IV. Environmental Impact Analysis

E. Greenhouse Gas Emissions

1. Introduction

This section of the Draft EIR provides a discussion of global climate change, existing regulations pertaining to global climate change, an evaluation of the Project's consistency with plans adopted for the reduction or mitigation of greenhouse gas (GHG) emissions, an inventory of the greenhouse gas (GHG) emissions that would result from the Project, and an analysis of the potential impact of these GHGs. Calculation worksheets, assumptions, and model outputs used in the analysis are contained in Appendix C of to this Draft EIR.

2. Environmental Setting

Global climate change refers to changes in average climatic conditions on Earth as a whole, including changes in temperature, wind patterns, precipitation, and severe weather events. Global warming, a related concept, is the observed increase in average temperature of Earth's surface and atmosphere. One identified cause of global warming is an increase of GHGs in the atmosphere. GHGs are those compounds in Earth's atmosphere that play a critical role in determining Earth's surface temperature.

Earth's natural warming process is known as the "greenhouse effect." It is called the greenhouse effect because Earth and the atmosphere surrounding it are similar to a greenhouse with glass panes in that the glass allows solar radiation (sunlight) into Earth's atmosphere but prevents radiative heat from escaping, thus warming Earth's atmosphere. Some levels of GHGs keep the average surface temperature of Earth close to a hospitable 60 degrees Fahrenheit. However, it is believed that excessive concentrations of anthropogenic GHGs in the atmosphere can result in increased global mean temperatures, with associated adverse climatic and ecological consequences.¹

Scientists studying the particularly rapid rise in global temperatures have determined that human activity has resulted in increased emissions of GHGs, primarily from the burning of fossil fuels (from motor vehicle travel, electricity generation, consumption of

¹ USEPA, Climate Change: Basic Information, https://19january2017snapshot.epa.gov/climatechange/climate-change-basic-information_.html, accessed January 17, 2020.

natural gas, industrial activity, manufacturing, etc.), deforestation, agricultural activity, and the decomposition of solid waste. Scientists refer to the global warming context of the past century as the "enhanced greenhouse effect" to distinguish it from the natural greenhouse effect.²

Global GHG emissions due to human activities have grown since pre-industrial times. As reported by the United States Environmental Protection Agency (USEPA), global carbon emissions from fossil fuels increased by over 16 times between 1900 and 2008 and by about 1.5 times between 1990 and 2008. In addition, in the Global Carbon Budget 2014 report, published in September 2014, atmospheric carbon dioxide (CO₂) concentrations in 2013 were found to be 43 percent above the concentration at the start of the Industrial Revolution, and the present concentration is the highest during at least the last 800,000 years.³ Global increases in CO₂ concentrations are due primarily to fossil fuel use, with land use change providing another significant but smaller contribution. With regard to emissions of non-CO₂ GHG, these have also increased significantly since 1990.⁴ In particular, studies have concluded that it is very likely that the observed increase in methane (CH₄) concentration is predominantly due to agriculture and fossil fuel use.⁵

In August 2007, international climate talks held under the auspices of the United Nations Framework Convention on Climate Change (UNFCCC) led to the official recognition by the participating nations that global emissions of GHG must be reduced. According to the "Ad Hoc Working Group on Further Commitments of Annex I Parties under the Kyoto Protocol," avoiding the most catastrophic events forecast by the United Nations Intergovernmental Panel on Climate Change (IPCC) would entail emissions reductions by industrialized countries in the range of 25 to 40 percent below 1990 levels. Because of the Kyoto Protocol's Clean Development Mechanism, which gives industrialized countries credit for financing emission-reducing projects in developing countries, such an emissions goal in industrialized countries could ultimately spur efforts to cut emissions in developing countries as well.⁶

Pew Center on Global Climate Change, Climate Change 101: Understanding and Responding to Global Climate Change.

³ C. Le Quéré, et al., <u>Global Carbon Budget 2014</u>, (Earth System Science Data, 2015, doi:10.5194/essd-7-47-2015).

⁴ USEPA, Global Greenhouse Gas Emissions Data, www.epa.gov/ghgemissions/global-greenhouse-gasemissions-data, accessed January 17, 2020.

⁵ USEPA, Atmospheric Concentrations of Greenhouse Gas, updated June 2015.

⁶ United Nations Framework Convention on Climate Change, Press Release—Vienna UN Conference Shows Consensus on Key Building Blocks for Effective International Response to Climate Change, August 31, 2007.

With regard to the adverse effects of global warming, as reported by the Southern California Association of Governments (SCAG):

Global warming poses a serious threat to the economic well-being, public health and natural environment in southern California and beyond. The potential adverse impacts of global warming include, among others, a reduction in the quantity and quality of water supply, a rise in sea level, damage to marine and other ecosystems, and an increase in the incidences of infectious diseases. Over the past few decades, energy intensity of the national and state economy has been declining due to the shift to a more service-oriented economy. California ranked fifth lowest among the states in CO₂ emissions from fossil fuel consumption per unit of Gross State Product. However, in terms of total CO₂ emissions, California is second only to Texas in the nation and is the 12th largest source of climate change emissions in the world, exceeding most nations. The SCAG region, with close to half of the state's population and economic activities, is also a major contributor to the global warming problem.⁷

a. GHG Background

GHGs include carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), sulfur hexafluoride (SF₆), and nitrogen trifluoride (NF₃).⁸ Carbon dioxide is the most abundant GHG. Other GHGs are less abundant, but have higher global warming potential than CO₂. Thus, emissions of other GHGs are frequently expressed in the equivalent mass of CO₂, denoted as CO₂e. Forest fires, decomposition, industrial processes, landfills, and consumption of fossil fuels for power generation, transportation, heating, and cooking are the primary sources of GHG emissions. A general description of specific GHGs is provided in Table IV.E-1 on page IV.E-4.

Global Warming Potentials (GWPs) are one type of simplified index based upon radiative properties used to estimate the potential future impacts of emissions of different gases upon the climate system. GWP is based on a number of factors, including the radiative efficiency (heat-absorbing ability) of each gas relative to that of CO₂, as well as the decay rate of each gas (the amount removed from the atmosphere over a given number of years) relative to that of CO₂. The larger the GWP, the more that a given gas warms the Earth compared to CO₂ over that time period. A summary of the atmospheric

SCAG, The State of the Region—Measuring Regional Progress, December 2006, p. 121.

⁸ As defined by California Assembly Bill (AB) 32 and Senate Bill (SB) 104.

Table IV.E-1 Description of Identified GHGs^a

Greenhouse Gas	General Description
Carbon Dioxide (CO ₂)	An odorless, colorless GHG, which has both natural and anthropocentric sources. Natural sources include the following: decomposition of dead organic matter; respiration of bacteria, plants, animals, and fungus; evaporation from oceans; and volcanic outgassing. Anthropogenic (human caused) sources of CO ₂ are burning coal, oil, natural gas, and wood.
Methane (CH₄)	A flammable gas and is the main component of natural gas. When one molecule of CH_4 is burned in the presence of oxygen, one molecule of CO_2 and two molecules of water are released. A natural source of CH_4 is the anaerobic decay of organic matter. Geological deposits, known as natural gas fields, also contain CH_4 , which is extracted for fuel. Other sources are from landfills, fermentation of manure, and cattle.
Nitrous Oxide (N₂O)	A colorless GHG. High concentrations can cause dizziness, euphoria, and sometimes slight hallucinations. N_2O is produced by microbial processes in soil and water, including those reactions which occur in fertilizer containing nitrogen. In addition to agricultural sources, some industrial processes (fossil fuel-fired power plants, nylon production, nitric acid production, and vehicle emissions) also contribute to its atmospheric load. It is used in rocket engines, race cars, and as an aerosol spray propellant.
Hydrofluorocarbons (HFCs)	Chlorofluorocarbons (CFCs) are gases formed synthetically by replacing all hydrogen atoms in CH_4 or ethane (C_2H_6) with chlorine and/or fluorine atoms. CFCs are non-toxic, non-flammable, insoluble, and chemically unreactive in the troposphere (the level of air at Earth's surface). CFCs were first synthesized in 1928 for use as refrigerants, aerosol propellants, and cleaning solvents. Because they destroy stratospheric ozone, the production of CFCs was stopped as required by the Montreal Protocol in 1987. HFCs are synthetic man-made chemicals that are used as a substitute for CFCs as refrigerants. HFCs deplete stratospheric ozone, but to a much lesser extent than CFCs.
Perfluorocarbons (PFCs)	PFCs have stable molecular structures and do not break down through the chemical processes in the lower atmosphere. High-energy ultraviolet rays about 60 kilometers above Earth's surface are able to destroy the compounds. PFCs have very long lifetimes, between 10,000 and 50,000 years. Two common PFCs are tetrafluoromethane and hexafluoroethane. The two main sources of PFCs are primary aluminum production and semi-conductor manufacturing.
Sulfur Hexafluoride (SF ₆)	An inorganic, odorless, colorless, non-toxic, and non-flammable gas. SF_6 is used for insulation in electric power transmission and distribution equipment, in the magnesium industry, in semi-conductor manufacturing, and as a tracer gas for leak detection.
Nitrogen Trifluoride (NF ₃)	An inorganic, non-toxic, odorless, non-flammable gas. NF_3 is used in the manufacture of semi-conductors, as an oxidizer of high energy fuels, for the preparation of tetrafluorohydrazine, as an etchant gas in the electronic industry, and as a fluorine source in high power chemical lasers.

^a GHGs identified in this table are ones identified in the Kyoto Protocol and other synthetic gases recently added to the IPCC's Fifth Assessment Report.

Source: Association of Environmental Professionals, Alternative Approaches to Analyze Greenhouse Gas Emissions and Global Climate Change in CEQA Documents, Final, June 29, 2007; Environmental Protection Agency, Acute Exposure Guideline Levels (AEGLs) for Nitrogen Trifluoride; January 2009.

lifetime and GWP of selected gases is presented in Table IV.E-2 on page IV.E-6.⁹ As indicated below, GWPs range from 1 to 22,800.

b. Projected Impacts of Global Warming in California

In 2009, California adopted a statewide Climate Adaptation Strategy (CAS) that summarizes climate change impacts and recommends adaptation strategies across seven sectors: Public Health, Biodiversity and Habitat, Oceans and Coastal Resources, Water, Agriculture, Forestry, and Transportation and Energy. The California Natural Resources Agency will be updating the CAS and be responsible for preparing reports to the Governor on the status of the CAS. The Natural Resources Agency has produced climate change assessments which detail impacts of global warming in California.¹⁰ These include:

- Sea level rise, coastal flooding and erosion of California's coastlines would increase, as well as sea water intrusion.
- The Sierra snowpack would decline between 70 and 90 percent, threatening California's water supply.
- Higher risk of forest fires resulting from increasing temperatures and making forests and brush drier. Climate change will affect tree survival and growth.
- Attainment of air quality standards would be impeded by increasing emissions, accelerating chemical processes, and raising inversion temperatures during stagnation episodes resulting in public health impacts.
- Habitat destruction and loss of ecosystems due to climate change affecting plant and wildlife habitats.
- Global warming can cause drought, warmer temperatures and salt water contamination resulting in impacts to California's agricultural industry.

With regard to public health, as reported by the Center for Health and the Global Environment at the Harvard Medical School, the following are examples of how climate change can affect cardio-respiratory disease: (1) pollen is increased by higher levels of atmospheric CO₂; (2) heat waves can result in temperature inversions, leading to trapped

Atmospheric lifetime is defined as the time required to turn over the global Atmospheric burden. Source: Intergovernmental Panel on Climate Change, IPCC Third Assessment Report: Climate Change 2001 (TAR), Chapter 4: Atmospheric Chemistry and Greenhouse Gases, 2001, p. 247.

State of California, Department of Justice, Office of the Attorney General, Climate Change Impacts in California, https://oag.ca.gov/environment/impact, accessed January 17, 2020.

Table IV.E-2
Atmospheric Lifetimes and Global Warming Potentials

Gas	Atmospheric Lifetime (years)	Global Warming Potential (100-year time horizon)		
Carbon Dioxide (CO ₂)	50–200	1		
Methane (CH ₄)	12 (+/-3)	25		
Nitrous Oxide (N ₂ O)	114	298		
HFC-23: Fluoroform (CHF ₃)	270	14,800		
HFC-134a: 1,1,1,2-Tetrafluoroethane (CH ₂ FCF ₃)	14	1,430		
HFC-152a: 1,1-Difluoroethane (C ₂ H ₄ F ₂)	1.4	124		
PFC-14: Tetrafluoromethane (CF ₄)	50,000	7,390		
PFC-116: Hexafluoroethane (C ₂ F ₆)	10,000	12,200		
Sulfur Hexafluoride (SF ₆)	3,200	22,800		
Nitrogen Trifluoride (NF ₃)	740	17,200		

Source: IPCC, Climate Change 2007: Working Group I: The Physical Science Basis, Direct Global Warming Potentials.

masses or unhealthy air contaminants by smog, particulates, and other pollutants; and (3) the incidence of forest fires is increased by drought secondary to climate change and to the lack of spring runoff from reduced winter snows. These fires can create smoke and haze, which can settle over urban populations causing acute and exacerbating chronic respiratory illness.¹¹

c. Regulatory Framework

In response to growing scientific and political concern with global climate change, federal and state entities have adopted a series of laws to reduce emissions of GHGs to the atmosphere.

(1) Federal

(a) Federal Clean Air Act

The United States Supreme Court (Supreme Court) ruled in *Massachusetts v. Environmental Protection Agency*, 127 S.Ct. 1438 (2007), that CO₂ and other GHGs are

Paul R. Epstein, et al., Urban Indicators of Climate Change, Report from the Center for Health and the Global Environment, (Harvard Medical School and the Boston Public Health Commission, August 2003), unpaginated.

pollutants under the federal Clean Air Act (CAA), which the USEPA must regulate if it determines they pose an endangerment to public health or welfare. The Supreme Court did not mandate that the USEPA enact regulations to reduce GHG emissions. Instead, the Court found that the USEPA could avoid taking action if it found that GHGs do not contribute to climate change or if it offered a "reasonable explanation" for not determining that GHGs contribute to climate change.

On April 17, 2009, the USEPA issued a proposed finding that GHGs contribute to air pollution that may endanger public health or welfare. On April 24, 2009, the proposed rule was published in the Federal Register under Docket ID No. EPA-HQ-OAR-2009-0171. The USEPA stated that high atmospheric levels of GHGs "are the unambiguous result of human emissions, and are very likely the cause of the observed increase in average temperatures and other climatic changes." The USEPA further found that "atmospheric concentrations of greenhouse gases endanger public health and welfare within the meaning of Section 202 of the Clean Air Act." The findings were signed by the USEPA Administrator on December 7, 2009. The final findings were published in the Federal Register on December 15, 2009. The final rule was effective on January 14, 2010. While these findings alone do not impose any requirements on industry or other entities, this action is a prerequisite to regulatory actions by the USEPA, including, but not limited to, GHG emissions standards for light-duty vehicles.

On July 20, 2011, the USEPA published its final rule deferring GHG permitting requirements for CO₂ emission from biomass-fired and other biogenic sources until July 21, 2014. Environmental groups have challenged the deferral. In September 2011, USEPA released an "Accounting Framework for Biogenic CO₂ Emissions from Stationary Sources," which analyzes accounting methodologies and suggests implementation for biogenic CO₂ emitted from stationary sources.

On April 4, 2012, USEPA published a proposed rule to establish, for the first time, a new source performance standard for GHG emissions. Under the proposed rule, new fossil fuel–fired electric generating units larger than 25 megawatts (MW) are required to limit emissions to 1,000 pounds of CO₂ per megawatt-hour (CO₂/MWh) on an average annual basis, subject to certain exceptions.

On April 17, 2012, the USEPA issued emission rules for oil production and natural gas production and processing operations, which are required by the CAA under Title 40 of the Code of Federal Regulations (CFR), Parts 60 and 63. The final rules include the first

USEPA, Endangerment and Cause or Contribute Findings for Greenhouse Gases Under Section 202(a) of the Clean Air Act, Final Rule.

federal air standards for natural gas wells that are hydraulically fractured, along with requirements for several other sources of pollution in the oil and gas industry that currently are not regulated at the federal level.¹³

(b) Corporate Average Fuel Economy (CAFE) Standards

In response to the *Massachusetts v. Environmental Protection Agency* ruling, President George W. Bush issued Executive Order 13432 in 2007, directing the USEPA, the United States Department of Transportation (USDOT), and the United States Department of Energy (USDOE) to establish regulations that reduce GHG emissions from motor vehicles, non-road vehicles, and non-road engines by 2008. In 2009, the National Highway Traffic Safety Administration (NHTSA) issued a final rule regulating fuel efficiency for and GHG emissions from cars and light-duty trucks for model year 2011; in 2010, the USEPA and NHTSA issued a final rule regulating cars and light-duty trucks for model years 2012–2016.

In 2010, President Barack Obama issued a memorandum directing the USEPA, USDOT, USDOE, and NHTSA to establish additional standards regarding fuel efficiency and GHG reduction, clean fuels, and advanced vehicle infrastructure. In response to this directive, the USEPA and NHTSA proposed stringent, coordinated federal GHG and fuel economy standards for model years 2017-2025 light-duty vehicles. standards are projected to achieve 163 grams/mile of CO2 in model year 2025, on an average industry fleet-wide basis, which is equivalent to 54.5 miles per gallon (mpg) if the standards were achieved solely through fuel efficiency. The final rule was adopted in 2012 for model years 2017-2021, and NHTSA intends to set standards for model years 2022-2025 in a future rulemaking. On April 2, 2018, the USEPA signed the Mid-term Evaluation Final Determination which finds that the model year 2022–2025 greenhouse gas standards are not appropriate and should be revised. 14 This Final Determination serves to initiate a notice to further consider appropriate standards for model year 2022-2025 light duty vehicles. On August 24, 2018, the USEPA and NHTSA published a proposal to freeze the model year 2020 standards through model year 2026 and to revoke California's waiver under the Clean Air Act to establish more stringent standards. 15

¹³ USEPA, 2012 Final Rules for Oil and Natural Gas Industry, April 17, 2012, www.epa.gov/controlling-air-pollution-oil-and-natural-gas-industry/2012-final-rules-oil-and-natural-gas-industry, accessed January 17, 2020.

Federal Register, Mid-Term Evaluation of Greenhouse Gas Emissions Standards for Model Year 2022–2025 Light-Duty Vehicles, www.federalregister.gov/documents/2018/04/13/2018-07364/mid-term-evaluation-of-greenhouse-gas-emissions-standards-for-model-year-2022-2025-light-duty, accessed January 17, 2020.

Proposed Rule: The Safer Affordable Fuel-Efficient Vehicles Rule for Model Years 2021–2026 Passenger Cars and Light Trucks, www.regulations.gov/document?D=EPA-HQ-OAR-2018-0283-0756, accessed January 17, 2020.

In addition to the regulations applicable to cars and light-duty trucks described above, in 2011 the USEPA and NHTSA announced fuel economy and GHG standards for medium- and heavy-duty trucks for model years 2014–2018. The standards for CO₂ emissions and fuel consumption are tailored to three main vehicle categories: combination tractors, heavy-duty pickup trucks and vans, and vocational vehicles. According to the USEPA, this regulatory program would reduce GHG emissions and fuel consumption for the affected vehicles by 6 to 23 percent over the 2010 baselines.¹⁶

Building on success of the first phase of standards, in August 2016, EPA and NHTSA finalized Phase 2 standards for medium and heavy-duty vehicles through model year 2027 that will improve fuel efficiency and cut carbon pollution. The Phase 2 standards are expected to lower CO2 emissions by approximately 1.1 billion metric tons and save vehicle owners fuel costs of about \$170 billion.¹⁷ As discussed above, the USEPA is currently in the process of reevaluating the greenhouse gas standards for model year 2022–2025 light-duty vehicles.

(c) Energy Independence and Security Act

The Energy Independence and Security Act of 2007 (EISA) facilitates the reduction of national GHG emissions by requiring the following:

- Increasing the supply of alternative fuel sources by setting a mandatory Renewable Fuel Standard (RFS) that requires fuel producers to use at least 36 billion gallons of biofuel in 2022;
- Prescribing or revising standards affecting regional efficiency for heating and cooling products, procedures for new or amended standards, energy conservation, energy efficiency labeling for consumer electronic products, residential boiler efficiency, electric motor efficiency, and home appliances;
- Requiring approximately 25 percent greater efficiency for light bulbs by phasing out incandescent light bulbs between 2012 and 2014; requiring approximately 200 percent greater efficiency for light bulbs, or similar energy savings, by 2020; and
- While superseded by the USEPA and NHTSA actions described above,
 (i) establishing miles per gallon targets for cars and light trucks and (ii) directing

The emission reductions attributable to the regulations for medium- and heavy-duty trucks were not included in the Project's emissions inventory due to the difficulty in quantifying the reductions. Excluding these reductions results in a more conservative (i.e., higher) estimate of emissions for the Project.

¹⁷ U.S. EPA, EPA and NHTSA Adopt Standards to Reduce GHG and Improve Fuel Efficiency of Mediumand Heavy-Duty Vehicles for Model Year 2018 and Beyond, August 2016.

the NHTSA to establish a fuel economy program for medium- and heavy-duty trucks and create a separate fuel economy standard for trucks.

Additional provisions of EISA address energy savings in government and public institutions, promote research for alternative energy, additional research in carbon capture, international energy programs, and the creation of "green jobs."¹⁸

(2) State

(a) Executive Order S-3-05, Executive Order B-30-15, and Executive Order B-55-18

Executive Order S-3-05, issued by Governor Schwarzenegger in June 2005, established GHG emissions targets for the state, as well as a process to ensure the targets are met. The order directed the Secretary for the California Environmental Protection Agency (CalEPA) to report every two years on the state's progress toward meeting the Governor's GHG emission reduction targets. The statewide GHG targets established by Executive Order S-3-05 are as follows:

- By 2010, reduce to 2000 emission levels;¹⁹
- By 2020, reduce to 1990 emission levels; and
- By 2050, reduce to 80 percent below 1990 levels.

Executive Order B-30-15, issued by Governor Brown in April 2015, established an additional statewide policy goal to reduce GHG emissions 40 percent below their 1990 levels by 2030. Reducing GHG emissions by 40 percent below 1990 levels in 2030 and by 80 percent below 1990 levels by 2050 (consistent with Executive Order S-3-05) aligns with scientifically established levels needed in the U.S. to limit global warming below 2 degrees Celsius.²⁰

The State Legislature adopted equivalent 2020 and 2030 statewide targets in Assembly Bill (AB) 32 and SB 32, respectively, both of which are discussed below.

A green job, as defined by the United States Department of Labor, is a job in business that produces goods or provides services that benefit the environment or conserve natural resources.

The 2010 target to reduce GHG emissions to 2000 levels was not met. Source: Rubin, Thomas A.," Does California Really Need Major Land Use and Transportation Changes to Meet Greenhouse Gas Emissions Targets?," July 3, 2013.

²⁰ CARB, Frequently Asked Questions about Executive Order B-30-15, 2030 Carbon Target and Adaptation FAQs, April 29, 2015.

However, the Legislature has not yet adopted a target for the 2050 horizon year. As a result of Executive Order S-3-05, the California Climate Action Team (CAT), led by the Secretary of CalEPA, was formed. The CAT is made up of representatives from a number of state agencies and was formed to implement global warming emission reduction programs and to report on the progress made toward meeting statewide targets established under Executive Order S-3-05. The CAT reported several recommendations and strategies for reducing GHG emissions and reaching the targets established in Executive Order S-3-05.²¹

The CAT stated that smart land use is an umbrella term for strategies that integrate transportation and land-use decisions. Such strategies generally encourage jobs/housing proximity, promote transit-oriented development (TOD), and encourage high-density residential/commercial development along transit corridors. These strategies develop more efficient land-use patterns within each jurisdiction or region to match population increases, workforce, and socioeconomic needs for the full spectrum of the population. "Intelligent transportation systems" refers to the application of advanced technology systems and management strategies to improve operational efficiency of transportation systems and the movement of people, goods, and service.²²

Executive Order B-55-18, issued by Governor Brown in September 2018, establishes a new statewide goal to achieve carbon neutrality as soon as possible, but no later than 2045, and achieve and maintain net negative emissions thereafter. Based on this executive order, the California Air Resources Board (CARB) would work with relevant state agencies to develop a framework for implementation and accounting that tracks progress towards this goal as well as ensuring future scoping plans identify and recommend measures to achieve the carbon neutrality goal.

(b) Assembly Bill 32 (California Global Warming Solutions Act of 2006) and Senate Bill 32

AB 32, the California Global Warming Solutions Act of 2006, commits the state to achieving the following:

• By 2010, reduce to 2000 GHG emission levels;²³ and

²¹ CalEPA, Climate Action Team Report to Governor Schwarzenegger and the Legislature, March 2006.

²² CalEPA, Climate Action Team Report to Governor Schwarzenegger and the Legislature, March 2006, p. 58.

The 2010 target to reduce GHG emissions to 2000 levels was not met. Source: Rubin, Thomas A., "Does California Really Need Major Land Use and Transportation Changes to Meet Greenhouse Gas Emissions Targets?," July 3, 2013.

By 2020, reduce to 1990 levels.

To achieve these goals, which are consistent with the California CAT GHG targets for 2010 and 2020, AB 32 mandates that CARB establish a quantified emissions cap, institute a schedule to meet the cap, implement regulations to reduce statewide GHG emissions from stationary sources consistent with the CAT strategies, and develop tracking, reporting, and enforcement mechanisms to ensure that reductions are achieved. In order to achieve the reduction targets, AB 32 requires CARB to adopt rules and regulations in an open public process that achieve the maximum technologically feasible and cost-effective GHG reductions.²⁴

Senate Bill (SB) 32, signed September 8, 2016, updates AB 32 to include an emissions reduction goal for the year 2030, consistent with Executive Order B-30-15. Specifically, SB 32 requires CARB to ensure that statewide GHG emissions are reduced to 40 percent below the 1990 levels by 2030. The new plan, outlined in SB 32, involves increasing renewable energy use, imposing tighter limits on the carbon content of gasoline and diesel fuel, putting more electric cars on the road, improving energy efficiency, and curbing emissions from key industries.

(c) Climate Change Scoping Plan

In 2008, CARB approved a *Climate Change Scoping Plan* (referred to herein as the 2008 Climate Change Scoping Plan), as required by AB 32.²⁵ Subsequently, CARB approved updates to the *2008 Climate Change Scoping Plan* in 2014 (First Update) and 2017 (2017 Update), with the 2017 Update considering SB 32 (adopted in 2016) in addition to AB 32.

The 2008 Climate Change Scoping Plan proposes a "comprehensive set of actions designed to reduce overall carbon GHG emissions in California, improve our environment, reduce our dependence on oil, diversify our energy sources, save energy, create new jobs, and enhance public health."²⁶ The 2008 Climate Change Scoping Plan has a range of GHG reduction actions which include direct regulations, alternative compliance mechanisms, monetary and non-monetary incentives, voluntary actions, market-based

CARB's list of discrete early action measures that could be adopted and implemented before January 1, 2010, was approved on June 21, 2007. The three adopted discrete early action measures are: (1) a low-carbon fuel standard, which reduces carbon intensity in fuels statewide; (2) reduction of refrigerant losses from motor vehicle air conditioning system maintenance; and (3) increased methane capture from landfills, which includes requiring the use of state-of-the-art capture technologies.

²⁵ Climate Change Proposed Scoping Plan was approved by CARB on December 11, 2008.

²⁶ CARB, Climate Change Scoping Plan, December 2008.

mechanisms, such as a cap-and-trade system, and an AB 32 implementation fee to fund the program.

The 2008 Climate Change Scoping Plan calls for a "coordinated set of solutions" to address all major categories of GHG emissions. Transportation emissions were addressed through a combination of higher standards for vehicle fuel economy, implementation of the Low Carbon Fuel Standard (LCFS), and greater consideration to reducing trip length and generation through land use planning and transit-oriented development. Buildings, land use, and industrial operations were encouraged and, sometimes, required to use energy more efficiently. Utility energy providers were required to include more renewable energy sources through implementation of the Renewables Portfolio Standard.²⁷ Additionally, the 2008 Climate Change Scoping Plan emphasizes opportunities for households and businesses to save energy and money through increasing energy efficiency. It indicates that substantial savings of electricity and natural gas will be accomplished through "improving energy efficiency by 25 percent."

The 2008 Climate Change Scoping Plan identifies a number of specific issues relevant to the Project, including:

 The potential of using the green building framework as a mechanism, which could enable GHG emissions reductions in other sectors (i.e., electricity, natural gas), noting that:

A Green Building strategy will produce greenhouse gas savings through buildings that exceed minimum energy efficiency standards, decrease consumption of potable water, reduce solid waste during construction and operation, and incorporate sustainable materials. Combined, these measures can also contribute to healthy indoor air quality, protect human health, and minimize impacts to the environment.

 The importance of supporting the Department of Water Resources' work to implement the Governor's objective to reduce per capita water use by 20 percent by 2020. Specific measures to achieve this goal include water use efficiency, water recycling, and reuse of urban runoff. The Climate Change Scoping Plan notes that water use requires significant amounts of energy, including approximately one-fifth of statewide electricity.

For a discussion of Renewables Portfolio Standard, refer to subsection 2(h)i, California Renewables Portfolio Standard.

• Encouraging local governments to set quantifiable emission reduction targets for their jurisdictions and use their influence and authority to encourage reductions in emissions caused by energy use, waste and recycling, water and wastewater systems, transportation, and community design.

Forecasting the amount of emissions that would occur in 2020 if no actions are taken was necessary to assess the scope of the reductions California has to make to return to the 1990 emissions level by 2020 as required by AB 32. CARB originally defined the "business-as-usual" or BAU scenario as emissions in the absence of any GHG emission reduction measures discussed in the 2008 Climate Change Scoping Plan. For example, in further explaining CARB's BAU methodology, CARB assumed that all new electricity generation would be supplied by natural gas plants, no further regulatory action would impact vehicle fuel efficiency, and building energy efficiency codes would be held at 2005 standards. In the 2008 Climate Change Scoping Plan, CARB determined that achieving the 1990 emissions level in 2020 would require a reduction in GHG emissions of approximately 28.5 percent from the otherwise projected 2020 emissions level (i.e., those emissions that would occur in 2020, absent GHG-reducing laws and regulations).²⁸

Subsequent to adoption of the 2008 Climate Change Scoping Plan, a lawsuit was filed challenging CARB's approval of the *Climate Change Scoping Plan Functional Equivalent Document (FED to the Climate Change Scoping Plan)*. On May 20, 2011 (Case No. CPF-09-509562), the Court found that the environmental analysis of the alternatives in the *FED to the Climate Change Scoping Plan* was not sufficient under the California Environmental Quality Act (CEQA). CARB staff prepared a revised and expanded environmental analysis, and the *Supplemental FED to the Climate Change Scoping Plan* was approved on August 24, 2011 (Supplemental FED). The Supplemental FED indicated that there is the potential for adverse environmental impacts associated with implementation of the various GHG emission reduction measures recommended in the 2008 Climate Change Scoping Plan.

As part of the Supplemental FED, CARB updated the projected 2020 BAU emissions inventory based on current economic forecasts (i.e., as influenced by the economic downturn) and emission reduction measures already in place, replacing its prior 2020 BAU emissions inventory. CARB staff derived the updated emissions estimates by projecting emissions growth, by sector, from the State's average emissions from 2006 through 2008. Specific emission reduction measures included are the million-solar-roofs program, the AB 1493 (Pavley I) motor vehicle GHG emission standards, and the LCFS.²⁹

Hollywood & Wilcox
Draft Environmental Impact Report

²⁸ CARB, Climate Change Scoping Plan: A Framework for Change, p. 12, December 2008.

Pavley I are the first GHG standards in the nation for passenger vehicles and took effect for model years starting in 2009 to 2016. Pavley I could potentially result in 27.7 million metric tons CO₂e reduction in (Footnote continued on next page)

In addition, CARB also factored into the 2020 BAU inventory emissions reductions associated with 33-percent Renewable Energy Portfolio Standard (RPS) for electricity generation. Based on the new economic data, CARB determined that achieving the 1990 emissions level by 2020 would require a reduction in GHG emissions of 21.7 percent (down from 28.5 percent) from BAU conditions. When the 2020 emissions level projection also was updated to account for newly implemented regulatory measures discussed above, CARB determined that achieving the 1990 emissions level in 2020 would require a reduction in GHG emissions of 16 percent (down from 28.5 percent) from the BAU conditions.^{30,31}

In 2014, CARB adopted the First Update.³² The stated purpose of the First Update was to "highlight... California's success to date in reducing its GHG emissions and lay... the foundation for establishing a broad framework for continued emission reductions beyond 2020, on the path to 80 percent below 1990 levels by 2050."³³ The First Update found that California is on track to meet the 2020 emissions reduction mandate established by AB 32 and noted that California could reduce emissions further by 2030 to levels squarely in line with those needed to stay on track to reduce emissions to 80 percent below 1990 levels by 2050 if the State realizes the expected benefits of existing policy goals.³⁴

In conjunction with the First Update, CARB identified "six key focus areas comprising major components of the State's economy to evaluate and describe the larger transformative actions that will be needed to meet the State's more expansive emission reduction needs by 2050."³⁵ Those six areas are: (1) energy; (2) transportation (vehicles/equipment, sustainable communities, housing, fuels, and infrastructure); (3) agriculture; (4) water; (5) waste management; and (6) natural and working lands. The First Update identifies key recommended actions for each sector that will facilitate achievement of the 2050 reduction target.

Hollywood & Wilcox
Draft Environmental Impact Report

City of Los Angeles February 2020

^{2020.} Pavley II will cover model years 2017 to 2025 and potentially result in an additional reduction of 4.1 million metric tons CO₂e.

³⁰ CARB, Supplement to the AB 32 Scoping Plan FED, Table 1.2-2.

The emissions and reductions estimates found in the Supplemental FED to the Climate Change Scoping Plan fully replace the estimates published in the 2008 Climate Change Scoping Plan. See CARB, Resolution 11-27 (Aug. 24, 2011) (setting aside approval of 2008 Climate Change Scoping Plan and associated emissions forecasts and approving the Supplemental FED). The estimates in the 2008 document are 596 million metric tons CO₂e under 2020 BAU and a required reduction of 169 million metric tons CO₂e (28.4 percent).

³² Health & Safety Code Section 38561(h) requires CARB to update the Scoping Plan every five years.

³³ CARB, 2014 Update, May 2014, p. 4.

³⁴ CARB, 2014 Update, May 2014, p. 34.

³⁵ CARB, 2014 Update, May 2014, p. 6.

Based on CARB's research efforts, it has a "strong sense of the mix of technologies needed to reduce emissions through 2050." Those technologies include energy demand reduction through efficiency and activity changes; large-scale electrification of on-road vehicles, buildings and industrial machinery; decarbonizing electricity and fuel supplies; and the rapid market penetration of efficient and clean energy technologies.

The First Update discusses new residential and commercial building energy efficiency improvements, specifically identifying progress towards zero net energy buildings as an element of meeting mid-term and long-term GHG reduction goals. The First Update expresses CARB's commitment to working with the California Public Utilities Commission (CPUC) and California Energy Commission (CEC) to facilitate further achievements in building energy efficiency.

In December 2017, CARB adopted the 2017 Update. The 2017 Update builds upon the successful framework established by the 2008 Climate Change Scoping Plan and the First Update while identifying new, technologically feasible, and cost-effective strategies to ensure that California meets its GHG reduction targets in a way that promotes and rewards innovation, continues to foster economic growth, and delivers improvements to the environment and public health. The 2017 Update includes policies to require direct GHG reductions at some of the State's largest stationary sources and mobile sources. These policies include the use of lower GHG fuels, efficiency regulations, and the Cap-and-Trade program, which constraints and reduces emissions at covered sources.³⁷

(d) Assembly Bill 197

AB 197, signed September 8, 2016, is a bill linked to SB 32, which prioritizes efforts to cut GHG emissions in low-income or minority communities. AB 197 requires CARB to make available, and update at least annually, on its Internet Web site, the emissions of greenhouse gases, criteria pollutants, and toxic air contaminants for each facility that reports to CARB and air districts. In addition, AB 197 adds two Members of the Legislature to the CARB board as ex officio, non-voting members and also creates the Joint Legislative Committee on Climate Change Policies to ascertain facts and make recommendations to the Legislature and the houses of the Legislature concerning the state's programs, policies, and investments related to climate change.

³⁶ CARB, 2014 Update, May 2014, p. 32.

³⁷ CARB, 2017 Update, November 2017, p. 6.

(e) Cap-and-Trade Program

The 2008 Climate Change Scoping Plan identifies a cap-and-trade program as one of the strategies for California to reduce GHG emissions. Under cap-and-trade, an overall limit on GHG emissions from capped sectors is established, and facilities subject to the cap will be able to trade permits to emit GHGs within the overall limit. According to CARB, a cap-and-trade program will help put California on the path to meet its goal of reducing GHG emissions to 1990 levels by the year 2020.³⁸ CARB adopted a California Cap-and-Trade Program pursuant to its authority under AB 32 and the State Legislature extended the Program through 2030 with the adoption of Assembly Bill 398.

The Cap-and-Trade Program is designed to reduce GHG emissions from major sources, such as refineries and power plants, (deemed "covered entities"). "Covered entities" subject to the Cap-and-Trade Program are sources that emit more than 25,000 metric tons CO₂e (MTCO₂e) per year. Triggering of the 25,000 MTCO₂e per year "inclusion threshold" is measured against a subset of emissions reported and verified under the California Regulation for the Mandatory Reporting of Greenhouse Gas Emissions (Mandatory Reporting Rule or MRR).

Under the Cap-and-Trade Program, CARB issues allowances equal to the total amount of allowable emissions over a given compliance period and distributes these to regulated entities. Covered entities are allocated free allowances in whole or in part (if eligible) and may buy allowances at auction, purchase allowances from others, or purchase offset credits. Each covered entity with a compliance obligation is required to surrender an allowance for each metric ton CO₂e of GHG they emit.

The Cap-and-Trade Program provides a firm cap, ensuring that the 2020 statewide emission limit will not be exceeded. An inherent feature of the Cap-and-Trade program is that it does not guarantee GHG emissions reductions in any discrete location or by any particular source. Rather, GHG emissions reductions are only guaranteed on a cumulative basis. As summarized by CARB in the First Update:

The Cap-and-Trade Regulation gives companies the flexibility to trade allowances with others or take steps to cost-effectively reduce emissions at their own facilities. Companies that emit more have to turn in more allowances or other compliance instruments. Companies that can cut their

With continuation of the Cap-and-Trade Program, the State can achieve a 40-percent reduction target by 2030.

GHG emissions have to turn in fewer allowances. But as the cap declines, aggregate emissions must be reduced.³⁹

For example, a covered entity theoretically could increase its GHG emissions every year and still comply with the Cap-and-Trade Program if there is a commensurate reduction in GHG emissions from other covered entities. Such a focus on aggregate GHG emissions is considered appropriate because climate change is a global phenomenon, and the effects of GHG emissions are considered cumulative.

The Cap-and-Trade Program works with other direct regulatory measures and provides an economic incentive to reduce emissions. If California's direct regulatory measures reduce GHG emissions more than expected, then the Cap-and-Trade Program will be responsible for relatively fewer emissions reductions. If California's direct regulatory measures reduce GHG emissions less than expected, then the Cap-and-Trade Program will be responsible for relatively more emissions reductions. Thus, the Cap-and-Trade Program assures that California will meet its 2020 GHG emissions reduction mandate:

The Cap-and-Trade Program establishes an overall limit on GHG emissions from most of the California economy—the "capped sectors." Within the capped sectors, some of the reductions are being accomplished through direct regulations, such as improved building and appliance efficiency standards, the [Low Carbon Fuel Standard] LCFS, and the 33 percent [Renewables Portfolio Standard] RPS. Whatever additional reductions are needed to bring emissions within the cap is accomplished through price incentives posed by emissions allowance prices. Together, direct regulation and price incentives assure that emissions are brought down cost-effectively to the level of the overall cap.⁴⁰ [...]

[T]he Cap-and-Trade Regulation provides assurance that California's 2020 limit will be met because the regulation sets a firm limit on 85 percent of California's GHG emissions.⁴¹

Overall, the Cap-and-Trade Program will achieve aggregate, rather than site-specific or project-level, GHG emissions reductions. Also, due to the regulatory framework adopted by CARB in AB 32, the reductions attributed to the Cap-and-Trade Program can change

³⁹ CARB, 2014 Update, May 2014, p. 86.

⁴⁰ CARB, 2014 Update, May 2014, p. 88.

⁴¹ CARB, 2014 Update, May 2014, pp. 86–87.

over time depending on the State's emissions forecasts and the effectiveness of direct regulatory measures.

As of January 1, 2015, the Cap-and-Trade Program covered approximately 85 percent of California's GHG emissions.⁴²

The Cap-and-Trade Program covers the GHG emissions associated with electricity consumed in California, whether generated in-state or imported. Accordingly, GHG emissions associated with CEQA projects' electricity usage are covered by the Cap-and-Trade Program. The Cap-and-Trade Program also covers fuel suppliers (natural gas and propane fuel providers and transportation fuel providers) to address emissions from such fuels and from combustion of other fossil fuels not directly covered at large sources in the Program's first compliance period. Furthermore, the Cap-and-Trade Program also covers the GHG emissions associated with the combustion of transportation fuels in California, whether refined in-state or imported. The point of regulation for transportation fuels is when they are "supplied" (i.e., delivered into commerce). Accordingly, as with stationary source GHG emissions and GHG emissions attributable to electricity use, virtually all, if not all, of GHG emissions associated with vehicle miles traveled (VMT) from CEQA projects related to fuel suppliers are covered by the Cap-and-Trade Program.

AB 398 was enacted in 2017 to extend and clarify the role of the State's Cap-and-Trade Program through December 31, 2030. As part of AB 398, refinements were made to the Cap-and-Trade program to establish updated protocols and allocation of proceeds to reduce GHG emissions.

(f) Energy-Related Sources

(i) California Renewables Portfolio Standard

The California Renewables Portfolio Standard (RPS) program (SB 1078; 2002) required that 20 percent of the available energy supplies are from renewable energy sources by 2017. In 2006, SB 107 accelerated the 20-percent mandate to 2010. These mandates apply directly to investor-owned utilities. On April 12, 2011, Governor Brown signed into law SB 2X, which modified California's RPS program to require that both public and investor-owned utilities in California receive at least 33 percent of their electricity from renewable sources by the year 2020. SB 2X also required regulated sellers of electricity to

⁴² Center for Climate and Energy Solutions, California Cap-and-Trade, www.c2es.org/content/california-cap-and-trade/, accessed January 17, 2020.

While the Cap-and-Trade Program technically covered fuel suppliers as early as 2012, they did not have a compliance obligation (i.e., they were not fully regulated) until 2015.

meet an interim milestone of procuring 25 percent of their energy supply from certified renewable resources by 2016. These levels of reduction are consistent with the Los Angeles Department of Water and Power's (LADWP) commitment to achieve 35 percent renewables by 2020.

LADWP indicated that 32 percent of its electricity came from renewable resources in year 2018, the most recent year for which data are available.⁴⁴ Therefore, under SB 2X, LADWP will increase its electricity from renewable resources by an additional 3 percent to comply with the RPS of 33 percent.

(ii) Senate Bill 350

SB 350, the Clean Energy and Pollution Reduction Act of 2015 was enacted on October 7, 2015. The objectives of SB 350 are: (1) to increase from 33 percent to 50 percent, the procurement of our electricity from renewable sources; and (2) to double the energy efficiency savings in electricity and natural gas final end uses of retail customers through energy efficiency and conservation.⁴⁵

(iii) Senate Bill 100

SB 100, signed September 10, 2018, is the 100 Percent Clean Energy Act of 2018. SB 100 updates the goals of California's RPS and SB 350, as discussed above, to the following: achieve 50-percent renewable resources target by December 31, 2026, and achieve a 60-percent target by December 31, 2030. SB 100 also requires that eligible renewable energy resources and zero-carbon resources supply 100 percent of retail sales of electricity to California end-use customers and 100 percent of electricity procured to serve all state agencies by December 31, 2045.

(iv) Senate Bill 1368

SB 1368, signed September 29, 2006, is a companion bill to AB 32 that requires the CPUC and the CEC to establish GHG emission performance standards for the generation of electricity. These standards will also generally apply to power that is generated outside of California and imported into the State. SB 1368 provides a mechanism for reducing the emissions of electricity providers, thereby assisting CARB to meet its mandate under AB 32. On January 25, 2007, the CPUC adopted an interim GHG Emissions Performance Standard, which is a facility-based emissions standard requiring that all new long-term

⁴⁴ CEC, LADWP's 2018 Power Content Label.

⁴⁵ SB 350 (2015–2016 Reg, Session) Stats 2015, ch. 547.

⁴⁶ SB 100, 2017–2018 Reg. Session Stats 2018, ch. 312.

commitments for baseload generation to serve California consumers be with power plants that have GHG emissions no greater than a combined cycle gas turbine plant. That level is established at 1,100 pounds of CO₂ per MWh. Furthermore, on May 23, 2007, the CEC adopted regulations that establish and implement an identical Emissions Performance Standard of 1,100 pounds of CO₂ per MWh (see CEC Order No. 07-523-7).

(g) Mobile Sources

(i) Assembly Bill 1493 (Pavley I)

AB 1493, passed in 2002, requires the development and adoption of regulations to achieve "the maximum feasible reduction of greenhouse gases" emitted by noncommercial passenger vehicles, light-duty trucks, and other vehicles used primarily for personal transportation in the State. CARB originally approved regulations to reduce GHGs from passenger vehicles in September 2004, with the regulations to take effect in 2009. On September 24, 2009, CARB adopted amendments to these "Pavley" regulations that reduce GHG emissions in new passenger vehicles beginning in 2009.⁴⁷ Although setting emission standards on automobiles is solely the responsibility of the USEPA, the federal CAA allows California to set state-specific emission standards on automobiles if the State first obtains a waiver from the USEPA. The USEPA granted California that waiver on July 2009. A comparison between the AB 1493 standards and the Federal CAFE standards was completed by CARB, and the analysis determined that California emission standards were 16 percent more stringent through the 2016 model year and 18 percent more stringent for the 2020 model year.⁴⁸ CARB is also committed to further strengthening these standards beginning with 2020 model year vehicles to obtain a 45-percent GHG reduction in comparison to the 2009 model year.

(ii) Executive Order S-1-07 (California Low Carbon Fuel Standard)

Executive Order S-1-07, the LCFS (issued on January 18, 2007), requires a reduction of at least 10 percent in the carbon intensity of California's transportation fuels by 2020. Regulatory proceedings and implementation of the LCFS were directed to CARB. CARB released a draft version of the LCFS in October 2008. The final regulation was approved by the Office of Administrative Law and filed with the Secretary of State on January 12, 2010; the LCFS became effective on the same day.

CARB, California's Greenhouse Gas Vehicle Emission Standards under Assembly Bill 1493 of 2002, ww2.arb.ca.gov/californias-greenhouse-gas-vehicle-emission-standards-under-assembly-bill-1493-2002-pavley, accessed January 17, 2020.

⁴⁸ CARB, "Comparison of Greenhouse Gas Reductions for all Fifty United States under CAFE Standards and CARB Regulations Adopted Pursuant to AB 1493," January 23, 2008.

The development of the 2017 Update has identified LCFS as a regulatory measure to reduce GHG emission to meet the 2030 emissions target. In calculating statewide emissions and targets, the 2017 Update has assumed the LCFS be extended to an 18-percent reduction in carbon intensity beyond 2020. On September 27, 2018, CARB approved a rulemaking package that amended the LCFS to relax the 2020 carbon intensity reduction from 10 percent to 7.5 percent and to require a carbon intensity reduction of 20 percent by 2030.

(iii) Advanced Clean Cars Regulations

In 2012, CARB approved the Advanced Clean Cars program, a new emissions-control program for model years 2015–2025.⁴⁹ The components of the Advanced Clean Cars program include the Low-Emission Vehicle (LEV) regulations that reduce criteria pollutants and GHG emissions from light- and medium-duty vehicles, and the Zero-Emission Vehicle (ZEV) regulation, which requires manufacturers to produce an increasing number of pure ZEVs (i.e., battery electric and fuel cell electric vehicles), with provisions to also produce plug-in hybrid electric vehicles (PHEV) in the 2018 through 2025 model years.⁵⁰ In March 2017, CARB voted unanimously to continue with the vehicle greenhouse gas emission standards and the ZEV program for cars and light trucks sold in California through 2025.⁵¹

(iv) Senate Bill 375

Acknowledging the relationship between land use planning and transportation sector GHG emissions, SB 375 was signed by Governor Schwarzenegger on September 30, 2008. This legislation links regional planning for housing and transportation with the GHG reduction goals outlined in AB 32. Reductions in GHG emissions can be achieved by, for example, locating employment opportunities close to transit. Under SB 375, each Metropolitan Planning Organization (MPO) would be required to adopt a Sustainable Community Strategy (SCS) to encourage compact development that reduces passenger VMT and trips so the region can meet a target, created by CARB, for reducing GHG emissions. If the SCS is unable to achieve the regional GHG emissions reduction targets, then the MPO is required to prepare an alternative planning strategy that shows how the GHG emissions reduction target could be achieved through alternative development patterns, infrastructure, and/or transportation measures.

⁴⁹ CARB, Advanced Clean Cars Program, About, ww2.arb.ca.gov/our-work/programs/advanced-clean-cars-program/about, accessed January 17, 2020.

⁵⁰ CARB, Advanced Clean Cars Program, About, ww2.arb.ca.gov/our-work/programs/advanced-clean-cars-program/about, accessed January 17, 2020.

⁵¹ CARB, News Release: CARB finds vehicle standards are achievable and cost-effective, ww2.arb.ca.gov/news/carb-finds-vehicle-standards-are-achievable-and-cost-effective, accessed January 17, 2020.

As required under SB 375, CARB is required to update regional GHG emissions targets every 8 years with the last update formally adopted in March 2018. As part of the 2018 updates, the CARB adopted a passenger vehicle related GHG reduction of 19 percent for 2035 for the SCAG region, which is more stringent than the previous reduction target of 13 percent for 2035.^{52,53}

(v) Senate Bill 743

Governor Brown signed SB 743 in 2013, which creates a process to change the way that transportation impacts are analyzed under CEQA. Specifically, SB 743 requires the Office of Planning and Research (OPR) to amend the CEQA Guidelines to provide an alternative to level of service (LOS) methodology for evaluating transportation impacts. Particularly within areas served by transit, the required alternative criteria must "promote the reduction of greenhouse gas emissions, the development of multimodal transportation networks, and a diversity of land uses." Measurements of transportation impacts may include "vehicle miles traveled, vehicle miles traveled per capita, automobile trip generation rates, or automobile trips generated." ⁵⁵

(h) Building Standards

(i) California Appliance Efficiency Regulations (Title 20, Sections 1601 through 1608)

The 2014 Appliance Efficiency Regulations, adopted by the CEC, include standards for new appliances (e.g., refrigerators) and lighting, if they are sold or offered for sale in California. These standards include minimum levels of operating efficiency, and other cost-effective measures, to promote the use of energy- and water-efficient appliances.

(ii) California Building Energy Efficiency Standards (Title 24, Part 6)

California's Energy Efficiency Standards for Residential and Nonresidential Buildings, codified in Title 24, Part 6 of the California Code of Regulations (CCR) and commonly referred to as Title 24, were established in 1978 in response to a legislative mandate to reduce California's energy consumption. Title 24 requires the design of building shells and building components to conserve energy. The standards are updated periodically to allow consideration and possible incorporation of new energy efficiency

⁵² CARB, SB 375 Regional Greenhouse Gas Emissions Reduction Targets (2018).

As the CARB targets were adopted after SCAG's most recently adopted SCS, it is expected that the updated targets will be incorporated into SCAG's next SCS.

⁵⁴ PRC Section 21099(b)(1).

⁵⁵ PRC Section 21099(b)(1).

technologies and methods.⁵⁶ The CEC adopted the 2019 Title 24 standards, which became effective on January 1, 2020, and are applicable to the Project. The 2019 standards continue to improve upon the previous 2016 Title 24 standards for new construction of, and additions and alterations to, residential and non-residential buildings.⁵⁷ The 2019 Title 24 Standards represent "challenging but achievable design and construction practices" that represent "a major step towards meeting the Zero Net Energy (ZNE) goal." Single-family homes built with the 2019 standards will use about 7 percent less energy due to energy efficiency measures versus those built under the 2016 standards. Once rooftop solar electricity generation is factored in, homes built under the 2019 standards will use about 53 percent less energy than those under the 2016 standards. This will reduce greenhouse gas emissions by 700,000 metric tons over three years, equivalent to taking 115,000 fossil fuel cars off the road. Nonresidential buildings will use about 30 percent less energy due mainly to lighting upgrades.⁵⁸ Compliance with Title 24 is enforced through the building permit process.

(iii) California Green Building Standards (CALGreen Code)

The most recent update to the California Green Building Standards Code (CCR, Title 24, Part 11), commonly referred to as the CALGreen Code, went into effect on January 1, 2020. Most of the mandatory measure changes in the 2019 CALGreen Code relative to the previous 2016 CALGreen Code were related to definitions and the clarification or addition of referenced manuals, handbooks, and standards. For example, several definitions related to energy that were added or revised affect electric vehicles chargers and charging and hot water recirculation systems. For new multi-family dwelling units, the residential mandatory measures were revised to provide additional electric vehicle charging space requirements, including quantity, location, size, single EV space, multiple EV spaces, and identification.⁵⁹ For nonresidential mandatory measures, the table (Table 5.106.5.3.3) identifying the number of required EV charging spaces has been revised in its entirety.⁶⁰ Compliance with the 2019 CALGreen Code is enforced through the building permit process.

⁵⁶ CEC, 2019 Building Energy Efficiency Standards, www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2019-building-energy-efficiency, accessed January 17, 2020.

⁵⁷ CEC, 2019 Building Energy Efficiency Standards, www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2019-building-energy-efficiency, accessed January 17, 2020.

⁵⁸ CEC, 2019 Building Energy Efficiency Standards, Fact Sheet.

⁵⁹ California Building Standards Commission, 2016 California Green Building Standards Code, California Code of Regulations, Title 24, Part 11, Chapter 4—Residential Mandatory Measures, effective January 1, 2017.

California Building Standards Commission, 2016 California Green Building Standards Code, California Code of Regulations, Title 24, Part 11, Chapter 5—Nonresidential Mandatory Measures, effective January 1, 2017.

(i) Senate Bill 97

On June 19, 2008, OPR released a technical advisory on addressing climate change. This guidance document outlines suggested components to CEQA disclosure, including quantification of GHG emissions from a project's construction and operation; determination of significance of the project's impact to climate change; and, if the project is found to be significant, the identification of suitable alternatives and mitigation measures.

SB 97, passed in August 2007, is designed to work in conjunction with CEQA and AB 32. SB 97 requires OPR to prepare and develop guidelines for the mitigation of GHG emissions or the effects thereof, including, but not limited to, the effects associated with transportation and energy consumption. The Draft Guidelines Amendments for Greenhouse Gas Emissions (Guidelines Amendments) were adopted on December 30, 2009 and address the specific obligations of public agencies when analyzing GHG emissions under CEQA to determine a project's effects on the environment.

However, neither a threshold of significance nor any specific mitigation measures are included or provided in the Guidelines Amendments. The Guidelines Amendments require a lead agency to make a good-faith effort, based on the extent possible on scientific and factual data, to describe, calculate, or estimate the amount of GHG emissions resulting from a project. The Guidelines Amendments give discretion to the lead agency whether to: (1) use a model or methodology to quantify GHG emissions resulting from a project, and which model or methodology to use; or (2) rely on a qualitative analysis or performance-based standards. Furthermore, the Guidelines Amendments identify three factors that should be considered in the evaluation of the significance of GHG emissions:

- 1. The extent to which a project may increase or reduce GHG emissions as compared to the existing environmental setting;
- 2. Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project; and
- 3. The extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions.⁶²

See 14 CCR Sections 15064.7 (generally giving discretion to lead agencies to develop and publish thresholds of significance for use in the determination of the significance of environmental effects), 15064.4 (giving discretion to lead agencies to determine the significance of impacts from GHGs).

^{62 14} CCR Section 15064.4(b).

The administrative record for the Guidelines Amendments also clarifies "that the effects of greenhouse gas emissions are cumulative, and should be analyzed in the context of California Environmental Quality Act's requirements for cumulative impact analysis." ⁶³

The California Natural Resources Agency is required to periodically update the Guidelines Amendments to incorporate new information or criteria established by CARB pursuant to AB 32. SB 97 applies retroactively to any environmental impact report (EIR), negative declaration, mitigated negative declaration, or other document required by CEQA, which has not been finalized.

(j) Center for Biological Diversity v. California Department of Fish and Wildlife

The California Supreme Court's decision published on November 30, 2015, in the Center for Biological Diversity v. California Department of Fish and Wildlife (Case No. 217763) (also known as the "Newhall Ranch Case") reviewed the methodology used to analyze GHG emissions in an EIR prepared for a project that proposed 20,885 dwelling units with 58,000 residents on 12,000 acres of undeveloped land in a rural area of the City of Santa Clara. The EIR used a BAU approach to determine whether the project would impede the state's compliance with statutory emissions reduction mandate established by the 2008 Climate Change Scoping Plan. The Court did not invalidate the BAU approach entirely but did hold that "the Scoping Plan nowhere related that statewide level of reduction effort to the percentage of reduction that would or should be required from individual projects and nothing DFW or Newhall have cited in the administrative record indicates the required percentage reduction from business as usual is the same for an individual project as for the entire state population and economy."64

The California Supreme Court suggested regulatory consistency as one pathway to compliance, by stating that a lead agency might assess consistency with AB 32's goal in whole or in part by looking to compliance with regulatory programs designed to reduce GHG emissions from particular activities. The Court recognized that to the extent a project's design features comply with or exceed the regulations outlined in the *Climate Change Scoping Plan*, and adopted by CARB or other state agencies, a lead agency could appropriately rely on their use as showing compliance with performance-based standards adopted to fulfill a statewide plan for the reduction or mitigation of GHG emissions. This approach is consistent with CEQA Guidelines Section 15064, which provides that a determination that an impact is not cumulatively considerable may rest on compliance with previously adopted plans or regulations, including plans or regulations for the reduction of

⁶³ Letter from Cynthia Bryant, Director of the Governor's Office of Planning and Research to Mike Chrisman, California Secretary for Natural Resources, dated April 13, 2009.

⁶⁴ Center for Biological Diversity v. California Department of Fish and Wildlife (Case No. 217763), p. 20.

GHG emissions. Importantly, the Court also suggested: "A lead agency may rely on existing numerical thresholds of significance for greenhouse gas emissions" (bright line threshold approach) if supported by substantial evidence.

(k) Assembly Bill 900

In September 2011, Governor Brown signed AB 900, the Jobs and Economic Improvement Through Environmental Leadership Act, which required the Governor to establish procedures for applying for streamlined environmental review under CEQA for projects that meet certain requirements. OPR has provided approved guidelines for submitting applications for streamlined environmental review pursuant to AB 900. With respect to GHG emissions, a project must demonstrate that it would not result in any net additional GHGs including GHG emissions from employee transportation in accordance with PRC Section 21183(c). For purposes of PRC 21183(c) the following process applies:

- 1. The applicant shall submit electronically to AB900ARBsubmittals@arb.ca.gov a proposed methodology for quantifying the project's net additional GHG emissions. The CARB will review and comment on the methodology, at its discretion, within 30 days of submission.
- 2. At the same time, the applicant shall submit to AB900ARBsubmittals@arb.ca.gov documentation that the project does not result in any net additional GHG emissions. The documentation must at least quantify:
 - a. Both direct and indirect GHG emissions associated with the project's construction and operation, including emissions from the project's projected energy use and transportation related emissions; and
 - b. The net emissions of the project after accounting for any mitigation measures that will be monitored and enforced consistent with Public Resources Code section 21183(d).
- 3. Within 60 days of receiving the documentation (in Step 2 of the process above), CARB will determine whether the condition specified in PRC Section 21183(c) has been met or, if more time is needed, notify the applicant of the expected completion date.
- 4. The CARB will determine and report to the Governor in writing that a project does not result in any net additional emissions of greenhouse gases if the project demonstrates through a combination of project design features, compliance with (or exceeding minimum requirements of) existing regulations, and mitigation that it would result in zero additional greenhouse gas emissions.

(3) Regional

(a) South Coast Air Quality Management District

The Southern California Air Quality Management District (SCAQMD) adopted a "Policy on Global Warming and Stratospheric Ozone Depletion" on April 6, 1990. The policy commits SCAQMD to consider global impacts in rulemaking and in drafting revisions to the Air Quality Management Plan (AQMP). In March 1992, the SCAQMD Governing Board reaffirmed this policy and adopted amendments to the policy to include the following directives:

- Phase out the use and corresponding emissions of chlorofluorocarbons, methyl chloroform (1,1,1-trichloroethane or TCA), carbon tetrachloride, and halons by December 1995;
- Phase out the large quantity use and corresponding emissions of hydrochlorofluorocarbons by the year 2000;
- Develop recycling regulations for hydrochlorofluorocarbons (e.g., SCAQMD Rules 1411 and 1415);
- Develop an emissions inventory and control strategy for methyl bromide; and
- Support the adoption of a California GHG emission reduction goal.

In 2008, SCAQMD released draft guidance regarding interim CEQA GHG significance thresholds. Within its October 2008 document, SCAQMD proposed the use of a percent emission reduction target to determine significance for commercial/residential projects that emit greater than 3,000 MTCO2e per year. Under this proposal, commercial/residential projects that emit fewer than 3,000 MTCO2e per year would be assumed to have a less-than-significant impact on climate change. On December 5, 2008, the SCAQMD Governing Board adopted the staff proposal for an interim GHG significance threshold of 10,000 MTCO2E per year for stationary source/industrial projects where SCAQMD is the lead agency. However, SCAQMD has yet to adopt a GHG significance threshold for land use development projects such as commercial/residential projects; the proposed commercial/residential thresholds were not formally adopted.

-

⁶⁵ SCAQMD, Draft Guidance Document—Interim CEQA Greenhouse Gas (GHG) Significance Threshold, October 2008, Attachment E.

(b) Southern California Association of Governments

SCAG adopted the 2016–2040 Regional Transportation Plan/Sustainable Communities Strategy (2016–2040 RTP/SCS) on April 7, 2016.^{66, 67} The 2016–2040 RTP/SCS reaffirms the land use policies that were incorporated into the 2012–2035 RTP/SCS. These foundational policies, which guided the development of the 2016–2040 RTP/SCS's strategies for land use, include the following:

- Identify regional strategic areas for infill and investment;
- Structure the plan on a three-tiered system of centers development;⁶⁸
- Develop "Complete Communities";
- Develop nodes on a corridor;
- Plan for additional housing and jobs near transit;
- Plan for changing demand in types of housing;
- Continue to protect stable, existing single-family areas;
- Ensure adequate access to open space and preservation of habitat; and
- Incorporate local input and feedback on future growth.

The 2016–2040 RTP/SCS recognizes that transportation investments and future land use patterns are inextricably linked, and continued recognition of this close relationship will help the region make choices that sustain existing resources and expand efficiency, mobility, and accessibility for people across the region. In particular, the 2016–2040 RTP/SCS draws a closer connection between where people live and work, and it offers a blueprint for how Southern California can grow more sustainably. The 2016–2040 RTP/SCS also includes strategies focused on compact infill development and economic growth by building the infrastructure the region needs to promote the smooth flow of goods and easier access to jobs, services, educational facilities, healthcare and more.

⁶⁶ SCAG, Final 2016–2040 RTP/SCS.

⁶⁷ CARB, Executive Order G-16-066, SCAG 2016 SCS ARB Acceptance of GHG Quantification Determination, June 2016.

⁶⁸ Complete language: "Identify strategic centers based on a three-tiered system of existing, planned and potential relative to transportation infrastructure. This strategy more effectively integrates land use planning and transportation investment." A more detailed description of these strategies and policies can be found on pp. 90–92 of the SCAG 2008 Regional Transportation Plan, adopted in May 2008.

The 2016–2040 RTP/SCS indicates the SCAG region was home to about 18.3 million people in 2012 and currently includes approximately 5.9 million homes and 7.4 million jobs. ⁶⁹ By 2040, the integrated growth forecast projects that these figures will increase by 3.8 million people, with nearly 1.5 million more homes and 2.4 million more jobs. High Quality Transit Areas (HQTAs) will account for 3 percent of regional total land but are projected to accommodate 46 percent and 55 percent of future household and employment growth respectively between 2012 and 2040. The 2016–2040 RTP/SCS overall land use pattern reinforces the trend of focusing new housing and employment in the region's HQTAs. HQTAs are a cornerstone of land use planning best practice in the SCAG region because they concentrate roadway repair investments, leverage transit and active transportation investments, reduce regional life cycle infrastructure costs, improve accessibility, create local jobs, and have the potential to improve public health and housing affordability.

The 2016–2040 RTP/SCS is expected to reduce per capita transportation emissions by 8 percent by 2020 and 18 percent by 2035. This level of reduction would meet and exceed the region's GHG targets set by CARB of 8 percent per capita by 2020 and 13 percent per capita by 2035.⁷¹ Furthermore, although there are no per capita GHG emission reduction targets for passenger vehicles set by CARB for 2040, the 2016–2040 RTP/SCS's GHG emission reduction trajectory shows that more aggressive GHG emission reductions are projected for 2040.⁷² The 2016–2040 RTP/SCS would result in an estimated 21 percent decrease in per capita GHG emissions by 2040. By meeting and exceeding the SB 375 targets for 2020 and 2035, as well as achieving an approximately 21-percent decrease in per capita GHG emissions by 2040 (an additional 3-percent reduction in the five years between 2035 [18 percent] and 2040 [21 percent]), the 2016–2040 RTP/SCS is expected to fulfill and exceed its portion of SB 375 compliance with respect to meeting the State's GHG emission reduction goals.

Subsequent to adoption of the 2016 RTP/SCS, CARB adopted in 2018 a new target requiring a 19-percent decrease in VMT for the SCAG region by 2035. It is expected that this new target will be incorporated into the next RTP/SCS. The 2016 RTP/SCS and/or the next RTP/SCS are therefore expected to fulfill and exceed SB 375 compliance with respect to meeting the State's GHG emission reduction goals.

⁶⁹ The SCAG 2016–2040 RTP/SCS is based on year 2012 demographic data with growth forecasts developed for 2020, 2035, and 2040.

Defined by the 2016–2040 RTP/SCS as generally walkable transit villages or corridors that are within 0.5 mile of a well-serviced transit stop or a transit corridor with 15-minute or less service frequency during peak commute hours.

⁷¹ SCAG, Final 2016–2040, RTP/SCS, Executive Summary, p. 8, April 2016.

⁷² SCAG, Final Program Environmental Impact Report for 2016–2040, RTP/SCS, April 2016, Figure 3.8.4-1.

(4) Local

(a) City of Los Angeles Sustainable City pLAn/L.A.'s Green New Deal

The City of Los Angeles (City) began addressing the issue of global climate change by publishing *Green LA*, *An Action Plan to Lead the Nation in Fighting Global Warming* (LA Green Plan) in 2007. This document outlines the goals and actions the City has established to reduce the generation and emission of GHGs from both public and private activities.

To facilitate implementation of the Green LA Plan, the City adopted the Los Angeles Green Building Code, as discussed below.

In 2008, the City released an implementation program for the LA Green Plan referred to as ClimateLA, which provides detailed information about each action item discussed in the LA Green Plan framework.⁷³ Action items range from harnessing wind power for electricity production and energy efficiency retrofits in City buildings, to converting the City's fleet vehicles to cleaner and more efficient models, as well as reducing water consumption.

The Sustainable City pLAn was adopted in 2015 and includes both short-term and long-term aspirations through the year 2035 in various topic areas, including: water, solar power, energy-efficient buildings, carbon and climate leadership, waste and landfills, housing and development, mobility and transit, and air quality, among others. Specific targets include the construction of new housing units within 1,500 feet of transit by 2017, reducing vehicle miles traveled per capita by 5 percent by 2025, and increasing trips made by walking, biking or transit by at least 35 percent by 2025. In addition, building energy use per square foot for all building types will be reduced by 22 percent by 2025, 34 percent by 2035, and 44 percent by 2050. The Sustainable City pLAn will be updated every four years.

In 2019, the first four-year update to the 2015 Sustainable City pLAn was released. This updated document, known as L.A.'s Green New Deal, expands upon the City's vision for a sustainable future and provides accelerated targets and new goals.⁷⁴ L.A.'s Green New Deal has established targets such as 100 percent renewable energy by 2045, diversion of 100 percent of waste by 2050, and recycling 100 percent of wastewater by 2035.

-

⁷³ City of Los Angeles, ClimateLA, 2008.

⁷⁴ City of Los Angeles, L.A.'s Green New Deal, Sustainable City pLAn, 2019.

(b) City of Los Angeles Green Building Code

On December 15, 2011, the Los Angeles City Council approved Ordinance No. 181,481, which amended Chapter IX of the Los Angeles Municipal Code (LAMC), referred to as the Los Angeles Green Building Code, by adding a new Article 9 to incorporate various provisions of the 2010 CALGreen Code. On December 20, 2016, the Los Angeles City Council approved Ordinance No. 184,692, which further amended LAMC Chapter IX by amending certain provisions of Article 9 to reflect local administrative changes and incorporating by reference portions of the 2016 CALGreen Code. Projects filed on or after January 1, 2017 must comply with the provisions of the Los Angeles Green Building Code. Specific mandatory requirements and elective measures are provided for three categories: (1) low-rise residential buildings; (2) non-residential and high-rise residential buildings; and (3) additions and alterations to non-residential and high-rise residential buildings.

(c) City of Los Angeles General Plan

The City does not have a General Plan Element specific to global warming/climate change and GHG emissions. However, the following five goals from the Air Quality Element of the General Plan also serve to reduce GHG emissions:

- Less reliance on single-occupancy vehicles with fewer commute and non-work trips;
- Efficient management of transportation facilities and system infrastructure using cost-effective system management and innovative demand-management techniques;
- Minimal impacts of existing land use patterns and future land use development on air quality by addressing the relationship between land use, transportation and air quality;
- Energy efficiency through land use and transportation planning, the use of renewable resources and less-polluting fuels and the implementation of conservation measures including passive measures, such as site orientation and tree planting; and
- Citizen awareness of the linkages between personal behavior and air pollution and participation in efforts to reduce air pollution.

(d) Traffic Study Policies and Procedures

In July 2019, the City of Los Angeles Department of Transportation (LADOT) issued the Transportation Assessment Guidelines (TAG) to create a review process that advances the City's vision of developing a safe, accessible, well-maintained, and well-connected multimodal transportation network. The TAG supersedes the previous Transportation

Impact Study Guidelines from December 2016 and conforms to the requirement of SB 743 which shifts the focus of transportation analysis from level of service to VMT. The TAG has been developed to identify land use development and transportation projects that may impact the transportation system; to ensure proposed land use development projects achieve site access design requirements and on-site circulation best practices; to define whether off-site improvements are needed; and to provide step-by-step guidance for assessing impacts and preparing Transportation Assessment Studies.

d. Existing Conditions

(1) Existing Statewide GHG Emissions

GHGs are the result of both natural and human-influenced activities. Regarding human-influenced activities, motor vehicle travel, consumption of fossil fuels for power generation, industrial processes, heating and cooling, landfills, agriculture, and wildfires are the primary sources of GHG emissions. Without human intervention, Earth maintains an approximate balance between the emission of GHGs into the atmosphere and the storage of GHGs in oceans and terrestrial ecosystems. Events and activities, such as the industrial revolution and the increased combustion of fossil fuels (e.g., gasoline, diesel, coal, etc.), have contributed to the rapid increase in atmospheric levels of GHGs over the last 150 years. As reported by the CEC, California contributes approximately 1 percent of global and 6.4 percent of national GHG emissions.⁷⁵ California represents approximately 12 percent of the national population. Approximately 80 percent of GHGs in California are CO₂ produced from fossil fuel combustion. The current California GHG inventory compiles statewide anthropogenic GHG emissions and carbon sinks/storage from years 2000 through 2017.⁷⁶ It includes estimates for CO₂, CH₄, N₂O, HFCs, PFCs, and SF₆. The GHG inventory for California for years 2011 through 2017 is presented in Table IV.E-3 on As shown therein, the GHG inventory for California in 2017 was page IV.E-34. 424.10 million MTCO₂e.

(2) Existing Project Site Emissions

As discussed in Section II, Project Description, of this Draft EIR, existing uses at the Project Site consists of four low-rise commercial buildings that comprise a total of 29,200 square feet of floor area, as well as surface parking. Mobile source emissions are generated by vehicle trips to and from the Project Site. Area source emissions are

⁷⁵ CEC, California Energy Commission—Tracking Progress, Greenhouse Gas Emission Reductions, last updated December 2018.

A carbon inventory identifies and quantifies sources and sinks of greenhouse gases. Sinks are defined as a natural or artificial reservoir that accumulates and stores some carbon-containing chemical compound for an indefinite period.

Table IV.E-3 California GHG Inventory (million metric tons CO₂e)

	2011	2012	2013	2014	2015	2016	2017
Transportation	161.51	161.22	160.90	162.28	166.14	169.38	169.86
On Road	148.03	147.71	147.07	148.04	151.52	154.64	155.75
Passenger Vehicles	111.37	111.77	111.52	112.20	116.33	119.03	119.94
Heavy Duty Trucks	36.65	35.93	35.55	35.83	35.19	35.62	35.81
Ships & Commercial Boats	3.52	3.43	3.42	3.49	3.42	3.24	3.32
Aviation (Intrastate)	3.73	3.75	3.93	3.90	4.22	4.44	4.68
Rail	2.38	2.38	2.38	2.38	2.38	2.37	1.83
Off Road	2.13	2.23	2.33	2.43	2.53	2.63	2.73
Unspecified	1.72	1.71	1.77	2.04	2.07	2.07	1.54
Percent of Total Emissions	36%	36%	36%	37%	38%	39%	37%
Electric Power	88.06	95.09	89.65	88.24	83.67	68.58	62.39
In-State Generation	41.20	51.03	49.47	51.72	49.93	42.30	38.45
Natural Gas	35.92	45.77	45.66	46.43	45.16	38.28	34.88
Other Fuels	4.03	4.44	2.91	4.40	3.65	2.55	2.61
Fugitive and Process Emissions	1.25	0.82	0.90	0.90	1.13	1.48	0.95
Imported Electricity	46.86	44.07	40.17	36.51	33.74	26.28	23.94
Unspecified Imports	15.52	17.48	11.82	13.44	11.21	9.68	8.84
Specified Imports	31.34	26.59	28.35	23.07	22.52	16.60	15.10
Percent of Total Emissions	20%	21%	20%	20%	19%	16%	15%
Commercial and Residential	45.50	42.89	43.54	37.37	37.94	39.36	41.14
Residential Fuel Use	29.64	27.34	28.14	22.87	23.29	24.20	26.00
Natural Gas	27.51	25.76	26.52	21.58	21.90	22.80	23.62
Other Fuels	2.13	1.58	1.62	1.28	1.39	1.40	2.38
Commercial Fuel Use	13.71	13.41	13.30	12.51	12.67	12.92	13.02
Natural Gas	11.33	11.25	11.28	10.39	10.50	10.89	11.06
Other Fuels	2.38	2.16	2.02	2.12	2.16	2.03	1.95
Commercial Cogeneration Heat Output	0.78	0.76	0.71	0.58	0.56	0.81	0.68
Other Commercial and Residential	1.37	1.38	1.40	1.41	1.42	1.43	1.44
Percent of Total Emissions	10%	10%	10%	8%	9%	9%	6%
Industrial	90.94	91.07	93.73	93.96	91.58	89.61	89.40
Refineries	30.12	29.88	29.22	29.40	28.21	29.61	29.89
General Fuel Use	18.78	18.91	19.31	19.87	19.23	18.53	19.07
Natural Gas	14.50	14.48	14.36	15.56	14.79	14.99	15.28
Other Fuels	4.28	4.43	4.94	4.31	4.45	3.53	3.78
Oil & Gas Extraction ^a	16.73	16.73	19.11	19.47	19.58	17.93	17.22
Fuel Use	14.91	14.87	16.99	17.18	17.22	15.66	14.94
Fugitive Emissions	1.82	1.86	2.12	2.29	2.36	2.27	2.28

Table IV.E-3 (Continued) California GHG Inventory (million metric tons CO₂e)

	2011	2012	2013	2014	2015	2016	2017
Cement Plants	6.14	6.92	7.20	7.61	7.56	7.60	7.66
Clinker Production	4.08	4.65	4.93	5.27	5.17	5.15	4.85
Fuel Use	2.07	2.26	2.28	2.34	2.39	2.45	2.81
Cogeneration Heat Output	11.15	10.81	10.99	9.64	8.98	8.00	7.79
Other Process Emissions	8.02	7.81	7.90	7.98	8.01	7.95	7.78
Percent of Total Emissions	20%	20%	21%	21%	21%	21%	21%
Recycling and Waste	8.47	8.49	8.52	8.59	8.73	8.81	8.89
Landfills ^b	8.19	8.20	8.22	8.28	8.40	8.47	8.54
Composting	0.27	0.29	0.30	0.31	0.33	0.34	0.35
Percent of Total Emissions	2%	2%	2%	2%	2%	2%	2%
High Global Warming Potential	14.54	15.54	16.65	17.70	18.93	19.78	19.99
Ozone Depleting Substance Substitutes	14.21	15.25	16.38	17.42	18.37	19.24	19.64
Electricity Grid SF6 Losses ^c	0.25	0.24	0.18	0.14	0.42	0.37	0.18
Semiconductor Manufacturing ^b	0.08	0.06	0.08	0.14	0.14	0.16	0.17
Percent of Total Emissions	3%	3%	4%	4%	4%	5%	5%
Agriculture ^d	34.89	36.08	34.61	35.95	34.41	33.84	32.42
Livestock	23.84	24.47	23.49	23.81	23.10	22.99	22.68
Enteric Fermentation (Digestive Process)	11.98	12.10	11.78	11.85	11.40	11.35	11.05
Manure Management	11.86	12.38	11.71	11.96	11.70	11.64	11.62
Crop Growing & Harvesting	7.40	7.73	7.42	7.48	6.91	6.89	6.63
Fertilizers	5.67	5.93	5.65	5.72	5.28	5.25	5.14
Soil Preparation and Disturbances	1.65	1.73	1.69	1.68	1.56	1.56	1.40
Crop Residue Burning	0.08	0.08	0.08	0.08	0.08	0.08	0.09
General Fuel Use	3.65	3.88	3.71	4.66	4.39	3.95	3.11
Diesel	2.52	2.47	2.53	3.54	3.66	3.19	2.40
Natural Gas	0.66	0.70	0.69	0.63	0.64	0.72	0.67
Gasoline	0.48	0.71	0.49	0.49	0.10	0.04	0.05
Other Fuels	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Percent of Total Emissions	8%	8%	8%	8%	8%	8%	8%
Total Net Emissions	443.91	450.38	447.59	444.10	441.40	429.35	424.10

a Reflects emissions from combustion of fuels plus fugitive emissions.

Source: California GHG Inventory for 2000–2017—by Category as Defined in the 2008 Climate Change Scoping Plan million metric tons of CO₂e—(based upon IPCC Second Assessment Report's Global Warming Potentials).

b These categories are listed in the Industrial sector of CARB's GHG Emission Inventory sectors.

^c This category is listed in the Electric Power sector of CARB's GHG Emission Inventory sectors.

d Reflects use of updated USEPA models for determining emissions from livestock and fertilizers.

generated by the use of maintenance equipment, landscape equipment, and products that contain solvents. Energy source emissions are typically associated with building natural gas usage. As shown on Table IV.E-4 below, the existing emissions within the Project Site are estimated to be 485 MTCO₂e per year.

Table IV.E-4
Existing (2017) Project Site Annual GHG Emissions Summary

Scope	Metric Tons of Carbon Dioxide Equivaler (MTCO₂e)				
Area	<1				
Energy	196				
Mobile	253				
Stationary	<1				
Solid Waste	7				
Water/Wastewater Generation	28				
Total Emissions	485				

Numbers may not add up exactly due to rounding.

Source: Eyestone Environmental, 2020.

3. Project Impacts

a. Thresholds of Significance

(1) State CEQA Guidelines Appendix G

In accordance with Appendix G of the CEQA Guidelines, a project would have a significant impact related to greenhouse gas emissions if it would:

Threshold (a): Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment.

Threshold (b): Conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of GHGs.

CEQA Guidelines Section 15064.4 recommends that lead agencies quantify the GHG emissions of projects and consider several other factors that may be used in the determination of significance of project-related GHG emissions, including: the extent to which the project may increase or reduce GHG emissions; whether the project exceeds an

^a CO₂e was calculated using CalEEMod and the results are provided in Section 2.0 of the Operation CalEEMod output file within Appendix C of this Draft EIR.

applicable significance threshold; and the extent to which the project complies with regulations or requirements adopted to implement a reduction or mitigation of GHGs.

Section 15064.4 does not establish a threshold of significance. Lead agencies have the discretion to establish significance thresholds for their respective jurisdictions, and in establishing those thresholds, a lead agency may appropriately look to thresholds developed by other public agencies, or suggested by other experts, such as the California Air Pollution Control Officers Association (CAPCOA), as long as any threshold chosen is supported by substantial evidence (see CEQA Guidelines Section 15064.7(c)). The CEQA Guidelines also clarify that the effects of GHG emissions are cumulative, and should be analyzed in the context of CEQA's requirements for cumulative impact analysis (see CEQA Guidelines Section 15130(f)).⁷⁷ As a note, the CEQA Guidelines were amended in response to SB 97. In particular, the CEQA Guidelines were amended to specify that compliance with a GHG emissions reduction plan renders a cumulative impact insignificant.

Per CEQA Guidelines Section 15064(h)(3), a project's incremental contribution to a cumulative impact can be found not cumulatively considerable if the project would comply with an approved plan or mitigation program that provides specific requirements that would avoid or substantially lessen the cumulative problem within the geographic area of the project.⁷⁸ To qualify, such plans or programs must be specified in law or adopted by the public agency with jurisdiction over the affected resources through a public review process to implement, interpret, or make specific the law enforced or administered by the public agency.⁷⁹ Examples of such programs include a "water quality control plan, air quality attainment or maintenance plan, integrated waste management plan, habitat conservation plan, natural community conservation plans [and] plans or regulations for the reduction of greenhouse gas emissions."⁸⁰ Put another way, CEQA Guidelines Section 15064(h)(3) allows a lead agency to make a finding of less than significant for GHG emissions if a project complies with adopted programs, plans, policies and/or other regulatory strategies to reduce GHG emissions.⁸¹

⁷⁷ See, generally, CEQA Guidelines Section 15130(f); see also Letter from Cynthia Bryant, Director of the Office of Planning and Research to Mike Chrisman, Secretary for Natural Resources, dated April 13, 2009.

⁷⁸ 14 CCR Section 15064(h)(3).

⁷⁹ 14 CCR Section 15064(h)(3).

⁸⁰ 14 CCR Section 15064(h)(3).

See, for example, San Joaquin Valley Air Pollution Control District, CEQA Determinations of Significance tor Projects Subject to ARB's GHG Cap-and-Trade Regulation, APR—2030 (June 25, 2014), in which the SJVAPCD "determined that GHG emissions increases that are covered under ARB's Cap-and-Trade regulation cannot constitute significant increases under CEQA..." Further, the South Coast Air Quality Management District (SCAQMD) has taken this position in CEQA documents it has produced as a lead (Footnote continued on next page)

In the absence of any adopted numeric threshold, the significance of the Project's GHG emissions is evaluated consistent with CEQA Guidelines Section 15064.4(b) by considering whether the Project complies with applicable plans, policies, regulations and requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of greenhouse gas emissions. For this Project, as a land use development project, the most directly applicable adopted regulatory plan to reduce GHG emissions is the 2016–2040 RTP/SCS, which is designed to achieve regional GHG reductions from the land use and transportation sectors as required by SB 375 and the State's long-term climate goals. This analysis also considers consistency with regulations or requirements adopted by the AB 32 2008 Climate Change Scoping Plan and subsequent updates, AB 900, and the Sustainable City pLAn/L.A.'s Green New Deal.

(2) SCAQMD Thresholds

As discussed above, SCAQMD only has an interim GHG significance threshold of 10,000 MTCO₂e per year for stationary source/industrial projects where SCAQMD is the lead agency. This SCAQMD interim GHG significance threshold is not applicable to the Project as the Project is a residential/commercial project and the City of Los Angeles is the Lead Agency.

(3) 2006 L.A. CEQA Thresholds Guide

The L.A. CEQA Thresholds Guide does not identify any criteria to evaluate GHG emissions impacts. Thus, the potential for the Project to result in impacts from GHG emissions is based on the Appendix G thresholds. For the reasons set forth above, to answer both of the above questions, the City will consider whether the project is consistent with AB 32 and SB 375 (through demonstration of conformance with the 2016 RTP/SCS), and the Sustainable City pLAn/L.A.'s Green New Deal. As discussed above, OPR has noted that lead agencies "should make a good-faith effort to calculate or estimate GHG

agency. The SCAQMD has prepared three Negative Declarations and one Draft Environmental Impact Report that demonstrate the SCAQMD has applied its 10,000 MTCO2e /yr. significance threshold in such a way that GHG emissions covered by the Cap-and-Trade Program do not constitute emissions that must be measured against the threshold. See: SCAQMD, Final Negative Declaration for: Ultramar Inc. Wilmington Refinery Cogeneration Project, SCH No. 2012041014 (October 2014); SCAQMD, Final Negative Declaration tor Phillips 66 Los Angeles Refinery Carson Plant—Crude Oil Storage Capacity Project, SCH No. 2013091029 (December 2014); Final Mitigated Negative Declaration for Toxic Air Contaminant Reduction for Compliance with SCAQMD Rules 1420.1 and 1402 at the Exide Technologies Facility in Vernon, CA, SCH No. 2014101040 (December 2014); and Final Environmental Impact Report for the Breitburn Santa Fe Springs Blocks 400/700 Upgrade Project, SCH No. 2014121014 (April 2014).

emissions from a project.⁸² GHG emissions are quantified below, consistent with OPR guidelines.

b. Methodology

Amendments to CEQA Guidelines Section 15064.4 were adopted to assist lead agencies in determining the significance of the impacts of GHG emissions. Consistent with existing CEQA practice, Section 15064.4 gives lead agencies the discretion to determine whether to assess those emissions quantitatively or qualitatively. recommends certain factors be considered in the determination of significance (i.e., the extent to which a project may increase or reduce GHG emissions compared to the existing environment; whether the project exceeds an applicable significance threshold; and the extent to which the project complies with regulations or requirements adopted to implement a plan for the reduction or mitigation of GHGs). The amendments do not establish a threshold of significance; rather, lead agencies are granted discretion to establish significance thresholds for their respective jurisdictions, including looking to thresholds developed by other public agencies or suggested by other experts, such as CAPCOA, so long as any threshold chosen is supported by substantial evidence (see CEQA Guidelines Section 15064.7(c)). The California Natural Resources Agency has also clarified that the CEQA Guidelines amendments focus on the effects of GHG emissions as cumulative impacts, and therefore GHG emissions should be analyzed in the context of CEQA's for cumulative impact analyses (see CEQA Guidelines Section requirements 15064(h)(3)).83

The City has not adopted a numerical significance threshold for assessing impacts related to GHG emissions. Nor have SCAQMD, OPR, CARB, CAPCOA, or any other state or regional agency adopted a numerical significance threshold for assessing GHG emissions that is applicable to the Project. Since there is no applicable adopted or accepted numerical threshold of significance for GHG emissions, the methodology for evaluating the Project's impacts related to GHG emissions focuses on its consistency with statewide, regional, and local plans adopted for the purpose of reducing and/or mitigating GHG emissions. This evaluation of consistency with such plans is the sole basis for determining the significance of the Project's GHG-related impacts on the environment.

Notwithstanding, for informational purposes, the analysis also calculates the amount of GHG emissions that would be attributable to the Project using recommended air quality

Hollywood & Wilcox
Draft Environmental Impact Report

⁸² OPR Technical Advisory, p. 5.

See generally California Natural Resources Agency, Final Statement of Reasons for Regulatory Action (December 2009), pp. 11–13, 14, 16; see also Letter from Cynthia Bryant, Director of the Office of Planning and Research to Mike Chrisman, Secretary for Natural Resources, April 13, 2009.

models, as described below. The primary purpose of quantifying the Project's GHG emissions is to satisfy State CEQA Guidelines Section 15064.4(a), which calls for a good-faith effort to describe and calculate emissions. The estimated emissions inventory is also used to determine if there would be a reduction in the Project's incremental contribution of GHG emissions as a result of compliance with regulations and requirements adopted to implement plans for the reduction or mitigation of GHG emissions. However, the significance of the Project's GHG emissions impacts is not based on the amount of GHG emissions resulting from the Project.

(1) Consistency with Plans

The Project's GHG impacts are evaluated by assessing the Project's consistency with applicable statewide, regional, and local GHG reduction plans and strategies. As discussed previously, the City established goals and actions to reduce the generation and emission of GHGs from both public and private activities in the Sustainable City pLAn/L.A.'s Green New Deal.

OPR encourages lead agencies to make use of programmatic mitigation plans and programs from which to tier when they perform individual project analyses. Although the City does not have a programmatic mitigation plan to tier from, such as a Greenhouse Gas Emissions Reduction Plan, the City has adopted a number of plans to help reduce GHG emissions, including the Sustainable City pLAn/L.A.'s Green New Deal, and Green Building Code, which encourage and require applicable projects to implement energy efficiency measures. In addition, the California CAT Report provides recommendations for specific emission reduction strategies for reducing GHG emissions and reaching the targets established in AB 32 and Executive Order S-3-05. On a statewide level, the Climate Change Scoping Plan provides measures to achieve AB 32 targets. On a regional level, the SCAG 2016–2040 RTP/SCS contains measures to achieve VMT reductions required under SB 375. Thus, if the Project complies with these plans, policies, regulations, and requirements, the Project would result in a less than significant impact because it would be consistent with the overarching state, regional, and local plans for GHG reduction.

A consistency analysis is provided below and describes the Project's compliance with or exceedance of performance-based standards included in the regulations outlined in the applicable portions of the *Climate Change Scoping Plan*, 2016–2040 RTP/SCS, AB 900, and the Sustainable City pLAn/L.A.'s Green New Deal.

(2) Quantification of Emissions

In view of the above considerations, this Draft EIR quantifies the Project's total annual GHG emissions for informational purposes, taking into account the GHG emission reduction features that would be incorporated into the Project's design.

This EIR quantifies the Project's annual GHG emissions and compares them to a Project without Reduction Features scenario, as defined by CARB's most updated projections for AB/SB 32.84 This comparison is included herein for informational purposes only, including in order to disclose the relative carbon efficiency of the Project and to determine if there would be a reduction in the Project's incremental contribution of GHG emissions as a result of compliance with regulations and requirements adopted to implement plans for the reduction or mitigation of GHG emissions. The Project without Reduction Features scenario does not account for energy efficiency measures that would exceed the Title 24 Building Standards Code or CAPCOA trip reductions from the co-location of uses and the availability of public transportation within 0.25 mile.85 However, the Project without Reduction Features does take into account certain regulatory measures included in the *Climate Change Scoping Plan*, 2016–2040 RTP/SCS, and the Sustainable City pLAn/L.A.'s Green New Deal.86

(3) Project GHG Emissions

The California Climate Action Registry (Climate Registry) General Reporting Protocol provides basic procedures and guidelines for calculating and reporting GHG emissions from a number of general and industry-specific activities.⁸⁷ The General Reporting Protocol is based on the "Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard" developed by the World Business Council for Sustainable Development and the World Resources Institute through "a multi-stakeholder effort to develop a standardized approach to the voluntary reporting of GHG emissions."⁸⁸ Although no numerical thresholds of significance have been developed and no specific protocols are available for land use projects, the General Reporting Protocol provides a basic framework for calculating and reporting GHG emissions from the project. The information provided in

Hollywood & Wilcox
Draft Environmental Impact Report

The comparison to a so-called BAU scenario is not used as a threshold of significance, but is used to provide information and a quantitative metric to measure the Project's GHG emissions and level of reductions from Project Design Features and characteristics. See <u>Center for Biological Diversity v. California Department of Fish and Wildlife</u> (2015) 62 Cal.4th 204. While the California Supreme Court approved the methodology analyzing the significance of the project's GHG emissions in terms of reductions from projected BAU emissions consistent with AB 32's statewide reductions mandate, it held the GHG analysis lacked supporting substantial evidence and a cogent explanation correlating the project-specific reductions to AB 32's mandated state-wide reductions so as to demonstrate consistency with the latter's goals under the approved methodology.

⁸⁵ CAPCOA, Quantifying Greenhouse Gas Mitigation Measures, 2010.

The CalEEMod model does not account for all regulatory measures in the Climate Change Scoping Plan. However, the analysis does take into account reductions due to Pavley and LCFS as discussed in further detail below.

⁸⁷ California Climate Action Registry, General Reporting Protocol Version 3.1, January 2009.

⁸⁸ California Climate Action Registry, General Reporting Protocol Version 3.1, January 2009.

this section is consistent with the General Reporting Protocol's reporting requirements. Further discussion of the GHG methodology is included in Appendix C of this Draft EIR.

The General Reporting Protocol recommends the separation of GHG emissions into three categories that reflect different aspects of ownership or control over emissions.⁸⁹ They include the following:

- Scope 1: Direct, on-site combustion of fossil fuels (e.g., natural gas, propane, gasoline, and diesel).
- Scope 2: Indirect, off-site emissions associated with purchased electricity or purchased steam.
- Scope 3: Indirect emissions associated with other emissions sources, such as third-party vehicles and embodied energy (e.g., energy used to convey, treat, and distribute water and wastewater).⁹⁰

The General Reporting Protocol provides a range of basic calculations methods. However, the General Reporting Protocol calculations are typically designed for existing buildings or facilities. These retrospective calculation methods are not directly applicable to planning and development situations where buildings do not yet exist.

CARB recommends consideration of indirect emissions to provide a more complete picture of the GHG footprint of a facility. Annually reported indirect energy usage aids the conservation awareness of a facility and provides information to CARB to be considered for future strategies. For example, CARB has proposed requiring the calculation of direct and indirect GHG emissions as part of the AB 32 reporting requirements. Additionally, OPR has noted that lead agencies "should make a good-faith effort, based on available information, to calculate, model, or estimate.... GHG emissions from a project, including the emissions associated with vehicular traffic, energy consumption, water usage and construction activities." Therefore, direct and indirect emissions have been calculated for the Project.

-

⁸⁹ California Climate Action Registry, General Reporting Protocol Version 3.1, January 2009, p. 21.

⁹⁰ Embodied energy is a scientific term that refers to the quantity of energy required to manufacture and supply to the point of use a product, material, or service.

OARB, Initial Statement of Reasons for Rulemaking, Proposed Regulation for Mandatory Reporting of Greenhouse Gas Emissions Pursuant to the California Global Warming Solutions Act of 2006 (AB 32), Planning and Technical Support Division Emission Inventory Branch, October 19, 2007.

⁹² OPR Technical Advisory, p. 5.

A fundamental difficulty in the analysis of GHG emissions is the global nature of the existing and cumulative future conditions. Changes in GHG emissions can be difficult to attribute to a particular planning program or project because the planning effort or project may cause a shift in the locale for some type of GHG emissions, rather than causing new GHG emissions. As a result, there is frequently an inability to conclude whether a project's GHG emissions represent a net global increase, reduction, or no change in GHGs compared to those that would exist if the project were not implemented. The analysis of the Project's GHG emissions is conservative in that it assumes all of the estimated GHG emissions are new additions to the atmosphere.

The California Emissions Estimator Model (CalEEMod) is a statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant and GHG emissions associated with both construction and operations from a variety of land use projects. CalEEMod was developed in collaboration with the air districts of California, who provided data (e.g., emission factors, trip lengths, meteorology, source inventory, etc.) to account for local requirements and conditions. The model is considered by SCAQMD to be an accurate and comprehensive tool for quantifying air quality and GHG impacts from land use projects throughout California.⁹³

(a) Construction

The Project's construction emissions were calculated using CalEEMod Version 2016.3.2. Details of the modeling assumptions and emission factors are provided in Appendix C of this Draft EIR. CalEEMod calculates emissions from off-road equipment usage and on-road vehicle travel associated with haul, delivery, and construction worker trips. GHG emissions during construction were forecast based on the construction assumptions included in Appendix C and applying the mobile-source and fugitive dust emissions factors derived from CalEEMod.

The calculations of emissions generated during Project construction activities reflect the types and quantities of construction equipment anticipated to be used to remove existing pavement, grade and excavate the Project Site, construct the proposed building and related improvements, and plant new landscaping within the Project Site.

As impacts from construction activities occur over a relatively short-term period of time, they contribute a relatively small portion of the overall lifetime project GHG emissions. In addition, GHG emission reduction measures for construction equipment are relatively limited. In accordance with SCAQMD's guidance, GHG emissions from construction were

⁹³ California Air Pollution Control Officers Association, California Emissions Estimator Model, CalEEModTM.

amortized (i.e., averaged annually) over the lifetime of the Project. SCAQMD defines the lifetime of a project as 30 years.⁹⁴ Therefore, total construction GHG emissions were divided by 30 to determine an annual construction emissions estimate comparable to operational emissions.

(b) Operation

Similar to construction, the SCAQMD-recommended CalEEMod is used to calculate potential GHG emissions generated by new land uses on the Project Site, including area sources, electricity, natural gas, mobile sources, stationary sources (i.e., emergency generators), solid waste generation and disposal, and water usage/wastewater generation.

With regard to area source emissions, the emissions for landscaping equipment are based on the size of the land uses (e.g., square footage or dwelling unit), the GHG emission factors for fuel combustion, and the GWP values for the GHGs emitted.

GHG emissions associated with electricity usage are based on the size of the land uses, the electrical demand factors for the land uses, the GHG emission factors for the electricity utility provider as provided by CalEEMod, and the GWP values for the GHGs emitted. As with electricity, the emissions of GHGs associated with natural gas combustion are based on the size of the land uses, the natural gas combustion factors for the land uses in units of million British thermal units (MMBtu), the GHG emission factors for natural gas combustion, and the GWP values for the GHGs emitted.

Mobile source GHG emissions are calculated based on an estimate of the Project's annual VMT, which is derived using CalEEMod default trip lengths and based on the trip generation provided in the Project's Traffic Study included as Appendix O.1 of this Draft EIR. 95,96 The CalEEMod-derived VMT values account for the daily and seasonal variations in trip frequency and length associated with new employee and visitor trips to and from the Project Site and other activities that generate a vehicle trip. The Project's annual VMT is then multiplied by an emission factor within CalEEMod (MTCO₂e/mile) to determine the total annual mobile source GHG emissions (MTCO₂e/yr).

_

⁹⁴ SCAQMD, Interim CEQA GHG Significance Threshold for Stationary Sources, Rules and Plans, 2008.

⁹⁵ Gibson Transportation Consultants, Transportation Impact Study for the Hollywood & Wilcox Project, June 2018; refer to Appendix O.1 of this Draft EIR.

VMT was calculated using CalEEMod and the results are provided in Section 2.0 of the corresponding CalEEMod output files within Appendix C of this Draft EIR. Using LADOT's VMT calculator, the Project would result in 3,423 daily VMT and a service population of 635, resulting in 5.4 VMT per capita. (Refer to the VMT Memo included as Appendix O.2 of this Draft EIR.) The analysis presented herein therefore represents a more conservative scenario

Stationary source GHG emissions are based on proposed stationary sources (i.e., emergency generators) that would be provided on the Project Site.

The emissions of GHGs associated with solid waste disposal are based on the Project's land uses, the waste disposal rates for those land uses, the waste diversion rate, the GHG emission factors for solid waste decomposition as provided by CalEEMod, and the GWP values for the GHGs emitted.

The GHG emissions related to water usage and wastewater generation are based on the proposed land uses, the water demand factors, the electrical intensity factors for water supply, treatment, and distribution and for wastewater treatment, the GHG emission factors for the electricity utility provider as provided by CalEEMod, and the GWP values for the GHGs emitted.

The GHG emissions calculations for the Project include credits or reductions for implementation of relevant Project design features set forth in this Draft EIR. The analysis of Project GHG emissions at buildout also takes into account actions and mandates already approved and expected to be in force by Project buildout (e.g., Pavley I Standards, full implementation of California's Statewide Renewables Portfolio Standard beyond current levels of renewable energy, and the California LCFS).97 In addition, as explained above, as mobile source GHG emissions are directly dependent on the number of vehicle trips, a decrease in the number of Project-generated trips as a result of Project features (e.g., close proximity to transit) will provide a proportional reduction in mobile source GHG emissions compared to a generic project without such locational benefits. Calculation of Project emissions conservatively did not include actions and mandates that are not yet in place, but are anticipated to be enforced by Project buildout (e.g., Pavley II, which could further reduce GHG emissions from use of light-duty vehicles by 2.5 percent). Similarly, GHG emissions reductions potentially attributable to operation of the Cap-and-Trade Program were not included in this analysis. By not speculating on potential regulatory conditions, the analysis takes a conservative approach that likely overestimates the Project's GHG emissions at buildout because the State is expected to continue to implement policies and programs aimed at reducing GHG emissions from the land use and transportation sectors to meet the State's long-term climate goals.

There are various methodologies to quantify the efficiency of the GHG reduction measures provided for in the plans and policies. The Project without Reduction Features scenario is one such approach, which is being used in this EIR. Consistent with evolving scientific knowledge, approaches to GHG quantification may continue to evolve in the

_

Project design features are based on relevant year 2020 targets established by AB 32 and the current CARB Scoping Plan Update.

future. To that end, another method of analyzing the efficacy of GHG emission reductions—thereby providing further support for the Project's consistency with the applicable GHG reduction plans and policies—is to compare the Project's emissions to a GHG efficiency target. A methodology based on an efficiency target analyzes a project's GHG emissions on a per service population basis to determine if the project achieves the identified level of GHG efficiency. Such an analysis for the Project is presented for informational purposes only in Appendix C of this Draft EIR.

c. Project Design Features

(1) Project Design Features

The following Project design features are proposed with regard to GHG emissions:

GHG-PDF-1: The design of the new building shall incorporate the following sustainability features:

- Optimize energy performance and reduce building energy cost by 22 percent for new/remodeled construction compared to the LEED[®] baseline of ASHRAE 90.1-2010.
 - Incorporate energy-saving technologies and components to reduce the Project's electrical use profile. Examples of these components include the use of light-emitting diode (LED) and other efficient lighting technology, energy saving lighting control systems such as light- and motion-detection controls (where applicable), and energy efficient heating, ventilation, and air conditioning (HVAC) equipment.
 - HVAC mechanical systems and building lighting shall be controlled with timing systems to prevent accidental or inappropriate conditioning or lighting of unoccupied space.
 - Demand control ventilation shall be utilized in HVAC systems, and refrigerants in HVAC equipment shall have low GHG emission rates. In particular, the HVAC system shall be designed to optimize exterior and interior air-flow to ensure healthy indoor air quality.
 - Install occupancy-controlled light switches and thermostats to permit individual adjustment of lighting, heating, and cooling to avoid unnecessary energy consumption.
 - Install time-controlled interior and exterior public area lighting limited to that necessary for safety and security.
 - Incorporate energy-efficient design methods and technologies such as a centralized chiller plant with rooftop ventilation, high performance window glazing, passive design and façade

- shading devices, high efficiency domestic water heaters, and enhanced insulation to minimize solar heat gain.
- Built-in appliances, refrigerators, and space-conditioning equipment shall meet or exceed the minimum efficiency levels mandated in the California Code of Regulations, Title 24. High efficiency Energy Star-rated products and appliances shall be installed, as available.
- Fenestration shall be designed for solar orientation (i.e., window systems shall be designed to reduce thermal gain and loss), thus reducing cooling loads during warm weather and heating loads during cool weather.
- A large percentage of exterior walls shall be finished with light colored materials and high-emissivity characteristics to reduce cooling loads.
- Use of water-efficient plantings with drought-tolerant species.
- Reduce outdoor water use by 30 percent below baseline requirements.
- Reduce indoor water use by 35 percent below baseline requirements.
- Conduct a performance check of the installed space-conditioning system prior to issuance of a Certificate of Occupancy to ensure that energy-efficiency measures incorporated into the Project operate as designed.
- Complete post-construction commissioning of building energy systems prior to issuance of a Certificate of Occupancy.
- Explore the feasibility of energy-saving variable frequency drive technology on domestic water pumps or ventilation fans, if applicable and necessary.
- Allocate preferred parking for alternative-fuel vehicles, low-emitting, and fuel-efficient and ride-sharing vehicles.
- GHG-PDF-2: Electric Vehicle Charging Stations. The Project shall include at least twenty (20) percent of the total code required parking spaces provided for all types of parking facilities, but in no case less than one location, shall be capable of supporting future electric vehicle supply equipment (EVSE). Plans shall indicate the proposed type and location(s) of EVSE and also include raceway method(s), wiring schematics and electrical calculations to verify that the electrical system has sufficient capacity to simultaneously charge all electric vehicles at all designated EV charging locations at their full rated amperage. Plan design shall be based upon Level 2 or greater EVSE at its maximum operating ampacity. Of the 20 percent EV Ready, ten

- (10) of the total code required parking spaces shall be further provided with EV chargers to immediately accommodate electric vehicles within the parking areas. When the application of either the 20 percent or 10 percent results in a fractional space, round up to the next whole number. A label stating "EV CAPABLE" shall be posted in a conspicuous place at the service panel or subpanel and next to the raceway termination point.
- **GHG-PDF-3:** The Project will provide a minimum of 105 kilowatts of photovoltaic panels on the Project Site.
- **GHG-PDF-4:** The residential units within the Project will not include the use of natural gas fueled fireplaces.
- GHG-PDF-5: Prior to issuance of a Temporary Certificate of Occupancy for the Project, the Applicant shall commit to providing to the lead agency, the City of Los Angeles, a calculation of the net additional emissions resulting from the construction of the Project, to be calculated in accordance with the methodology agreed upon by CARB in connection with the AB 900 certification of the Project. The Applicant shall provide courtesy copies of the calculations to CARB and the Governor's Office promptly following transmittal of the calculations to the City of Los Angeles. The Applicant shall enter into one or more contracts for the implementation of GHG-reducing Project Design voluntary carbon credits from an purchase Features and/or accredited carbon registry in an amount sufficient to offset the Construction Emissions. The Applicant shall provide courtesy copies of any such contracts to CARB and the Governor's Office promptly following the execution of such contracts.
- GHG-PDF-6: Prior to issuance of any Temporary Certificate of Occupancy for the Project, the Applicant or its successor shall commit to entering into one or more contracts to purchase carbon credits from an accredited carbon registry, which contract, together with any previous contracts for the purchase of carbon credits, shall evidence the purchase of carbon credits in an amount sufficient to offset the Operational Emissions attributable to the Project, and shall be calculated on a net present value basis for a 30-year useful life.

The Applicant also would incorporate Project features to further support and promote environmental sustainability. The Project would comply with all applicable state and local regulatory requirements, including the provisions set forth in the City's Green Building Ordinance. The Project also would include water conservation and solid waste reduction measures as set forth in Section IV.K.1, Utilities and Service Systems—Water Supply and Infrastructure, of this Draft EIR, and the Project's Initial Study, included as Appendix A of this Draft EIR.

The Project is also certified as an environmental leadership project under AB 900, the Jobs and Economic Improvement through Environmental Leadership Act (see Appendix B of this Draft EIR). As part of its commitment under AB 900, the Project would, among other features, be LEED Gold[®] certified, achieve a 15-percent greater standard for transportation efficiency than for comparable projects (see Project Design Feature TR-PDF-2 in Section IV.I, Transportation, of this Draft EIR), and achieve net-zero GHG emissions (see Project Design Features GHG-PDF-5 and GHG-PDF-6).

(2) Relevant Project Characteristics

As described in detail in Section II, Project Description, of this Draft EIR, the Project involves the development of a mixed-use building ranging from 1 to 15 stories, consisting of 260 multi-family residential units (comprising an estimated 261,092 square feet), plus 14,220 square feet of ground level commercial retail and restaurant uses, and 3,580 square feet of office uses. In addition, the Project would also rehabilitate and restore the existing 9,000-square-foot Attie Building which will continue to be used for commercial purposes upon buildout of the Project. Parking would be provided within two subterranean, one at-grade and two above-grade levels. The Project's vehicular trip generation characteristics are discussed in Section IV.I, Transportation, of this Draft EIR.

d. Analysis of Project Impacts

Threshold (a): Would the Project generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment?

Threshold (b): Would the Project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHG?

(1) Impact Analysis

(a) Consistency with Applicable Plans and Policies

As described above, compliance with applicable GHG emissions reduction plans would result in less-than-significant project and cumulative impacts. The following section describes the extent to which the Project complies with or exceeds the performance-based standards included in the regulations outlined in the 2008 Climate Change Scoping Plan and subsequent updates, the 2016–2040 RTP/SCS, AB 900, and the Sustainable City pLAn/L.A.'s Green New Deal. As shown herein, the Project would be consistent with the applicable GHG reduction plans and policies.

(i) Climate Change Scoping Plan

Project GHG emissions have been quantified, and as shown in Table IV.E-10 on page IV.E-73 in the analysis below, the Project would result in a net increase of 1,042 MTCO₂e annually. The breakdown of emissions by source category shows less than 1 percent from area sources; 39 percent from energy consumption; 43 percent from mobile sources; less than 1 percent from stationary sources; 3 percent from solid waste generation; 6 percent from water supply, treatment, and distribution; and 8 percent from construction activities. Provided in Table IV.E-5 on page IV.E-51 is an evaluation of applicable reduction actions/strategies outlined in the Climate Change Scoping Plan that through implementation would serve to indirectly reduce Project GHG emissions.⁹⁸ Further evaluation of project design features and specific applicable policies and measures in the Climate Change Scoping Plan is provided in Table IV.E-6 on page IV.E-54. As detailed therein, the Project would not conflict with the Climate Change Scoping Plan which is intended to reduce GHG emissions.

Although a number of these measures are currently established as policies and measures, some measures have not yet been formally proposed or adopted. It is expected that these measures or similar actions to reduce GHG emissions will be adopted as required to achieve statewide GHG emissions targets.

As such, based on the analysis above and below, the Project would not conflict with the GHG reduction-related actions and strategies in the 2008 Climate Change Scoping Plan and subsequent updates, and impacts would be less than significant.

(ii) 2016-2040 RTP/SCS

As previously discussed, the purpose of SB 375 is to implement the State's GHG emissions reduction goals by integrating land use planning with the goal of reducing car and light-duty truck travel. Under SB 375, the primary goal of the 2016–2040 RTP/SCS is to provide a framework for future growth that will decrease per capita GHG emissions from cars and light-duty trucks based on land use planning and transportation options. To accomplish this goal, the 2016–2040 RTP/SCS identifies various strategies to reduce per capita VMT.

The 2016–2040 RTP/SCS is expected to help SCAG reach its GHG reduction goals, as identified by CARB, with reductions in per capita transportation emissions of 9 percent passenger vehicle GHG emissions by 2020 and 16 percent passenger vehicle GHG

⁹⁸ CARB, 2014 Update, May 2014, p. 4.

Table IV.E-5 Mandatory Regulatory Compliance Measures within the Climate Change Scoping Plan

Mandatory Regulatory Compliance Measures

Area (less than 1 percent of Project inventory)

SCAQMD Rule 445 (Wood Burning Devices): As required under this rule, the Project would not include any wood burning cooking stoves or fire places. Furthermore, GHG-PDF-4 requires the Project to not include natural gas-fueled fireplaces in the proposed residential units. This reduction in GHG emissions was calculated within CalEEMod modeling.

Energy (39 percent of Project inventory)

RPS Program and SB 2X: The California RPS program (Updated under SB 2X) requires both public and investor-owned utilities in California receive at least 33 percent of their electricity from renewable sources by the year 2020. SB 350 further requires 50 percent renewables by 2030.^a In 2019, LADWP indicated that 32 percent of its electricity came from renewable resources in Year 2018.^b Electricity GHG emissions provided in Table IV.E-10 on page IV.E-73 assume that LADWP will receive at least 33 percent of its electricity from renewable sources by the year 2020 and 50 percent by the year 2030 (with a straight line interpolation for the Project buildout year of 2023) consistent with SB 350. The CalEEMod default carbon intensity for electricity generated by LADWP (pounds of CO₂e per MWh) is based on a year 2007 renewables portfolio of 8 percent and was therefore updated within CalEEMod to reflect the year 2023 renewables portfolio. Please note that under recently passed SB 100, LADWP is required to generate electricity that would increase renewable energy resources to 50 percent by 2026 and, 60 percent by 2030, and 100 percent by 2045. The Project complies with these percentage renewable requirements inasmuch as the Project is served by LADWP, which is committed to achieving the increase in renewable energy resources by the required dates.

The electricity-related GHG emissions provided in Table IV.E-10 on page IV.E-73 conservatively do not account for the additional 8-percent reduction that would be achieved by LADWP in year 2023 prior to buildout of the Project (difference between the 42 percent renewables assumed for the buildout year of 2023 and 50 percent required under SB 100 in year 2026) or 18 percent reduction achieved by LADWP in year 2030 (difference between the 42 percent renewables assumed for the buildout year of 2023 and 60 percent required under SB 100 in year 2030). Given LADWP's progress towards meeting and exceeding the established targets as well as penalties for non-compliance, it is assumed LADWP will comply.

SB 350: As required under SB 350, doubling of the energy efficiency savings from final end uses of retail customers by 2030 would primarily rely on the existing suite of building energy efficiency standards under CCR Title 24, Part 6 (discussed below) and utility-sponsored programs such as rebates for high-efficiency appliances, HVAC systems, and insulation. The Project would further support this regulation since Project Design Feature GHG-PDF-1, would require the Project to implement measures to reduce overall energy usage compared to baseline conditions.

Energy Independence and Security Act of 2007 (EISA): EISA requires phasing out of incandescent light bulbs sold in the United States resulting in 25 percent greater light bulb efficiency in 2014 and 200 percent greater efficiency in 2020. CalEEMod does not incorporate this nationwide reduction in electricity usage associated with lighting. As the Project would benefit from implementation of the EISA, electricity GHG emissions provided in Table IV.E-10 on page IV.E-73 conservatively account for a 25-percent reduction in lighting electricity consumption.

Cap-and-Trade Program: As required by AB 32 and the *Climate Change Scoping Plan*, the Cap-and-Trade Program covers the GHG emissions associated with electricity consumed in California, whether generated in-state or imported. Accordingly, this regulatory program applies to electric service providers and not directly to land use development. That being said, the Project would benefit from this regulatory program in that the GHG

Table IV.E-5 (Continued) Mandatory Regulatory Compliance Measures within the Climate Change Scoping Plan

Mandatory Regulatory Compliance Measures

emissions associated with the Project's electricity usage per year presented in Table IV.E-10 on page IV.E-73 would indirectly be covered by the Cap-and-Trade Program. Furthermore, the Cap-and-Trade Program also covers the GHG emissions associated with the combustion of transportation fuels in California, whether refined in-state or imported. While not quantified in this analysis, the Project would benefit from this regulatory program in that the GHG emissions associated with the Project's electricity usage would indirectly be covered by the Cap-and-Trade Program.

Mobile (43 percent of Project inventory)

Advanced Clean Cars Program: CARB approved the Advanced Clean Cars Program in 2012 which establishes an emissions control program for model year 2017 through 2025 and increasing the number of zero emission vehicles manufactured in the 2018 through 2025 model years. Standards under the Advanced Clean Cars Program apply to all passenger and light duty trucks within California and indirectly used by employees and deliveries to the Project. Mobile source GHG emissions provided in Table IV.E-10 on page IV.E-73 conservatively do not include this additional 34 percent reduction in mobile source emissions as the CalEEMod model default fleet mix for the Air Basin does not yet account for this regulation. The Project would further support this regulation since the Applicant will provide at least 20 percent of the total parking spaces provided to be capable of supporting future EVSE as required by AB 900.

The Scoping Plan recommends additional mobile source strategies through the extension of the Advanced Clean Cars Program which are expected to increase GHG stringency on light duty autos and continue adding zero emission and plug in vehicles through 2030. CARB is also developing the Innovative Clean Transit measure to encourage purchase of advanced technology buses such as alternative fueled or battery powered buses. This would allow fleets to phase in cleaner technology in the near future. CARB is also in the process of developing proposals for new approaches and strategies to achieve zero emission trucks under the Advanced Clean Local Trucks (Last Mile Delivery) Program. Although the Innovative Clean Transit and Advanced Clean Local Truck Programs have not yet been established, the Modified Project would also indirectly benefit from these measures once adopted.

Low Carbon Fuel Standard (LCFS): The current LCFS, adopted in 2007, requires a reduction of at least 10 percent in the carbon intensity (CI) of California's transportation fuels by 2020. CalEEMod includes implementation of LCFS into the calculation of GHG emissions from mobile sources. However, the LCFS was amended in September 2018 to target a 20-percent reduction in CI from a 2010 baseline by 2030.^e This additional 10-percent reduction in CI would indirectly reduce the Project's mobile source emissions.

Solid Waste (3 percent of Project inventory)

California Integrated Waste Management Act of 1989: The regulation requires each jurisdiction's source reduction and recycling element to include a diversion of 50 percent of all solid waste by 2000. AB 341 (2011) amended the regulation to include a provision declaring that it is the policy goal of the state that not less than 75 percent of solid waste generated be source reduced, recycled, or composted by the year 2020, and annually thereafter. The Project complies with these percentage recycling requirements inasmuch as the Project is served by the City of Los Angeles, which currently achieves a diversion rate of 76 percent. Project-related GHG emissions from solid waste generation provided in Table IV.E-10 on page IV.E-73 includes a 76-percent reduction in solid waste generation source emissions consistent with the minimum diversion rate required for the City of Los Angeles (CalEEMod default diversion rate is zero percent). The Applicant must also only contract for waste disposal

Table IV.E-5 (Continued) Mandatory Regulatory Compliance Measures within the Climate Change Scoping Plan

Mandatory Regulatory Compliance Measures

services with a company that recycles solid waste in compliance with AB 341. In addition, the Project would provide recycling bins at appropriate locations to promote recycling of paper, metal, glass and other recyclable material. Further, the Project would recycle and/or salvage at least 75 percent of non-hazardous construction and demolition debris, and the Applicant would prepare a construction waste management plan that, at a minimum, identifies the materials to be diverted from disposal and whether the materials will be sorted on-site or comingled.

- ^a SB 350 (2015–2016 Regular Session) Stats 2015, Ch. 547.
- b CEC, Annual Power Content Labels for 2018, LADWP, July 2019.
- CARB, Advance Clean Cars, Midterm Review, ww2.arb.ca.gov/resources/documents/2017-midterm-review-report, accessed January 17, 2020.
- d CARB, Advanced Clean Local Truck, ww2.arb.ca.gov/our-work/programs/advanced-clean-trucks, accessed January 17, 2020.
- CARB, LCFS Rulemaking Documents, www.arb.ca.gov/fuels/lcfs/rulemakingdocs.htm, last reviewed by CARB October 1, 2019, accessed January 17, 2020.
- ^f California Integrated Waste Management Act of 1989 and AB 341.
- g AB 341 (2011).

Source: Eyestone Environmental, 2020.

Table IV.E-6
Consistency Analysis—Climate Change Scoping Plan

Actions and Strategies California Code of Regulations (CCR), Title 20: The 2016 Appliance Efficiency Regulations, adopted by the California Energy Commission (CEC), include standards for new appliances (e.g., refrigerators) and lighting, if they are sold or offered for sale in California.	Responsible Party(ies) State and CEC	Project Consistency Analysis No Conflict. The Appliance Efficiency Regulations apply to new appliances and lighting that are sold or offered for sale in California. The Project would be outfitted with appliances and lighting that comply with CEC standards. In addition, GHG-PDF-1 would require the Project to optimize energy performance and reduce building energy cost by 22 percent for new/remodeled construction compared to the LEED® baseline of ASHRAE 90.1-2010. In addition, implement other sustainability features such as Energy Star appliances and efficient lighting, thus reducing overall energy usage compared to baseline conditions.
CCR Title 24, Building Standards Code: The 2019 Building Energy Efficiency Standards contained in Title 24, Part 6 (also known as the California Energy Code), requires the design of building shells and building components to conserve energy. The standards are updated periodically to allow for consideration and possible incorporation of new energy efficiency technologies and methods. The California Green Building Standards Code (Part 11, Title 24) established mandatory and voluntary standards on planning and design for sustainable site development, energy efficiency (extensive update of the California Energy Code), water conservation, material conservation, and internal air contaminants.	State and CEC	No Conflict. Consistent with regulatory requirements, the Project shall comply with applicable provisions of the Los Angeles Green Building Code, which in turn requires compliance with mandatory standards included in the California Green Building Standards. Once rooftop solar electricity is factored in, homes built under the 2019 Building Energy Efficiency Standards will use about 53 percent less energy than those under the 2016 standards and nonresidential buildings will use about 30 percent less energy due mainly to lighting upgrades. ^a The 2019 Title 24 standards are more efficient than the 2020 Projected Emissions under Business-as-Usual in the 2008 Climate Action Scoping Plan. The Project would further comply with this regulation since GHG-PDF-1 would require the Project to optimize energy performance and reduce building energy cost by 22 percent for new/remodeled construction compared to the LEED® baseline of ASHRAE 90.1-2010. In addition, implement other sustainability features, thus reducing overall energy usage compared to baseline conditions. Thus, the Project has incorporated energy efficiency standards that are substantially more effective than the measures identified in the <i>Climate Action Scoping Plan</i> to reduce GHG emissions.
AB 1109: The Lighting Efficiency and Toxic Reduction Act prohibits a person from manufacturing or selling		No Conflict. The Project would not conflict with the requirements under AB 1109 because it complies with local and state green building

Actions and Strategies	Responsible Party(ies)	Project Consistency Analysis
general purpose lights that contain certain levels of hazardous substances in the state and requires the establishment of minimum energy efficiency standards for all general service incandescent lamps. The standards are structured to reduce average statewide electrical energy consumption by not less than 50 percent from the 2007 levels for indoor residential lighting and not less than 25 percent from the 2007 levels for indoor commercial and outdoor lighting by 2018. ^b		programs and incorporates energy efficient lighting and electricity consumption with implementation of GHG-PDF-1. As discussed above, this reduction was not reflected in CalEEMod default assumptions and was therefore included in the calculation of Project GHG emissions.
SB 375: SB 375 requires integration of planning processes for transportation, land-use and housing. Under SB 375, each Metropolitan Planning Organization would be required to adopt a Sustainable Community Strategy (SCS) to encourage compact development that reduces passenger vehicle miles traveled and trips so that the region will meet a target, created by CARB, for reducing GHG emissions.	State, CARB Regional, SCAG	No Conflict. SB 375 requires SCAG to direct the development of the SCS for the region, which is discussed further below. The Project represents an infill development within an existing urbanized area that would concentrate new residential, office, and commercial retail uses within an HQTA. Therefore, the Project would be consistent with SCAG's 2016–2040 RTP/SCS, as it is located within an HQTA. As discussed above, the Project results in a mobile GHG emissions reduction of approximately 75 percent (see Appendix C of this Draft EIR) compared to a Project without Reduction Features and would therefore exceed the reduction targets in the 2016–2040 RTP/SCS and CARB's updated 2035 target (a maximum 21-percent decrease in per capita GHG emissions from passenger vehicles by 2040). Therefore, the Project would be consistent with SB 375, the reduction in transportation emission per capita provided in the 2016–2040 RTP/SCS, and with CARB's updated 2035 target.
By 2019, adjust performance measures used to select and design transportation facilities. • Harmonize project performance with emissions reductions, and increase competitiveness of transit and active transportation modes (e.g. via guideline documents, funding programs, project selection, etc.).	CalSTA and SGC, OPR, CARB, GoBiz, IBank, DOF, CTC, Caltrans	No Conflict. The Project would not involve construction of transportation facilities. However, the Project Site is located less than 0.5 mile from the Metro Red Line Hollywood and Vine rail station. The Project benefits from this station by encouraging use of mass transit resulting in a reduction of Project-related vehicle trips to and from the Project Site.

Hollywood & Wilcox Draft Environmental Impact Report City of Los Angeles February 2020

Actions and Strategies	Responsible Party(ies)	Project Consistency Analysis
By 2019, develop pricing policies to support low-GHG transportation (e.g. low-emission vehicle zones for heavy duty, road user, parking pricing, transit discounts).	CalSTA, Caltrans, CTC, OPR/SGC, CARB	No Conflict. The Project would support this policy since the Applicant would provide electric vehicle charging stations and electric vehicle supply wiring consistent with GHG-PDF-2.
 Implement California Sustainable Freight Action Plan: Improve freight system efficiency. Deploy over 100,000 freight vehicles and equipment capable of zero emission operation and maximize both zero and near-zero emission freight vehicles and equipment powered by renewable energy by 2030. 	CARB	Not Applicable. The Project land uses would not include freight transportation or warehousing. Therefore, the Project would not interfere or impede the implementation of the Sustainable Freight Action Plan.
CCR, Title 24, Building Standards Code: The California Green Building Standards Code (Part 11, Title 24) includes water efficiency requirements for new residential and non-residential uses, in which buildings shall demonstrate a 20-percent overall water use reduction.	State	Consistent. Water usage rates were calculated consistent with WAT-PDF-1, which reflects approximately a 35 percent reduction in indoor water use and a 30 percent reduction in outdoor water usage as compared to the base demand.
SB X7-7: The Water Conservation Act of 2009 sets an overall goal of reducing per-capita urban water use by 20 percent by December 31, 2020. The state is required to make incremental progress toward this goal by reducing per-capita water use by at least 10 percent by December 31, 2015. This is an implementing measure of the Water Sector of the AB 32 Scoping Plan. Reduction in water consumption directly reduces the energy necessary and the associated emissions to convene, treat, and distribute the water; it also reduces emissions from wastewater treatment.	State	Consistent. As discussed above under Title 24, the Project would incorporate water conservation features that would contribute towards meeting this performance based standard. WAT-PDF-1 in Section IV.I.K, Utilities and Service Systems—Water Supply and Infrastructure, of this Draft EIR provides a specific list of water conservation measures. The Project thereby includes measures consistent with the GHG reductions sought by SB X7-7 related to water conservation and related GHG emissions.

Actions and Strategies	Responsible Party(ies)	Project Consistency Analysis
CARB In-Use Off-Road Regulation: CARB's in-use off- road diesel vehicle regulation ("Off-Road Diesel Fleet Regulation") requires the owners of off-road diesel equipment fleets to meet fleet average emissions standards pursuant to an established compliance schedule.		Consistent. The Applicant would use construction contractors that comply with this regulation.
CARB In-Use On-Road Regulation: CARB's in-use on-road heavy-duty vehicle regulation ("Truck and Bus Regulation") applies to nearly all privately and federally owned diesel fueled trucks and buses and to privately and publicly owned school buses with a gross vehicle weight rating greater than 14,000 pounds.	CARB	Consistent. The Applicant would use construction contractors that comply with this regulation.
 Implement the Short-Lived Climate Pollutant Strategy by 2030: 40-percent reduction in methane and hydrofluorocarbon emissions below 2013 levels. 50-percent reduction in black carbon emissions below 2013 levels. 	CARB, CalRecycle, CDFA, SWRCB, Local air districts	No Conflict. SB 605 was adopted in 2014 which directs CARB to develop a comprehensive Short-Lived Climate Pollutant (SLCP) strategy. SB 1383 was later adopted in 2016 to require CARB to set statewide 2030 emission reduction targets of 40 percent for methane and hydrofluorocarbons and 50 percent black carbon emissions below 2013 levels. ^d
2013 levels.		The Project would comply with the CARB SLCP Reduction Strategy which limits the use of hydrofluorocarbons for refrigeration uses.
By 2019, develop regulations and programs to support organic waste landfill reduction goals in the SLCP and SB 1383.	CARB, CalRecycle, CDFA, SWRCB, Local air districts	No Conflict. Under SB 1383, the California Department of Resources Recycling and Recovery (CalRecycle) is responsible for achieving a 50-percent reduction in the level of statewide disposal of organic waste from the 2014 level by 2020 and 75-percent reduction by 2025. As of March 2018, CalRecycle was currently holding workshops to review draft regulatory language. Regulations to achieve SB 1383 targets are expected to take effect in 2022.e
		The Project would be consistent with AB 341, which requires not less than 75 percent of solid waste generated be source reduced through recycling, composting or diversion. Reduction in solid waste generated

Hollywood & Wilcox
Draft Environmental Impact Report

City of Los Angeles February 2020

Actions and Strategies	Responsible Party(ies)	Project Consistency Analysis
		by the Project would reduce overall GHG emissions. Compliance with AB 341 would also help achieve the goals of SB 1383.

^a CEC, 2019 Building Energy Efficiency Standards, Fact Sheet.

Source: Eyestone Environmental, 2020.

^b 2007b. AB 1109 (2007–2008 Reg. Session) Stats. 2007, Ch. 534.

CARB, Truck and Bus Regulation, ww2.arb.ca.gov/our-work/programs/truck-and-bus-regulation, accessed January 17, 2020.

^d CARB, Reducing Short-Lived Climate Pollutants in California, ww2.arb.ca.gov/our-work/programs/short-lived-climate-pollutants, accessed January 17, 2020.

CalRecycle, Short-Lived Climate Pollutants (SLCP): Organic Waste Methane Emissions Reductions, www.calrecycle.ca.gov/climate/slcp/, accessed January 17, 2020.

emissions by 2035.⁹⁹ In March 2018, the CARB updated the SB 375 targets to require a per capita passenger vehicle emissions reduction of 8-percent reduction by 2020 and a 19-percent decrease in VMT for the SCAG region by 2035 compared to baseline (2005) GHG emissions.¹⁰⁰ As these reduction targets were updated after the 2016–2040 RTP/SCS, it is expected that the next iteration of the RTP/SCS will be updated to include these targets. The 2016–2040 RTP/SCS and/or the next RTP/SCS are expected to fulfill and exceed SB 375 compliance with respect to meeting the State's GHG emission reduction goals.

In addition to demonstrating the region's ability to attain and exceed the GHG emission-reduction targets set forth by CARB, the 2016–2040 RTP/SCS outlines a series of actions and strategies for integrating the transportation network with an overall land use pattern that responds to projected growth, housing needs, changing demographics, and transportation demands. Thus, successful implementation of the 2016–2040 RTP/SCS would result in more complete communities with a variety of transportation and housing choices, while reducing automobile use. With regard to individual developments, such as the Project, the strategies and policies set forth in the 2016–2040 RTP/SCS can be grouped into the following three categories: (1) reduction of vehicle trips and VMT; (2) increased use of alternative fuel vehicles; and (3) improved energy efficiency. These strategies and policies are addressed below.

Consistency with Integrated Growth Forecast

The 2016–2040 RTP/SCS provides socioeconomic forecast projections of regional population growth. The population, housing, and employment forecasts, which are adopted by SCAG's Regional Council, are based on the local plans and policies applicable to the specific area; these are used by SCAG in all phases of implementation and review. According to the 2016–2040 RTP/SCS, the forecasted population for the City of Los Angeles Subregion in 2016 was 3,945,849 persons. In 2023, the projected occupancy year of the Project, the City of Los Angeles Subregion is anticipated to have a population of 4,145,604 persons. Based on a household size factor of 2.42 persons per household for multi-family housing units, the Project is estimated to generate a residential population of 630 persons at full buildout.¹⁰¹ The estimated 630 new residents generated by the Project would represent approximately 0.33 percent of the population growth forecasted by SCAG in the City of Los Angeles Subregion between 2016 and 2023. With regard to employment

_

⁹⁹ CARB, Regional Greenhouse Gas Emission Reduction Targets Pursuant to SB 375, Resolution 10-31.

¹⁰⁰ CARB, SB 375 Regional Greenhouse Gas Emissions Reduction Targets (2018).

¹⁰¹ Based on a rate of 2.42 persons per multi-family unit based on the 2017 American Community Survey 5-Year Average Estimates per correspondence with Jack Tsao, Data Analyst II, Los Angeles Department of City Planning, July 31, 2019.

during operation of the Project, the Project's commercial component would result in 39 permanent jobs based on employee generation rates published by the Los Angeles Unified School District (LAUSD) and based on the Applicant's other properties, the Project's residential component would result in an additional 13 jobs for a total of 52 permanent jobs. According to the 2016–2040 RTP/SCS, the employment forecast for the City of Los Angeles Subregion in 2016 was approximately 1,763,929 employees. ¹⁰² In 2023, the City of Los Angeles Subregion is anticipated to have 1,834,339 employees. ¹⁰³ Thus, the Project's 52 estimated employees would constitute approximately 0.05 percent of the employment growth forecasted between 2016 and 2023. Because similar projections form the basis of the 2016 AQMP, it can be concluded that the Project would be consistent with the projections in the AQMP. Please refer to Section IV.F, Land Use, of this Draft EIR, for additional information regarding consistency with the 2016–2040 RTP/SCS, as well as the Project's Initial Study included as Appendix A of this Draft EIR, for information regarding Project consistency with SCAG's growth projections.

Consistency with VMT Reduction Strategies and Policies

The 2016–2040 RTP/SCS includes, for the SCAG region as a whole, a daily 22.8 Total VMT per capita for the 2012 Base Year, and a daily 20.5 Total VMT per capita for the 2040 Plan Year. For Los Angeles County, the 2012 Base Year projected daily Total VMT per capita is 21.5 and 18.4 daily Total VMT per capita for the 2040 Plan Year. To analyze the Project's consistency with this aspect of the 2016–2040 RTP/SCS, the Project's Total Daily VMT was divided by the Project's service population to arrive at the per capita Total Daily VMT estimates The estimate, as provided in Table IV.E-7 on page IV.E-61, was compared to the VMT data for the region and Los Angeles County provided by the 2016 RTP/SCS; in both instances, the Project's per capita Total VMT estimate was lower.

The Project would be designed and constructed to incorporate features to support and promote environmental sustainability. As discussed above, the Project represents an infill development within an existing urbanized area that would introduce new uses on the Project Site, including new residential, retail, office, and restaurant uses within an HQTA. The increases in land use diversity and mix of uses on the Project Site would reduce vehicle trips and VMT by encouraging walking and non-automotive forms of transportation. The Project Site is also located approximately 0.25 mile from the Hollywood/Vine Metro Red Line station and is served by eight Metro local bus lines and three DASH bus lines, and one LADOT Commuter Express bus line. The Project would also provide required

_

¹⁰² Based on a linear interpolation of 2012–2040 data.

¹⁰³ Based on a linear interpolation of 2012–2040 data.

Table IV.E-7
Comparison of Project Total VMT per Capita to 2016–2040 RTP/SCS

Scenario	Daily Weekday Trips		
Total VMT (Project) ^a	5,765 Daily VMT		
Service Population ^b	609		
Total VMT Per Capita	9.5 VMT/Capita (Daily)		

VMT was calculated using CalEEMod and the results are provided in Section 2.0 of the corresponding CalEEMod output files within Appendix C of this Draft EIR. Using LADOT'S VMT calculator, the Project would result in 3,423 daily VMT and a service population of 635, resulting in 5.4 VMT per capita. (Refer to the VMT Memo included as Appendix O.2 of this Draft EIR.) The analysis presented herein therefore represents a more conservative scenario.

Source: Eyestone Environmental, 2020.

short- and long-term bicycle parking spaces in compliance with the requirements of the LAMC. The increase in transit accessibility and the bicycle parking spaces provided on-site would further reduce vehicle trips and VMT by encouraging walking and non-automotive forms of transportation.

As shown in Appendix C of this Draft EIR, the Project design includes characteristics that would reduce trips and VMT as compared to a standard project within the air basin as measured by CalEEMod. These relative reductions in vehicle trips and VMT from a standard project within the air basin help quantify the GHG emissions reductions achieved by locating the Project in an infill, HQTA area that promotes alternative modes of transportation. Specifically, the Project characteristics listed below are consistent with the CAPCOA guidance document, *Quantifying Greenhouse Gas Mitigation Measures*, which identifies the VMT and vehicle trips reductions for the Project Site relative to the standard trip and VMT rates in CalEEMod, which corresponds to reduction relative to GHG emissions. Measures applicable to the Project include the following; a brief description of the Project's relevance to the measure is also provided below. Detailed calculations are presented in Appendix C of this Draft EIR.

CAPCOA Measure LUT-1—Increase Density: Increased density, measured in terms of persons, jobs, or dwelling units per unit area, reduces emissions associated with transportation as it reduces the distance people travel for work or services and provides a foundation for the implementation of other strategies, such as enhanced transit services. The Project would increase the site density from 0 dwelling units per acre to 186 dwelling units per acre. Job density would decrease from 56 jobs per acre to 40 jobs per acre.

^b The Service Population includes the estimated number of residents (632) and workers (reduction of 23) in comparison to existing conditions.

CAPCOA Measure LUT-3—Increase Diversity of Urban and Suburban Developments (Mixed-Uses): The Project would introduce new uses on the Project Site, including new residential, retail, and office uses. The Project would locate complementary new residential, retail and office uses in proximity to other existing off-site residential, office, retail, restaurant, and hotel uses. The increases in land use diversity and mix of uses on the Project Site would reduce vehicle trips and VMT by encouraging walking and non-automotive forms of transportation (i.e., walking and biking), which would result in corresponding reductions in transportation-related emissions.

CAPCOA Measure LUT-5—Increase Transit Accessibility: The Project Site will be located approximately 0.25 mile from the Metro Red Line Hollywood/Vine Station as well as 12 bus lines on Hollywood Boulevard that would encourage and support use of public transportation. The Project would also provide bicycle parking spaces for the proposed uses to encourage utilization of alternative modes of transportation.

CAPCOA Measure LUT-9—Improve Design of Development: The Project would add community-serving retail and restaurant along Hollywood Boulevard. Additional retail and restaurant uses as well as residential amenities including a lobby area and lounge would be located along Wilcox Avenue. An outdoor courtyard, which could be used as an outdoor seating/dining area for a restaurant, would also be incorporated to the north of the commercial use at ground-level along Wilcox Avenue and would be publicly accessible during business hours. The Project would include a high level of street access, which improves street accessibility and connectivity.

CAPCOA Measure SDT-1—Provide Pedestrian Network Improvements: Project design would provide pedestrian access that minimizes barriers and links the Project Site with existing or planned external streets to encourage people to walk instead of drive. The Project would provide several improvements, such as direct access to the existing off-site pedestrian network including existing off-site sidewalks along Hollywood Boulevard and Wilcox Avenue, to encourage and increase pedestrian activities in the area, which would further reduce VMT and associated transportation-related emissions.

CAPCOA Measure SDT-2—Traffic Calming Measures: The Project would be located in an area with traffic calming measures to encourage people to walk or bike instead of using a vehicle. This mode shift results in a decrease in VMT. Streets within 0.5 mile of the Project Site are equipped with sidewalks.

As shown in Table IV.E-7 on page IV.E-61, the Project's daily 9.5 Total Project VMT per capita would be well below the SCAG region's daily 20.5 Total VMT per capita for the 2040 Plan Year and Los Angeles County's 18.4 daily Total VMT per capita for the 2040 Plan Year. In addition, the Project would result in a VMT reduction of approximately

67 percent in comparison to a Project without Reduction Features as estimated by CalEEMod and a 75-percent reduction in GHG emissions from mobile sources, which would be consistent with the reduction in transportation emission per capita provided in the 2016–2040 RTP/SCS. This reduction is attributable to the Project characteristics of being an infill development near transit that supports multi-modal transportation options.

The Project would also be consistent with the following key GHG reduction strategies in SCAG's 2016–2040 RTP/SCS, which are based on changing the region's land use and travel patterns:

- Compact growth in areas accessible to transit;
- More multi-family housing;
- Jobs and housing closer to transit;
- New housing and job growth focused in HQTAs; and
- Biking and walking infrastructure to improve active transportation options and transit access.

The Project represents an infill development within an existing urbanized area that would concentrate new residential, office, and commercial retail uses within an HQTA, which is defined by the 2016-2040 RTP/SCS as a generally walkable transit village or corridor that is within 0.5 mile of a well-serviced transit stop or a transit corridor with 15-minute or less service frequency during peak commute hours (see Section IV.D, Land Use, of this Draft EIR for further discussion). The Project Site is located approximately 0.25 mile from the Hollywood/Vine Metro Red Line station and is served by eight Metro local bus lines, three DASH bus lines, and one LADOT Commuter Express bus line. The Project would provide 35 short-term and 269 long-term bicycle parking spaces to further encourage biking. The Project would also enhance pedestrian activity along Hollywood Boulevard and Wilcox Avenue through building design and proposed streetscape amenities by providing ground-level community-serving retail and restaurant use. Streetscape amenities provided by the Project would include a row of street trees on Wilcox Avenue, pedestrian-scale lighting fixtures and elements, and landscaped outdoor seating areas. The Project would also widen the sidewalk by five feet along a portion of Wilcox Avenue, increase transparency along Wilcox Avenue by locating the residential lobby and amenities there, and locating vehicular loading and drop-off within the parking structure, out of sight of the sidewalk. Furthermore, the Project Site was designed to encourage walkability through a mix of uses. These and other measures would further promote a reduction in VMT and subsequent reduction in GHG emissions, which would be consistent with the goals of SCAG's 2016-2040 RTP/SCS.

Increased Use of Alternative Fueled Vehicles Policy Initiative

The second goal of the 2016–2040 RTP/SCS, with regard to individual development projects such as the Project, is to increase alternative fueled vehicles to reduce per capita GHG emissions. This 2016–2040 RTP/SCS policy initiative focuses on providing charge port infrastructure and accelerating fleet conversion to electric or other near zero-emission technologies. The Project would provide at least 20 percent of the total Code-required parking spaces provided to be capable of supporting future EVSE and will further improve at least 10 percent of the total Code-required parking spaces with EV charging stations as dictated by GHG-PDF-2.

Energy Efficiency Strategies and Policies

The third important focus within the 2016–2040 RTP/SCS, for individual developments such as the Project, involves improving energy efficiency (e.g., reducing energy consumption) to reduce GHG emissions. The 2016–2040 RTP/SCS goal is to actively encourage and create incentives for energy efficiency, where possible. As discussed above, GHG-PDF-1 would require the design of the building to incorporate a number of sustainability features consistent with the Project's certification under AB 900, including optimizing energy performance and reduce building energy cost by 22 percent for new/remodeled construction compared to the LEED® baseline of ASHRAE 90.1-2010, installation of efficient HVAC mechanical systems, use of LED lighting or other energy-efficient lighting technologies, etc., thus reducing overall energy usage compared to baseline conditions. In total, Project GHG emissions from electricity and natural gas usage would be reduced by at least 14 percent with implementation of the Project design features. Accordingly, the Project would be consistent with the 2016–2040 RTP/SCS energy efficiency strategies and policies.

Land Use Assumptions

At the regional level, the 2016–2040 RTP/SCS is an applicable plan adopted for the purpose of reducing GHGs. In order to assess the Project's potential to conflict with the 2016–2040 RTP/SCS, this Draft EIR also analyzes the Project's land use assumptions for consistency with those utilized by SCAG in its SCS. Generally, projects are considered consistent with the provisions and general policies of applicable City and regional land use plans and regulations, such as SCAG's RTP/SCS, if they are compatible with the general intent of the plans and would not preclude the attainment of their primary goals. The Project's consistency with the applicable goals and principles set forth in the 2016–2040 RTP/SCS is analyzed in Table IV.D-4 in Section IV.F, Land Use, of this Draft EIR. As shown therein the Project would be consistent with the goals and principles set forth in the 2016–2040 RTP/SCS.

In sum, the Project is the type of land use development that is encouraged by the RTP/SCS to reduce VMT and expand multi-modal transportation options in order for the region to achieve the GHG reductions from the land use and transportation sectors required by SB 375, which, in turn, advances the State's long-term climate policies. By furthering implementation of SB 375, the Project would support regional land use and transportation GHG reductions consistent with state regulatory requirements.

Overall, the Project would not conflict with the GHG reduction-related actions and strategies contained in the 2016 RTP/SCS. As such, impacts related to consistency with the 2016 RTP/SCS would be less than significant.

(iii) AB 900

As discussed above, AB 900 establishes procedures for applying for streamlined environmental review under CEQA for Projects that meet certain requirements. With respect to GHG emissions, a project must demonstrate that it would not result in any net additional GHGs, including GHG emissions from employee transportation in accordance with PRC Section 21183(c). The Project was certified under AB 900 (refer to Appendix B of this Draft EIR). As determined therein, the Project would not result in any net additional GHGs, including GHG emissions from employee transportation in accordance with PRC Section 21183(c) with the purchase of emission offset credits. Therefore, the Project would meet the GHG emissions requirements for streamlined environmental review under CEQA.

(iv) City of Los Angeles Sustainable City pLAn/L.A.'s Green New Deal

As discussed above, the Sustainable City pLAn/L.A.'s Green New Deal includes both short-term and long-term aspirations through the year 2050 in various topic areas, including: water, renewable energy, energy-efficient buildings, carbon and climate leadership, waste and landfills, housing and development, mobility and transit, and air quality, among others.

The Sustainable City pLAn/L.A.'s Green New Deal provides information as to what the City will do with buildings and infrastructure in their control, and provides specific targets related to housing and development as well as mobility and transit, including the reduction of vehicle miles traveled per capita by 5 percent by 2025, and increasing trips made by walking, biking or transit by at least 35 percent by 2025. As noted above, the Sustainable City pLAn was updated in April 2019 and renamed as L.A.'s. Green New Deal which has established targets such as 100 percent renewable energy by 2045, diversion of 100 percent of waste by 2050, and recycling 100 percent of wastewater by 2035. Table IV.E-8 on page IV.E-66 provides a discussion of the Project's consistency with applicable GHG-reducing actions from the City of LA's Green New Deal. As discussed

Table IV.E-8
Consistency with Applicable GHG Emissions Goals and Actions of City of LA Green New Deal

Action	Description	Consistency Analysis				
Focus Area: Local Wate	ocus Area: Local Water					
Reduce potable water use per capita by 22.5% by 2025; and 25% by 2035; and maintain or reduce 2035 per capita water use through 2050	of Save the Drop program and develop additional water conservation campaigns. In addition, the City would continue to benchmark customer use and improve data gathering to identify effective programs of Save the Drop program and develop adplies to the City and LADWP, Project would incorporate water use. Water usage rates we calculated consistent with requirements under City Ordinance 184,248, the 2013 California Plumb					
Focus Area: Clean and	Healthy Buildings					
All new buildings will be net zero carbon by 2030; and 100% of buildings will be net zero carbon by 2050	The City would perform a complete building electrification study and develop supporting programs. Financing would be expanded and improved to provide electrification existing energy efficiency and solar programs.	Consistent. While this action primarily applies to the City, the Project would be designed and operated to meet or exceed the applicable requirements of the state Green Building Standards Code and the City of Los Angeles Green Building Code.				
Reduce building energy use per sf for all building types 22% by 2025; 34% by 2035; and 44% by 2050	The City would increase awareness of incentives and smart building energy management systems. An energy consumption report will be prepared to assess the energy-water nexus.	Consistent. While this action primarily applies to the City, the Project would be designed and operated to meet or exceed the applicable requirements of the state Green Building Standards Code and the City of Los Angeles Green Building Code.				
	Focus Area: Housing and Development					
Ensure 57% of new housing units are built within 1500 ft of transit by 2025; and 75% by 2035	The City would develop regulatory tools and strategies to encourage transit ridership and focus growth in housing near the North Hollywood Station, Van Nuys Station, Sepulveda Station, Reseda Station, and Sherman Way Station. New stations would also be added to the Purple Line from Downtown L.A. to UCLA. This action reduces vehicle emissions	applies to the City, the Project would concentrate new residential, office, and commercial retail uses in close proximity to public transit opportunities (e.g., light rail and bus routes). The Project Site is well served by public				

Table IV.E-8 (Continued)
Consistency with Applicable GHG Emissions Goals and Actions of City of LA Green New Deal

Action	Description	Consistency Analysis	
	by facilitating access to transit which can reduce single occupancy vehicle trips and help alleviate traffic congestion, and most importantly, reducing associated GHG emissions.	Red Line Hollywood and Vine station.	
Focus Area: Mobility ar	nd Public Transit		
Reduce VMT per capita by at least 13% by 2025; 39% by 2035; and 45% by 2050	The City would update the Transportation Demand Management (TDM) ordinance and develop first/last mile infrastructure improvements around transit stations. TDM strategies would also be implemented consistent with the West Side Mobility Plan to east congestion.	applies to the City, the Project would be	
Focus Area: Mobility ar	nd Public Transit		
Increase the percentage of electric and zero emission vehicles in the city to 25% by 2025; 80% by 2035; and 100% by 2050	The City would increase the electric vehicle ownership by providing rebates for used EVs and chargers as well as promote trade-in events for electric vehicles. The City would also increase the number of EV charging stations by pursuing public-private partnerships in developing charging stations, streamline permitting processes for EV charger installations and update building codes to simplify EV charging requirements.	No Conflict. The Project would support this policy since the Applicant would provide electric vehicle charging stations and electric vehicle supply wiring consistent with GHG-PDF-2	

therein, the Project would be consistent with the applicable goals and actions of the City of LA Green New Deal.

Although the Sustainable City pLAn/L.A.'s Green New Deal is not directly applicable to private development projects, the Project would generally be consistent with these targets as it is an infill development consisting of residential, retail, office, and restaurant uses on a Project Site located approximately 0.25 mile from the Hollywood/Vine Metro Red Line station and is served by eight Metro local bus lines and three DASH bus lines, and one LADOT Commuter Express bus line. Furthermore, the Project would comply with CALGreen, implement various project design features that would reduce energy usage,

including GHG-PDF-1 through GHG-PDF-4 and WAT-PDF-1, and would comply with the City of Los Angeles Solid Waste Management Policy Plan, the RENEW LA Plan, and the Exclusive Franchise System Ordinance (Ordinance No. 182,986) in furtherance of the aspirations included in the Sustainable City pLAn/L.A.'s Green New Deal with regard to energy-efficient buildings and waste and landfills. The Project would also provide secure short- and long-term bicycle storage areas for Project residents and guests.

Overall, the Project would not conflict with the Sustainable City pLAn/L.A.'s Green New Deal. Therefore, impacts would be less than significant.

(v) Post-2030 Analysis

Recent studies show that the State's existing and proposed regulatory framework will put the State on a pathway to reduce its GHG emissions level to 40 percent below 1990 levels by 2030, and to 80 percent below 1990 levels by 2050 if additional appropriate reduction measures are adopted. Even though these studies did not provide an exact regulatory and technological roadmap to achieve the 2030 and 2050 goals, they demonstrated that various combinations of policies could allow the Statewide emissions level to remain very low through 2050, suggesting that the combination of new technologies and other regulations not analyzed in the studies could allow the State to meet the 2050 target.

Subsequent to the findings of these studies, SB 32 was passed on September 8, 2016, which would require Statewide GHG emissions are reduced to 40 percent below the 1990 level by 2030 and includes various strategies to meet that goal. The Project's design features advance these goals by reducing VMT, increasing the use of electric vehicles, improving energy efficiency, and reducing water usage.

The emissions modeling in the 2017 Update has projected 2030 statewide emissions which take into account known commitments (reduction measures) such as SB 375, SB 350, and other measures. The emissions inventory identified an emissions

¹⁰⁴ Energy and Environmental Economics (E3). "Summary of the California State Agencies' PATHWAYS

practices deployed. E3 conducted the analysis using its California PATHWAYS model. Enhanced specifically for this study, the model encompasses the entire California economy with detailed representations of the buildings, industry, transportation and electricity sectors.

Hollywood & Wilcox
Draft Environmental Impact Report

Project: Long-term Greenhouse Gas Reduction Scenarios" (April 2015); Greenblatt, Jeffrey, Energy Policy, "Modeling California Impacts on Greenhouse Gas Emissions" (Vol. 78, pp. 158–172). The California Air Resources Board, California Energy Commission, California Public Utilities Commission, and the California Independent System Operator engaged E3 to evaluate the feasibility and cost of a range of potential 2030 targets along the way to the state's goal of reducing GHG emissions to 80 percent below 1990 levels by 2050. With input from the agencies, E3 developed scenarios that explore the potential pace at which emission reductions can be achieved, as well as the mix of technologies and

gap, meaning that emissions reductions due to known commitments do not decline fast enough to achieve the 2030 target. In order to fill this gap, the 2017 Update assumed a scenario in which cap-and-trade would deliver the reductions necessary to achieve the 2030 emissions target. Although the Project is consistent with the 2017 Update, additional measures to achieve the 2030 targets and beyond are outside of the City or the Project's control. Therefore, any evaluation of post-2030 Project emission would be speculative.

Executive Order S-3-05 establishes a goal to reduce GHG emissions to 80 percent below 1990 levels by 2050. This goal, however, has not been codified. That being said, studies have shown that, in order to meet the 2050 target, aggressive technologies in the transportation and energy sectors, including electrification and the decarbonization of fuel, will be required. In its 2008 Climate Change Scoping Plan, CARB acknowledged that the "measures needed to meet the 2050 are too far in the future to define in detail." 105

Although the Project's emissions level in 2050 cannot be reliably quantified, statewide efforts are underway to facilitate the State's achievement of that goal and it is reasonable to expect the Project's net emissions level (1,042 metric tons of CO₂e per year) to decline as the regulatory initiatives identified by CARB in the First Update are implemented, and other technological innovations occur. Stated differently, the Project's total emissions at build-out presented in Table IV.E-10 on page IV.E-73 in the analysis below, represents the maximum emissions inventory for the Project as California's emissions sources are being regulated (and foreseeably expected to continue to be regulated in the future) in furtherance of the State's environmental policy objectives. As such, given the reasonably anticipated decline in Project emissions once fully constructed and operational, the Project is consistent with the Executive Order's horizon-year (2050) goal. Further, the Project's consistency with SCAG's 2016–2040 RTP/SCS demonstrates that the Project will be consistent with post-2020 GHG reduction goals.

The Project is the type of land use development that is encouraged by the 2016–2040 RTP/SCS to reduce VMT and expand multi-modal transportation options in order for the region to achieve the GHG reductions from the land use and transportation sectors required by SB 375, which, in turn, advances the State's long-term climate policies. As shown in Table IV.E-7 on page IV.E-61, the Project's daily 9.5 Total Project VMT per capita is below the overall SCAG region's daily 20.5 Total VMT per capita for the 2040 Plan Year and Los Angeles County's daily 18.4 Total VMT per capita for the 2040 Plan Year. In addition, the Project results in a VMT reduction of 67 percent and related mobile source GHG emissions reduction of approximately 75 percent in comparison to a Project without Reduction Features as estimated by CalEEMod, as shown in Appendix C of this Draft EIR,

¹⁰⁵ CARB, Climate Change Scoping Plan: A Framework for Change, December 2008, p. 117.

and would be consistent with the reduction in transportation emissions per capita provided in the 2016 RTP/SCS and the updated SB 375 targets. By furthering implementation of SB 375, the Project supports regional land use and transportation GHG reductions consistent with State climate targets for 2020 and beyond.

For the reasons described above, the Project's post-2030 emissions trajectory is expected to follow a declining trend, consistent with the 2030 and 2050 targets and Executive Orders S-3-05 and B-30-15.

(vi) Conclusion

The above plan consistency analysis above demonstrates that the Project does not conflict with the plans, policies, regulations, and GHG reduction actions/strategies outlined in applicable GHG reduction plans and policies. Therefore, impacts related to regulatory consistency would be less than significant.

(b) Project Emissions

As discussed above, CEQA Guidelines Section 15064.4 recommends quantification of a Project's GHG emissions. However, the quantification is being done for informational purposes only and Project GHG emissions are not evaluated against any numeric threshold, as compliance with a GHG emissions reduction plan renders a project's potential impacts less than significant. In support of the above regulatory consistency analysis which describes the Project's compliance with or exceedance of performance-based standards included in the regulations and policies outlined in the applicable portions of the 2008 Climate Change Scoping Plan and subsequent updates, the 2016–2040 RTP/SCS, AB 900, and the Sustainable City pLAn/L.A.'s Green New Deal, quantitative calculations are provided below.

The Project would result in direct and indirect GHG emissions generated by different types of emissions sources, including:

- Construction: emissions associated with demolition of the existing parking lot, shoring, excavation, grading, and construction-related equipment and vehicular activity;
- Area source: emissions associated with landscaping equipment and consumer products;
- Energy source (building operations): emissions associated with space heating and cooling, water heating, energy consumption, and lighting;
- Mobile source: emissions associated with vehicles accessing the project site;

- Stationary source: emissions associated with stationary equipment (e.g., emergency generators);
- Solid Waste: emissions associated with the decomposition of the waste, which generates methane based on the total amount of degradable organic carbon; and
- Water/Wastewater: emissions associated with energy used to pump, convey, deliver, and treat water.

The Project would generate an incremental contribution and cumulatively increase GHG emissions. A specific discussion regarding potential GHG emissions associated with the construction and operational phases of the Project is provided below.

(i) Construction

As described in Section II, Project Description, of this Draft EIR, Project construction is estimated to take approximately 24 months with an anticipated completion date of 2023. Construction assumptions used in the analysis of GHG emissions conservatively assumes that the Project would be constructed in the shortest duration possible with the most intensive activities occurring on a daily basis. Earthwork on the Project Site would require approximately 58,000 cubic yards of grading, all of which would be exported. CalEEMod outputs containing additional construction details are provided in Appendix C. The GHG emissions associated with Project construction were calculated for each year of construction activity, as summarized in Table IV.E-9 on page IV.E-72.

As presented in Table IV.E-9, Project construction is estimated to generate a total of 2,638 MTCO₂e. As recommended by SCAQMD, the total GHG construction emissions were amortized over the 30-year lifetime of the Project (i.e., total construction GHG emissions were divided by 30 to determine an annual construction emissions estimate that can be added to the Project's operational emissions) in order to determine the Project's annual GHG emissions inventory, resulting in annual amortized emissions of 88 MTCO₂e. ¹⁰⁶

(ii) Operation

Area Source Emissions

Area source emissions were calculated using the CalEEMod emissions inventory model, which includes the use of landscape maintenance equipment, consumer products,

_

¹⁰⁶ SCAQMD Governing Board Agenda Item 31, December 5, 2008.

Table IV.E-9 Construction-Related Emissions (MTCO₂e)

Year	MTCO ₂ e ^a		
2019	1,556		
2020	1,082		
Total	2,638		
Amortized Over 30 Years	88		

^a CO₂e was calculated using CalEEMod and the results are provided in Section 2.0 of the Construction CalEEMod output file within Appendix C of this Draft EIR.

Source: Eyestone Environmental, 2020.

and natural gas fireplaces. As shown in Table IV.E-10 on page IV.E-73, the Project, at full buildout, is expected to result in a total of 4 MTCO₂e per year from area sources and accounts for a 95 percent reduction in area source emissions with implementation of GHG-PDF-4 as compared to the Project without Reduction Features.

Electricity and Natural Gas Generation Emissions

Electricity and natural gas emissions were calculated using the CalEEMod emissions inventory model, which multiplies an estimate of the energy usage by applicable emissions factors chosen by the utility company. GHG emissions from electricity use are directly dependent on the electricity utility provider. In this case, GHG intensity factors for LADWP were selected in CalEEMod. The carbon intensity (lb/MWh) for electricity generation was calculated for the Project buildout year based on LADWP projections; as LADWP projections are not calculated for every year, straight line interpolation was performed to estimate the LADWP carbon intensity factor for the Project buildout year based on Year 2015 and 2026 data. 107 LADWP's carbon intensity projections also take into account SB 350 RPS requirements for renewable energy. conservatively do not account for SB 100 RPS requirements for renewable energy. Energy use in buildings is divided into energy consumed by the built environment and energy consumed by uses that are independent of the construction of the building, such as in plugin appliances. CalEEMod calculates energy use from systems covered by Title 24 (e.g., the heating, ventilation, and air conditioning [HVAC] system, water heating system, and lighting system); energy use from lighting; and energy use from office equipment, appliances, plug-ins, and other sources not covered by Title 24 or lighting.

¹⁰⁷ LADWP, 2016 Power Integrated Resource Plan.

Table IV.E-10
Annual GHG Emissions Summary—Net Increase (Buildout)^a
(metric tons of carbon dioxide equivalent [MTCO₂e])

Scope	Baseline (Buildout)	Buildout (No Project Features)	Buildout (With Project Features)	Project (Buildout- With Project Features less Baseline- Buildout)	Percent Reduction (Buildout-With Project Features versus Buildout without Project Features ^b
Area ^b	0	88	4	4	95%
Energy ^c	144	639	545	403	14%
Mobile	221	2,631	665	444	75%
Stationary ^d	0	2	2	2	0%
Solid Waste ^e	7	43	43	36	0%
Water/Wastewater ^f	21	130	86	65	34%
Construction	0	88	88	88	0%
Total Emissions ^g	393	3,621	1,435	1,042	60%

^a CO₂e was calculated using CalEEMod and the results are provided in Section 2.0 of the Operation CalEEMod output file within Appendix C of this Draft EIR.

Source: Eyestone Environmental, 2020.

CalEEMod electricity and natural gas usage rates are based on the CEC-sponsored California Commercial End-Use Survey (CEUS) and California Residential Appliance Saturation Survey (RASS) studies.¹⁰⁸ The data are specific for climate zones; therefore, Zone 11 was selected for the Project Site based on the ZIP Code tool.¹⁰⁹ Since these studies are based on older buildings, CalEEMod provides adjustments to account for more stringent requirements under 2016 Title 24 building codes. Subsequent to release of the

^b Area source emissions are from the use of landscape equipment and natural gas-fueled fireplaces.

^c Energy source emissions are based on CalEEMod default electricity and natural gas usage rates. One exception, electricity use is based on the updated CalEEMod referenced document: Energy Star Portfolio Manager Technical Reference: Parking and the Energy Star Score in the United States and Canada, August 2018.

^d Stationary source emissions are from an on-site emergency generator.

Solid waste emissions are calculated based on CalEEMod default solid waste generation rates.

f Water/Wastewater emissions are calculated based on CalEEMod default water consumption rates.

^g Emissions presented are net increase which takes into account existing emissions to be removed.

¹⁰⁸ CEC, Commercial End-Use Survey, March 2006, and California Residential Appliance Saturation Survey, October 2010.

¹⁰⁹ California Air Pollution Control Officers Association, California Emissions Estimator Model, User's Guide, Appendix F.

most current version of CalEEMod (Version 2016.3.2), the 2019 Title 24 standards went into effect January 1, 2020. Thus, the Draft EIR analysis conservatively does not include additional reductions in building energy consumption related to applicable 2019 Title 24 standards.

In addition, as previously discussed, the Project would implement a number of Project Design Features that would reduce energy consumption. Specifically, GHG-PDF-1 would require the Project to optimize energy performance and reduce building energy cost by 22 percent for new/remodeled construction compared to the LEED® baseline of ASHRAE 90.1-2010. This analysis conservatively assumes no reduction in GHG emissions in comparison to 2016 Title 24 Building Standards Code provided in CalEEMod default energy consumption rates. GHG-PDF-3 would require the Project to provide a minimum of 105 kilowatts of photovoltaic panels on the Project Site.

As shown in Table IV.E-10 on page IV.E-73, Project GHG emissions from electricity and natural gas usage would result in a total net increase of 403 MTCO₂e per year, and accounts for implementation of GHG-PDF-1 and GHG-PDF-3. GHG emissions presented in Table IV.E-10 also takes into account energy usage related to the Attie Building which will be retained as part of the Project. The Attie Building would be rehabilitated with energy efficient materials and design which will reduce overall energy usage compared to the existing use. Per California Building Code Section 3404A.1, alterations to any building or structure shall comply with the requirements of the code for new construction. Therefore, the applicable provisions of Title 24 and the Los Angeles Green Building Code discussed above and in the analysis below apply to the rehabilitation of this historic structure.

Mobile Source Emissions

Mobile source operational GHG emissions were calculated using SCAQMD-recommended CalEEMod based on the Project trip-generation estimates provided in the Traffic Study, included as Appendix O.1 of this Draft EIR. As discussed in Section IV.I, Transportation, of this Draft EIR, to calculate peak hour trip estimates, the number of residential units and the amount of office and commercial retail floor area were multiplied by the applicable trip-generation rates based on the Institute of Transportation Engineers (ITE)'s *Trip Generation, 9th Edition*. CalEEMod calculates the VMT generated by on-road mobile daily trips associated with residents, employees, visitors, and delivery vehicles visiting the Project Site. The VMT was multiplied by emission factors provided in EMFAC 2017 to calculate the total mobile source emissions.

_

Gibson Transportation Consulting, Transportation Impact Study for the Hollywood and Wilcox Project, Hollywood, California, June 2018; refer to Appendix O.1 of this Draft EIR.

The Project design also includes characteristics that would reduce trips and VMT as compared to a standard project within the air basin as measured by CalEEMod. The Project Site is located approximately 0.25 mile from the Hollywood/Vine Metro Red Line station and is served by eight Metro local bus lines and three DASH bus lines, and one LADOT Commuter Express bus line. The location of mass-transit in close proximity to the Project site would encourage alternative modes of transportation, resulting in VMT reductions. The Project would provide 35 short-term and 269 long-term bicycle parking spaces to further encourage biking. The Project would locate residential uses in proximity to a job center which would reduce the distance required for travel from home to work.

As shown in Table IV.E-10 on page IV.E-73, Project GHG emissions from mobile sources would result in a total net increase of 444 MTCO2e per year, which accounts for a 75-percent reduction in mobile source emissions as compared to the Project without Reduction Features, when taking into account the distance to job centers and mass transit. Project-related mobile source emissions also take into account GHG-PDF-2 which would provide for electric vehicle charging infrastructure on-site.

Stationary Source Emissions

Emissions related to stationary sources were calculated using the CalEEMod emissions inventory model. It is anticipated the Project would include an emergency generator on-site. As shown in Table IV.E-10, the Project scenario is expected to result in a total of 2 MTCO₂e per year from stationary sources.

Solid Waste Generation Emissions

Emissions related to solid waste were calculated using the CalEEMod emissions inventory model, which multiplies an estimate of the waste generated by applicable emissions factors provided in Section 2.4 of USEPA's AP-42, Compilation of Air Pollutant Emission Factors. CalEEMod solid waste generation rates for each applicable land use were selected for this analysis. As shown in Table IV.E-10, Project GHG emissions from solid waste generation would result in a total net increase of 36 MTCO₂e per year which takes into account a 50-percent recycling/diversion rate.

Water Usage and Wastewater Generation Emissions

Emissions related to water usage and wastewater generation were calculated using the CalEEMod emissions inventory model, as described above in the methodology section.

¹¹¹ CAPCOA, Quantifying Greenhouse Gas Mitigation Measures, 2010.

As shown in Table IV.E-10 on page IV.E-73, Project GHG emissions from water/wastewater usage would result in a total net increase of 65 MTCO₂e per year, which accounts for a 34-percent reduction in water/wastewater emissions with implementation of WAT-PDF-1 provided in Section IV.K.1, Utilities and Service Systems—Water Supply and Infrastructure, of this Draft EIR.

(iii) Combined Construction and Operational Impacts

As shown in Table IV.E-10, when taking into consideration implementation of relevant Project design features, as well as the requirements set forth in the City of Los Angeles Green Building Code and full implementation of current state mandates, the Project's GHG emissions in 2023 would be 88 MTCO₂e per year (amortized over 30 years) during construction and 954 MTCO₂e per year during operation, for a combined total of 1,042 MTCO₂e per year. As discussed previously, GHG emissions presented in Table IV.E-10 also takes into account operations related to the Attie Building which will be retained as part of the Project.

(c) Conclusion

In summary, the Project's location, land use characteristics, and design render it consistent with statewide and regional climate change mandates, plans, policies, and recommendations. More specifically, the plan consistency analysis provided above demonstrates that the Project complies with or exceeds the plans, policies, regulations and GHG reduction actions/strategies outlined in the 2008 Climate Change Scoping Plan and subsequent updates, the 2016-2040 RTP/SCS, AB 900, and the Sustainable City pLAn/L.A.'s Green New Deal. As the Project would not conflict with relevant plans, policies, and regulations adopted for the purpose of reducing the emissions of GHGs, impacts related to regulatory consistency would be less than significant. Therefore, the Project would not conflict with any applicable plan, policy, or regulation of an agency adopted for the purpose of reducing emissions of GHGs. Furthermore, because the Project is consistent and does not conflict with these plans, policies, and regulations, the Project's incremental increase in GHG emissions as described above would not result in a significant impact on the environment. Therefore, Project-specific impacts with regard to climate change would be less than significant.

(2) Mitigation Measures

As discussed above, the Project would result in less-than-significant impacts related to GHG emissions. The Applicant would comply with applicable regulatory requirements as discussed throughout the analysis above and would implement GHG-PDF-1 through GHG-PDF-4 that would reduce GHG emissions.

(3) Level of Significance After Mitigation

With implementation of the Project Design Features and compliance with state mandates and other applicable regulatory requirements, Project-level impacts with regard to climate change would be less than significant.

e. Cumulative Impacts

(1) Impact Analysis

As identified in Section III, Environmental Setting, of this Draft EIR, a total of 107 related projects are located in the vicinity of the Project Site. Much of this growth is anticipated by the City and will be incorporated into the Hollywood Community Plan which was adopted in 1988. A draft Hollywood Community Plan Update was released for public review in May 2017. The Community Plan Update, once adopted, will be a long-range plan designed to accommodate growth in Hollywood until 2040. A map of the related project locations is provided in Figure III-1 in Section III, Environmental Setting, of this Draft EIR.

As explained earlier, the analysis of a project's GHG emissions is inherently a cumulative analysis because climate change is a global issue and the emissions from individual projects are negligible in a global context. Accordingly, the analysis above takes into account the potential for the Project to contribute to a cumulative impact of global climate change. Table IV.E-10 on page IV.E-73 illustrates that implementation of the Project's regulatory requirements and project design features, including state mandates, would contribute to GHG reductions. These reductions support state goals for GHG emissions reductions.

The analysis shows that the Project is consistent with CARB's 2008 Climate Change Scoping Plan and subsequent updates, particularly its emphasis on the identification of emission reduction opportunities that promote economic growth while achieving greater energy efficiency and accelerating the transition to a low-carbon economy. The Project is also consistent with the RTP/SCS' regulatory requirements to reduce regional GHG emissions from the land use and transportation sectors by 2020 and 2035. In addition, the

As further detailed in Section III, Environmental Setting, of this Draft EIR, many of the related projects in the Downtown area reflect an unprecedented number of land use entitlement applications filed with the Department of City Planning between early 2016 and March 2017 in response to two proposed land use initiatives (Measure JJJ and Measure S). This large volume of application filings was completed prior to the elections in order to vest rights for those projects that preceded the initiatives (assuming the initiatives would have been adopted by the voters). To that end, it is anticipated that many of these related projects will not ultimately proceed to approval and construction. However, in order to provide conservative analyses and ensure compliance with CEQA, all related projects are included in the cumulative impact discussions in this Draft EIR, as appropriate.

Project would generally comply with the aspirations of the Sustainable City pLAn/L.A.'s Green New Deal, which includes specific targets related to housing and development, and mobility and transit. Given the Project's consistency with statewide, regional, and local plans adopted for the purpose of reducing GHG emissions, it is concluded that the Project's incremental contribution to greenhouse gas emissions and their effects on climate change would not be cumulatively considerable.

As discussed above, AB 900 establishes procedures for applying for streamlined environmental review under CEQA for Projects that meet certain requirements. The Project Applicant submitted an application for CEQA Streamlining. As determined therein, the Project would not result in any net additional GHGs, including GHG emissions from employee transportation in accordance with PRC Section 21183(c) with the purchase of emission offset credits. A copy of the Project's AB 900 certification is included in Appendix B of this Draft EIR. For these reasons, the Project's cumulative contribution to global climate change is less than significant.

(2) Mitigation Measures

As discussed above, cumulative impacts with respect to related to GHG emissions would be less than significant. The Applicant would comply with applicable regulatory requirements as discussed throughout the analysis above and would implement GHG-PDF-1 through GHG-PDF-4 that would reduce GHG emissions.

(3) Level of Significance After Mitigation

With implementation of the Project Design Features and compliance with state mandates and other applicable regulatory requirements, cumulative impacts with regard to climate change would be less than significant.