the City's Climate Action Plan (City of San Diego, Office of the City Auditor, 2021) Includes discussion of methods for improving CAP implementation through fiscal planning mechanisms.

# Policy Analysis Report on Decarbonizing Residential Buildings by Eliminating Natural Gas Usage (San Francisco Budget and Legislative Analyst's Office, 2021)

Analysis of estimated cost of electrifying all residential housing units in San Francisco (between \$3.45 and \$5.87 billion) and overview of potential strategies to fund the effort including utility users tax, resident rebates, capand-trade funds, and a city building emission limit.

# A Program for Economic Recovery and Clean Energy Transition in California (Political Economy Research Institute, 2021)

Analysis of job creation and just transition potential in a clean energy transition in California, with a focus on oil-and-gas intensive counties.

# Seeding Capital: Policy Solutions to Accelerate Investment in Nature-based Climate Action (CLEE, 2021)

Analysis of potential revenue opportunities for nature-based climate mitigation and resilience investment.

# Sustaining Clean Mobility Equity Programs: Equitable Funding for Equitable Mobility (Greenlining Institute, 2021)

Analysis of equitable mobility funding strategies including road charges, congestion pricing, low-emission zones, and transportation network company taxes, including recommendations for discounts and other mechanisms to ensure equitable fee structures.

#### Affordable Housing Funding, Production, and Preservation (SF Planning Department, 2020)

Overview of affordable housing programs, funding streams, funding and production data, and potential new revenue opportunities.

#### California's Infrastructure Challenges (Urban Institute, 2020)

Overview of state and local infrastructure funding streams and mechanisms including discussion of approval requirements for local tax and fee programs.

### The California Roadmap (CLEE, 2020)

Overview of ESG investing and climate risk-related programs and opportunities in California's investment landscape, with recommendations for local bond issuances and state infrastructure investment.

### California's State and Local Revenue System (Urban Institute, 2020)

Overview of state and local revenue generation system in California, including Proposition 13's impact on commercial property taxation and state reliance on income tax proceeds for revenue.

### The Case for a Social Housing Development Authority (NYU Urban Democracy Lab, 2020)

Proposal for a new federal authority to acquire distressed housing assets, improve and maintain them, and transfer them to the social housing sector.

### The Challenge of Equity in California's Municipal Climate Action Plans (UC Santa Cruz, 2020)

Analysis of 2004-2016 CAPs finding limited correlation between equity needs and equity priorities.

## Climate Equity & Community Engagement in Building Electrification (PODER and Emerald Cities Coalition, 2020)

Toolkit for community engagement in building decarbonization planning, including case study of San Francisco residential building decarbonization and equity initiative.

# Greenlined Economy Guidebook: Transforming Community Development, Transforming our Economy

#### (Greenlining Institute, 2020)

Analysis of community-centered economic development and investment strategies across all local sectors, including six standards for equitable community investment (race conscious solutions; multi-sector approaches; intentional rather than trickle down benefits; community capacity; community-driven at every stage; paths towards wealth-building).

### Insuring Extreme Heat Risks (CLEE, 2020)

Overview of extreme heat impacts, short- and long-term mitigation strategies, and local action plans; recommendations for insurance and risk transfer mechanisms to mitigate heat risk.

# Putting California on the High Road: A Jobs and Climate Action Plan for 2030 (California Workforce

### Development Board, June 2020)

Comprehensive analysis of labor/workforce policies to accompany climate programs in California, including recommendations for demand-side policy levers, supply-side policy levers, and just transition.

### Building Community Wealth through Community Resilience (Federal Reserve Bank of San Francisco, October 2019)

Review of community wealth-building resilience strategies including resident-owned property and communityowned utilities, including efforts of PODER in San Francisco.

#### Culture, Collaboration, and Capital: Leveraging Procurement for Economic Equity (City Accelerator, 2019)

Overview of history and need for equity policy in public procurement and contracting with analysis of strategies such as breaking up large contracts, streamlining bidding processes, and shifting away from low-bid procurement to draw more small, minority-owned businesses.

#### California Building Decarbonization Workforce Needs and Recommendations (UCLA Luskin Institute, 2019)

Analysis of labor impacts of 100 percent building electrification policy in California finding potential increase of approximately 60,000-100,000 jobs.

# Hunting for Money: U.S. Cities Need a System for Financing Climate Resilience and Adaptation (Federal Reserve Bank of San Francisco, October 2019)

Overview of climate-related challenges to city funding and financing strategies as well as innovations across public, private, philanthropic, and CFDI approaches.

## Pricing Roads, Advancing Equity (TransForm, 2019)

Analysis of road pricing strategies, current examples, and potential mechanisms to address and advance transportation equity goals.

# The View from the Top of Arnstein's Ladder: Participatory Budgeting and the Promise of Community Control (Journal of the American Planning Association, 2019)

Case study analysis of Fresno participatory budgeting process finding benefits from substantial budget and binding final vote but an initial failure to delegate decision-making power, a compressed timeline, complex project eligibility restrictions limited its potential, and limited participation from those not previously involved in municipal politics.

### Integrating SDGs into national budgetary processes (Hege and Brimont, 2018)

Identifies four methods for incorporating SDGs into budget documents and processes, and note areas for improvement of this emerging practice.

#### Paying for Climate Adaptation in California: A Primer for Practitioners (RLF and AECOM, October 2018)

Overview of funding and financing strategies available for climate adaptation and resilience projects in California with recommendations for policymakers to improve access to funds and decision-making.

# Road Pricing in London, Stockholm and Singapore: A Way Forward for New York City (Tri-State Transportation Campaign, 2018)

Overview of congestion pricing programs in three global cities with analysis of mechanisms, exemptions/discounts, and revenues generated.

# Pursuing Equity and Justice in a Changing Climate: Assessing Equity in Local Climate and Sustainability Plans in U.S. Cities (Journal of Planning Education and Research, 2015)

Analysis of equity trends in climate action plans and case study review of Boston, Portland, and Philadelphia examples.

#### **Best Practices for Feebate Program Design (ICCT, 2010)**

Overview of vehicle emissions feebate programs to incentivize purchase of lower-emitting vehicles.

### **Resilience Playbook (Greenbelt Alliance)**

Guide to resilience and adaptation planning in the Bay Area with focus on wildfire, flood and drought, housing, nature-based solutions, including an equity-specific toolkit.

## REFERENCES

All webpages last visited July 1, 2022. Some may be paywall- or subscription-restricted.

- All GO bonds must fund capital improvements that are deemed to be a public necessity-a condition that clearly holds for investments to accelerate building decarbonization, given the scale of financial need to achieve City decarbonization goals and the associated public health benefits. In general, GO bonds that fund private activities or privately-owned infrastructure are taxable rather than tax-exempt, subject to a number of exceptions including for development of affordable multifamily housing and facilities owned by qualified 501(c)(3) organizations. To the extent that the proceeds of a bond issuance are invested in privately owned infrastructure such as building decarbonization investments in private dwellings, the bonds may not be tax-exempt-an important but not prohibitive distinction that would reduce the attractiveness of the bonds for investors but not affect recipients of funds. SF Bus. and Tax Reg. Code Art. 28. Since Proposition C arrived on the November 2018 ballot by voter initiative rather than Board of Supervisors legislation, the Court of Appeal held that under Proposition 13 it only required a simple majority vote for passage (rather than two-thirds), meaning its 61% approval was sufficient for enactment. See
- 3 SF Environment Code § 902. In addition to setting the City's emission reduction targets and directing the Department of the Environment to develop the CAP, the Code directs a number of City agencies-including the Planning Department, Department of Public Health, Department of Building Inspection, Department of Public Works, SFMTA, SFPUC, Office of Resilience and Capital Planning, and Purchasing Department to take specific actions in advancement of CAP development and implementation. SF Environment Code §§ 904-905.

City and County of San Francisco v. All Persons

Interested in Matter of Proposition C, 51 Cal.

App.5th 703 (2020).

San Francisco Department of the Environment, 2021 Climate Action Plan Update (SF CAP), p. 16, available at <a href="https://sfenvironment.org/sites/default/files/cap\_fulldocument\_wappendix\_web\_220124.pdf">https://sfenvironment.org/sites/default/files/cap\_fulldocument\_wappendix\_web\_220124.pdf</a>.

- SF CAP, p. 139 (Appendix A, p. 3); see also US Development Network, "What is a CBEI?" (webpage), available at <a href="https://sustainableconsumption.usdn.org/climate/cbei-guidebook/cbei-basics">https://sustainableconsumption.usdn.org/climate/cbei-guidebook/cbei-basics</a> ("A consumption-based emissions inventory (CBEI) is a calculation of all of the greenhouse gas emissions associated with producing, transporting, using, and disposing of products and services consumed by a particular community or entity in a given time period (typically a year). A CBEI is a way to tally up a comprehensive emissions 'footprint' of a community.").
- 6 SF CAP, p. 38.
- 7 SF CAP, pp. 28-31, 45-49.
  - SF CAP, pp. 15-17, 19.
- 9 SF CAP, p. 18
- 10 SF CAP, p. 15.
- 11 SF CAP, pp. 34-35.
- SF CAP, p. 35. "[E]missions from Residential buildings totaled 1.05 million mtCO2e, comprising 23% of San Francisco's emissions.... Residential sector emissions are generated from fossil fuels used to heat households, provide hot water, dry clothes, and cook. They result primarily from burning natural gas (96%), followed by electricity use (2%), and other fuel consumption (2%).... In 2019, emissions from the Commercial buildings sector totaled 831,000 mtCO2e, accounting for 18% of San Francisco's emissions.... Like Residential buildings, this decrease was mainly due to a combination of cleaner electricity supply, improved energy codes, and city-wide energy efficiency programs. Commercial natural gas use was responsible for the largest share of emissions (85%), followed by steam (8%), and electricity (7%)."
- 13 For more information visit <a href="https://">https://
  nationalbpscoalition.org/.</a>
- 14 See City of Berkeley, Existing Buildings Electrification Strategy (November 2021), available at https://berkeleyca.gov/sites/default/files/2022-01/Berkeley-Existing-Buildings-Electrification-Strategy.pdf.

- This proposed bill would require the Metropolitan Transportation Commission to develop and adopt a Connected Network Plan, develop a comprehensive, standardized regional transit mapping and wayfinding system, develop an implementation and maintenance strategy and funding plan, and establish open data standards.
- 16 SF CAP, p. 53; letter from Mayor London N. Breed and City Attorney Dennis Herrera to Pacific Gas & Electric (September 6, 2019), supra.
- 17 For more information, see <a href="https://www.publicpowersf.org/">https://www.publicpowersf.org/</a>.
- 18 SF CAP, p. 102.
- 19 San Francisco Urban Forest Plan (Fall 2014), pp. 32-33, available at <a href="https://sfplanning.s3.amazonaws.com/default/files/plans-and-programs/planning-forthe-city/urban-forest-plan/Urban\_Forest\_Plan\_Final-092314WEB.pdf">https://sfplanning.s3.amazonaws.com/default/files/plans-and-programs/planning-forthe-city/urban-forest-plan/Urban\_Forest\_Plan\_Final-092314WEB.pdf</a>.
- 20 SF CAP, p. 94
- 21 Id.
- SF CAP, p. 95. See also: ABAG Regional Housing Needs Allocation (RHNA) Plan, <a href="https://abag.ca.gov/our-work/housing/rhna-regional-housing-needs-allocation">https://abag.ca.gov/our-work/housing/rhna-regional-housing-needs-allocation</a>
- 23 SF CAP, pp. 94-97.
- San Francisco Housing Accelerator Fund, "By the Numbers" (webpage), available at <a href="https://www.sfhaf.org/statistics/">https://www.sfhaf.org/statistics/</a>.
- See generally Jackleyn Hwang and Bina P. Shrimali, Federal Reserve Bank of San Francisco, "Constrained Choices: Gentrification, Housing Affordability, and Residential Instability in the San Francisco Bay Area," (April 15, 2021), available at <a href="https://www.frbsf.org/community-development/publications/community-development-research-briefs/2021/april/gentrification-housing-san-francisco-bay-area/">https://www.frbsf.org/community-development-research-briefs/2021/april/gentrification-housing-san-francisco-bay-area/</a>.
- See, e.g., San Francisco Climate Action Plan, Appendix G: Funding and Financing Climate Action in San Francisco, p. 1; see also CLEE, Seeding Capital: Policy Solutions to Accelerate Investment in Nature-Based Climate Action (June 2021), p. 8, available at <a href="https://www.law.berkeley.edu/wp-content/uploads/2021/05/Seeding-Capital-June-2021.pdf">https://www.law.berkeley.edu/wp-content/uploads/2021/05/Seeding-Capital-June-2021.pdf</a>; Resources Legacy Fund and AECOM, Paying for Climate Adaptation in California: A Primer for Practitioners (October 2018), pp. 8-9, available at <a href="https://resourceslegacyfund.org/wp-content/uploads/2018/11/Paying-for-Climate-Adaptation-in-California.pdf">https://resourceslegacyfund.org/wp-content/uploads/2018/11/Paying-for-Climate-Adaptation-in-California.pdf</a>.

- California Debt and Investment Advisory Committee, California Debt Financing Guide (Revised March 2022), pp. i-9 i-14, available at <a href="https://www.treasurer.ca.gov/cdiac/debtpubs/financing-guide.pdf">https://www.treasurer.ca.gov/cdiac/debtpubs/financing-guide.pdf</a>.
- 28 San Francisco Climate Action Plan, Appendix G: Funding and Financing Climate Action in San Francisco, p. 3.
- 29 City and County of San Francisco, Office of the Controller, FY 2021-22 and 2022-23 Revenue Letter: Controller's Discussion of the Mayor's Proposed Budget (June 2021), pp. 3-8, available at <a href="https://sfcontroller.org/sites/default/files/Documents/Budget/FY21-22%20and%20FY22-23%20Revenue%20Letter\_FINAL.pdf">https://sfcontroller.org/sites/default/files/Documents/Budget/FY21-22%20and%20FY22-23%20Revenue%20Letter\_FINAL.pdf</a>.
  - Resources consulted for this section include San Francisco Climate Action Plan, Appendix G: Funding and Financing Climate Action in San Francisco; San Francisco Transit Riders, "What Revenue Sources Meet Transit Riders' Needs?" (2021), available at https://medium. com/@SFTRU/what-revenue-sources-meettransit-riders-needs-a5fc4dfa86d7; Legacy Fund (RLF), Proposed Funding Pathways for Adaptation to Climate Change in California (2021), available at https://resourceslegacyfund. org/publications/proposed-funding-pathwaysfor-adaptation-to-climate-change-in-california; CLEE, Seeding Capital: Policy Solutions to Accelerate Investment in Nature-Based Climate Action (June 2021), available at https://www. law.berkeley.edu/wp-content/uploads/2021/05/ Seeding-Capital-June-2021.pdf; CLEE, Priorities for Sonoma County's Wildfire Settlement Vegetation Management Funds (March 2021), available https://www.law.berkeley.edu/wp-content/ uploads/2021/03/Priorities-for-Sonoma-Countys-Vegetation-Management-Funds-March-2021.pdf; NHA Advisors, Finance Guide for Resilient by Design Bay Area Challenge (2018), available at https://www.frbsf.org/community-development/ wp-content/uploads/sites/3/16\_Brooks.pdf; and Resources Legacy Fund and AECOM, Paying for Climate Adaptation in California: A Primer for Practitioners (October 2018), available at https://resourceslegacyfund.org/wp-content/ uploads/2018/11/Paying-for-Climate-Adaptationin-California.pdf, among many others.
- See, e.g., CDIAC, California Debt Financing Guide, supra, pp. 1-13 1-21.

- Cal. Const. Art. XIIIA § 1. In addition to Proposition 13 (1978), Proposition 218 (1996) and Proposition 26 (2010) refined limitations on taxation powers of local governments under Article XIII of the California Constitution; they are often referred to collectively as Proposition 13.
- 33 Cal. Const. Art. XIIIC § 2.
- 34 SF Bus. and Tax Reg. Code Art. 12-A-1.
- 35 Portland (Oregon) City Code Ch. 7.07.
- 36 Cal. Govt. Code § 27388.1, Cal. Health & Safety Code § 50470.
- 37 SF Bus. and Tax Reg. Code §§ 2901 et seq.
- Proposed ordinance available at <a href="https://sfelections.sfgov.org/sites/default/files/20220207\_ExciseTax.pdf">https://sfelections.sfgov.org/sites/default/files/20220207\_ExciseTax.pdf</a>.
- 39 San Francisco Budget and Legislative Analyst, "Policy Analysis Report: Residential Vacancies in San Francisco" (memo) (January 31, 2022), available at <a href="https://56a418ca-94d2-476c-9a45-f491ca4a0387.usrfiles.com/ugd/56a418\_74b82803e4fb434bb1b13010828a4co1.pdf">https://56a418ca-94d2-476c-9a45-f491ca4a0387.usrfiles.com/ugd/56a418\_74b82803e4fb434bb1b13010828a4co1.pdf</a>.
- 40 Oakland Municipal Code Ch. 4.56.020.
- Province of British Columbia Ministry of Finance, Speculation and Vacancy Tax Technical Briefing: 2020 Tax Year (2021), pp. 6, 18, available at https://news.gov.bc.ca/files/SVT\_Annual\_Mayors\_ Consultation\_Technical\_Briefing\_2020.pdf
- 42 Sarah Ravani, "Berkeley to consider placing a vacant-home tax on the ballot. Will it help with the housing crisis?" San Francisco Chronicle (June 13, 2022), available at <a href="https://www.sfchronicle.com/eastbay/article/Berkeley-to-consider-placing-a-vacant-home-tax-on-17239241.php">https://www.sfchronicle.com/eastbay/article/Berkeley-to-consider-placing-a-vacant-home-tax-on-17239241.php</a>.
- 43 See generally Richard C. Auxier et al., Urban Institute, *California's State and Local Revenue System* (July 2020), available at <a href="https://www.urban.org/sites/default/files/publication/102584/californias-state-and-local-revenue-system\_1.pdf">https://www.urban.org/sites/default/files/publication/102584/californias-state-and-local-revenue-system\_1.pdf</a>.
- See San Francisco Treasurer, "Prop F (2020): Business Tax Overhaul" (webpage), available at <a href="https://sftreasurer.org/PropF">https://sftreasurer.org/PropF</a>; San Francisco Bus. and Taxation Reg. Code Art. 12-B (repealed).
- 45 San Francisco Environment Code §§ 2000 et seq.
- 46 Cal. Const. Art. XIIIC, § 1(e).
- 47 San Francisco Business and Tax Regulation Code, Article 9, § 602.
- 48 SFMTA, "Residential Parking Permits (RPP)" (webpage), available at <a href="https://www.sfmta.com/permits/residential-parking-permits-rpp">https://www.sfmta.com/permits/residential-parking-permits-rpp</a>.

- See, e.g., Chris Elmendorf and Darien Shanske, "How to Solve the Transit Budget Crunch: Price the Private Use of Public Streets," SPUR (December 18, 2020), available at <a href="https://www.spur.org/news/2020-12-18/how-solve-transit-budget-crunch-price-private-use-public-streets">https://www.spur.org/news/2020-12-18/how-solve-transit-budget-crunch-price-private-use-public-streets</a>; Cal. Const. Art. XIIIC(1)(e)(4).
- 50 Cal. Revenue & Taxation Code §§ 11160 et seq.; SF Bus. and Tax Reg. Code §§ 2301 et seq.; see SFCTA, Prop AA Vehicle Registration Fee, available at <a href="https://www.sfcta.org/funding/prop-aa-vehicle-registration-fee">https://www.sfcta.org/funding/prop-aa-vehicle-registration-fee</a>.
- 51 San Francisco Planning, "Development Impact Fees" (webpage), available at <a href="https://sfplanning.org/project/development-impact-fees">https://sfplanning.org/project/development-impact-fees</a>.
- San Francisco Planning, "San Francisco Citywide Development Impact Fee Register," (December 2021), available at <a href="https://sfplanning.org/sites/default/files/forms/Impact\_Fee\_Schedule.pdf">https://sfplanning.org/sites/default/files/forms/Impact\_Fee\_Schedule.pdf</a>.
- 53 San Francisco Planning Code §§ 401-435.
- For an overview of City debt programs and outstanding debt, see <a href="https://onesanfrancisco.org/the-plan-2022/capital-sources-debt-programs">https://onesanfrancisco.org/the-plan-2022/capital-sources-debt-programs</a>.
- 55 See, e.g., CDIAC, California Debt Financing Guide, supra, pp. i-26 i-36.
- 56 SF Charter § 9.106; see https://onesanfrancisco. org/the-plan-2022/introduction-policies-principlesand-goals.
- See SFMTA, 2022 Muni Reliability and Street Safety Bond (December 2021) (presentation), available at <a href="https://www.sfmta.com/sites/default/files/reports-and-documents/2021/12/12-7-21\_mtab\_item\_11\_-general\_obligation\_bond\_-slide\_presentation\_o.pdf">https://www.sfmta.com/sites/default/files/reports-and-documents/2021/12/12-7-21\_mtab\_item\_11\_-general\_obligation\_bond\_-slide\_presentation\_o.pdf</a>; San Francisco Department of Elections, "June 7, 2022 Election Results Summary" (webpage), available at <a href="https://sfelections.sfgov.org/june-7-2022-election-results-summary">https://sfelections.sfgov.org/june-7-2022-election-results-summary</a>.
- 58 Available at <a href="https://onesanfrancisco.org/the-plan-2022/capital-sources-debt-programs">https://onesanfrancisco.org/the-plan-2022/capital-sources-debt-programs</a>.
- 59 SF Charter § 9.107.
- 60 See SFPUC, Fiscal Year 2020-21 Green Bond Report, available at <a href="https://sfpuc.org/sites/default/files/about-us/policies-reports/FY21\_PowerGreenBondReport\_Final.pdf">https://sfpuc.org/sites/default/files/about-us/policies-reports/FY21\_PowerGreenBondReport\_Final.pdf</a>.
- MW Brand et al., "Environmental Impact Bonds: a common framework and looking ahead," *Environmental Research: Infrastructure and Sustainability*, Volume 1, (July 2021), available at <a href="https://iopscience.iop.org/article/10.1088/2634-4505/acob2c">https://iopscience.iop.org/article/10.1088/2634-4505/acob2c</a>.
- 62 lo

- San Francisco Office on the Controller, "Cities Tackling Climate Change: San Francisco's Green Bonds Program" (webpage), available at <a href="https://sfcontroller.org/cities-tackling-climate-change-san-francisco%E2%80%99s-green-bonds-program">https://sfcontroller.org/cities-tackling-climate-change-san-francisco%E2%80%99s-green-bonds-program</a>.
- 64 London Stock Exchange, "London Stock Exchange Welcomes the San Francisco Public Utilities Commission's Green Bond to the Sustainable Bond Market," (October 22, 2020), available at <a href="https://www.londonstockexchange.com/discover/news-and-insights/london-stock-exchange-welcomes-san-francisco-public-utilities-commissions-green-bond-sustainable-bond-market">https://www.londonstockexchange.com/discover/news-and-insights/london-stock-exchange-welcomes-san-francisco-public-utilities-commissions-green-bond-sustainable-bond-market</a>.
- 65 See CSG Advisors et al., "JPA Bond Proposals for Government-Owned Middle-Income Housing in California" (November 2021) (memorandum), available at <a href="https://chpc.net/resources/memo-jpa-middle-income-housing-california/">https://chpc.net/resources/memo-jpa-middle-income-housing-california/</a>.
- 66 See, e.g., CDIAC, *California Debt Financing Guide*, supra, pp. 3-22 3-30.
- 67 Cal. Govt. Code §§ 53398.50, 53398.52; Senate Bill 628 (Beall, Chapter 785, Statutes of 2014); Assembly Bill 733 (Berman, Chapter 657, Statutes of 2017).
- 68 Cal. Govt. Code § 53398.81.
- 69 See <a href="https://onesanfrancisco.org/the-plan-2020/capital-sources-other-sources">https://onesanfrancisco.org/the-plan-2020/capital-sources-other-sources</a> for a list of existing special financing districts in the city.
- 70 Cal. Govt. Code §§ 53311 et seq.
- 71 Cal. Govt. Code § 53313.
- 72 Cal. Govt. Code § 53355.
- 73 Cal. Govt. Code § 53339.
- 74 Cal. Sts. & Hwy. Code §§ 10000 et seq.
- 75 See Little Hoover Commission, Special Districts: Improving Oversight and Transparency (August 2017), available at <a href="https://lhc.ca.gov/sites/lhc.ca.gov/files/Reports/239/Report239.pdf">https://lhc.ca.gov/sites/lhc.ca.gov/files/Reports/239/Report239.pdf</a>.
- 76 Cal. Pub. Res. Code §§ 26500 et seq.
- 77 Cal. Govt. Code §§ 62000 et seq.
- 78 City of Riverside, "Community Revitalization and Investment Authorities (CRIA)" (webpage), available at <a href="https://corweb.riversideca.gov/cria">https://corweb.riversideca.gov/cria</a>; City of Victorville, "Community Revitalization Investment Authority Board" (webpage), available at <a href="https://www.victorvilleca.gov/government/city-departments/development/planning/cria">https://www.victorvilleca.gov/government/city-departments/development/planning/cria</a>.
- 79 The California State Library's Grants Portal aggregates information about available grant opportunities and allows users to sort by category (e.g., disadvantaged communities) and timeframe. California State Library, "California Grants Portal"

- (webpage), available at <a href="https://www.grants.ca.gov/">https://www.grants.ca.gov/</a>. Momentum, a grant advisory group, curates a list of funding opportunities with a focus on California-based grants. Momentum, "Funding Opportunities" (webpage), available at <a href="https://buildmomentum.io/funding-opportunities/">https://buildmomentum.io/funding-opportunities/</a>.
- o For example, SFMTA's Central Subway project, a Muni rail extension, has been funded with a combination of approximately \$1 billion in federal grants (primarily Capital Investment Grants (New Starts) funds), \$400 million in state grants (primarily Proposition 1B funds), and \$475 million in local funds. See SFMTA, Central Subway Project Monthly Monitoring Report (October 2021), p. 13, available at <a href="https://www.sfmta.com/sites/default/files/reports-and-documents/2021/11/october\_2021\_csp\_pmoc\_monthly\_report.pdf">https://www.sfmta.com/sites/default/files/reports-and-documents/2021/11/october\_2021\_csp\_pmoc\_monthly\_report.pdf</a>.
- 81 U.S. Department of Transportation, "Surface Transportation Block Grant Fact Sheet," (February 2022), available at <a href="https://www.fhwa.dot.gov/bipartisan-infrastructure-law/stbg.cfm">https://www.fhwa.dot.gov/bipartisan-infrastructure-law/stbg.cfm</a>; U.S. Department of Transportation, "Apportionment Factsheet," (March 2022), available at <a href="https://www.fhwa.dot.gov/bipartisan-infrastructure-law/apportionment.cfm">https://www.fhwa.dot.gov/bipartisan-infrastructure-law/apportionment.cfm</a>.
- 82 Center for American Progress, "How States can use the Bipartisan Infrastructure Law To Enhance Their Climate Action Efforts," (March 2022), available at <a href="https://www.americanprogress.org/article/how-states-can-use-the-bipartisan-infrastructure-law-to-enhance-their-climate-action-efforts/">https://www.americanprogress.org/article/how-states-can-use-the-bipartisan-infrastructure-law-to-enhance-their-climate-action-efforts/</a>.
- 83 U.S. Department of Transportation, "The Bipartisan Infrastructure Law Will Deliver for California" (webpage), available at <a href="https://www.transportation.gov/briefing-room/bipartisan-infrastructure-law-will-deliver-california">https://www.transportation.gov/briefing-room/bipartisan-infrastructure-law-will-deliver-california</a>.
- 84 Id.
- 85 Georgetown Climate Center, "Issue Brief: Estimating the Greenhouse Gas Impact of Federal Infrastructure investments in the IIJA," (December 2021), available at <a href="https://www.georgetownclimate.org/articles/federal-infrastructure-investment-analysis.html">https://www.georgetownclimate.org/articles/federal-infrastructure-investment-analysis.html</a>.
- 6 California Governor's Office, "Governor's Budget Summary 2022-23: Climate Change," (2022), available at <a href="https://www.ebudget.ca.gov/2022-23/">https://www.ebudget.ca.gov/2022-23/</a> pdf/BudgetSummary/ClimateChange.pdf.

- 87 U.S. Department of Transportation Federal Transit Administration, "Final Interim Policy Guidance Federal Transit Administration Capital Investment Grant Program," (June 2016), available at <a href="https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/FAST\_Updated\_Interim\_Policy\_Guidance\_June%20\_2016.pdf">https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/FAST\_Updated\_Interim\_Policy\_Guidance\_June%20\_2016.pdf</a>.
- 88 U.S. Environmental Protection Agency, "Greening America's Communities" (webpage), available at <a href="https://www.epa.gov/smartgrowth/greening-americas-communities">https://www.epa.gov/smartgrowth/greening-americas-communities</a>.
- 89 U.S. Environmental Protection Agency, "Reports from Greening America's Communities Projects" (webpage), available at <a href="https://www.epa.gov/smartgrowth/reports-greening-americas-communities-projects">https://www.epa.gov/smartgrowth/reports-greening-americas-communities-projects</a>.
- 90 U.S. Department of Housing and Urban Development, "CDBG-MIT Overview" (webpage), available at <a href="https://www.hudexchange.info/programs/cdbg-mit/overview/">https://www.hudexchange.info/programs/cdbg-mit/overview/</a>.
- 91 For more information, see <a href="https://www.epa.gov/environmental-justice-thriving-communities-technical-assistance-centers">https://www.epa.gov/environmental-justice-thriving-communities-technical-assistance-centers</a>.
- 92 Infrastructure Investment and Jobs Act, P.L. 117-58 (2021).
- 93 Center for American Progress, "How States can use the Bipartisan Infrastructure Law To Enhance Their Climate Action Efforts," (supra).
- 94 U.S. Department of Transportation Federal Highway Administration, "Federal Funding is Available For Electric Vehicle Charging Infrastructure On the National Highway System," (April 2022), available at <a href="https://www.fhwa.dot.gov/environment/alternative\_fuel\_corridors/resources/ev\_funding\_report\_2022.pdf">https://www.fhwa.dot.gov/environment/alternative\_fuel\_corridors/resources/ev\_funding\_report\_2022.pdf</a>.
- 95 Center for American Progress, "How States can use the Bipartisan Infrastructure Law To Enhance Their Climate Action Efforts," (supra).
- 96 Infrastructure Investment and Jobs Act, P.L. 117-58 (2021), Sec. 11401.
- 97 Infrastructure Investment and Jobs Act, P.L. 117-58 (2021), Sec. 11404.
- 98 Infrastructure Investment and Jobs Act, P.L. 117-58 (2021), Sec. 71102.
- 99 Infrastructure Investment and Jobs Act, P.L. 117-58 (2021), Sec. 11529.
- 100 ld.
- 101 US DOT, "Safe Streets and Roads for All (SS4A) Fact Sheet," available at <a href="https://www.transportation.gov/sites/dot.gov/files/2022-03/Safe-Streets-and-Roads-for-All-Fact-Sheet\_March-2022.pdf">https://www.transportation.gov/sites/dot.gov/files/2022-03/Safe-Streets-and-Roads-for-All-Fact-Sheet\_March-2022.pdf</a>.

- 102 Infrastructure Investment and Jobs Act, P.L. 117-58 (2021), Sec. 40552.
- The White House, "Delivering Results from President Biden's Bipartisan Infrastructure Law" (webpage), available at <a href="https://www.whitehouse.gov/build/">https://www.whitehouse.gov/build/</a>.
- For an analysis of the Inflation Reduction Act of 2022 impact on local governments, see <a href="https://blogs.law.columbia.edu/climatechange/2022/08/22/cities-the-inflation-reduction-act/">https://blogs.law.columbia.edu/climatechange/2022/08/22/cities-the-inflation-reduction-act/</a>.
- John Coequyt, "Four Ways the Inflation Reduction Act Speeds the Shift to a Cleaner, More Affordable Energy Future" (August 16, 2022) RMI, available at <a href="https://rmi.org/four-ways-the-inflation-reduction-act-speeds-the-shift-to-a-cleaner-more-affordable-energy-future/">https://rmi.org/four-ways-the-inflation-reduction-act-speeds-the-shift-to-a-cleaner-more-affordable-energy-future/</a>.
- 106 Inflation Reduction Act, P.L. 117-169 (2022). Available at <a href="https://www.congress.gov/bill/117th-congress/house-bill/5376/text">https://www.congress.gov/bill/117th-congress/house-bill/5376/text</a>.
- 107 Inflation Reduction Act, P.L. 117-169 (2022).
- 108 Id.
- 109 San Francisco Department of Building Inspection, "All-Electric New Construction Ordinance" (webpage), available at <a href="https://sfdbi.org/AllElectricNewConstructionOrdinance">https://sfdbi.org/AllElectricNewConstructionOrdinance</a>.
- 110 Inflation Reduction Act, P.L. 117-169 (2022).
- 111 Id.
- 112 California Governor's Office, "2022-23 State Budget" (webpage), available at <a href="https://www.ebudget.ca.gov/budget/2022-23EN/#/BudgetDetail">https://www.ebudget.ca.gov/budget/2022-23EN/#/BudgetDetail</a>; California Governor's Office, "Governor's Budget Summary 2022-23: Climate Change," supra.
- 113 California Governor's Office, "Governor's Budget Summary - 2022-23: Climate Change," supra.
- 114 Id., p. 89.
- 115 Id., p. 100.
- SFCTA, Downtown Congestion Pricing Study (July 2021) (presentation), available at <a href="https://www.sfcta.org/sites/default/files/2021-08/Downtown%20Congestion%20Pricing%20Study%20Board%20Update%20July%2013%2C%202021.pdf">https://www.sfcta.org/sites/default/files/2021-08/Downtown%20Congestion%20Pricing%20Study%20Board%20Update%20July%2013%2C%202021.pdf</a>.
- SFCTA, San Francisco Mobility, Access, and Pricing Study (December 2020), available at <a href="https://www.sfcta.org/sites/default/files/2019-11/MAPS\_study-final\_lo\_res.pdf">https://www.sfcta.org/sites/default/files/2019-11/MAPS\_study-final\_lo\_res.pdf</a>. See Cal. Vehicle Code § 9400.8.
- 118 For more information, see <a href="https://mcgreenbank.org/">https://mcgreenbank.org/</a>.
- 119 For more information, see <a href="https://www.rcac.org/">https://www.rcac.org/</a> lending/biomass-utilization-fund/.
- 120 For more information, see <a href="https://www.baaqmd.gov/~/media/climatetechfinance/files/climate-techfinance-2020-impact-report-pdf.pdf">https://www.baaqmd.gov/~/media/climatetechfinance/files/climate-techfinance-2020-impact-report-pdf.pdf</a>.

- 121 For more information, see <a href="https://www.energy.gov/eere/slsc/energy-savings-performance-contracting">https://www.energy.gov/eere/slsc/energy-savings-performance-contracting</a>.
- 122 For more information, see <a href="https://www.bc3sfbay.org/">https://www.bc3sfbay.org/</a>.
- 123 See Ted Lamm et al., CLEE, Implementing SB 743:
  Design Considerations for Vehicle Miles Traveled
  Mitigation Bank and Exchange Programs (August
  2022), available at <a href="https://www.law.berkeley.edu/research/clee/research/land-use/vehicle-miles-traveled/">https://www.law.berkeley.edu/research/clee/research/land-use/vehicle-miles-traveled/</a>.
- More information available at <a href="https://www.sfcta.org/funding/prop-k-half-cent-sales-tax">https://www.sfcta.org/funding/prop-k-half-cent-sales-tax</a>.
- 125 More information available at <a href="https://housingtrustfundproject.org/san-francisco-announces-first-investment-from-new-housing-trust-fund">https://housingtrust-fund.</a>
- More information available at https://cgoboc.sfgov.org/models/data/25Oct2021/Docs/2014%20GO%20Bond%20Report%202021%204Th%20Quarter%20Final%20100921.pdf.
- More information available at <a href="https://www.spur.org/voter-guide/san-francisco-2018-11/prop-a-seawall-safety-bond">https://www.spur.org/voter-guide/san-francisco-2018-11/prop-a-seawall-safety-bond</a>.
- More information available at <a href="https://www.sfcta.org/sites/default/files/2020-10/ltem%206%20-%20">https://www.sfcta.org/sites/default/files/2020-10/ltem%206%20-%20</a>
  TNC%20Tax%20Program%20Guidelines%20
  MEMO\_3.pdf; SF Business & Tax Regulations
  Code Article 32.
- 129 More information available at <a href="https://www.sfbayrestore.org/overview">https://www.sfbayrestore.org/overview</a>.
- 130 More information available at <a href="https://mtc.ca.gov/funding/regional-funding/regional-measure-3">https://mtc.ca.gov/funding/regional-measure-3</a>.
- More information available at: <a href="https://www.metro.net/">https://www.metro.net/</a>. <a href="https://www.metro.net/">net/about/measure-r/</a> and <a href="https://www.metro.net/">https://www.metro.net/</a> about/measure-m/.
- 132 More information available at <a href="https://rposd.lacounty.gov/timeline/measure-a-passes/">https://rposd.lacounty.gov/timeline/measure-a-passes/</a> and <a href="http://file.lacounty.gov/SDSInter/dpr/1121424\_Measure\_A\_Resolution.pdf">http://file.lacounty.gov/SDSInter/dpr/1121424\_Measure\_A\_Resolution.pdf</a>.
- 133 More information available at <a href="https://bcdc.ca.gov/fwg/2021/01-21-Measure-W-Storm-Water-Funding-Measure.pdf">https://bcdc.ca.gov/fwg/2021/05-20-safe-clean-water-program.pdf</a>.
- 134 More information available at: <a href="https://cityofpalmdale.org/DocumentCenter/View/10672/">https://cityofpalmdale.org/DocumentCenter/View/10672/</a> Infrastructure-Financing-Plan-PDF.
- 135 More information available at <a href="https://www.miamigov.com/My-Government/Departments/Office-of-Capital-Improvements/Miami-Forever-Bond">https://www.miamigov.com/My-Government/Departments/Office-of-Capital-Improvements/Miami-Forever-Bond</a>.

- 136 More information available at <a href="https://www.portland.gov/bps/cleanenergy">https://www.portland.gov/bps/cleanenergy</a>.
- 137 More information available at <a href="https://www.denvergov.org/Government/Agencies-Departments-Offices/Agencies-Departments-Offices-Directory/Climate-Action-Sustainability-Resiliency/Climate-Protection-Fund">https://www.denvergov.org/Government/Agencies-Departments-Offices-Directory/Climate-Action-Sustainability-Resiliency/Climate-Protection-Fund</a>.
- 138 More information available at <a href="https://www.atlantawatershed.org/environmental-impact-bond/">https://emma.msrb.org/environmental-impact-bond/</a>; <a href="https://emma.msrb.org/ES1235917-ES965388-ES1366271.pdf">https://emma.msrb.org/ES1235917-ES965388-ES1366271.pdf</a>.
- 139 More information available at: <a href="https://www.epa.gov/waterfinancecenter/dc-waters-environmental-impact-bond">https://www.epa.gov/waterfinancecenter/dc-waters-environmental-impact-bond</a>.
- 140 More information available at <a href="https://www.rcfconnects.org/community-initiatives/restoring-neighborhoods/richmond-housing-renovation-program/">https://www.rcfconnects.org/community-initiatives/restoring-neighborhoods/richmond-housing-renovation-program/</a>.
- 141 More information available at <a href="https://www.cityofwatsonville.org/DocumentCenter/View/196/">https://www.cityofwatsonville.org/DocumentCenter/View/196/</a> Carbon-Fund-Ordinance-PDF.
- 142 More information available at <a href="https://tfl.gov.uk/modes/driving/congestion-charge">https://tfl.gov.uk/modes/driving/congestion-charge</a>.
- 143 More information available at <a href="https://nyc.streetsblog.org/wp-content/uploads/2018/01/TSTC\_A\_Way\_Forward\_CPreport\_1.4.18\_medium.pdf">https://nyc.streetsblog.org/wp-content/uploads/2018/01/TSTC\_A\_Way\_Forward\_CPreport\_1.4.18\_medium.pdf</a>.
- 144 Id.
- See Hillary Angelo et al., "Missing the Housing for the Trees: Equity in Urban Climate Planning," Journal of Planning and Education Research (January 2022), available at <a href="https://journals.sagepub.com/doi/10.1177/0739456X211072527">https://journals.sagepub.com/doi/10.1177/0739456X211072527</a>.
- 146 San Francisco CAP, p. 31.
- 147 San Francisco CAP, pp. 45-49.
- 148 San Francisco CAP, p. 44.
- 149 See, e.g., Aravind Boddupalli et al., Urban Institute, "More than Fines and Fees: Incorporating Equity into City Revenue Strategies" (December 2021), available at <a href="https://www.urban.org/research/publication/more-fines-and-fees-incorporating-equity-city-revenue-strategies">https://www.urban.org/research/publication/more-fines-and-fees-incorporating-equity-city-revenue-strategies</a>.
- 150 San Francisco CAP, pp. 44-49.
- 151 See San Francisco CAP, pp. 50-122.
- 152 San Francisco CAP, Appendix D.
- 53 San Francisco CAP, Appendix E.

- 154 Greenlining Institute, Greenlined Economy Guidebook: Transforming Community Development, Transforming our Economy (2020), p. 5, available at <a href="https://greenlining.org/wp-content/uploads/2020/09/Greenlined-Economy-Guidebook-2020.pdf">https://greenlining.org/wp-content/uploads/2020/09/Greenlined-Economy-Guidebook-2020.pdf</a>.
- 155 Id. at 7.
- 156 Id. at pp. 24-32.
- 157 Aravind Boddupalli et al, Urban Institute, *More Than Fines and Fees: Incorporating Equity Into City Revenue Strategies* (December 2021), available at <a href="https://www.urban.org/sites/default/files/publication/105193/incorporating-equity-into-city-revenue-strategies\_final\_1.pdf">https://www.urban.org/sites/default/files/publication/105193/incorporating-equity-into-city-revenue-strategies\_final\_1.pdf</a>.
- 158 Id., p. 11.
- 159 ld., p. 10.
- 160 City of Buffalo American Rescue Plan Act Spending Plan, pp. 3-4, available at <a href="https://www.buffalony.gov/DocumentCenter/View/9799/ARP-Spending-Plan-2021">https://www.buffalony.gov/DocumentCenter/View/9799/ARP-Spending-Plan-2021</a>
- 161 Id. at pp. 3-6.
- Pub. L. 117-58 (2021), available at <a href="https://www.congress.gov/117/plaws/publ58/PLAW-117publ58.">https://www.congress.gov/117/plaws/publ58/PLAW-117publ58.</a>
- 163 Boddupalli, et al. p. 10, quoting Pub. L. 117-58 § 13001 (2021)
- 164 Boddupalli, et al. p. 13
- 165 Id., pp. 7-8.
- 166 Id., p. 11.
- 167 Portland (Oregon) City Code § 7.02.100.
- 168 Id.
- 169 For more information, see <a href="https://www.participatorybudgeting.org/what-is-pb/">https://www.participatorybudgeting.org/what-is-pb/</a>.
- 170 SFMTA, *Bayview Community-Based Transportation Plan* (March 2020), pp. 54-79, available at <a href="https://www.sfmta.com/sites/default/files/reports-and-documents/2020/03/bayview\_cbtp\_final\_draft.pdf">https://www.sfmta.com/sites/default/files/reports-and-documents/2020/03/bayview\_cbtp\_final\_draft.pdf</a>.
- 171 Id. at 76-79, 93.
- 172 Transform Fresno, "Transformative Climate Communities in Fresno: Catalytic Climate Investment to Rebuild Fresno's Economy and Workforce" (2017), available at <a href="https://www.transformfresno.com/wp-content/uploads/2017/06/Tranform-Fresno\_2pgr.pdf">https://www.transformfresno.com/wp-content/uploads/2017/06/Tranform-Fresno\_2pgr.pdf</a>.
- Alex Karner et al., "The View from the Top of Arnstein's Ladder: Participatory Budgeting and the Promise of Community Control," Journal of the American Planning Association, Vol. 85, No. 3 (2019), available at <a href="https://www.tandfonline.com/doi/full/10.1080/01944363.2019.1617767">https://www.tandfonline.com/doi/full/10.1080/01944363.2019.1617767</a>.
- 174 See SGC, "Transform Fresno," available at <a href="https://">https://</a>

- sgc.ca.gov/programs/tcc/docs/20190201-TCC\_ Awardee\_Fresno.pdf.
- V. Kelly Turner et al., UCLA Luskin Center for Innovation, *Transform Fresno: 2022 Progress Report on the Implementation of the Transformative Climate Communities Program Grant* (June 2022), pp. 38-40, available at <a href="https://innovation.luskin.ucla.edu/wp-content/uploads/2022/o6/Transform-Fresno-2022-Progress-Report.pdf">https://innovation.luskin.ucla.edu/wp-content/uploads/2022/o6/Transform-Fresno-2022-Progress-Report.pdf</a>.
- 176 For more information, see <a href="https://council.nyc.gov/pb/">https://council.nyc.gov/pb/</a>.
- 177 For more information, see <a href="https://pb.cambridgema.gov/">https://pb.cambridgema.gov/</a>.
- 178 Cambridge, MA Participatory Budgeting, 2021 Budget Delegate Guide (August 2021), available at <a href="https://d3n8a8pro7vhmx.cloudfront.net/cambridgema/pages/2251/attachments/original/1632341324/PB8\_Budget\_Delegate\_Guide.pdf?1632341324">https://d3n8a8pro7vhmx.cloudfront.net/cambridgema/pages/2251/attachments/original/1632341324</a>/PB8\_Budget\_Delegate\_Guide.pdf?1632341324.
- 179 See, e.g., Action Tank, Community Benefits Agreement Toolkit, available at <a href="https://static1.squarespace.com/static/5e907d1c6f62ac522c31bff5/t/5f79deb2f54a4032051b0941/1601822409403/CBA+Toolkit+for+Website.pdf">https://static1.squarespace.com/static/5e907d1c6f62ac522c31bff5/t/5f79deb2f54a4032051b0941/1601822409403/CBA+Toolkit+for+Website.pdf</a>.
- 180 Core Community Benefits Agreement for Hunters Point Shipyard/Candlestick Point Integrated Development Project (May 30, 2008), available at <a href="http://d1obenefits.org/wp-content/uploads/2021/04/Lennar\_AD1o-CCBA-Executed59076764\_1.pdf">http://d1obenefits.org/wp-content/uploads/2021/04/Lennar\_AD1o-CCBA-Executed59076764\_1.pdf</a>.
- 181 Washington, DC Council on Racial Equity (CORE), "Racial Equity Impact Assessments" (webpage), available at <a href="https://www.dcracialequity.org/racialequity-impact-assessments">https://www.dcracialequity.org/racialequity-impact-assessments</a>.
- 182 Available at <a href="https://www.dcracialequity.org/reia-database">https://www.dcracialequity.org/reia-database</a>.
- 183 CORE, "Racial Equity Impact Assessment: Urban Forest Preservation Authority Amendment Act of 2022 (April 2022), available at <a href="https://www.dropbox.com/s/7sl4lyzot38kvep/REIA%20Bill%2024-0444%20the%20Urban%20Forest%20Preservation%20Authority%20Amendment%20Act%20of%202022.pdf">https://www.dropbox.com/s/7sl4lyzot38kvep/REIA%20Bill%2024-0444%20the%20Urban%20Forest%20Preservation%20Authority%20Amendment%20Act%20of%202022.pdf</a>.
- 184 Available at <a href="https://cao-94612.s3.amazonaws.com/documents/Oakland-ECAP-07-24.pdf">https://cao-94612.s3.amazonaws.com/documents/Oakland-ECAP-07-24.pdf</a>.
- City of Oakland, Racial Equity Impact Assessment and Implementation Guide (2022), pp. 22-26, available at <a href="https://cao-94612.s3.amazonaws.com/documents/FINAL\_Complete\_EF-Racial-Equity-Impact-Assessment\_7.3.2020\_v2.pdf">https://cao-94612.s3.amazonaws.com/documents/FINAL\_Complete\_EF-Racial-Equity-Impact-Assessment\_7.3.2020\_v2.pdf</a>.
- 186 Id. at 24-25.
- 187 Id. at 26-57.

- 188 OEHHA, *CalEnviroScreen 4.0 Report* (October 2021), pp. 17-24, available at <a href="https://oehha.ca.gov/media/downloads/calenviroscreen/report/calenviroscreen4oreportf2021.pdf">https://oehha.ca.gov/media/downloads/calenviroscreen/report/calenviroscreen4oreportf2021.pdf</a>.
- 189 San Francisco CAP, Appendix D.
- 190 White House Council on Environmental Quality, "Climate and Economic Justice Screening Tool" (webpage), available at <a href="https://screeningtool.geoplatform.gov/en/#12.42/37.11009/-100.66151">https://screeningtool.geoplatform.gov/en/#12.42/37.11009/-100.66151</a>; Executive Order 14008 (January 27, 2021). The 40% goal is applicable to "investments in the areas of clean energy and energy efficiency; clean transit; affordable and sustainable housing; training and workforce development; the remediation and reduction of legacy pollution; and the development of critical clean water infrastructure." Executive Order 14008, available at <a href="https://www.regulations.gov/document/EPA-HQ-OPPT-2021-0202-0012">https://www.regulations.gov/document/EPA-HQ-OPPT-2021-0202-0012</a>.
- 191 For more information, see <a href="https://dpw.lacity.org/">https://dpw.lacity.org/</a>
  <a href="mailto:commissioners-boardroom/climate-emergency-mobilization-office">https://dpw.lacity.org/</a>
  <a href="mailto:commissioners-boardroom/climate-emergency-mobilization-office">https://dpw.lacity.org/</a>
  <a href="mailto:commissioners-boardroom/climate-emergency-mobilization-office">https://dpw.lacity.org/</a>
  <a href="mailto:commissioners-boardroom/climate-emergency-mobilization-office">https://dpw.lacity.org/</a>
  <a href="mailto:commissioners-boardroom/climate-emergency-mobilization-office">https://dpw.lacity.org/</a>
  <a href="mailto:commissioners-boardroom/climate-emergency-mobilization-office">https://dpw.lacity.org/</a>
- 192 City of Los Angeles Municipal Code L.A.M.C. § 22.1500 (Chapter 35), available at <a href="https://codelibrary.amlegal.com/codes/los\_angeles/latest/laac/o-o-o-93668">https://codelibrary.amlegal.com/codes/los\_angeles/latest/laac/o-o-o-93668</a>
- 193 Sacramento County. "Climate Emergency Mobilization Task Force" (webpage), available at <a href="https://www.saccounty.gov/news/latest-news/Pages/Join-the-Climate-Emergency-Mobilization-Task-Force.aspx">https://www.saccounty.gov/news/latest-news/Pages/Join-the-Climate-Emergency-Mobilization-Task-Force.aspx</a>
- 194 Bay Area Air Quality Management District. "AB 617 Community Health Protection Program" (webpage), available at <a href="https://www.baaqmd.gov/community-health/community-health-protection-program">https://www.baaqmd.gov/community-health/community-health-protection-program</a>
- 195 Bay Area Air Quality Management District. West Oakland Community Air Action Plan Steering Committee Charter. (August 29, 2018), available at <a href="https://www.baaqmd.gov/~/media/files/ab617-community-health/west-oakland/sc-charter-and-participation-agreement-pdf.pdf?la=en">https://www.baaqmd.gov/~/media/files/ab617-community-health/west-oakland/sc-charter-and-participation-agreement-pdf.pdf?la=en</a>.
- 196 South Coast Air Quality Management District. "Eastern Coachella Valley - AB 617 Designated Community" (webpage), available at <a href="https://www.aqmd.gov/nav/about/initiatives/environmental-justice/ab617-134/eastern-coachella-valley">https://www.aqmd.gov/nav/about/initiatives/environmental-justice/ab617-134/eastern-coachella-valley</a>.
- 197 AB 617 Community Steering Committee (CSC) Charter - Eastern Coachella Valley (ECV)
- (August 26, 2020), p. 7, available at <a href="https://www.aqmd.gov/docs/default-source/ab-617-ab-134/steering-committees/eastern-coachella-valley/final-charter.pdf">https://www.aqmd.gov/docs/default-source/ab-617-ab-134/steering-committees/eastern-coachella-valley/final-charter.pdf</a>.

- 198 County of Los Angeles Department of Public Works, "Public Hearing: Water Resources Core Service Area, Proposed Safe, Clean Water Program Funding Measure," (July 17, 2018), available at <a href="https://safecleanwaterla.org/wp-content/uploads/2018/08/7.13.18-FINAL-SCW-REVISED-BL-PACKAGE.pdf">https://safecleanwaterla.org/wp-content/uploads/2018/08/7.13.18-FINAL-SCW-REVISED-BL-PACKAGE.pdf</a>.
- 199 Id. at pp. 26-27.
- 200 ld. at p. 25.
- 201 SF CAP p. 47.
- 202 Carol Zabin et al., California Workforce Development Board (CWDB) and Governor's Office of Planning and Research (OPR), Putting California on the High Road: A Jobs and Climate Action Plan for 2030 (June 2020), p. 8, available at <a href="https://cwdb.ca.gov/wp-content/uploads/sites/43/2020/09/AB-398-Report-Putting-California-on-the-High-Road-ADA-Final.pdf">https://cwdb.ca.gov/wp-content/uploads/sites/43/2020/09/AB-398-Report-Putting-California-on-the-High-Road-ADA-Final.pdf</a>.
- E. Garcia, Chapter 135, Statutes of 2017; Cal. Health & Safety Code § 38591.3.
- 204 SF CAP, pp. 45-47.
- 205 CWDB and OPR, Putting California on the High Road, supra, pp. 4-8.
- 206 Id. at ii.
- 207 See San Francisco Minimum Compensation Ordinance, available at <a href="https://sfgov.org/olse/minimum-compensation-ordinance-mco.">https://sfgov.org/olse/minimum-compensation-ordinance-mco.</a>
- 208 See San Francisco First Source Hiring Program, available at <a href="https://oewd.org/first-source">https://oewd.org/first-source</a>.
- 209 CWDB and OPR, *Putting California on the High Road*, supra, pp. 68-84.
- 210 Id. at pp. 85-89.
- 211 See CWDB's SB 1 Workforce Guidelines, available at <a href="https://cwdb.ca.gov/wp-content/uploads/sites/43/2019/09/SB1-Guidelines\_UPDATED-BRANDING\_ACCESSIBLE.pdf">https://cwdb.ca.gov/initiatives/high-road-training-partnerships/.</a>
- 212 Id. at 115-133.
- 213 Id. at 133-139.
- 214 See Senate Bill 1090 (Mooring, Chapter 561, Statutes of 2018). In early 2022, Governor Gavin Newsom proposed extending the life of the Diablo Canyon plant, which could have a significant impact on the transition plans.
- 215 CWDB and OPR, *Putting California on the High Road*, supra, pp. 147-167.
- 216 Id. at pp. 219-253.
- 217 Id. at pp. 300-311.
- 218 Id. at 388-392.
- 219 Id. at 462.

- 220 Available at <a href="https://www.sandiegocounty.gov/content/dam/sdc/lueg/regional-decarb-frameworkfiles/RDF%20First%20Draft%20CompleteOct28.pdf">https://www.sandiegocounty.gov/content/dam/sdc/lueg/regional-decarb-frameworkfiles/RDF%20First%20Draft%20CompleteOct28.pdf</a> (October 2021 draft).
- 221 Carol Zabin et al., Putting San Diego on the High Road to a Carbon-Neutral Economy: Social Policies and Capital Investments to Ensure a Just Transition for Workers (March 2022), pp. 23-27, available at <a href="https://bosagenda.sandiegocounty.gov/cob/cosd/cob/doc?id=0901127e80e7e28b">https://bosagenda.sandiegocounty.gov/cob/cosd/cob/doc?id=0901127e80e7e28b</a>.
- 222 Id. at 28-32.
- 223 Id. at 32-44.
- 224 City Accelerator, *Culture*, *Collaboration*, and *Capital*: *Leveraging Procurement for Economic Equity* (2019), pp. 43-48, available at <a href="https://livingcities.org/wp-content/uploads/2021/06/">https://livingcities.org/wp-content/uploads/2021/06/</a> Implementation\_Guide\_FINAL\_3.20.19.pdf.
- 225 Id. at 49-59.
- 226 Ross Zelen and Ethan N. Elkind, UC Berkeley School of Law and UCLA School of Law, Hot, Cold, and Clean: Policy Solutions to Promote Equitable and Affordable Adoption of Heat Pump Retrofits (July 2022), available at
- https://www.law.berkeley.edu/wp-content/uploads/2022/07/Hot-Cold-Clean-Heat-Pump-Retrofit-Report-2.pdf.
- Ted Lamm and Ethan N. Elkind, UC Berkeley School of Law and UCLA School of Law, *Building Toward Decarbonization* (January 2021), avaialble at <a href="https://www.law.berkeley.edu/wp-content/uploads/2021/01/Building-toward-Decarbonization-January-2021.pdf">https://www.law.berkeley.edu/wp-content/uploads/2021/01/Building-toward-Decarbonization-January-2021.pdf</a>; Betony Jones et al., UCLA Luskin, *California Building Decarbonization Workforce Needs and Recommendations*, (2019), available at <a href="https://innovation.luskin.ucla.edu/wp-content/uploads/2019/11/California\_Building\_Decarbonization.pdf">https://innovation.luskin.ucla.edu/wp-content/uploads/2019/11/California\_Building\_Decarbonization.pdf</a>.
- 228 California Workforce Development Board, "High Road to Building Decarbonization in the San Francisco Bay Area" (press release) (2021), available at <a href="https://cwdb.ca.gov/wp-content/uploads/sites/43/2021/04/2021.HRTP\_.RisingSun\_ACCESSIBLE.pdf">https://cwdb.ca.gov/wp-content/uploads/sites/43/2021/04/2021.HRTP\_.RisingSun\_ACCESSIBLE.pdf</a>.
- 229 CDIAC bond and tax election data are available at <a href="https://www.treasurer.ca.gov/cdiac/debt.asp">https://www.treasurer.ca.gov/cdiac/debt.asp</a>. Special thanks to Vivian Gerlach, CDIAC Research Manager, for her assistance in collecting data.
- 230 See, e.g., CDIAC, Results of the 2020 Local and General Elections: Bond and Tax Measures Appearing on the 2020 Local and General Ballots (2021), available at https://www.treasurer.ca.gov/

- <u>cdiac/publications/results-2020-local-general.pdf</u> (finding 74.1% success rate).
- Includes regional measures with San Francisco participation.
- Hazard mitigation plan preparation is a requirement for eligibility to receive disaster response funds and assistance from the Federal Emergency Management Authority. 42 USC § 5121 et seq. SB 379 (Jackson, Chapter 608, Statutes of 2015) directs local governments to incorporate climate resilience and adaptation strategies in their staterequired General Plans. Cal. Govt. Code § 65302(g) (4).
- City and County of San Francisco, *Hazards and Climate Resilience Plan* (March 2020) ("HCR"), p. 3, available at <a href="https://onesanfrancisco.org/sites/default/files/inline-files/HCR\_FullReport\_200326\_o.pdf">https://onesanfrancisco.org/sites/default/files/inline-files/HCR\_FullReport\_200326\_o.pdf</a>.
- 234 Id.
- 235 Id. at pp. 3-4; CAP at pp. 23-31.
- 236 HCR p. 253 (IN-2.12).
- 237 HCR p. 269 (B-2.04).
- 38 HCR p. 249 (IN-2.03/2.04).
- 239 HCR p. 281 (C-5.01).
- 240 HCR p. 243 (IN-1.03).
- 241 HCR p. 245 (IN-1.06).
- 242 HCR p. 247 (IN-1.10).
- 243 HCR p. 277 (C-1.05).
- 244 HCR p. 260 (IN-5.05).
- 245 HCR p. 262 (IN-5.09/5.10).
- 246 HCR p. 272 (B-5.02).
- 247 HCR pp. 250, 252 (IN-2.06/2.10).
- 248 HCR p. 255 (IN-2.16).
- 249 HCR pp. 270-271 (B-3.02/3.03).
- 250 HCR p. 272 (B-5.01).
- 251 HCR p. 290 (C-5.20).
- 252 HCR p. 258 (IN-5.01).
- 253 HCR p. 267 (B-1.08).
- 254 SF Env. Code § 900 et seq.
- 255 SF Bldg. Code § 106A.1.17.
- 256 SF Planning Code § 169 et seq.
- 257 SF Env. Code § 400 et seq.
- 258 SF Env. Code §§ 1600 et seq., 1700 et seq.
- 259 SF Env. Code § 1901 et seq.
- 260 SF Env. Code § 2000 et seq.
- SF Env. Code § 3000 et seq.
- SF Env. Code § 3101 et seq.
- 263 SF Charter § 8A.115.

- Policy available at <a href="https://sfenvironment.org/">https://sfenvironment.org/</a>
  <a href="policy/resolution-adopting-citywide-biodiversity-goals">policy/resolution-adopting-citywide-biodiversity-goals</a>; resolution available at <a href="https://sfgov.legistar.com/view.ashx?M=F&ID=6221173&GUID=F6DFAFED-8F3E-4615-AE74-86FA078A97EC">https://sfenvironment.org/</a>
  <a href="policy available">policy/resolution-adopting-citywide-biodiversity-goals</a>; resolution available at <a href="https://sfgov.legistar.com/view.ashx?M=F&ID=6221173&GUID=F6DFAFED-8F3E-4615-AE74-86FA078A97EC">https://sfgov.legistar.com/view.ashx?M=F&ID=6221173&GUID=F6DFAFED-8F3E-4615-AE74-86FA078A97EC</a>.
- 265 Resolution available at <a href="https://sfbos.org/ftp/uploadedfiles/bdsupvrs/resolutions02/r0679-02">https://sfbos.org/ftp/uploadedfiles/bdsupvrs/resolutions02/r0679-02</a>.

  <a href="pdf">pdf</a>; declaration available at <a href="https://sfenvironment.org/press-release/mayor-london-breed-challenges-cities-states-and-regions-around-the-world-to-join-san-francisco-in-setting-aggressive-sustainability</a>.
- 266 SF Charter § 4.118.
- 267 SF Charter § 4.115.
- 268 SF Admin. Code § 2A.170.
- 269 SF Charter § 1.101.
- 270 SF Charter § 6.102.
- CleanPowerSF Community Choice Aggregation Implementation Plan and Statement of Intent (June 2015), available at <a href="https://static1.squarespace.com/static/5a79fded4c326db242490272/t/5d124e6ce1faf80001ed6076/1561480813263/CCSF+CCA+IP+FINAL.pdf">https://static1.squarespace.com/static/5a79fded4c326db242490272/t/5d124e6ce1faf80001ed6076/1561480813263/CCSF+CCA+IP+FINAL.pdf</a>.
- 272 SF Charter § 3.105.
- 273 SF Admin. Code § 2A.22.
- 274 SF Charter § 3.100.
- 275 SF Charter § 8A.102.
- 276 SF Charter § 4.105.
- 277 SF Charter §§ 4.112, 8B.121.
- 278 SF Charter § 8B.124.
- 279 SF Charter § 8B.125.
- 280 SF Charter § 4.140.
- 281 SF Admin. Code § 2A.190.
- 282 SF Admin. Code § 12A.19.
- 283 SF Charter § 4.113.
- 284 For more information see <a href="https://onesanfrancisco.">https://onesanfrancisco.</a> org/about-us.





Center for Law, Energy, & the Environment

Center for Law, Energy & the Environment UC Berkeley School of Law 390 Simon Hall Berkeley, CA 94720-7200 Clee.berkeley.edu
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FACEBOOK: @BerkeleyLawCLEE
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& the Environment

#### **BOARD of SUPERVISORS**



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# MEMORANDUM

TO: Tyrone Jue, Interim Director, Department of the Environment

Jeffrey Tumlin, Executive Director, Municipal Transportation Agency Brian Strong, Program Director, Office of Resilience and Capital Planning

Ben Rosenfield, City Controller, Office of the Controller

FROM: Brent Jalipa, Assistant Clerk

Budget and Finance Committee

DATE: January 27, 2023

SUBJECT: HEARING MATTER INTRODUCED

The Board of Supervisors' Budget and Finance Committee has received the following hearing request, introduced by Supervisor Rafael Mandelman:

#### File No. 230080

Hearing on the "Funding San Francisco Climate Action" Report and the findings and recommendations produced by the Center for Law, Energy & the Environment; and requesting the Department of Environment, Municipal Transportation Agency, Office of Resilience and Capital Planning, and the Controller's Office to report.

Pursuant to the hearing request, you or a representative will be expected to attend and present on the subject when this matter is agendized.

If you have any comments or reports to be included with the file, please forward them to me by email to: <a href="mailto:brent.jalipa@sfgov.org">brent.jalipa@sfgov.org</a>.

c: Peter Brastow, Department of the Environment Charles Sheehan, Department of the Environment Kate Breen, Municipal Transportation Agency Janet Martinsen, Municipal Transportation Agency Joel Ramos, Municipal Transportation Agency Todd Rydstrom, Office of the Controller From: Alma Soongi Beck

To: Mandelman, Rafael (BOS); MandelmanStaff, [BOS]; Safai, Ahsha (BOS); Mar, Gordon (BOS); Ronen, Hillary; Walton,

Shamann (BOS); Breed, Mayor London (MYR); ChanStaff (BOS); Jue, Tyrone (ENV); Jalipa, Brent (BOS)

Subject: Fund the Climate Action Plan now

Date: Sunday, February 5, 2023 3:03:36 PM

This message is from outside the City email system. Do not open links or attachments from untrusted sources.

Supervisor Rafael Mandelman,

Dear Supervisors,

The Mayor ignored the Department of the Environment's modest two-year request for \$11 million to begin implementing its updated Climate Action Plan (CAP). Because of this shocking omission, I am counting on you to make sure the City budget provides this crucial funding through the add-back process. Not to do so would be to ignore the present and future threat of climate change, especially to those vulnerable communities already most impacted.

Time is running out. We must begin now to take the actions that are outlined in the CAP. Please vote, and encourage your colleagues to vote, to make this small downpayment on funding all the actions necessary to reduce our emissions and bring us to climate safety. Thank you.

Alma Soongi Beck almaonclimate@gmail.com 7 Joost Avenue, #202 San Francisco, California 94131 From: Susan Vaughan
To: Jalipa, Brent (BOS)

Subject: Please put climate in the Capital Planning queue

**Date:** Tuesday, March 7, 2023 7:54:08 PM

This message is from outside the City email system. Do not open links or attachments from untrusted sources.

Budget & Finance Committee Members,

As the global climate continues to deteriorate, the longer we delay acting, the more expensive it will be to try to stop the destruction. Now is the time for San Francisco to enact funding measures that will actually begin to address the cause of climate change - greenhouse gas emissions - and not just adapt to its impacts.

The City's Capital Plan must incorporate proposed funding to enact our Climate Action Plan (CAP). Currently there is no planned bond measure in the 10-year schedule that directly addresses the urgent issues in the CAP. I insist that the Capital Planning Committee include in the schedule a bond measure for CAP implementation that would go before the voters in 2024. Not only will such a measure begin to enable necessary climate actions. It will also be a terrific job creator.

The CLEE report recommends General Obligation (GO) bonds to provide climate action funding in the short term:

- A building-decarbonization GO bond scheduled for 2024 focusing on electrification retrofits for lower-income residents and multi-family properties, as well as workforce development
- Increasing the existing 2024 affordable housing GO bond by \$100 million, to be directed towards housing rehab with a focus on building decarbonization
- A dedicated \$300-500 million transportation GO Bond to fund public transit, active transportation, and electric vehicle charging infrastructure

Alternatively, a larger climate GO bond could incorporate all three of the above individual bonds.

While these measures may seem costly, they are nothing compared to the financial and human cost of a changing climate. The City has 17 years to hit its declared climate goal of net-zero carbon emissions by 2040. A Climate Bond on the ballot in 2024 gives the people of San Francisco a timely opportunity to vote to invest in their health, their city, and their future.

Thank you for your attention.

Sue Vaughan

San Francisco

Susan Vaughan

selizabethvaughan@gmail.com 2120 Clement Street, Apartment 10 San Francisco, California 94121 From: Garen Checkley

To: Jalipa, Brent (BOS)

Subject: Please put climate in the Capital Planning queue

**Date:** Tuesday, March 7, 2023 8:02:57 PM

This message is from outside the City email system. Do not open links or attachments from untrusted sources.

Budget & Finance Committee Members,

As the global climate continues to deteriorate, the longer we delay acting, the more expensive it will be to try to stop the destruction. Now is the time for San Francisco to enact funding measures that will actually begin to address the cause of climate change - greenhouse gas emissions - and not just adapt to its impacts.

The City's Capital Plan must incorporate proposed funding to enact our Climate Action Plan (CAP). Currently there is no planned bond measure in the 10-year schedule that directly addresses the urgent issues in the CAP. I insist that the Capital Planning Committee include in the schedule a bond measure for CAP implementation that would go before the voters in 2024. Not only will such a measure begin to enable necessary climate actions. It will also be a terrific job creator.

The CLEE report recommends General Obligation (GO) bonds to provide climate action funding in the short term:

- A building-decarbonization GO bond scheduled for 2024 focusing on electrification retrofits for lower-income residents and multi-family properties, as well as workforce development
- Increasing the existing 2024 affordable housing GO bond by \$100 million, to be directed towards housing rehab with a focus on building decarbonization
- A dedicated \$300-500 million transportation GO Bond to fund public transit, active transportation, and electric vehicle charging infrastructure

Alternatively, a larger climate GO bond could incorporate all three of the above individual bonds.

While these measures may seem costly, they are nothing compared to the financial and human cost of a changing climate. The City has 17 years to hit its declared climate goal of net-zero carbon emissions by 2040. A Climate Bond on the ballot in 2024 gives the people of San Francisco a timely opportunity to vote to invest in their health, their city, and their future.

Thank you for your attention.

Garen Checkley garencheckley@gmail.com 1957 Golden Gate Ave San Francisco, Saare maakond 94115

From: CHRISTINE WILSON
To: Jalipa, Brent (BOS)

Subject: Please put climate in the Capital Planning queue

**Date:** Tuesday, March 7, 2023 10:08:09 PM

This message is from outside the City email system. Do not open links or attachments from untrusted sources.

Budget & Finance Committee Members,

As the global climate continues to deteriorate, the longer we delay acting, the more expensive it will be to try to stop the destruction. Now is the time for San Francisco to enact funding measures that will actually begin to address the cause of climate change - greenhouse gas emissions - and not just adapt to its impacts.

The City's Capital Plan must incorporate proposed funding to enact our Climate Action Plan (CAP). Currently there is no planned bond measure in the 10-year schedule that directly addresses the urgent issues in the CAP. I insist that the Capital Planning Committee include in the schedule a bond measure for CAP implementation that would go before the voters in 2024. Not only will such a measure begin to enable necessary climate actions. It will also be a terrific job creator.

The CLEE report recommends General Obligation (GO) bonds to provide climate action funding in the short term:

- A building-decarbonization GO bond scheduled for 2024 focusing on electrification retrofits for lower-income residents and multi-family properties, as well as workforce development
- Increasing the existing 2024 affordable housing GO bond by \$100 million, to be directed towards housing rehab with a focus on building decarbonization
- A dedicated \$300-500 million transportation GO Bond to fund public transit, active transportation, and electric vehicle charging infrastructure

Alternatively, a larger climate GO bond could incorporate all three of the above individual bonds.

While these measures may seem costly, they are nothing compared to the financial and human cost of a changing climate. The City has 17 years to hit its declared climate goal of net-zero carbon emissions by 2040. A Climate Bond on the ballot in 2024 gives the people of San Francisco a timely opportunity to vote to invest in their health, their city, and their future.

Thank you for your attention.

CHRISTINE WILSON wilsonmchristine@gmail.com 2234 46th Ave

San Francisco, California 94116

From: Noreen Weeden
To: Jalipa, Brent (BOS)

Subject: Bond funds for climate action in the Capital Planning queue

**Date:** Wednesday, March 8, 2023 9:05:23 AM

This message is from outside the City email system. Do not open links or attachments from untrusted sources.

Budget & Finance Committee Members,

I urge you to enact funding measures to address the cause of climate change - greenhouse gas emissions - and not just adapt to its impacts.

The City's Capital Plan must incorporate proposed funding to enact our Climate Action Plan (CAP). We need a bond measure in the 10-year schedule the urgent issues in the CAP. The Capital Planning Committee should schedule a bond measure for CAP implementation to go before voters in 2024. This will begin to address climate issues and create local jobs.

The CLEE report recommends General Obligation (GO) bonds to provide climate action funding in the short term:

- A building-decarbonization GO bond scheduled for 2024 focusing on electrification retrofits for lower-income residents and multi-family properties, as well as workforce development
- Increasing the existing 2024 affordable housing GO bond by \$100 million, to be directed towards housing rehab with a focus on building decarbonization
- A dedicated \$300-500 million transportation GO Bond to fund public transit, active transportation, and electric vehicle charging infrastructure

Support healthy ecosystems (HE) through biodiversity.

Or, a larger climate GO bond could incorporate all three of the above individual bonds.

While are nothing compared to the financial and human cost of a changing climate. We are 17 years from San Francisco's climate goal of net-zero carbon emissions by 2040. A Climate Bond on the ballot in 2024 gives the people of San Francisco a timely opportunity to vote to invest in our health, city, and future.

Thank you.

Noreen Weeden NOREEN@NATURETRIP.COM 493 Vermont St San Francisco, California 94107

From: Barbara Jue
To: Jalipa, Brent (BOS)

Subject: Please put climate in the Capital Planning queue

Date: Wednesday, March 8, 2023 9:22:33 AM

This message is from outside the City email system. Do not open links or attachments from untrusted sources.

Budget & Finance Committee Members,

As the global climate continues to deteriorate, the longer we delay acting, the more expensive it will be to try to stop the destruction. We're experiencing the destruction this very winter, extreme climate that we haven't witnessed in our lifetimes. The City must enact funding measures that will actually begin to address the cause of climate change - greenhouse gas emissions. Simply funding adaption to the severe impacts isn't enough.

The City's Capital Plan must incorporate proposed funding to enact our Climate Action Plan (CAP). Currently there is no planned bond measure in the 10-year schedule that directly addresses the urgent issues in the CAP. I insist that the Capital Planning Committee include in the schedule a bond measure for CAP implementation that would go before the voters in 2024. Not only will such a measure begin to enable necessary climate actions, it will also be a major job creator.

The CLEE report recommends General Obligation (GO) bonds to provide climate action funding in the short term:

- A building-decarbonization GO bond scheduled for 2024 focusing on electrification retrofits for lower-income residents and multi-family properties, as well as workforce development
- Increasing the existing 2024 affordable housing GO bond by \$100 million, to be directed towards housing rehab with a focus on building decarbonization
- A dedicated \$300-500 million transportation GO Bond to fund public transit, active transportation, and electric vehicle charging infrastructure

Alternatively, a larger climate GO bond could incorporate all three of the above individual bonds.

While these measures may seem costly, they are nothing compared to the financial and human cost of a changing climate. Delay in action will only increase that cost. The City has 17 years to hit its declared climate goal of net-zero carbon emissions by 2040. A Climate Bond on the ballot in 2024 gives the people of San Francisco a timely opportunity to vote to invest in their health, their city, and their future.

Thank you for your attention.

Barbara Jue

sfbar48@gmail.com 81 Lansing St, Apt 411 San Francisco, California 94105 From: Lexi Nutkiewicz
To: Jalipa, Brent (BOS)

Subject: Please put climate in the Capital Planning queue

Date: Wednesday, March 8, 2023 10:51:53 AM

This message is from outside the City email system. Do not open links or attachments from untrusted sources.

Budget & Finance Committee Members,

As the global climate continues to deteriorate, the longer we delay acting, the more expensive it will be to try to stop the destruction. Now is the time for San Francisco to enact funding measures that will actually begin to address the cause of climate change - greenhouse gas emissions - and not just adapt to its impacts.

The City's Capital Plan must incorporate proposed funding to enact our Climate Action Plan (CAP). Currently there is no planned bond measure in the 10-year schedule that directly addresses the urgent issues in the CAP. I insist that the Capital Planning Committee include in the schedule a bond measure for CAP implementation that would go before the voters in 2024. Not only will such a measure begin to enable necessary climate actions. It will also be a terrific job creator.

The CLEE report recommends General Obligation (GO) bonds to provide climate action funding in the short term:

- A building-decarbonization GO bond scheduled for 2024 focusing on electrification retrofits for lower-income residents and multi-family properties, as well as workforce development
- Increasing the existing 2024 affordable housing GO bond by \$100 million, to be directed towards housing rehab with a focus on building decarbonization
- A dedicated \$300-500 million transportation GO Bond to fund public transit, active transportation, and electric vehicle charging infrastructure

Alternatively, a larger climate GO bond could incorporate all three of the above individual bonds.

While these measures may seem costly, they are nothing compared to the financial and human cost of a changing climate. The City has 17 years to hit its declared climate goal of net-zero carbon emissions by 2040. A Climate Bond on the ballot in 2024 gives the people of San Francisco a timely opportunity to vote to invest in their health, their city, and their future.

Thank you for your attention.

Lexi Nutkiewicz lexinutkiewicz@gmail.com 1245 Kearny Street, #1F San Francisco, California 94133

From: Ashley Hirschbek
To: Jalipa, Brent (BOS)

Subject: Please put climate in the Capital Planning queue

Date: Wednesday, March 8, 2023 10:54:43 AM

This message is from outside the City email system. Do not open links or attachments from untrusted sources.

Budget & Finance Committee Members,

As the global climate continues to deteriorate, the longer we delay acting, the more expensive it will be to try to stop the destruction. Now is the time for San Francisco to enact funding measures that will actually begin to address the cause of climate change - greenhouse gas emissions - and not just adapt to its impacts.

The City's Capital Plan must incorporate proposed funding to enact our Climate Action Plan (CAP). Currently there is no planned bond measure in the 10-year schedule that directly addresses the urgent issues in the CAP. I insist that the Capital Planning Committee include in the schedule a bond measure for CAP implementation that would go before the voters in 2024. Not only will such a measure begin to enable necessary climate actions. It will also be a terrific job creator.

The CLEE report recommends General Obligation (GO) bonds to provide climate action funding in the short term:

- A building-decarbonization GO bond scheduled for 2024 focusing on electrification retrofits for lower-income residents and multi-family properties, as well as workforce development
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Alternatively, a larger climate GO bond could incorporate all three of the above individual bonds.

While these measures may seem costly, they are nothing compared to the financial and human cost of a changing climate. The City has 17 years to hit its declared climate goal of net-zero carbon emissions by 2040. A Climate Bond on the ballot in 2024 gives the people of San Francisco a timely opportunity to vote to invest in their health, their city, and their future.

Thank you for your attention.

Ashley Hirschbek ashley.hirschbek@gmail.com 174 Ralston Street San Francisco, California 94132

From: Gergely Szucs
To: Jalipa, Brent (BOS)

Subject: Please put climate in the Capital Planning queue

Date: Wednesday, March 8, 2023 11:14:07 AM

This message is from outside the City email system. Do not open links or attachments from untrusted sources.

Budget & Finance Committee Members,

As the global climate continues to deteriorate, the longer we delay acting, the more expensive it will be to try to stop the destruction. Now is the time for San Francisco to enact funding measures that will actually begin to address the cause of climate change - greenhouse gas emissions - and not just adapt to its impacts.

The City's Capital Plan must incorporate proposed funding to enact our Climate Action Plan (CAP). Currently there is no planned bond measure in the 10-year schedule that directly addresses the urgent issues in the CAP. I insist that the Capital Planning Committee include in the schedule a bond measure for CAP implementation that would go before the voters in 2024. Not only will such a measure begin to enable necessary climate actions. It will also be a terrific job creator.

The CLEE report recommends General Obligation (GO) bonds to provide climate action funding in the short term:

- A building-decarbonization GO bond scheduled for 2024 focusing on electrification retrofits for lower-income residents and multi-family properties, as well as workforce development
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- A dedicated \$300-500 million transportation GO Bond to fund public transit, active transportation, and electric vehicle charging infrastructure

Alternatively, a larger climate GO bond could incorporate all three of the above individual bonds.

While these measures may seem costly, they are nothing compared to the financial and human cost of a changing climate. The City has 17 years to hit its declared climate goal of net-zero carbon emissions by 2040. A Climate Bond on the ballot in 2024 gives the people of San Francisco a timely opportunity to vote to invest in their health, their city, and their future.

Thank you for your attention.

Gergely Szucs yyegreg@gmail.com 243 Fillmore St San Francisco, California 94117

 From:
 Peter Belden

 To:
 Jalipa, Brent (BOS)

Subject: Please put climate in the Capital Planning queue

Date: Wednesday, March 8, 2023 11:48:59 AM

This message is from outside the City email system. Do not open links or attachments from untrusted sources.

Budget & Finance Committee Members,

As the global climate continues to deteriorate, the longer we delay acting, the more expensive it will be to try to stop the destruction. Now is the time for San Francisco to enact funding measures that will actually begin to address the cause of climate change - greenhouse gas emissions - and not just adapt to its impacts.

The City's Capital Plan must incorporate proposed funding to enact our Climate Action Plan (CAP). Currently there is no planned bond measure in the 10-year schedule that directly addresses the urgent issues in the CAP. I insist that the Capital Planning Committee include in the schedule a bond measure for CAP implementation that would go before the voters in 2024. Not only will such a measure begin to enable necessary climate actions. It will also be a terrific job creator.

The CLEE report recommends General Obligation (GO) bonds to provide climate action funding in the short term:

- A building-decarbonization GO bond scheduled for 2024 focusing on electrification retrofits for lower-income residents and multi-family properties, as well as workforce development
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- A dedicated \$300-500 million transportation GO Bond to fund public transit, active transportation, and electric vehicle charging infrastructure

Alternatively, a larger climate GO bond could incorporate all three of the above individual bonds.

While these measures may seem costly, they are nothing compared to the financial and human cost of a changing climate. The City has 17 years to hit its declared climate goal of net-zero carbon emissions by 2040. A Climate Bond on the ballot in 2024 gives the people of San Francisco a timely opportunity to vote to invest in their health, their city, and their future.

Thank you for your attention.

Peter Belden pbelden@gmail.com 519 Vermont Street San Francisco, California 94107

## Budget & Finance Committee Members,

I write on behalf of the statewide coalition Californians for Energy Choice, which works to establish and expand local community clean energy programs in California, to strongly support the following request.

As the global climate continues to deteriorate, the longer we delay acting, the more expensive it will be to try to stop the destruction. Now is the time for San Francisco to enact funding measures that will actually begin to address the cause of climate change - greenhouse gas emissions - and not just adapt to its impacts.

The City's Capital Plan must incorporate proposed funding to enact our Climate Action Plan (CAP). Currently there is no planned bond measure in the 10-year schedule that directly addresses the urgent issues in the CAP. I insist that the Capital Planning Committee include in the schedule a bond measure for CAP implementation that would go before the voters in 2024. Not only will such a measure begin to enable necessary climate actions. It will also be a terrific job creator.

- The CLEE report recommends General Obligation (GO) bonds to provide climate action funding in the short term:

   A building-decarbonization GO bond scheduled for 2024 focusing on electrification retrofits for lower-income residents and multi-family properties, as well as workforce development
   Increasing the existing 2024 afforcible housing GO bond by \$100 million. To be directed towards housing or leaks thousing rehab with a focus on building decarbonization

   A dedicated \$300-500 million transportation GO Bond to fund public transit, active transportation, and electric vehicle charging infrastructure

Alternatively, a larger climate GO bond could incorporate all three of the above individual bonds.

While these measures may seem costly, they are nothing compared to the financial and human cost of a changing climate. The City has 17 years to hit its declared climate goal of net-zero carbon emissions by 2040. A Climate Bond on the ballot in 2024 gives the people of San Francisco a timely opportunity to vote to invest in their health, their city, and their future.

Thanks for your attention to this extremely important matter.

Eric Brooks
Californians for Energy Choice
https://url.avanan.click/v2/\_\_http://calenergychoice.org\_\_\_YXAzOnNmZHQyOmE8bzo0ZmU2NZVINjVhYTFkYzBiMGNhMDNhNzc1OTQZZmUyYzo2OmMMGi6NVMMMzVjNjA4MGJkOGMSYzRIMjE4YWI0OTgyODdmY2YwNDU1NTJIM2EwMmNkYzgzN2QxZTMzZjc5YTc2OD8hOTp0OQ
415-756-8844

Eric Brooks brookse32@sonic.net 1450 Sutter Street #325 San Francisco, California 94109

 From:
 Elena Engel

 To:
 Jalipa, Brent (BOS)

**Subject:** Please put a climate bond in the Capital Planning schedule

**Date:** Wednesday, March 8, 2023 4:23:02 PM

This message is from outside the City email system. Do not open links or attachments from untrusted sources.

## Budget & Finance Committee Members,

It is obvious to everyone that San Francisco needs to fund our Climate Action Plan. We cannot make the changes needed to get our City off of destructive fossil fuels without large amounts of money. And we must start NOW.

Please put a bond measure or measures into the Capital Planning schedule, with a date of 2024. We only have 17 years to meet our net zero climate goals. We must start this work at a scale that we have not yet approached.

The bond measure will create many jobs, especially in the trades--electrical, carpentry, even plumbing.

I urge you all not to waste any more time. Put measures on the ballot that will allow us to get started on this urgent, necessary work.

The cost of mitigating climate change will look small compared to the cost of its destruction.

Elena Engel elenajengel@gmail.com 2289 Bryant St San Francisco, California 94110

From: Melissa MacDonald

To: Jalipa, Brent (BOS)

Subject: Please put climate in the Capital Planning queue

Date: Wednesday, March 8, 2023 6:09:58 PM

This message is from outside the City email system. Do not open links or attachments from untrusted sources.

Budget & Finance Committee Members,

As the global climate continues to deteriorate, the longer we delay acting, the more expensive it will be to try to stop the destruction. Now is the time for San Francisco to enact funding measures that will actually begin to address the cause of climate change - greenhouse gas emissions - and not just adapt to its impacts.

The City's Capital Plan must incorporate proposed funding to enact our Climate Action Plan (CAP). Currently there is no planned bond measure in the 10-year schedule that directly addresses the urgent issues in the CAP. I insist that the Capital Planning Committee include in the schedule a bond measure for CAP implementation that would go before the voters in 2024. Not only will such a measure begin to enable necessary climate actions. It will also be a terrific job creator.

The CLEE report recommends General Obligation (GO) bonds to provide climate action funding in the short term:

- A building-decarbonization GO bond scheduled for 2024 focusing on electrification retrofits for lower-income residents and multi-family properties, as well as workforce development
- Increasing the existing 2024 affordable housing GO bond by \$100 million, to be directed towards housing rehab with a focus on building decarbonization
- A dedicated \$300-500 million transportation GO Bond to fund public transit, active transportation, and electric vehicle charging infrastructure

Alternatively, a larger climate GO bond could incorporate all three of the above individual bonds.

While these measures may seem costly, they are nothing compared to the financial and human cost of a changing climate. The City has 17 years to hit its declared climate goal of net-zero carbon emissions by 2040. A Climate Bond on the ballot in 2024 gives the people of San Francisco a timely opportunity to vote to invest in their health, their city, and their future.

Thank you for your attention, and thank you for scheduling and attending the March 15th CLEE report hearing.

Melissa MacDonald yogatoad@gmail.com

154 10th Street apt 6 San Francisco, California 94103 From: Sara Greenwald

To: Jalipa, Brent (BOS)

Subject: Please put climate in the Capital Planning queue

Date: Wednesday, March 8, 2023 8:37:58 PM

This message is from outside the City email system. Do not open links or attachments from untrusted sources.

Budget & Finance Committee Members,

I insist that the Capital Planning Committee include in the schedule a bond measure for CAP implementation that would go before the voters in 2024. Not only will such a measure begin to enable necessary climate actions. It will also be a terrific job creator.

As the global climate continues to deteriorate, the longer we delay acting, the more expensive it will be to try to stop the destruction. Now is the time for San Francisco to enact funding measures that will actually begin to address the cause of climate change - greenhouse gas emissions - and not just adapt to its impacts.

The City's Capital Plan must incorporate proposed funding to enact our Climate Action Plan (CAP). Currently there is no planned bond measure in the 10-year schedule that directly addresses the urgent issues in the CAP.

The CLEE report recommends General Obligation (GO) bonds to provide climate action funding in the short term:

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Alternatively, a larger climate GO bond could incorporate all three of the above individual bonds.

While these measures may seem costly, they are nothing compared to the financial and human cost of a changing climate. The City has 17 years to hit its declared climate goal of net-zero carbon emissions by 2040. A Climate Bond on the ballot in 2024 gives the people of San Francisco a timely opportunity to vote to invest in their health, their city, and their future.

Thank you for your attention, and thank you for scheduling and attending the March 15th CLEE report hearing.

Sara Greenwald saragreenwald2@gmail.com

1323 Lyon St. San Francisco, California 94115 From: Gabriel Goffman

To: Jalipa, Brent (BOS)

Subject: Please put climate in the Capital Planning queue

Date: Wednesday, March 8, 2023 9:08:18 PM

This message is from outside the City email system. Do not open links or attachments from untrusted sources.

Budget & Finance Committee Members,

As the global climate continues to deteriorate, the longer we delay acting, the more expensive it will be to try to stop the destruction. Now is the time for San Francisco to enact funding measures that will actually begin to address the cause of climate change - greenhouse gas emissions - and not just adapt to its impacts.

The City's Capital Plan must incorporate proposed funding to enact our Climate Action Plan (CAP). Currently there is no planned bond measure in the 10-year schedule that directly addresses the urgent issues in the CAP. I insist that the Capital Planning Committee include in the schedule a bond measure for CAP implementation that would go before the voters in 2024. Not only will such a measure begin to enable necessary climate actions. It will also be a terrific job creator.

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Thank you for your attention, and thank you for scheduling and attending the March 15th CLEE report hearing.

Gabriel Goffman gfgoffman@gmail.com 2300 webster st 603 San Francisco, California 94115 From: Sharon F Piansay
To: Jalipa, Brent (BOS)

Subject: Please put climate in the Capital Planning queue Date: Thursday, March 9, 2023 10:53:31 AM

This message is from outside the City email system. Do not open links or attachments from untrusted sources.

Budget & Finance Committee Members,

As the global climate continues to deteriorate, the longer we delay acting, the more expensive it will be to try to stop the destruction. Now is the time for San Francisco to enact funding measures that will actually begin to address the cause of climate change - greenhouse gas emissions - and not just adapt to its impacts.

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Thank you for your attention, and thank you for scheduling and attending the March 15th CLEE report hearing.

Sharon F Piansay sfpiansay@gmail.com

351 Ney St. San Francisco, California 94112 From: Glen Thomas
To: Jalipa, Brent (BOS)

Subject: Please put climate in the Capital Planning queue Date: Thursday, March 9, 2023 11:54:21 AM

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Thank you for your attention, and thank you for scheduling and attending the March 15th CLEE report hearing.

Glen Thomas glenthusiast89@gmail.com

235 Oak St. Apt. 22 San Francisco, California 94102 
 From:
 Glen Thomas

 To:
 Jalipa, Brent (BOS)

Subject: Please put climate in the Capital Planning queue Date: Thursday, March 9, 2023 11:55:00 AM

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Budget & Finance Committee Members,

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Thank you for your attention, and thank you for scheduling and attending the March 15th CLEE report hearing.

Glen Thomas glenthusiast89@gmail.com

512 Van Ness Ave. Apt. 404 San Francisco, California 94102 From: <u>Karen Kirschling</u>
To: <u>Jalipa, Brent (BOS)</u>

Subject: Please put climate in the Capital Planning queue

**Date:** Thursday, March 9, 2023 12:10:48 PM

This message is from outside the City email system. Do not open links or attachments from untrusted sources.

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Thank you for your attention, and thank you for scheduling and attending the March 15th CLEE report hearing.

Karen Kirschling kumasong@icloud.com

633 Oak SF, California 94117 From: Susan Green
To: Jalipa, Brent (BOS)

Subject: Please put climate in the Capital Planning queue

**Date:** Thursday, March 9, 2023 2:04:42 PM

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Budget & Finance Committee Members,

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Thank you for your attention, and thank you for scheduling and attending the March 15th CLEE report hearing.

Susan Green green.susan.s@gmail.com

920 Diamond St San Francisco, California 94114 From: Nancy Haber
To: Jalipa, Brent (BOS)

Subject: Please put climate in the Capital Planning queue

**Date:** Friday, March 10, 2023 9:34:44 AM

This message is from outside the City email system. Do not open links or attachments from untrusted sources.

Budget & Finance Committee Members,

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Thank you for your attention, and thank you for scheduling and attending the March 15th CLEE report hearing.

Nancy Haber nancyhaber38@gmail.com

73 Hazelwood Avenue San Francisco, California 94112

## **Introduction Form**

(by a Member of the Board of Supervisors or the Mayor)

| I herel  | oy subm           | it the following item for introduction (select only one):  |                  |  |  |  |
|--|-------------------|--|------------------|--|--|--|
|  | 1.                | For reference to Committee (Ordinance, Resolution, Motion or Charter Amendment)  |                  |  |  |  |
|  | 2.                | Request for next printed agenda (For Adoption Without Committee Reference) (Routine, non-controversial and/or commendatory matters only)   |                  |  |  |  |
|  | 3.                | Request for Hearing on a subject matter at Committee   |                  |  |  |  |
|  | 4.                | Request for Letter beginning with "Supervisor  | inquires"        |  |  |  |
|  | 5.                | City Attorney Request  |                  |  |  |  |
|  | 6.                | Call File No. from Committee.  |                  |  |  |  |
|  | 7.                | Budget and Legislative Analyst Request (attached written Motion)   |                  |  |  |  |
|  | 8.                | Substitute Legislation File No.  |                  |  |  |  |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,  |                   |  |                  |  |  |  |
|  | 9.                | Reactivate File No.  |                  |  |  |  |
|  | 10.               | Topic submitted for Mayoral Appearance before the Board on   |                  |  |  |  |
| The proposed legislation should be forwarded to the following (please check all appropriate boxes):                  |                   |  |                  |  |  |  |
| ☐ Small Business Commission ☐ Youth Commission ☐ Ethics Commission   |                   |  |                  |  |  |  |
|  | □ Pla             | anning Commission   Building Inspection Commission   Human Resource  | es Department    |  |  |  |
| General Plan Referral sent to the Planning Department (proposed legislation subject to Charter 4.105 & Admin 2A.53): |                   |  |                  |  |  |  |
|  | □ Ye              | s $\square$ No   |                  |  |  |  |
| (Note:   | For Im            | perative Agenda items (a Resolution not on the printed agenda), use the Imperati   | ve Agenda Form.) |  |  |  |
| Spons  | or(s):            |  |                  |  |  |  |
| Man  | delmar            | )  |                  |  |  |  |
| Subject  | et:               |  |                  |  |  |  |
| Hear   | ing on t          | the "Funding San Francisco Climate Action" Report  |                  |  |  |  |
| Long '   | Title or          | text listed:   |                  |  |  |  |
| produ<br>Envir   | uced by<br>conmen | the "Funding San Francisco Climate Action" report findings and recommer<br>the Center for Law, Energy & the Environment; and requesting the Depar<br>t, Municipal Transportation Agency, Office of Resilience and Capital Plann<br>office to report. | tment of         |  |  |  |
|  |                   | Signature of Sponsoring Supervisor:  |                  |  |  |  |