#### **BOARD of SUPERVISORS**



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# MEMORANDUM

TO: Dr. Grant Colfax, Director, Department of Public Health

Deborah Raphael, Director, Department of the Environment

Brian Strong, Program Director, Office of Resilience and Capital Planning Michael Carlin, Acting General Manager, Public Utilities Commission Patrick O'Riordan, Director, Department of Building Inspection

Rich Hillis, Director, Planning Department

Alaric Degrafinried, Interim Director, Public Works

Jeffrey Tumlin, Executive Director, Municipal Transportation Agency Tilly Chang, Executive Director, San Francisco County Transportation

Authority

FROM: Erica Major, Assistant Clerk, Land Use and Transportation Committee

DATE: May 21, 2021

SUBJECT: LEGISLATION INTRODUCED

The Board of Supervisors' Land Use and Transportation Committee has received the following proposed legislation, introduced by Mayor Breed on May 18, 2021:

File No. 210563

Ordinance amending the Environment Code to update the City's climate action goals and planning process, and establish departmental roles and responsibilities.

If you have comments or reports to be included with the file, please forward them to me at the Board of Supervisors, City Hall, Room 244, 1 Dr. Carlton B. Goodlett Place, San Francisco, CA 94102 or by email at: <a href="mailto:erica.major@sfgov.org">erica.major@sfgov.org</a>.

Board of Supervisors Referral from the Board of Supervisors Land Use and Transportation Committee Page 2

Greg Wagner, Department of Public Health CC: Dr. Naveena Bobba, Department of Public Health Sneha Patil, Department of Public Health Arielle Fleisher, Department of Public Health Peter Gallotta, Department of the Environment Charles Sheehan, Department of the Environment Masood Ordikhani. Public Utilities Commission Donna Hood, Public Utilities Commission John Scarpulla, Public Utilities Commission Patty Lee, Department of Building Inspection John Murray, Department of Building Inspection Scott Sanchez, Planning Department Corey Teague, Planning Department Lisa Gibson, Planning Department Devyani Jain, Planning Department Adam Varat, Planning Department AnMarie Rodgers, Planning Department Dan Sider, Planning Department Aaron Starr, Planning Department Joy Navarrete, Planning Department Laura Lynch, Planning Department David Steinberg, Public Works Jeremy Spitz, Public Works John Thomas, Public Works Lena Liu, Public Works Kate Breen, Municipal Transportation Agency Janet Martinsen, Municipal Transportation Agency Joel Ramos, Municipal Transportation Agency Angela Tsao, San Francisco County Transportation Authority Jen Shader, San Francisco County Transportation Authority Cynthia Fong, San Francisco County Transportation Authority

1	[Environment Code - Climate Action Plan]
2	
3	Ordinance amending the Environment Code to update the City's climate action goals
4	and planning process, and establish departmental roles and responsibilities.
5	NOTE: Unchanged Code text and uncodified text are in plain Arial font.
6	Additions to Codes are in <u>single-underline italics Times New Roman font</u> .  Deletions to Codes are in <u>strikethrough italics Times New Roman font</u> .
7	Board amendment additions are in double-underlined Arial font.  Board amendment deletions are in strikethrough Arial font.
8	<b>Asterisks (* * * *)</b> indicate the omission of unchanged Code subsections or parts of tables.
9	
10	Be it ordained by the People of the City and County of San Francisco:
11	
12	Section 1. Chapter 9 of the Environment Code is hereby amended by revising
13	Sections 900, 901, and 902, repealing existing Sections 903, 904, 905, and 907, and adding
14	new Sections 903, 904, 905, and 907, all to read as follows:
15	SEC. 900. FINDINGS AND PURPOSE.
16	The Board of Supervisors finds that:
17	(a) In 2016, the Paris Climate Agreement committed national governments to pursue efforts
18	limit temperature rises to 1.5 degrees Celsius. In 2018, the Intergovernmental Panel on Climate
19	Change (IPCC) issued a special report on the impacts of global warming and the need to significantly
20	reduce global greenhouse gas emissions well before 2030 to reduce the most detrimental impacts to
21	ecosystems and to human health.
22	(b) In 2018, the United States' Fourth National Climate Assessment made clear that climate
23	change will wreak havoc across the United States, and that the current pace and scale of national
24	climate action are not sufficient to avert substantial damage to the environment, human health, and
25	economy. According to the San Francisco Department of Public Health's Climate and Health

1	Adaptation Framework (2017), the direct and indirect impacts of climate change will
2	disproportionately affect San Francisco communities least able to prepare for, cope with, and recover
3	from those impacts. Those communities include communities of color, low income communities, and
4	other vulnerable populations.
5	(c) San Francisco, the Bay Area, and the State of California are already suffering the effects of
6	climate change in the form of droughts, air pollution, extreme heat, frequent wildfires, flooding, and
7	much more.
8	(d) At the 2018 Global Climate Action Summit, San Francisco committed to meet the Paris
9	Agreement by achieving a net zero city by 2050. The City joined in a Climate Equity Pledge to ensure
10	that the City's 2020 Climate Action Strategy update achieves the dual goals of advancing racial equity
11	and decreasing carbon emissions.
12	(e) San Francisco's climate commitments and climate action strategy are framed by the City's
13	"0-80-100-Roots" framework, which defines climate and sustainability goals in four key areas: zero
14	waste ("0% zero waste"), transportation ("80% low-carbon trips"), energy ("100% renewable
15	energy"), and carbon sequestration ("Roots").
16	(f) One of the City's fundamental goals in implementing the 0-80-100-Roots Climate Action
17	Framework is to promote equity by ensuring that implementation reflects and responds to the
18	economic, political, and social needs of different San Francisco vulnerable communities.
19	(g) Achieving the "0-80-100-Roots" goals in the City will mean cleaner air, fewer vehicles on
20	the road, more reliable transit systems, more bike lanes and pedestrian-friendly networks, highly
21	efficient homes and businesses powered by 100% clean electricity, a robust urban tree canopy, plentiful
22	green spaces, improved soil health, and a regenerative ecosystem.
23	(h) Meaningful climate solutions will require increasing supplies of high-quality housing
24	affordable to households at all income levels and located near local and regional transit service. These
25	solutions will also require well-coordinated land use and transportation planning and investments to

1	support low-carbon trips using efficient travel modes such as transit, walking, and biking, in order to
2	reduce vehicle miles traveled and associated emissions.
3	(i) The success of the City in achieving its climate goals thus far has been clear: in 2019, San
4	Francisco achieved a 41% reduction in greenhouse gas emissions below 1990 levels, surpassing the
5	target reduction of 25% established by the Board of Supervisors. This success has been driven by the
6	continued replacement of fossil fuel power generation with renewable sources, a cleaner electric grid,
7	increased building energy efficiency, a transition to low-carbon transportation fuels, and a leading
8	<u>zero waste system.</u>
9	(j) In 2019, the Board of Supervisors unanimously adopted Resolution No. 160-19, declaring a
10	climate emergency in San Francisco and requesting immediate action to address the climate crisis,
11	limit global warming to 1.5 degrees Celsius, and eliminate greenhouse gas emissions.
12	(k) The Department of the Environment's 2019 report titled "Focus 2030: A Pathway to Net
13	Zero Emissions" shows that achieving accelerated emissions reductions by 2050 will require an
14	ongoing commitment that builds upon and surpasses San Francisco's past successes and increases
15	resources accordingly to continue to reduce emissions all the way to net zero.
16	(a) In 2002, the Board of Supervisors adopted Resolution 158-02 that called for the City to
17	develop plans to reduce its greenhouse gas emissions to 20 percent below 1990 levels by the year
18	<del>2012.</del>
19	(b) In 2004, the Department of the Environment and the San Francisco Public Utilities
20	Commission issued "The Climate Action Plan For San Francisco," which included an accounting of
21	greenhouse gas emissions associated with City activities, an accounting of greenhouse gas emissions
22	within the City and County of San Francisco but not associated with City operations, and emission
23	reduction recommendations for transportation, energy efficiency, renewable energy and solid waste
24	management sectors.

1	(c) City Departments, under the leadership of the Department of the Environment and on their
2	own initiative, are engaged in various undertakings to implement the recommendations in "The Climate
3	Action Plan," and are making steady progress in certain areas toward the 2012 goal.
4	(d) In 2005, Governor Schwarzenegger issued Executive Order S-3-05 which established
5	Statewide greenhouse gas emissions reduction targets for California as follows: by 2010, reduce
6	greenhouse gas emissions to 2000 levels; by 2020, reduce greenhouse gas emissions to 1990 levels, and
7	by 2050 reduce greenhouse gas emissions to 80 percent below 1990 levels.
8	(e) In 2006, California enacted AB 32, the California Global Warming Solutions Act of 2006.
9	(CA Health and Safety Code Section 38.500 et seq.) which requires the California Air Resources Board
10	to determine the statewide greenhouse gas emissions level in 1990, set that 1990 level as the statewide
11	greenhouse gas emissions level to be achieved by 2020, and to adopt and implement statewide plans,
12	protocols, rules and regulations to achieve and exceed the 2020 goals.
13	(f) It is the intent of the Mayor and the Board of Supervisors to protect the health and welfare
14	in a manner that compliments state and federal efforts to improve air quality by exercising a leadership
15	role in mandating local actions to reduce global warming, and, in particular, to call upon City
16	departments and the private sector to integrate emission reduction measures into their standard
17	operating procedures in order that the City meets and exceeds the greenhouse gases emissions
18	established in this Ordinance.
19	
20	SEC. 901. DEFINITIONS.
21	"0-80-100-Roots" means the City's climate action framework, where "0" refers to a goal of
22	zero waste, "80" refers to a goal of 80% low-carbon trips, "100" refers to a goal of 100% renewable
23	energy, and "Roots" refers to sequestering carbon through natural systems.
24	(a) "CARB" means the California Air Resources Board.

1	(b) "Carbon Dioxide Equivalent" means the amount of carbon dioxide by weight that would
2	produce the same global warming impact as a given weight of another greenhouse gas, based on the
3	best available science, as determined by the Department of the Environment.
4	(c) "Climate Action Plan" means the document required under Section 904 outlining the
5	specific actions the City will take to reduce Greenhouse Gas emissions and offset negative climate
6	impacts. "The Climate Action Plan For San Francisco" issued in 2004 by the Department of the
7	Environment and the San Francisco Public Utilities Commission.
8	"Consumption-Based Greenhouse Gas Emissions" means all the Greenhouse Gas emissions
9	associated with producing, transporting, using, and disposing of products and services consumed by a
10	particular community or entity in a given time period, including emissions generated outside the
11	boundaries of the community or the geographic area where the entity is located.
12	(d) "GHG emission reduction measure" means programs, measures, standards, and alternative
13	compliance mechanisms authorized pursuant to Section 903, applicable to sources or categories of
14	sources that are designed to reduce emissions of greenhouse gases.
15	(e) "GHG", Greenhouse gas" or "greenhouse gases" means and includes any and all of the
16	following gases: carbon dioxide, methane, nitrous oxide, hydrofluorocarbons,
17	perfluorocarbons, and sulfur hexafluoride.
18	(f) "San Francisco Greenhouse Gas Emissions limit" means the combined level of greenhouse
19	gas emissions, expressed in tons of carbon dioxide equivalents, from all sources within the geographic
20	limit of the City and County of San Francisco, whether or not such source is subject to regulation by
21	<del>local law.</del>
22	"Hazards and Climate Resilience Plan" means the plan prepared by the Office of Resilience
23	and Capital Planning (ORCP) to increase the resilience of all components that keep the City
24	functioning: buildings, infrastructure, utilities, transportation, communication systems, and the people
25	who live and work in San Francisco.

1	"Low-Carbon Trips" mean trips into, out of, and within the City's boundaries which generate
2	zero or low greenhouse gas emissions.
3	"Net Zero Sector-Based Greenhouse Gas Emissions" means Sector-Based Greenhouse Gas
4	Emissions after first eliminating emissions from fossil fuels and other sources, and then, for each ton of
5	emissions that cannot be eliminated, removing a ton of carbon dioxide equivalent from the atmosphere.
6	"Renewable Energy" means energy qualifying as renewable pursuant to California Public
7	Resources Code Chapter 8.6, Section 25741(a), and California Public Utilities Code Chapter 2.3,
8	Article 16, Section 399.16(b)(1) or (2), as amended from time to time, or provided by a local publicly
9	owned electric utility subject to California Public Utilities Code Chapter 2.3, Article 16,
10	Section 399.30(j), as amended from time to time.
11	"Responsible Production and Consumption" means improving how materials and products are
12	extracted, manufactured, delivered, acquired, used, reused, recycled, and disposed of to ensure that the
13	production and consumption of materials and products promote basic human needs, are distributed in
14	a socially equitable manner, and carried out in a way that minimizes environmental impacts over the
15	lifecycle of those materials and products while matching the carrying capacity of the earth's resources
16	and adding value so as not to jeopardize present and future generations. (See United Nations'
17	Sustainable Development Goal 12.) "Lifecycle" means the complete material life of a product, good,
18	or service, including resource extraction, manufacture, assembly, construction, maintenance,
19	transportation, operations or use, and end of life (reuse, recycling/composting, and disposal).
20	"Carrying capacity" means the number or amount of people, plants, and other living organisms that an
21	ecosystem can support indefinitely without causing environmental degradation.
22	"Sector-Based Greenhouse Gas Emissions" means all of the Greenhouse Gas emissions
23	generated within the geographic boundaries of the City in a given time period.
24	(g) "SFPUC" mean the San Francisco Public Utilities Commission.

1	SEC. 902. <u>CLIMATE ACTION GOALS</u> GREENHOUSE GAS EMISSIONS LIMIT.
2	(a) The <u>City adopts the</u> following <u>targets for reducing</u> San Francisco <u>Greenhouse Gas</u>
3	emissions greenhouse gas emissions limits are hereby established:
4	(1) By 2030, a reduction in Sector-Based Greenhouse Gas Emissions of at least 61%
5	compared to 1990 levels;
6	(2) By 2030, a reduction in Consumption-Based Greenhouse Gas Emissions to
7	30 mtCO2e per household or less, equivalent to a 40% reduction compared to 1990 levels;
8	(3) By 2045, achievement of Net Zero Sector-Based Greenhouse Gas Emissions by
9	reducing such emissions by at least 90% compared to 1990 levels and sequestering any residual
10	emissions; and
11	(4) By 2050, a reduction in Consumption-Based Greenhouse Gas Emissions to
12	10 mtCO2e per household or less, equivalent to an 80% reduction compared to 1990 levels.
13	For purposes of this Section 902, "residual emissions" means any carbon dioxide or other
14	Greenhouse Gas emissions remaining after all technically and economically feasible mitigation
15	measures have been implemented, and "sequestering" means removing those residual emissions from
16	the atmosphere and storing them in natural systems that support soil fertility or through other carbon
17	farming practices.
18	(i) By 2008, determine 1990 City greenhouse gas emissions as provided in
19	Section 902(c) below;
20	(ii) By 2017, reduce greenhouse gas emissions by 25 percent below 1990 levels;
21	(iii) By 2025, reduce greenhouse gas emissions by 40 percent below 1990 levels; and
22	(iv) By 2050, reduce greenhouse gas emissions to 80 percent below 1990 levels. These
23	targets shall remain in effect unless otherwise amended or repealed.
24	(b) In order to meet the emissions reduction targets set out in subsection (a), the City shall
25	pursue the sustainability goals of the 0-80-100-Roots Climate Action Framework, as follows:

1	(1) Zero Waste. By 2030, a reduction in the generation of solid waste of at least 15%
2	below 2015 levels and a reduction in the amount of solid waste disposed of by incineration or deposit
3	in landfill of at least 50% below 2015 levels;
4	(2) Transportation. By 2030, an increase in low-carbon trips to at least 80% of all trips
5	measured and an increase in the level of electrification of vehicles to at least 25% of all private
6	vehicles registered, and by 2040, an increase in the level of electrification of vehicles to 100% of all
7	private vehicles registered;
8	(3) Energy. By 2025, supplying 100% renewable electricity, and by 2045, supplying
9	100% renewable energy;
10	(4) Housing. Building 5,000 new housing units per year, including 30% affordable
11	units;
12	(5) Buildings. By 2021, requiring zero onsite fossil fuel emissions from all new
13	buildings, and by 2035, requiring zero onsite fossil fuel emissions from all large existing commercial
14	<u>buildings; and</u>
15	(6) Roots. Sequestering carbon through ecosystem restoration, including increased
16	urban tree canopy, green infrastructure, and compost application.
17	(c) All climate action goals set out in subsection (b) shall also include the complementary goals
18	of advancing racial and social equity, protecting public health (including the health needs of
19	vulnerable populations), increasing community resilience, and fostering a more just economy.
20	(b) All City departments shall consider the effect of all decisions and activities within their
21	jurisdiction on green house gas emissions and undertake their responsibilities to the end that the City
22	achieves the greenhouse gas emissions limits set forth in this Ordinance.
23	(c) No later than January 1, 2009, the Commission on the Environment, shall, after one or
24	more public hearings, determine what the greenhouse gas emissions level within the City and County of
25	San Francisco for City and private enterprise activities was in 1990. Such determination shall be the

baseline level for determining the greenhouse gas emission limits to be achieved in 2017 and 2050, under subsection (a), above. In determining the 1990 level, the Department of the Environment shall take into consideration the inventory identified in the Climate Action Plan, the methodology adopted by the State Air Board under AB 32, and the best available scientific, technological, and economic information and shall make reasonable efforts, where appropriate, to promote consistency between its methodology and the methodology used by other international, federal and state greenhouse gas emission measurement and reporting programs.

(d) The Department of the Environment is urged to promulgate interim greenhouse gas emissions goals to facilitate the City's achievement of the 2017 and 2050 greenhouse gas emissions limits set forth in Subsection (a), above, provided, however, that such interim goals shall be for purposes of measuring the City's progress toward achieving the targets set forth in subsection (a), above and shall not be independently binding.

(e) The Department of the Environment shall, where appropriate and to the maximum extent feasible, work with other local, State And federal governmental agencies, including but not limited to the CARB, and non-profit entities to develop uniform standards and protocols for measuring, verifying and reporting on greenhouse gas emissions.

#### SEC. 903. GREENHOUSE GAS EMISSIONS REDUCTION PLAN.

(a) Consistent with its Charter duty regularly to produce an assessment of San Francisco's environmental condition, the Department of the Environment shall coordinate all departmental action plans, reports of actions taken, and their effectiveness in achieving the greenhouse gas emissions limits provided herein.

(b) The Department of the Environment, in cooperation with the SFPUC, shall manage the City's monitoring and reporting obligations imposed, from time to time, by Federal or State law, including but not limited to requirements imposed by the CARB under AB32.

1	(c) On or before January 30, 2009, all City departments shall assess GHG emissions
2	associated with their activities and submit, in a format specified by the Department of the Environment,
3	a written action plan that identifies and makes recommendations on GHG emission reduction measures
4	applicable to
5	(i) operations of the department and other City greenhouse gas emission sources within
6	its jurisdiction, and
7	(ii) private sector greenhouse gas emission sources regulated by the department. Such
8	Plan shall identify the potential costs of identified measures and the estimated potential benefits of
9	elements in the plan for reducing greenhouse gases, and may also identify other economic and non-
10	economic impacts to the City's economy and environment
11	(d) In addition to the requirement set forth in subsection (d), above, the following requirements
12	apply to the following City departments:
13	(i) The San Francisco Planning Department shall:
14	(A) Review the City's General Plan, including but not limited to the
15	environmental protection, air quality, urban design and transportation elements, for consistency with
16	this Ordinance and, as appropriate, urge the Planning Commission to recommend to the Board of
17	Supervisors amendments to the General Plan to add the greenhouse gas emissions limits in this
18	Ordinance and policies to achieve those targets;
19	(B) Include consideration of a project's impact on the San Francisco greenhouse
20	gas emissions limits in this Ordinance as part of its review under the California Environmental Quality
21	Act (CEQA); and
22	(C) In consultation with the Executive Director of the Municipal Transportation
23	Agency, Department of Public Health, San Francisco County Transportation Authority, the Department
24	of the Environment and other affected City departments, review City transit, pedestrian, bicycle,
25	parking, and transportation demand management programs and requirements within their jurisdiction

1	and, as appropriate, recommend legislation to the Board of Supervisors that will enhance the City's
2	"transit first" policy, encourage a shift to sustainable transportation modes for trips to, from, and
3	within the City, and reduce transportation-related emissions to achieve City greenhouse gas emissions
4	targets set forth in this Ordinance.
5	(ii) The San Francisco Department of Building Inspection shall review and, as
6	appropriate, recommend to the Board of Supervisors amendments to the Building Code or other local
7	laws (A) to improve energy efficiency in new construction and in repairs and alterations to existing
8	buildings, (B) to optimize energy efficiency of HVAC, lighting, and other building systems, and (C) to
9	mandate retrofitting of buildings at time of sale.
10	(iii) The Department of Public Works shall:
11	(A) Review maintenance and construction standards, programs and
12	requirements within its jurisdiction and, as appropriate, develop orders, regulations, or amendments to
13	the Department's Standard Plans and Specifications to address the policies of this Ordinance and/or
14	recommend legislation to the Board of Supervisors, including amendments to the Public Works Code or
15	other City codes or ordinances, to achieve the greenhouse gas emissions limits set forth in this
16	Ordinance; and
17	(B) in consultation with the SFPUC and other affected City Departments,
18	review, and as appropriate recommend changes to street and other public lighting standards to
19	enhance energy efficiency and thereby reduce City greenhouse gas emissions.
20	(iv) The City Administrator shall:
21	(A) review, in consultation with the SFPUC, the energy efficiency of City
22	buildings and city occupied leaseholds, and, as necessary, recommend cost effective steps to increase
23	their efficiency, and
24	(B) in collaboration with the Department of the Environment and other affected
25	City departments, review, and, as appropriate, recommend amendments to City procurement laws and

1	practices, including but not limited to Chapter 2 of this Code (Environmentally Preferable Purchasing
2	Ordinance), to include the impact of City procurement decisions on greenhouse gas emissions.
3	
4	SEC. 903. FUTURE CLIMATE ACTION GOALS.
5	(a) The San Francisco Public Utilities Commission, in consultation with relevant City
6	departments, community stakeholders, and technical experts, shall identify water conservation targets
7	that include sustainable use practices, water recycling, and water reuse.
8	(b) The Office of Resilience and Capital Planning, in consultation with the San Francisco
9	Public Utilities Commission, the Department of the Environment, relevant City departments,
10	community stakeholders, and technical experts, shall identify energy resilience targets that will help the
11	City prepare for and recover from energy disruptions with the minimum use of additional fossil fuels.
12	
13	SEC. 904. MANDATORY ANNUAL GREENHOUSE GAS EMISSIONS REPORTING.
11	
14	(a) Beginning at the close of fiscal year 2008-2009, no later than 90 days after the close of
15	(a) Beginning at the close of fiscal year 2008-2009, no later than 90 days after the close of each fiscal year, all City departments shall submit, in a format specified by the Department of the
15	each fiscal year, all City departments shall submit, in a format specified by the Department of the
15 16	each fiscal year, all City departments shall submit, in a format specified by the Department of the  Environment, a written update of the plans, status of any recommendation required by Section 903, and
15 16 17	each fiscal year, all City departments shall submit, in a format specified by the Department of the Environment, a written update of the plans, status of any recommendation required by Section 903, and the GHG emission reductions from actions taken to the Department of the Environment. Such updates
15 16 17 18	each fiscal year, all City departments shall submit, in a format specified by the Department of the  Environment, a written update of the plans, status of any recommendation required by Section 903, and  the GHG emission reductions from actions taken to the Department of the Environment. Such updates  shall, to the extent feasible, provide information to enable the Department of the Environment to
15 16 17 18 19	each fiscal year, all City departments shall submit, in a format specified by the Department of the Environment, a written update of the plans, status of any recommendation required by Section 903, and the GHG emission reductions from actions taken to the Department of the Environment. Such updates shall, to the extent feasible, provide information to enable the Department of the Environment to calculate the City's progress toward meeting the greenhouse gas emissions limits set forth in this
15 16 17 18 19 20	each fiscal year, all City departments shall submit, in a format specified by the Department of the Environment, a written update of the plans, status of any recommendation required by Section 903, and the GHG emission reductions from actions taken to the Department of the Environment. Such updates shall, to the extent feasible, provide information to enable the Department of the Environment to calculate the City's progress toward meeting the greenhouse gas emissions limits set forth in this Ordinance.
15 16 17 18 19 20 21	each fiscal year, all City departments shall submit, in a format specified by the Department of the  Environment, a written update of the plans, status of any recommendation required by Section 903, and the GHG emission reductions from actions taken to the Department of the Environment. Such updates shall, to the extent feasible, provide information to enable the Department of the Environment to calculate the City's progress toward meeting the greenhouse gas emissions limits set forth in this Ordinance.  (b) Beginning in January 2010, and annually thereafter, and based on the written reports

annual report shall be consistent with the methodology established by the Department of the

1	Environment under Section 903(c), except that the Department of the Environment may revise such
2	methodology to conform to recognized protocols.
3	
4	SEC. 904. CLIMATE ACTION PLAN.
5	(a) By December 31, 2021, the Department of the Environment shall prepare and submit for
6	the Mayor's approval a Climate Action Plan (CAP) which shall do all of the following:
7	(1) Align with the Paris Climate Agreement to limit global warming to 1.5 degrees
8	Celsius, and with the emissions reduction targets established in Section 902.
9	(2) Incorporate an equity framework that addresses historic racial and social
10	inequities; prioritizes social, economic, and environmental benefits derived from implementing the
11	CAP; and ensures an equitable distribution of those benefits. This framework shall consider:
12	(A) The engagement and prioritization of those who are most impacted by
13	climate change and have historically had the least influence in decision-making processes, including
14	low-income communities of color and other impacted populations;
15	(B) Burdens and/or unintended consequences of related actions, especially for
16	low-income communities of color and other vulnerable populations; and
17	(C) Social interventions needed to secure workers' rights and livelihoods when
18	economies are shifting to responsible production and consumption, collectively referred to as a "just
19	transition" framework, and other impacts on workforce and job opportunities.
20	(3) Identify and leverage synergies, where feasible, with the City's existing or proposed
21	climate adaptation and mitigation measures set out in the Hazards and Climate Resilience Plan.
22	(4) Incorporate a health and vulnerable populations framework that shall consider:
23	(A) Climate and health co-benefits, especially targeted to populations and
24	communities disproportionately impacted by climate change; and

1	(B) Potential negative health impacts to individual and communities, especially
2	vulnerable populations.
3	(5) Include, but not be limited to, the following elements: energy supply; transportation
4	and land use; building operations; housing; responsible production and consumption; and carbon
5	sequestration. No later than one year after the adoption of the ordinance in Board File No.
6	enacting this Section 904, the Department of the Environment in coordination with the Public Utilities
7	Commission shall prepare a water element for the CAP.
8	(6) Identify strategies and/or make recommendations to achieve emissions reduction
9	targets for all elements. If targets have not been established in Section 902, the CAP shall recommend
10	approaches on goals and principles. Each strategy or recommendation shall:
11	(A) Identify parties responsible for implementation;
12	(B) Incorporate an estimated cost; and
13	(C) Contain key performance indicators and explicit equity metrics to measure
14	progress.
15	(b) The Department of the Environment shall update the Climate Action Plan every five years.
16	
17	SEC. 905. ENFORCEMENT.
18	The Department of the Environment shall report any non-compliance with the reporting
19	requirements of this Ordinance to the Mayor and the Board of Supervisors.
20	
21	SEC. 905. CITY DEPARTMENT ROLES AND RESPONSIBILITIES.
22	(a) The Department of the Environment shall be the lead agency for developing and publicizing
23	the Climate Action Plan, including updates. The Department shall:
24	(1) Lead the development of strategies, key performance indicators, and equity metrics
25	to be included in the CAP;

1	(2) Coordinate an interagency effort with the Planning Department, Municipal
2	Transportation Agency, Department of Public Works, Department of Public Health, Department of
3	Building Inspection, City Administrator's Office, Office of Resilience and Capital Planning, San
4	Francisco Public Utilities Commission and other relevant City agencies to develop and adopt updates
5	to the CAP; and
6	(3) Work with relevant agencies, key stakeholders, and community members to develop,
7	adopt, and monitor the implementation of the CAP.
8	(b) The Planning Department shall:
9	(1) Review the City's Planning Code to ensure that Area Plans and development
10	projects are consistent with the targets and aims set out in the CAP and this Chapter 9;
11	(2) Review the City's General Plan for consistency and support of the City's
12	Greenhouse Gas emissions targets and climate action goals, with guidance from the State's Office of
13	Planning and Research on incorporating climate change and resilience into land use planning, and, as
14	needed, update and amend relevant elements through the support of the Planning Commission and
15	Board of Supervisors;
16	(3) Continue to implement State, regional, and/or local requirements to consider a
17	project's Greenhouse Gas impacts as part of its review under the California Environmental Quality Act
18	(CEQA) regarding San Francisco's emissions targets in this Chapter 9; and
19	(4) Advance plans, policies, and projects that support increased housing production for
20	all income levels, especially in proximity to public transit, and that preserve affordable housing at low-
21	and moderate-income levels.
22	(c) The Department of Public Health shall:
23	(1) In consultation with the Department of the Environment, develop an element of the
24	CAP addressing climate impacts on health and vulnerable populations, including:
25	(A) Analyzing climate change as a public health threat;

1	(B) Identifying inequalities in the distribution of public health impacts; and
2	(C) Connecting climate action strategies to associated health and equity co-
3	<u>benefits.</u>
4	(2) Develop a health and vulnerable populations framework for evaluating proposed
5	climate action strategies to inform the implementation of those strategies; and
6	(3) Monitor and evaluate climate, health, and equity metrics in cooperation with public
7	agencies and key stakeholders, including the San Francisco Health Improvement Partnership; share
8	data with City departments and the public; and use the data to continually improve strategic actions
9	and address emerging issues, gaps, and unintended consequences impacting health and vulnerable
10	populations.
11	(d) The Department of Building Inspection shall:
12	(1) Support the development and implementation of high-performance green building
13	codes to achieve higher levels of energy efficiency and the eventual elimination of the use of fossil fuels
14	in buildings to achieve San Francisco's emissions targets set forth in Section 902; and
15	(2) Work with the Department of the Environment on the development of strategies,
16	actions, key performance indicators, and equity metrics to be included in the buildings element of the
17	<u>CAP.</u>
18	(e) The Department of Public Works shall:
19	(1) Consider San Francisco's emissions targets set forth in Section 902 in updates
20	related to the Department's Standard Plans and Specifications and in the design, construction,
21	maintenance and management of public buildings and infrastructure projects;
22	(2) Work with City departments and stakeholders to ensure that the public right-of-way
23	allows for electrification of buildings and transportation; and
24	

1	(3) Work with the Department of the Environment on the carbon sequestration element
2	of the CAP, including consideration of the climate and resilience benefits of planting and maintaining
3	street trees, median landscaping, and pocket parks.
4	(f) The San Francisco Municipal Transportation Agency shall:
5	(1) Work with the Department of the Environment, the Planning Department, the San
6	Francisco County Transportation Authority and the Department of Public Health to develop and
7	implement projects, strategies, actions, key performance indicators, and equity metrics to be included
8	in the transportation and land use element of the CAP, with an emphasis on advancing projects that
9	shift single-occupant automobile trips to other modes of transportation ("mode shift") by prioritizing
10	the right-of-way for low-carbon and efficient modes through efforts such as improved parking
11	management, utilization of pricing, development of local and regional transit and active mobility
12	networks, and electrifying gas-powered vehicles.
13	(2) Act as the lead agency on coordinating with other relevant departments and other
14	key stakeholders to ensure that the transportation and land use element reflects the City's policy and
15	programmatic priorities in this area, including the integration of existing Citywide transportation
16	planning efforts, goals, data sources, and other considerations into the CAP.
17	(g) The San Francisco Public Utilities Commission shall:
18	(1) Lead the development of strategies, actions, key performance indicators, and equity
19	metrics to be included in the energy element of the CAP, including proposals for meeting the City's
20	Renewable Energy goals and for developing community programming that reduces Greenhouse Gas
21	emissions and incentivizes electrification.
22	(2) Maintain energy supply portfolios for its energy-providing programs that align with
23	the Greenhouse Gas emission targets set forth in Section 902.
24	(h) The Office of Resilience and Capital Planning under the City Administrator shall:
25	

1	(1) Collaborate with the Department of the Environment and other City departments to
2	align long-term funding needs with climate adaptation or mitigation strategies and to reflect those
3	priorities in the 10-year capital plan and in agency capital plans; and
4	(2) Work with the Department of the Environment and other departments to coordinate
5	and prioritize climate adaptation and mitigation strategies articulated in the Office's Hazards and
6	Climate Resilience Plan and the CAP.
7	(i) The Purchasing Department under the City Administrator shall work with the Department of
8	the Environment and other departments to review, and, as appropriate, recommend amendments to
9	City procurement laws and practices, including but not limited to Chapter 2 of this Code
10	(Environmentally Preferable Purchasing Ordinance), to include the impact of City procurement
11	decisions on achieving City emissions reduction targets and achieving other environmental and health
12	benefits.
13	(j) All City agencies shall, as needed:
14	(1) Provide data, information, and feedback to the Department of the Environment in
15	developing the CAP;
16	(2) Consider the effect of decisions and activities under their jurisdiction on the goals of
17	reducing Greenhouse Gas emissions and at the same time promoting racial and social equity,
18	consistent with the CAP and the goals set forth in Section 902;
19	(3) Streamline the review and approval processes for housing projects, particularly
20	those projects with 100% affordable housing and development agreement projects;
21	(4) Coordinate with other City departments on the development and implementation of
22	<u>climate-related regulations;</u>
23	(5) Improve interagency coordination and communication, and coordinate funding
24	where feasible, to advance ongoing City initiatives with co-benefits for climate change, health and
25	equity, including Vision Zero, Transit First, and City targets for affordable housing development; and

1	(6) Support community engagement efforts for the CAP.
2	
3	SEC. 907. LOCAL ENERGY GENERATION.
4	The Board of Supervisors urges the SFPUC to develop and to implement an energy action plan
5	that includes at least the following:
6	(a) In coordination with the Department of the Environment, develop a plan to achieve the goal
7	of San Francisco becoming fossil fuel free by 2030;
8	(b) In coordination with the Department of the Environment, setting annual goals for
9	generating electricity locally through renewable generation; and
10	(c) Integrating the greenhouse gas emissions targets and policies of this Ordinance into the
11	Sewer Master Plan.
12	
13	SEC. 907. MONITORING, EVALUATION, AND REPORTING.
14	(a) The City shall demonstrate its long-term commitment to reducing Greenhouse Gas
15	emissions and advancing racial and social equity by measuring and reporting emissions, tracking key
16	performance indicators and equity metrics, and monitoring the City's progress on meeting its climate
17	action goals and commitments.
18	(b) The Department of the Environment shall, with the assistance from relevant City agencies:
19	(1) Measure and monitor Sector-Based Greenhouse Gas Emissions, including
20	municipal emissions, using best available global protocols for preparing Citywide Greenhouse Gas
21	emission inventories.
22	(2) Measure production and consumption emissions using best available global
23	methodologies for preparing consumption-based emission inventories.
24	(3) Evaluate Sector-Based Greenhouse Gas Emissions against set targets, document
25	production and consumption emissions, and produce a Greenhouse Gas emissions report.

1	(4) Establish a monitoring and reporting process for the implementation of the CAP
2	<u>that:</u>
3	(A) Tracks key performance indicators and equity metrics for strategies to help
4	monitor their progress and implementation;
5	(B) Reports progress against the Paris Agreement and its goal of limiting global
6	warming to 1.5 degrees Celsius.
7	(5) Request and receive data from City departments starting August of every year to
8	<u>support:</u>
9	(A) The annual Greenhouse Gas emissions inventory. City departments may be
10	asked to provide data on, but not limited to, the following: their energy use; types of fuels used for their
11	operations; fuel volume; vehicle-miles travelled (if applicable) within their jurisdictions; and private
12	sector Greenhouse Gas emission sources regulated by the department. Departments may also be
13	requested to verify emission estimates and assumptions and review resulting reports;
14	(B) Monitoring and reporting of CAP implementation. City departments may be
15	asked to provide data on key performance indicators and equity metrics related to adopted strategies
16	and actions; and
17	(C) The development and delivery of annual municipal building energy
18	benchmarking reports.
19	(6) Coordinate with other City agencies to monitor, track, and report on climate action
20	progress to local, state, national, and global partners.
21	(7) Report its findings in a progress report to the public every two years.
22	
23	Section 2. Effective Date. This ordinance shall become effective 30 days after
24	enactment. Enactment occurs when the Mayor signs the ordinance, the Mayor returns the
25	

1	ordinance unsigned or does not sign the ordinance within ten days of receiving it, or the Board
2	of Supervisors overrides the Mayor's veto of the ordinance.
3	
4	Section 3. Scope of Ordinance. In enacting this ordinance, the Board of Supervisors
5	intends to amend only those words, phrases, paragraphs, subsections, sections, articles,
6	numbers, punctuation marks, charts, diagrams, or any other constituent parts of the Municipal
7	Code that are explicitly shown in this ordinance as additions, deletions, Board amendment
8	additions, and Board amendment deletions in accordance with the "Note" that appears under
9	the official title of the ordinance.
10	
11	
12	APPROVED AS TO FORM:
13	DENNIS J. HERRERA, City Attorney
14	
15	By: /s/ Thomas J. Owen THOMAS J. OWEN
16	Deputy City Attorney
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### **LEGISLATIVE DIGEST**

[Environment Code - Climate Action Plan]

Ordinance amending the Environment Code to update the City's climate action goals and planning process, and establish departmental roles and responsibilities.

#### **Existing Law**

Chapter 9 of the Environment Code, adopted in 2008, addresses the City's targets for reducing greenhouse gas emissions and departmental action plans for achieving those reductions. The Chapter sets the following specific targets:

- By 2017, reduce greenhouse gas emissions by 25% below 1990 levels;
- By 2025, reduce greenhouse gas emissions by 40% below 1990 levels; and
- By 2050, reduce greenhouse gas emissions to 80% below 1990 levels.

All City departments, with the assistance of the Department of the Environment, must assess their greenhouse gas emissions and prepare written action plans to reduce those emissions, and update those assessments and plans annually. The Chapter also imposes department-specific duties on the Planning Department, the Department of Building Inspection, the Department of Public Works, the Department of Public Works, and the City Administrator. The Department of the Environment must prepare an annual report to the Board of Supervisors on the City's progress towards achieving the targeted reductions in greenhouse gas emissions.

And the Chapter urges the San Francisco PUC to develop and to implement an energy action plan that includes: becoming fossil fuel free by 2030; generating electricity locally through renewable generation; and integrating the greenhouse gas emissions targets into the Sewer Master Plan.

### Amendments to Current Law

The proposed legislation is an ordinance that would amend the Environment Code to update and revise Chapter 9. The ordinance would adopt new targets for reducing San Francisco greenhouse gas emissions:

- By 2030, reduce Sector-Based Greenhouse Gas Emissions by 61% below 1990 levels;
- By 2030, reduce Consumption-Based Greenhouse Gas Emissions by 40% below 1990 levels:
- By 2045, reach Net Zero Sector-Based Greenhouse Gas Emissions by reducing such emissions by 90% below 1990 levels and sequestering any residual emissions; and

 By 2050, reduce Consumption-Based Greenhouse Gas Emissions by 80% below 1990 levels.

Under the ordinance, "Sector-Based Greenhouse Gas Emissions" are all of the Greenhouse Gas emissions generated within the City in a given time period. "Consumption-Based Greenhouse Gas Emissions" are all the Greenhouse Gas emissions associated with producing, transporting, using, and disposing of products and services consumed by the City in a given time period, including emissions generated outside the City. "Net Zero Sector-Based Greenhouse Gas Emissions" means Sector-Based Greenhouse Gas Emissions after first eliminating emissions from fossil fuels and other sources, and then, for each ton of emissions that cannot be eliminated, removing a ton of carbon dioxide equivalent from the atmosphere.

The ordinance also would incorporate a "0-80-100-Roots" climate action framework, where "0" refers to a goal of zero waste, "80" refers to a goal of 80% low-carbon trips, "100" refers to a goal of 100% renewable energy, and "Roots" refers to sequestering carbon through natural systems. To reach the emissions reduction targets of Chapter 9 and the sustainability goals of the 0-80-100-Roots framework, the City would adopt the following climate action goals:

- **Zero Waste.** By 2030, a reduction in the generation of solid waste of at least 15% below 2015 levels and a reduction in the amount of solid waste disposed of by incineration or deposit in landfill of at least 50% below 2015 levels;
- **Transportation.** By 2030, an increase in low-carbon trips to at least 80% of all trips measured and an increase in the level of electrification of vehicles to at least 25% of all private vehicles registered, and by 2040, an increase in the level of electrification of vehicles to 100% of all private vehicles registered;
- **Energy.** By 2025, supplying 100% renewable electricity, and by 2045, supplying 100% renewable energy;
- **Housing.** Building 5,000 new housing units per year, including 30% affordable units;
- **Buildings.** By 2021, requiring zero onsite fossil fuel emissions from all new buildings, and by 2035, requiring zero onsite fossil fuel emissions from all large existing commercial buildings; and
- **Roots.** Sequestering carbon through ecosystem restoration, including increased urban tree canopy, green infrastructure, and compost application.

All of these climate action goals would also include complementary goals of advancing racial and social equity, protecting public health (including the health needs of vulnerable populations), increasing community resilience, and fostering a more just economy.

The ordinance would require the City to prepare a Climate Action Plan by the end of 2021 and submit the Plan to the Mayor for the Mayor's approval. The ordinance would set out the required elements of the Plan, including an equity framework that would address historic racial and social inequities; prioritize social, economic, and environmental benefits derived from implementing the Plan; and ensure an equitable distribution of those benefits.

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Elements of the Plan would include: energy supply; transportation and land use; building operations; housing; responsible production and consumption; and carbon sequestration. (The Department of the Environment would add a water element within one year.) The Plan would identify strategies and make recommendations to meet emissions reduction targets for all elements. Each strategy or recommendation would identify parties responsible for implementation, incorporate an estimated cost; and list key performance indicators and explicit equity metrics to measure progress. The Department of the Environment would be required to update the Climate Action Plan every five years.

The ordinance would establish roles and responsibilities related to climate action planning and implementation for individual City departments, including Planning, Public Health, Building Inspection, Public Works, the San Francisco Municipal Transportation Agency, the San Francisco Public Utilities Commission, the Office of Resilience and Capital Planning, and Purchasing. The Department of the Environment, with assistance from relevant City agencies, would be responsible for measuring and reporting emissions, tracking key performance indicators and equity metrics, and monitoring the City's progress on meeting its climate action goals and commitments.

## **Background Information**

Existing Section 906 ("Market-Based Compliance Mechanisms"), Section 908 ("Miscellaneous"), and Section 909 ("Implementation of All-Electric Building Standard") of Chapter 9 would not be affected by this legislation.

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