



APPENDIX G

Implementation Actions Matrix.

Irvine CAAP GHG Reduction Strategies, Measures, and Actions						Implementation Details			
Sector	Strategy	Measure ID	Measure	Action ID	Action	Status	Responsible City Department(s)	Responsible Department Division	Partner(s)
Building Energy	BE-1: Building Energy and Electrification	BE-1.1	Facilitate energy audits for existing buildings to identify energy efficiency retrofit and electrification opportunities.	BE-1.1a	Perform energy audits on City facilities and repeat audits every five years as recommended in the City of Irvine Distributed Energy Resources (DER) Implementation Plan.	In Progress	PWS	Facilities, Sustainability	N/A
Building Energy	BE-1: Building Energy and Electrification	BE-1.1	Facilitate energy audits for existing buildings to identify energy efficiency retrofit and electrification opportunities.	BE-1.1b	Seek public-private partnerships (e.g., BlocPower) to fund energy audits and building electrification in the community.	Not Started	PWS, CD	Sustainability, CD Planning	TBD
Building Energy	BE-1: Building Energy and Electrification	BE-1.1	Facilitate energy audits for existing buildings to identify energy efficiency retrofit and electrification opportunities.	BE-1.1c	Work with the Orange County Power Authority (OCPA), Southern California Edison (SCE), and other partners to provide free energy audits of existing residential and nonresidential buildings, prioritizing low-income neighborhoods.	Not Started	PWS, CD	Sustainability, CD Planning	OCPA, SCE
Building Energy	BE-1: Building Energy and Electrification	BE-1.1	Facilitate energy audits for existing buildings to identify energy efficiency retrofit and electrification opportunities.	BE-1.1d	Work with the Southern California Regional Energy Network (SoCalREN) to expand technical support services for residential and nonresidential buildings communitywide, including energy audits, identifying energy efficiency improvement measures, and energy efficiency performance specifications. (services are only available to public agencies currently)	Not Started	PWS, CD	Sustainability, CD Planning	SoCalREN
Building Energy	BE-1: Building Energy and Electrification	BE-1.1	Facilitate energy audits for existing buildings to identify energy efficiency retrofit and electrification opportunities.	BE-1.1e	Launch partnership with SCE and XeroHome™ to facilitate and scale residential energy upgrades.	Complete	PWS, CD	Sustainability	SCE, XeroHome

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Building Energy	BE-1: Building Energy and Electrification	BE-1.1	Facilitate energy audits for existing buildings to identify energy efficiency retrofit and electrification opportunities.	BE-1.1f	Support development of OCPA's Online Marketplace for discounted residential smart home devices.	Complete	PWS, CD	Sustainability	OCPA
Building Energy	BE-1: Building Energy and Electrification	BE-1.2	Retrofit existing residential buildings (single family, and multi-Family less than 20,000 square feet) to improve energy efficiency and facilitate fuel switching.	BE-1.2a	Develop a comprehensive energy retrofit program to transition existing residential buildings to all-electric, aiming for a 72% conversion rate by 2045. Begin program providing incentives. Consider point-of-sale and retrofit requirements in the future.	In Progress	PWS, CD	Sustainability, Facilities, CD	N/A
Building Energy	BE-1: Building Energy and Electrification	BE-1.2	Retrofit existing residential buildings (single family, and multi-Family less than 20,000 square feet) to improve energy efficiency and facilitate fuel switching.	BE-1.2b	Connect building owners to funding resources and financing options for energy efficiency retrofits and improvement projects.	Not Started	PWS, CD	Sustainability, CD	N/A
Building Energy	BE-1: Building Energy and Electrification	BE-1.2	Retrofit existing residential buildings (single family, and multi-Family less than 20,000 square feet) to improve energy efficiency and facilitate fuel switching.	BE-1.2c	Secure funding to expand the features of the One Irvine program incentives for home retrofits.	In Progress	CD	Sustainability, CMO	N/A
Building Energy	BE-1: Building Energy and Electrification	BE-1.2	Retrofit existing residential buildings (single family, and multi-Family less than 20,000 square feet) to improve energy efficiency and facilitate fuel switching.	BE-1.2d	Continue implementation of the Switch is On campaign to promote home electrification that provides Irvine residents access to one-on-one advisors, vetted contractors, and information about incentive programs and rebates.	Complete	PWS, CD	Sustainability	N/A

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Building Energy	BE-1: Building Energy and Electrification	BE-1.2	Retrofit existing residential buildings (single family, and multi-Family less than 20,000 square feet) to improve energy efficiency and facilitate fuel switching.	BE-1.2e	Expand the features of the One Irvine program incentives for home retrofits, including Permit Fee Holiday, Residential Rehabilitation Program, Green Home Grants, and Home Improvement Loans through other programs available to residents (e.g. proposed Climate Resilience Rebate program).	In Progress	PWS, CD	Sustainability, CMO, CD	N/A
Building Energy	BE-1: Building Energy and Electrification	BE-1.2	Retrofit existing residential buildings (single family, and multi-Family less than 20,000 square feet) to improve energy efficiency and facilitate fuel switching.	BE-1.2f	Adopt an ordinance requiring a U.S. Department of Energy (DOE) Home Energy Score (HES) Assessment and energy efficiency upgrades for existing residential building additions or alterations with a permit value of \$50,000 or higher. The cost of mandated upgrades should not exceed 5% of the cost of the modification/alteration cost.	Not Started	CD	CD Planning, Permits	N/A
Building Energy	BE-1: Building Energy and Electrification	BE-1.3	Retrofit existing multi-family (20,000 square feet and larger) and nonresidential buildings to improve energy efficiency and facilitate fuel switching.	BE-1.3a	Develop a comprehensive energy retrofit program to transition existing nonresidential buildings to all-electric, aiming for a 46% conversion rate by 2045. Begin program providing incentives then transition to retrofit requirements.	Not Started	CD	CD Planning	N/A
Building Energy	BE-1: Building Energy and Electrification	BE-1.3	Retrofit existing multi-family (20,000 square feet and larger) and nonresidential buildings to improve energy efficiency and facilitate fuel switching.	BE-1.3b	Pilot an all-electric retrofit at a City of Irvine community center.	Not Started	PWS	Sustainability, Facilities, CS	N/A

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Building Energy	BE-1: Building Energy and Electrification	BE-1.3	Retrofit existing multi-family (20,000 square feet and larger) and nonresidential buildings to improve energy efficiency and facilitate fuel switching.	BE-1.3c	Adopt a Building Performance Standard that requires owners of multi-family, commercial and industrial buildings 20,000 square feet and larger to benchmark energy use annually and perform audits and building upgrades for low-performing buildings. Volunteer participants would be allowed to perform audits and qualify for voluntary incentive loans to the extent funding is available.	Not Started	CD	CD Planning, Building	N/A
Building Energy	BE-1: Building Energy and Electrification	BE-1.3	Retrofit existing multi-family (20,000 square feet and larger) and nonresidential buildings to improve energy efficiency and facilitate fuel switching.	BE-1.3d	Require benchmarked buildings to display their energy efficiency scores in a visible location near each public entrance.	Not Started	CD	CD Planning, Building	N/A
Building Energy	BE-1: Building Energy and Electrification	BE-1.3	Retrofit existing multi-family (20,000 square feet and larger) and nonresidential buildings to improve energy efficiency and facilitate fuel switching.	BE-1.3e	Eliminate the provision of fossil fuel powered backup generator permits for existing nonresidential development by 2028 where technology alternatives that meet the development's reliability and safety needs are commercially available.	Not Started	CD	CD Planning, Building, Permits	N/A
Building Energy	BE-1: Building Energy and Electrification	BE-1.4	Reduce plug loads in existing buildings.	BE-1.4a	Facilitate the adoption of smart grid and other peak load reduction technologies, such as building energy management systems and smart appliances, within new and existing buildings.	In Progress	PWS, CD	CD Planning, building PWS Development Engineering, PWS Facilities	N/A
Building Energy	BE-1: Building Energy and Electrification	BE-1.4	Reduce plug loads in existing buildings.	BE-1.4b	Use partnerships to promote appliance upgrades to energy-efficient technologies and products through campaigns targeted at residents and local businesses, ENERGY STAR® appliance change out programs, and incentives (e.g., giveaways, federal/state/utility rebates).	In Progress	PWS, CD	PWS Sustainability,	N/A

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Sector	Strategy	Measure ID	Measure	Action ID	Action	Status	Responsible City Department(s)	Responsible Department Division	Partner(s)
Building Energy	BE-2: Low Carbon Development	BE-2.1	Eliminate the use of natural gas in new development.	BE-2.1a	Adopt a Building Electrification Ordinance, in accordance with legal requirements.	In Progress	CD	CD Panning, CD Building	N/A
Building Energy	BE-2: Low Carbon Development	BE-2.1	Eliminate the use of natural gas in new development.	BE-2.1b	Partner with SoCalREN, OCPA, SCE, other cities, and the private sector to develop effective strategies to facilitate electrification implementation.	In Progress	CD, CMO	CD Panning & CMO	SoCalREN, OCPA, SCE
Building Energy	BE-2: Low Carbon Development	BE-2.2	Implement and enforce REACH building codes and Green Building Standards.	N/A	See actions under Measure BE-2.1.	N/A	N/A	N/A	N/A
Building Energy	BE-2: Low Carbon Development	BE-2.3	Eliminate fossil fuel-powered backup energy sources by 2028.	N/A	See actions under Measure BE-1.3.	N/A	N/A	N/A	N/A
Building Energy	BE-2: Low Carbon Development	BE-2.4	Require smart grid technologies to include two-way communication and control capabilities between buildings and the electric grid.	BE-2.4a	Integrate smart grid technologies into City facilities starting with one or more pilot projects at City facilities identified in the City of Irvine Distributed Energy Resources (DER) Implementation Plan.	In Progress	PWS, CD	PWS Facilities	N/A
Building Energy	BE-2: Low Carbon Development	BE-2.4	Require smart grid technologies to include two-way communication and control capabilities between buildings and the electric grid.	BE-2.4b	Expand use of smart grid technologies in Irvine, building from SCE's smart-grid demonstration in Irvine in partnership with U.S. DOE. (See: Demo - IG (epri.com) Expand smart grid deployment to OCPA services and customers.	In Progress	PWS, CD	Sustainability, CD Planning	SCE

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Building Energy	BE-2: Low Carbon Development	BE-2.5	Facilitate net zero energy projects.	BE-2.5a	Transition all existing City facilities to zero net energy by 2035. Require all newly constructed City facilities to be zero net energy by 2030. Implement retrofit projects in municipal buildings and facilities to improve energy efficiency and fuel switch from natural gas to electricity.	In Progress	PWS	PWS Facilities	N/A
Building Energy	BE-2: Low Carbon Development	BE-2.5	Facilitate net zero energy projects.	N/A	See actions under Measures BE-2.1, BE-3.2, and BE-3.3.	N/A	N/A	N/A	N/A
Building Energy	BE-2: Low Carbon Development	BE-2.6	Reduce high-GWP refrigerants.	BE-2.6a	Partner with OCPA and SCE to implement a natural refrigerant incentive program (See Sacramento Municipal Utilities District pilot program here.)	Not Started	PWS, CD	Sustainability, CD Planning	OCPA, SCE
Building Energy	BE-3: Clean Energy	BE-3.1	Enroll 100% of communitywide accounts in 100% renewable/zero-carbon option from OCPA.	BE-3.1a	Conduct outreach to residents and business owners to increase awareness of OCPA's carbon-free electricity supply and encourage retention at 100% renewable service level.	Complete	PWS, CD	Sustainability, CD Planning	OCPA
Building Energy	BE-3: Clean Energy	BE-3.2	Increase renewable energy installations in existing buildings.	BE-3.2a	Continue implementation of Solarize Irvine to provide access to group pricing discounts for solar power and battery storage and disseminate information to community members and HOAs to facilitate installation of solar and storage.	Complete	PWS	Sustainability	N/A

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Building Energy	BE-3: Clean Energy	BE-3.2	Increase renewable energy installations in existing buildings.	BE-3.2b	Implement the City of Irvine Distributed Energy Resources (DER) Implementation Plan to increase energy efficiency and implement DERs at City facilities and community buildings.	In Progress	PWS	Sustainability, PWS Facilities	N/A
Building Energy	BE-3: Clean Energy	BE-3.2	Increase renewable energy installations in existing buildings.	BE-3.2c	Prioritize installation of renewable energy and battery storage at City- owned facilities with the most positive payback period for offsetting 100% of electricity use with a combination of solar and battery storage as identified in the DER Implementation Plan.	In Progress	PWS	Sustainability, PWS Facilities	N/A
Building Energy	BE-3: Clean Energy	BE-3.2	Increase renewable energy installations in existing buildings.	BE-3.2d	Provide incentives for replacing existing swimming pool heaters with renewable energy-powered technologies.	Not Started	CD		N/A
Building Energy	BE-3: Clean Energy	BE-3.2	Increase renewable energy installations in existing buildings.	BE-3.2e	Continue supporting SOMAH Program that provides financial incentives for installing photovoltaic energy systems on multifamily affordable housing in California.	Complete	CD	CD	N/A
Building Energy	BE-3: Clean Energy	BE-3.2	Increase renewable energy installations in existing buildings.	BE-3.2f	Work with regional partner agencies and utilities, such as SoCalREN, OCPA, and SCE to promote State rebates and other incentives and funding opportunities for renewable energy.	In Progress	PWS	Sustainability	SoCalREN, OCPA, SCE

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Building Energy	BE-3: Clean Energy	BE-3.3	Increase renewable energy in new development.	BE-3.3a	Encourage the installation of solar canopies on surface parking lots on private property and consider a resolution for incorporating solar canopies on City properties.	Not Started	CD	CD Planning	N/A
Building Energy	BE-3: Clean Energy	BE-3.3	Increase renewable energy in new development.	BE-3.3b	Adopt a reach code in 2024 that requires all new residential and nonresidential buildings to generate onsite renewable energy to meet anticipated energy consumption of the building.	Not Started	CD	CD Planning, Policy	N/A
Building Energy	BE-3: Clean Energy	BE-3.3	Increase renewable energy in new development.	BE-3.3c	Require all newly built parking structures to have solar generation capabilities.	Not Started	CD	CD Planning, Policy	N/A
Building Energy	BE-3: Clean Energy	BE-3.3	Increase renewable energy in new development.	BE-3.3d	Require the installation of renewable energy heaters for all new residential swimming pools.	Not Started	CD	CD Planning, Policy	N/A
Building Energy	BE-3: Clean Energy	BE-3.4	Develop innovative approaches to energy generation, distribution, and storage.	BE-3.4a	Evaluate opportunities for integrating battery storage readiness in existing homes and businesses at the time of retrofit and/or in conjunction with renewable energy generation installations.	Not Started	CD	CD Planning	N/A
Building Energy	BE-3: Clean Energy	BE-3.4	Develop innovative approaches to energy generation, distribution, and storage.	BE-3.4b	Consider opportunities for alternative energy generation, energy recapture (in-conduit hydropower, co- generation), and distributed energy storage systems, in addition to solar generation and battery storage.	In Progress	PWS	Sustainability, PWS Development Engineering, Facilities	N/A

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Building Energy	BE-3: Clean Energy	BE-3.4	Develop innovative approaches to energy generation, distribution, and storage.	BE-3.4c	Pursue DERs as net energy metering (NEM) aggregates or microgrid models at City facilities that feature a cluster of City buildings identified in the City of Irvine DER Implementation Plan.	In Progress	PWS	Sustainability, PWS Development Engineering, Facilities	N/A
Building Energy	BE-3: Clean Energy	BE-3.4	Develop innovative approaches to energy generation, distribution, and storage.	BE-3.4d	Require battery storage readiness design in new nonresidential construction building types where not already required by the 2022 Energy Code.	Not Started	CD	CD Policy, Planning	N/A
Building Energy	BE-3: Clean Energy	BE-3.4	Develop innovative approaches to energy generation, distribution, and storage.	BE-3.4e	Develop renewable microgrids at fire and police stations and other emergency facilities located in the city in partnership with Orange County Fire Authority.	Not Started	PWS, CD	PWS Sustainability, CD Planning, Policy	OCFA
Building Energy	BE-3: Clean Energy	BE-3.4	Develop innovative approaches to energy generation, distribution, and storage.	BE-3.4f	Collaborate with OCPA, SCE, and partner agencies such as IUSD to encourage non-municipal public service facilities (e.g., local schools and hospitals) to develop renewable microgrids, separate from utility-scale storage systems.	Not Started	PWS	PWS Sustainability	OCPA, SCE, IUSD
Building Energy	BE-4: Energy Education and Awareness	BE-4.1	Strengthen community awareness of energy efficiency, energy conservation, electrification, and clean energy.	BE-4.1a	Develop and implement a comprehensive energy efficiency, energy conservation, electrification, and clean energy outreach and education campaign to support emissions reductions from building energy use, such as Solarize Irvine efforts to provide information on the California Solar Rights Act, especially for Homeowner's Associations (HOAs).	Complete	PWS	PWS Sustainability	N/A

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Building Energy	BE-4: Energy Education and Awareness	BE-4.1	Strengthen community awareness of energy efficiency, energy conservation, electrification, and clean energy.	BE-4.1a	Encourage the installation of battery storage in conjunction with renewable energy generation projects within new and existing buildings through engagement campaigns and state incentives.	Complete	PWS	PWS Sustainability	N/A
Building Energy	BE-4: Energy Education and Awareness	BE-4.1	Strengthen community awareness of energy efficiency, energy conservation, electrification, and clean energy.	BE-4.1b	City facilities to focus on the highest energy-consuming buildings identified in the City of Irvine DER Implementation Plan as an example of clean energy leadership to the community	In Progress	PWS	PWS Sustainability, Facilities	N/A
Building Energy	BE-4: Energy Education and Awareness	BE-4.1	Strengthen community awareness of energy efficiency, energy conservation, electrification, and clean energy.	BE-4.1c	Leverage the Green Business network to increase awareness of energy efficiency examples and resources and provide information on clean energy incentives.	Complete	CMO, PWS	PWS Sustainability	N/A
Transportation and Land Use	TR-1: Sustainable Transportation and Land Use Planning	TR-1.1	Increase high-density, transit-oriented development along primary corridors to reduce time spent traveling.	TR-1.1a	Promote the increase of density and mixed uses in key opportunity areas pursuant to the City's adopted Housing Element, and/or forthcoming General Plan Update, such as Irvine Spectrum and Irvine Business Complex.	In Progress	CD	CD Planning, CD Transportation Planning & T	N/A
Transportation and Land Use	TR-1: Sustainable Transportation and Land Use Planning	TR-1.1	Increase high-density, transit-oriented development along primary corridors to reduce time spent traveling.	TR-1.1b	Encourage development of urban plazas in new development to encourage pedestrian activity and vibrant mixed-use centers that reduce vehicular activity.	In Progress	CD	Sustainability, CD Planning, CD Transportation,	N/A
Transportation and Land Use	TR-1: Sustainable Transportation and Land Use Planning	TR-1.1	Increase high-density, transit-oriented development along primary corridors to reduce time spent traveling.	TR-1.1c	Support high levels of ridership at the Irvine Station by encouraging higher density (through a residential overlay pursuant to adopted Housing Element), mixed uses, and connectivity along transit corridors and at transit nodes.	In Progress	CD, T	CD Planning, CD Transportation Planning	N/A

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Transportation and Land Use	TR-1: Sustainable Transportation and Land Use Planning	TR-1.1	Increase high-density, transit-oriented development along primary corridors to reduce time spent traveling.	TR-1.1d	Introduce residential uses in targeted retail centers to create mixed-use environments (pursuant to adopted Housing Element).	In Progress	CD	CD Planning, CD Transportation Planning	N/A
Transportation and Land Use	TR-1: Sustainable Transportation and Land Use Planning	TR-1.1	Increase high-density, transit-oriented development along primary corridors to reduce time spent traveling.	TR-1.1e	Expand the residential overlay and unit cap in the Irvine Business Complex to promote mixed-use development.	In Progress	CD	CD Planning, CD Transportation Planning	N/A
Transportation and Land Use	TR-1: Sustainable Transportation and Land Use Planning	TR-1.1	Increase high-density, transit-oriented development along primary corridors to reduce time spent traveling.	TR-1.1f	Develop a study to see if other planning areas could be considered for mixed-use development.	In Progress	CD	CD Planning, CD Transportation Planning	N/A
Transportation and Land Use	TR-1: Sustainable Transportation and Land Use Planning	TR-1.1	Increase high-density, transit-oriented development along primary corridors to reduce time spent traveling.	TR-1.1g	Allow neighborhood-scale commercial uses in or near residential zones to increase opportunities to complete trips by walking or biking.	In Progress	CD	CD Planning, CD Transportation Planning	N/A
Transportation and Land Use	TR-1: Sustainable Transportation and Land Use Planning	TR-1.1	Increase high-density, transit-oriented development along primary corridors to reduce time spent traveling.	TR-1.1h	Promote and allow for an increase in Accessory Dwelling Units throughout the city.	In Progress	CD	CD Planning, CD Transportation Planning	N/A
Transportation and Land Use	TR-1: Sustainable Transportation and Land Use Planning	TR-1.2	Create car-free areas to reduce vehicle use and promote pedestrian use.	TR-1.2a	Build upon Irvine's successful examples of pedestrian- and bike- friendly connections, and expand to other areas in the City, such as Quail Hills trails, Irvine Spectrum, and Irvine Station	In Progress	PWS, T	PW&S Transportation, CD Transportation, CD Planning	N/A

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Transportation and Land Use	TR-1: Sustainable Transportation and Land Use Planning	TR-1.2	Create car-free areas to reduce vehicle use and promote pedestrian use.	TR-1.2b	Facilitate the installation of pedestrian malls in new development projects. A pedestrian mall is characterized as a number of blocks of public streets designated for pedestrian-only use and closed to vehicular traffic. Pedestrian malls are most successful when they are in close proximity to the office/financial core in large cities.	Not Started	CD, T	PW&S Transportation, CD Transportation, CD Planning	N/A
Transportation and Land Use	TR-1: Sustainable Transportation and Land Use Planning	TR-1.2	Create car-free areas to reduce vehicle use and promote pedestrian use.	TR-1.2c	Facilitate alternative street/sidewalk standards to allow for outdoor dining, more pedestrian/bike friendly paths of travel to allow for easy mobility. Rezone uses in pedestrian mall to provide ground floor retail and residential/commercial uses on upper floors.	In Progress	PWS, T	CD Planning, CD Transportation, PWS Transportation	N/A
Transportation and Land Use	TR-1: Sustainable Transportation and Land Use Planning	TR-1.2	Create car-free areas to reduce vehicle use and promote pedestrian use.	TR-1.2d	Explore providing shuttle/microtransit service or similar options to reduce vehicular and parking demand for surrounding streets and neighborhoods (for example, refer to first last mile study for Irvine Spectrum).	In Progress	T	CD Planning, CD Transportation, T Transportation	N/A
Transportation and Land Use	TR-1: Sustainable Transportation and Land Use Planning	TR-1.2	Create car-free areas to reduce vehicle use and promote pedestrian use.	TR-1.2e	Develop an Operation and Maintenance Plan with City dedicated to overseeing the maintenance and landscaping of any new pedestrian malls.	Not Started	PWS	PWS Landscape, open space	N/A
Transportation and Land Use	TR-1: Sustainable Transportation and Land Use Planning	TR-1.2	Create car-free areas to reduce vehicle use and promote pedestrian use.	TR-1.2f	Adopt a Vision Zero Policy to eliminate all traffic fatalities and severe injuries and increase safe, healthy, and equitable mobility for all.	In Progress	T	Unknown	N/A

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Transportation and Land Use	TR-1: Sustainable Transportation and Land Use Planning	TR-1.2	Create car-free areas to reduce vehicle use and promote pedestrian use.	TR-1.2g	Where car-free areas would be infeasible, implement lower speed limits and an array of traffic calming measures, such as speed humps/lumps, roundabouts, curb extensions, channelization islands, and tighter corner radii to promote and increase safety of active transportation and reduce vehicular traffic volumes.	In Progress	T	Public Safety, PWS Transportation, CD Transportation, CD Planning	N/A
Transportation and Land Use	TR-2: Low- and Zero-Emission Vehicles	TR-2.1	Increase electric vehicle (EV) charging infrastructure.	TR-2.1a	Support installation of EV charging infrastructure on City property and throughout the community.	In Progress	PWS	PWS Sustainability	N/A
Transportation and Land Use	TR-2: Low- and Zero-Emission Vehicles	TR-2.1	Increase electric vehicle (EV) charging infrastructure.	TR-2.1b	Ensure EV charging stations are encouraged and allowed through land use designations that currently permit gas fueling stations.	Not Started	CD	CD Planning/Policy	N/A
Transportation and Land Use	TR-2: Low- and Zero-Emission Vehicles	TR-2.1	Increase electric vehicle (EV) charging infrastructure.	TR-2.1c	Install EV charging stations and preferred parking for EVs at public facilities, parks, and other high-use parking areas throughout the City; provide incentives that lead to installation on private property.	In Progress	PWS	PWS Sustainability, Development Engineering, Facilities	N/A
Transportation and Land Use	TR-2: Low- and Zero-Emission Vehicles	TR-2.1	Increase electric vehicle (EV) charging infrastructure.	TR-2.1d	Provide guidelines for the permit application process for EV charging infrastructure installation in residential and nonresidential development.	Complete	CD	CD Permits/Planning/Policy	N/A

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Transportation and Land Use	TR-2: Low- and Zero-Emission Vehicles	TR-2.1	Increase electric vehicle (EV) charging infrastructure.	TR-2.1e	Implement load management strategies for EV charging at City facilities to lower utility bills and minimize electrical infrastructure upgrades, including shared charging, scheduled charging, and fleet management software, as recommended in the DER	In Progress	PWS	PWS Fleet,, Facilities	N/A
Transportation and Land Use	TR-2: Low- and Zero-Emission Vehicles	TR-2.1	Increase electric vehicle (EV) charging infrastructure.	TR-2.1f	Require all nonresidential development to comply with state regulations to electrify medium and heavy-duty parking stalls, loading docks, and activities related to warehouse operations.	Not Started	CD	CD Planning/policy	N/A
Transportation and Land Use	TR-2: Low- and Zero-Emission Vehicles	TR-2.1	Increase electric vehicle (EV) charging infrastructure.	TR-2.1g	Designate certain curbside locations as commercial loading zones exclusively available for zero-emission commercial delivery vehicles.	Not Started	T	CD Transportation	N/A
Transportation and Land Use	TR-2: Low- and Zero-Emission Vehicles	TR-2.2	Increase EV and low-carbon vehicle adoption through incentives and awareness of existing federal, state, and regional incentives/tax credits.	TR-2.2a	Implement accessible hydrogen fuel cell fueling infrastructure in the City as hydrogen vehicles become commercially available.	Not Started	PWS	PWS Fleet,, Facilities, Transportation	N/A
Transportation and Land Use	TR-2: Low- and Zero-Emission Vehicles	TR-2.2	Increase EV and low-carbon vehicle adoption through incentives and awareness of existing federal, state, and regional incentives/tax credits.	TR-2.2b	Develop a ZEV Vehicle Replacement Policy in which City fleet vehicles are replaced with zero emission technology vehicles at levels above and beyond State requirements.	In Progress	PWS	PWS Fleet,, Facilities	N/A
Transportation and Land Use	TR-2: Low- and Zero-Emission Vehicles	TR-2.2	Increase EV and low-carbon vehicle adoption through incentives and awareness of existing federal, state, and regional incentives/tax credits.	TR-2.2c	Promote awareness of local, regional, and State incentives for low- and zero- emission vehicles, such as those provided by SCE and SCAQMD.	Complete	PWS	Sustainability	SCE, SCAQMD

Irvine CAAP GHG Reduction Strategies, Measures, and Actions						Implementation Details			
Sector	Strategy	Measure ID	Measure	Action ID	Action	Status	Responsible City Department(s)	Responsible Department Division	Partner(s)
Transportation and Land Use	TR-2: Low- and Zero-Emission Vehicles	TR-2.2	Increase EV and low-carbon vehicle adoption through incentives and awareness of existing federal, state, and regional incentives/tax credits.	TR-2.2d	Promote South Coast Air Quality Management District's (SCAQMD's) residential EV charging incentive program to offset Level 2 EV charger hardware costs.	Complete	PWS	Sustainability	SCAQMD
Transportation and Land Use	TR-2: Low- and Zero-Emission Vehicles	TR-2.2	Increase EV and low-carbon vehicle adoption through incentives and awareness of existing federal, state, and regional incentives/tax credits.	TR-2.2e	Promote SCAQMD's Replace Your Ride program that incentivizes replacement of older vehicles with a newer vehicle, upgrade to a hybrid or electric vehicle, or vouchers for car-sharing or public transit passes.	Complete	PWS	Sustainability	SCAQMD
Transportation and Land Use	TR-2: Low- and Zero-Emission Vehicles	TR-2.2	Increase EV and low-carbon vehicle adoption through incentives and awareness of existing federal, state, and regional incentives/tax credits.	TR-2.2f	Develop and implement an electric car share program.	Not Started	T	PWS Transportation	N/A
Transportation and Land Use	TR-2: Low- and Zero-Emission Vehicles	TR-2.2	Increase EV and low-carbon vehicle adoption through incentives and awareness of existing federal, state, and regional incentives/tax credits.	TR-2.2g	Promote SCE's pre-owned electric vehicle rebate program and Charge Ready Program which assists business and property owners with deploying the infrastructure and equipment necessary to support EV charging stations at their locations.	Complete	PWS	Sustainability	SCE
Transportation and Land Use	TR-2: Low- and Zero-Emission Vehicles	TR-2.2	Increase EV and low-carbon vehicle adoption through incentives and awareness of existing federal, state, and regional incentives/tax credits.	TR-2.2h	Support the development of a regional EV collaborative, led by OCPA, or other regional partner to share lessons learned and best practices, and track metrics.	Not Started	PWS, T	Sustainability	OCPA
Transportation and Land Use	TR-2: Low- and Zero-Emission Vehicles	TR-2.3	Support EVs in new development by increasing the number of chargers required.	TR-2.3a	Adopt an EV charging reach code to become effective January 1, 2025, to meet or exceed 2022 CalGreen Code Tier 2 EV Charging Requirements for Residential and Nonresidential Buildings.	Not Started	CD	CD Planning/policy	N/A

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Sector	Strategy	Measure ID	Measure	Action ID	Action	Status	Responsible City Department(s)	Responsible Department Division	Partner(s)
Transportation and Land Use	TR-2: Low- and Zero-Emission Vehicles	TR-2.4	Reduce the use of fossil fuel-powered vehicles.	TR-2.4a	Implement the City of Irvine Zero Emission Vehicles Transition Plan to increase adoption of ZEV technologies in the city, including the installation of chargers on City property identified as high priority in the ZEV Transition Plan.	In Progress	PWS	PWS Fleet, Development Engineering, CIP	N/A
Transportation and Land Use	TR-2: Low- and Zero-Emission Vehicles	TR-2.4	Reduce the use of fossil fuel-powered vehicles.	TR-2.4b	Evaluate feasibility for a cordon pricing scheme that sets a cordon (boundary) around a specified area to charge a toll to enter the area by vehicle. The cordon location is usually the boundary of a central business district or urban center but could also apply to substantial development projects with limited points of access. The toll price can be based on a fixed schedule or be dynamic, responding to real-time congestion levels. (Note: This action is contingent on having an existing, high quality transit infrastructure to reach a significant level of effectiveness. This measure should provide an exception for low-income residents or workers within the pricing zone.)	Not Started	T	CD Transportation,	N/A
Transportation and Land Use	TR-2: Low- and Zero-Emission Vehicles	TR-2.4	Reduce the use of fossil fuel-powered vehicles.	TR-2.4c	Encourage and/or incentivize the use of E-Bikes, including evaluation of the installation of charging infrastructure at bike storage locations.	Not Started	PWS, T	PWS Transportation	N/A
Transportation and Land Use	TR-3: Transit System Improvement	TR-3.1	Enhance and expand transit facilities and infrastructure to access a broader ridership.	TR-3.1a	Explore creating a circulator shuttle service that provides bi-directional frequent, free or low-cost connections between the Irvine Station, other stations, rideshare lots, and key city destinations and the airport as a supplement to OCTA service.	In Progress	T	PWS Transportation	OCTA

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Transportation and Land Use	TR-3: Transit System Improvement	TR-3.1	Enhance and expand transit facilities and infrastructure to access a broader ridership.	TR-3.1b	Evaluate the feasibility of developing a light rail system that connects Irvine residents to key employment, retail, and educational destinations.	In Progress	T	PWS Transportation	N/A
Transportation and Land Use	TR-3: Transit System Improvement	TR-3.1	Enhance and expand transit facilities and infrastructure to access a broader ridership.	TR-3.1c	Improve transit access and safety through sidewalk/crosswalk safety enhancements, bus shelter improvements, improved lighting, and other features. Work with the community to determine barriers to use, most desired improvements, and other access challenges.	In Progress	PWS, T	PWS, Development Engineering, Transportation	N/A
Transportation and Land Use	TR-3: Transit System Improvement	TR-3.1	Enhance and expand transit facilities and infrastructure to access a broader ridership.	TR-3.1d	Provide real-time bus/train arrival time, travel time, alternative routings, or other transit information via electronic message signs, dedicated monitor or interactive electronic displays, websites, or mobile apps.	Complete	T	PWS Transportation, Community Engagement	N/A
Transportation and Land Use	TR-3: Transit System Improvement	TR-3.1	Enhance and expand transit facilities and infrastructure to access a broader ridership.	TR-3.1e	Provide short-term and long-term bicycle parking near rail stations, transit stops, and freeway access points near commuter or rapid bus lines.	Complete	PWS, T	PWS, Development Engineering, Transportation, CD Transportation	N/A
Transportation and Land Use	TR-3: Transit System Improvement	TR-3.1	Enhance and expand transit facilities and infrastructure to access a broader ridership.	TR-3.1f	Implement an electric carshare program at the Irvine Station to provide zero emissions first mile-last mile travel.	Not Started	T	PWS Transportation	N/A

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Transportation and Land Use	TR-3: Transit System Improvement	TR-3.1	Enhance and expand transit facilities and infrastructure to access a broader ridership.	TR-3.1g	Explore developing a City Transportation Authority to implement actions listed.	In Progress	CMO	City Managers Office	N/A
Transportation and Land Use	TR-3: Transit System Improvement	TR-3.1	Enhance and expand transit facilities and infrastructure to access a broader ridership.	TR-3.1h	Develop transportation services (shuttle) to and from train stations or rideshare parking lots to Orange County Airport.	In Progress	T	PWS Transportation	Orange County Airport
Transportation and Land Use	TR-3: Transit System Improvement	TR-3.1	Enhance and expand transit facilities and infrastructure to access a broader ridership.	TR-3.1i	Partner with Amtrak, Metrolink, and Orange County Transportation Authority (OCTA) to expand the Irvine Station with ridership upgrades and broader connectivity with farther lying areas of the City.	Not Started	T	PWS Transportation	Amtrak, Metrolink, OCTA
Transportation and Land Use	TR-3: Transit System Improvement	TR-3.1	Enhance and expand transit facilities and infrastructure to access a broader ridership.	TR-3.1j	Work with OCTA to expand iShuttle service to provide first and last mile services for residents of Irvine.	Not Started	T	PWS Transportation	OCTA
Transportation and Land Use	TR-3: Transit System Improvement	TR-3.1	Enhance and expand transit facilities and infrastructure to access a broader ridership.	TR-3.1k	Work with OCTA to expand on-demand service to underserved areas of the City.	Not Started	T	PWS Transportation	OCTA
Transportation and Land Use	TR-3: Transit System Improvement	TR-3.1	Enhance and expand transit facilities and infrastructure to access a broader ridership.	TR-3.1l	Work with OCTA to expand bus rapid transit throughout the city.	Not Started	T	PWS Transportation	OCTA

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Sector	Strategy	Measure ID	Measure	Action ID	Action	Status	Responsible City Department(s)	Responsible Department Division	Partner(s)
Transportation and Land Use	TR-3: Transit System Improvement	TR-3.1	Enhance and expand transit facilities and infrastructure to access a broader ridership.	TR-3.1m	Collaborate with regional transit providers to increase shading and heat- mitigating materials at transit stops.	Not Started	PWS, T	PWS Transportation, Community Engagement	N/A
Transportation and Land Use	TR-3: Transit System Improvement	TR-3.1	Enhance and expand transit facilities and infrastructure to access a broader ridership.	TR-3.1n	Partner with Irvine Unified School District to explore alternative school transportation modes for students.	In Progress	T, CS	N/A	IUSD
Transportation and Land Use	TR-3: Transit System Improvement	TR-3.2	Increase transit ridership through incentives and more frequent, connected transit lines.	TR-3.2a	Implement transit-supportive treatments on transit routes to incorporate roadway infrastructure improvements and/or traffic signal modifications that improve transit travel times and reliability, such as curb extensions or bus lanes.	Not Started	T	N/A	N/A
Transportation and Land Use	TR-3: Transit System Improvement	TR-3.2	Increase transit ridership through incentives and more frequent, connected transit lines.	TR-3.2b	Create incentives, such as fare reductions and convenient routes, to shift travel to transit from single- occupancy vehicles and other traveling modes.	Not Started	T	N/A	N/A
Transportation and Land Use	TR-3: Transit System Improvement	TR-3.2	Increase transit ridership through incentives and more frequent, connected transit lines.	TR-3.2c	Work with OCTA to provide no-cost bus passes to low-income residents and students, including students enrolled in post-secondary education at the University of California Irvine and Irvine Valley College.	Not Started	T	N/A	OCTA

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Sector	Strategy	Measure ID	Measure	Action ID	Action	Status	Responsible City Department(s)	Responsible Department Division	Partner(s)
Transportation and Land Use	TR-3: Transit System Improvement	TR-3.2	Increase transit ridership through incentives and more frequent, connected transit lines.	TR-3.2d	Expand upon first-last mile partnerships between the City/OCTA and a transportation network company (TNC) for subsidized, shared TNC rides to or from the Irvine Station. Consider providing inclusive mechanisms so people without bank accounts, credit cards, or smart phones can access the incentives.	Not Started	T	N/A	OCTA
Transportation and Land Use	TR-3: Transit System Improvement	TR-3.2	Increase transit ridership through incentives and more frequent, connected transit lines.	TR-3.2e	Work with OCTA to add or modify existing transit service to increase ridership in Irvine, including extending operation hours of transit to accommodate alternative-shift workers.	Not Started	T	N/A	OCTA
Transportation and Land Use	TR-3: Transit System Improvement	TR-3.3	Implement an on-demand microtransit system, transporting residents from curb to curb (e.g., OC Flex or LA County Micro).	TR-3.3a	Consider deployment of ZEV shuttles to provide on-demand service.	Not Started	T	N/A	N/A
Transportation and Land Use	TR-3: Transit System Improvement	TR-3.3	Implement an on-demand microtransit system, transporting residents from curb to curb (e.g., OC Flex or LA County Micro).	TR-3.3b	Provide on-demand public transit services that offers flexible routes and on-demand scheduling through coordination with OCTA or a private entity. Microtransit aims to offer shorter wait times and improved reliability compared to the bus and rail system to further incentivize alternative transportation modes. On-demand public transit services would involve user- friendly smartphone applications for booking on-demand rides.	Not Started	T	N/A	OCTA
Transportation and Land Use	TR-4: Active Transportation	TR-4.1	Develop more protected bikeways.	TR-4.1a	Implement recommendations for improving pedestrian infrastructure identified in the City of Irvine Strategic Active Transportation Plan.	Not Started	PWS,T	N/A	N/A

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Transportation and Land Use	TR-4: Active Transportation	TR-4.1	Develop more protected bikeways.	TR-4.1b	Implement bicycle and pedestrian trail network improvements to close gaps and improve connection with the regional trail network, such as completing the Jeffrey Open Space Trail.	In Progress	PWS	N/A	N/A
Transportation and Land Use	TR-4: Active Transportation	TR-4.1	Develop more protected bikeways.	TR-4.1c	Prioritize the installation and proper maintenance of protected bike lanes that are separated from vehicular traffic with physical barriers.	In Progress	PWS, T	N/A	N/A
Transportation and Land Use	TR-4: Active Transportation	TR-4.2	Expand bicycling and walking options through infrastructure improvements.	TR-4.2a	Implement sidewalk improvements, high-visibility crosswalks, crossing improvements, protected intersections, right-turn restrictions, above- and below-grade pedestrian and bicycle connections, traffic signal priority, and corridor improvements.	In Progress	PWS, T	N/A	N/A
Transportation and Land Use	TR-4: Active Transportation	TR-4.2	Expand bicycling and walking options through infrastructure improvements.	TR-4.2b	Continue ongoing work with Irvine Unified School District to build on its local Suggested Routes to School program to create safe, convenient, and fun opportunities for children to bicycle and walk to and from schools.	In Progress	T	N/A	IUSD
Transportation and Land Use	TR-4: Active Transportation	TR-4.2	Expand bicycling and walking options through infrastructure improvements.	TR-4.2c	Adopt a Walkability Plan and/or Pedestrian Design Guidelines that seek to improve street lighting, safer crosswalks, ADA compliance, and signage.	Not Started	PWS, T	N/A	N/A
Transportation and Land Use	TR-4: Active Transportation	TR-4.2	Expand bicycling and walking options through infrastructure improvements.	TR-4.2d	Develop a City mobility plan.	Complete	T	N/A	N/A

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Sector	Strategy	Measure ID	Measure	Action ID	Action	Status	Responsible City Department(s)	Responsible Department Division	Partner(s)
Transportation and Land Use	TR-4: Active Transportation	TR-4.2	Expand bicycling and walking options through infrastructure improvements.	TR-4.2e	Create a wayfinding program to guide people who walk and bike through safe and improved routes to major destinations.	Not Started	T	N/A	N/A
Transportation and Land Use	TR-4: Active Transportation	TR-4.2	Expand bicycling and walking options through infrastructure improvements.	TR-4.2f	Consider requirements for bicycle parking upgrades at existing commercial centers (specifically adding bike racks to accommodate e- bikes).	Not Started	CD	N/A	N/A
Transportation and Land Use	TR-4: Active Transportation	TR-4.2	Expand bicycling and walking options through infrastructure improvements.	TR-4.2g	Examine opportunities to remove or re-purpose roadway travel lanes devoted to vehicle traffic.	Not Started	T	N/A	N/A
Transportation and Land Use	TR-4: Active Transportation	TR-4.2	Expand bicycling and walking options through infrastructure improvements.	TR-4.2h	Continue ongoing work with Irvine Unified School District to build on its local Suggested Routes to School program to create safe, convenient, and fun opportunities for children to bicycle and walk to and from schools.	In Progress	T	N/A	IUSD
Transportation and Land Use	TR-4: Active Transportation	TR-4.3	Develop more accessible and safer pedestrian infrastructure.	N/A	See actions under Measure TR-4.2.	N/A	N/A	N/A	N/A
Transportation and Land Use	TR-4: Active Transportation	TR-4.4	Implement a community bikeshare program.	TR-4.4a	Build upon previous efforts to implement a docked bikeshare program that provides users with on- demand access to bikes for short-term rentals.	Not Started	T	N/A	N/A

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Sector	Strategy	Measure ID	Measure	Action ID	Action	Status	Responsible City Department(s)	Responsible Department Division	Partner(s)
Transportation and Land Use	TR-4: Active Transportation	TR-4.4	Implement a community bikeshare program.	TR-4.4b	Consider implementation of a docked electric bikeshare and/or scootershare program that provides users with on-demand access to electric pedal assist bikes and electric scooters for short-term rentals.	Not Started	CD	N/A	N/A
Transportation and Land Use	TR-5: Transportation Demand Management	TR-5.1	Reduce vehicle miles traveled (VMT) from local businesses through employee rideshare and transit incentive services such as Spectrumotion.	TR-5.1a	Require large employers in the City to implement commute trip reduction (CTR) program. The CTR program must include commute trip reduction marketing, ridesharing provisions, subsidized or discounted transit passes, end-of-trip bicycle facilities, employer-sponsored vanpool, plus include mandatory trip reduction requirements (including penalties for non-compliance) and regular monitoring and reporting of these program components.	In Progress	CD	N/A	N/A
Transportation and Land Use	TR-5: Transportation Demand Management	TR-5.1	Reduce vehicle miles traveled (VMT) from local businesses through employee rideshare and transit incentive services such as Spectrumotion.	TR-5.1b	Require large employers in the City to offer employee parking cash-out as alternate transit options become available. Cash-out is when employers provide employees with a choice of forgoing their current subsidized/free parking for a cash payment equivalent to or greater than the cost of the parking space.	Not Started	CD	CD Planning	N/A
Transportation and Land Use	TR-5: Transportation Demand Management	TR-5.2	Increase implementation of transportation demand management (TDM) strategies such as high-occupancy vehicle (HOV) lanes or reduced transit fares for students to reduce vehicle emissions.	TR-5.2a	See actions under Measures TR-3.1, TR-3.2, and TR-3.3.	N/A	N/A	N/A	N/A

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Sector	Strategy	Measure ID	Measure	Action ID	Action	Status	Responsible City Department(s)	Responsible Department Division	Partner(s)
Transportation and Land Use	TR-6: Vehicle Idling	TR-6.1	Reduce vehicle idling through education and adoption of EVs and plug-in hybrid electric vehicles (PHEV).	TR-6.1a	See actions under Measures TR-2.1, TR-2.2, TR-2.3, and TR-2.4.	N/A	N/A	N/A	N/A
Transportation and Land Use	TR-7: Parking	TR-7.1	Reduce the amount of parking such that it meets the needs of residents, workers, and visitors in a way that is consistent with the City's sustainability goals.	TR-7.1a	Assess the feasibility on pricing on- street parking in the City, with a focus on parking near Irvine Spectrum, Irvine Business Complex and other central business districts, employment centers, and retail centers.	In Progress	CD, T	N/A	N/A
Transportation and Land Use	TR-7: Parking	TR-7.1	Reduce the amount of parking such that it meets the needs of residents, workers, and visitors in a way that is consistent with the City's sustainability goals.	TR-7.1b	Explore pilot program to reduce parking minimums in areas of high- density residential and residential mixed use located in areas within ½ mile of high quality transit station and/or high quality fixed transit stop, and update the Zoning Ordinance parking requirements to reflect update.	Not Started	CD, T	CD Planning, CD Transportation	N/A
Transportation and Land Use	TR-7: Parking	TR-7.1	Reduce the amount of parking such that it meets the needs of residents, workers, and visitors in a way that is consistent with the City's sustainability goals.	TR-7.1c	Require new developments to unbundle, or separate, a residential project's parking costs from property costs, requiring those who wish to purchase parking spaces to do so at an additional cost.	Not Started	CD	CD Planning, CD Transportation	N/A
Transportation and Land Use	TR-7: Parking	TR-7.2	Implement fees for parking in high-traffic areas.	N/A	See actions under Measure TR-7.1.	N/A	N/A	N/A	N/A

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Off-Road Vehicles and Equipment	OR-1: Electrification and Clean Alternatives	OR-1.1	Reduce emissions from landscaping equipment such as leaf blowers by supporting a transition to electric equipment.	OR-1.1a	Incentivize developers to install sufficient exterior electrical outlets to assist with charging electric-powered landscaping equipment.	Not Started	CD	CD Planning	N/A
Off-Road Vehicles and Equipment	OR-1: Electrification and Clean Alternatives	OR-1.1	Reduce emissions from landscaping equipment such as leaf blowers by supporting a transition to electric equipment.	OR-1.1b	Research incentives for landscapers to purchase additional batteries and facilitate conversion to all- electric equipment.	In Progress	PWS, C&E	PWS Sustainability, C&E Engagement	N/A
Off-Road Vehicles and Equipment	OR-1: Electrification and Clean Alternatives	OR-1.1	Reduce emissions from landscaping equipment such as leaf blowers by supporting a transition to electric equipment.	OR-1.1c	Promote SCAQMD's residential Electric Lawn Mower Rebate Program which provides incentives to replace gas- powered landscape equipment with an electric alternative.	In Progress	PWS, C&E	PWS Sustainability, C&E Engagement	SCAQMD
Off-Road Vehicles and Equipment	OR-1: Electrification and Clean Alternatives	OR-1.1	Reduce emissions from landscaping equipment such as leaf blowers by supporting a transition to electric equipment.	OR-1.1d	Promote SCAQMD's Commercial Electric Lawn and Garden Equipment Incentive & Exchange Program available to commercial landscapers and gardeners and local governments, school districts, colleges and non-profits.	In Progress	PWS	PWS Sustainability, C&E Engagement	SCAQMD
Off-Road Vehicles and Equipment	OR-1: Electrification and Clean Alternatives	OR-1.1	Reduce emissions from landscaping equipment such as leaf blowers by supporting a transition to electric equipment.	OR-1.1e	Adopt an ordinance to require business owners (including landscaping businesses) to convert or replace their gasoline-powered gardening equipment, such as lawn mowers, leaf blowers, and hedge trimmers, with electric equipment.	Complete	CD	PWS Sustainability	N/A
Off-Road Vehicles and Equipment	OR-1: Electrification and Clean Alternatives	OR-1.1	Reduce emissions from landscaping equipment such as leaf blowers by supporting a transition to electric equipment.	OR-1.1f	Require all new development to install sufficient exterior electrical outlets to charge electric-powered landscaping equipment.	Not Started	CD	CD Planning	N/A

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Off-Road Vehicles and Equipment	OR-1: Electrification and Clean Alternatives	OR-1.2	Reduce emissions from construction equipment by supporting a transition to electric equipment.	OR-1.2a	Encourage the use of electric- powered construction equipment in all discretionary projects.	Not Started	N/A	N/A	N/A
Off-Road Vehicles and Equipment	OR-1: Electrification and Clean Alternatives	OR-1.2	Reduce emissions from construction equipment by supporting a transition to electric equipment.	OR-1.2b	Prohibit the use of fossil fuel- powered generators at construction sites in all discretionary projects.	Not Started	N/A	N/A	N/A
Off-Road Vehicles and Equipment	OR-1: Electrification and Clean Alternatives	OR-1.2	Reduce emissions from construction equipment by supporting a transition to electric equipment.	OR-1.2c	Require all construction projects starting in 2024 to consider decarbonizing fuels and require the use of Tier 4 construction equipment.	Not Started	CD	CD Planning, Sustainability	N/A
Solid Waste	SW-1: Zero Waste	SW-1.1	Eliminate the disposal of organic solid waste in landfills to reduce methane emissions.	SW-1.1a	Implement and enforce the requirements of Senate Bill 1383 and eliminate disposal of compostable organic materials to landfills.	Complete	PWS	Sustainability	N/A
Solid Waste	SW-1: Zero Waste	SW-1.1	Eliminate the disposal of organic solid waste in landfills to reduce methane emissions.	SW-1.1b	Coordinate with waste haulers to expand existing organic waste collection routes and drop-off sites to improve composting services for interested residents and businesses.	Complete	PWS	Sustainability	N/A
Solid Waste	SW-1: Zero Waste	SW-1.1	Eliminate the disposal of organic solid waste in landfills to reduce methane emissions.	SW-1.1c	Seek partnerships with schools to develop school composting programs and education.	In Progress	PWS	Sustainability	IUSD

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Solid Waste	SW-1: Zero Waste	SW-1.1	Eliminate the disposal of organic solid waste in landfills to reduce methane emissions.	SW-1.1d	Partner or contract with local food recovery organizations to redistribute food waste to disadvantaged communities.	Complete	PWS	Sustainability	N/A
Solid Waste	SW-1: Zero Waste	SW-1.2	Increase recycling and the diversion of other inorganic solid waste through the expansion of public recycling bins.	SW-1.2a	Continue to increase participation in, while simultaneously reducing contamination of, curbside and drop-off recycling programs for all residential, commercial, industrial, and institutional uses. Identify new drop-off opportunities and additional items that can be recycled curbside.	In Progress	PWS	Sustainability	N/A
Solid Waste	SW-1: Zero Waste	SW-1.2	Increase recycling and the diversion of other inorganic solid waste through the expansion of public recycling bins.	SW-1.2b	Provide education, audits, and other technical assistance to increase waste diversion rates. Develop waste reduction and diversion behavior campaigns in partnership with local organizations.	Complete	PWS	Sustainability	N/A
Solid Waste	SW-1: Zero Waste	SW-1.2	Increase recycling and the diversion of other inorganic solid waste through the expansion of public recycling bins.	SW-1.2c	Adopt an ordinance that requires the use of only recyclable and compostable materials by vendors, and adequate staff to ensure proper disposal and recycling at events that require a city-issued permit.	In Progress	CS	Community Services Events Teams (All,)Sustainability	N/A
Solid Waste	SW-1: Zero Waste	SW-1.2	Increase recycling and the diversion of other inorganic solid waste through the expansion of public recycling bins.	SW-1.2d	Partner with waste haulers to expand the diversion of non- food, non-construction, and non-demolition solid waste.	Complete	PWS	Sustainability	N/A

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Solid Waste	SW-1: Zero Waste	SW-1.3	Reduce the generation of waste from residents and businesses through waste-reduction measures such as single-use plastic restrictions and bans.	SW-1.3a	Continue outreach, cost analysis, policy review, and education throughout the city on single-use plastic waste reduction.	In Progress	PWS	Sustainability	N/A
Solid Waste	SW-1: Zero Waste	SW-1.3	Reduce the generation of waste from residents and businesses through waste-reduction measures such as single-use plastic restrictions and bans.	SW-1.3b	Enhance education and enforcement of AB 1276 that requires provision of single use plastic (and bioplastic) straws, utensils, and condiment packets only upon the request of the customer.	Not Started	PWS	Sustainability	N/A
Solid Waste	SW-1: Zero Waste	SW-1.4	Reduce the generation of construction and demolition waste.	SW-1.4a	Adopt a comprehensive construction and demolition ordinance to reach a 75 percent diversion rate.	Complete	CD	Sustainability	N/A
Solid Waste	SW-1: Zero Waste	SW-1.5	Facilitate repair and reuse of consumer products.	SW-1.5a	Evaluate the feasibility of creating a reuse facility that makes building materials available to customers and acts as an outlet for reusable items otherwise destined for the landfill.	Not Started	PWS	N/A	N/A
Solid Waste	SW-1: Zero Waste	SW-1.5	Facilitate repair and reuse of consumer products.	SW-1.5b	Create and support or enter into contracts with third parties to provide "fix-it clinics" at Parks and Facilities and other city facilities that can build skills among local businesses and residents in innovation, repair, and reuse.	Not Started	CS	Community Services Parks	N/A
Solid Waste	SW-2: Landfill Emissions	SW-2.1	Dispose waste at innovative facilities such as waste-to-energy and reuse facilities.	N/A	See actions under Measures SW-1.5 and SW-2.2.	N/A	N/A	N/A	N/A

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Sector	Strategy	Measure ID	Measure	Action ID	Action	Status	Responsible City Department(s)	Responsible Department Division	Partner(s)
Solid Waste	SW-2: Landfill Emissions	SW-2.2	Support waste-to-energy facilities that turn trash into fuel.	SW-2.2a	Establish a local facility (in partnership with OC Sanitation District, OC Waste & Recycling, or others) that can process organic waste local to Irvine.	Complete	PWS	Sustainability	OC San, OC Waste & Recycling
Solid Waste	SW-2: Landfill Emissions	SW-2.2	Support waste-to-energy facilities that turn trash into fuel.	SW-2.2b	Work with Orange County Waste & Recycling to evaluate feasibility of organic waste-to-energy production at local landfills.	Not Started	PWS	Sustainability	OC Waste & Recycling
Solid Waste	SW-2: Landfill Emissions	SW-2.2	Support waste-to-energy facilities that turn trash into fuel.	SW-2.2c	Work with Orange County Waste & Recycling to evaluate feasibility of hydrogen generation from organic waste at local landfills.	Not Started	PWS	Sustainability	OC Waste & Recycling
Solid Waste	SW-2: Landfill Emissions	SW-2.3	Engage with waste-related policy making.	SW-2.3a	Track State legislation regarding solid waste and advocate for actions that reduce emissions from this sector.	Complete	PWS	Sustainability	N/A
Water and Wastewater	W-1: Water Conservation	W-1.1	Reduce water consumption in buildings through conservation campaigns and water efficiency measures.	W-1.1a	Facilitate and respond to reports of water waste and violations of local water use restrictions.	Not Started	PWS	CD Water Quality	IRWD
Water and Wastewater	W-1: Water Conservation	W-1.1	Reduce water consumption in buildings through conservation campaigns and water efficiency measures.	W-1.1b	Require ultra-low-flow fixtures in new development to reduce water consumption.	Complete	CD	CD Water Quality	N/A

Irvine CAAP GHG Reduction Strategies, Measures, and Actions						Implementation Details			
Sector	Strategy	Measure ID	Measure	Action ID	Action	Status	Responsible City Department(s)	Responsible Department Division	Partner(s)
Water and Wastewater	W-1: Water Conservation	W-1.1	Reduce water consumption in buildings through conservation campaigns and water efficiency measures.	W-1.1c	Establish ultra-low-flow water fixture retrofit-upon-sale requirements for residential and nonresidential buildings.	Not Started	CD	CD Water Quality	N/A
Water and Wastewater	W-1: Water Conservation	W-1.1	Reduce water consumption in buildings through conservation campaigns and water efficiency measures.	W-1.1d	Adopt a Building Performance Standard that requires owners of multi-family, commercial and industrial buildings 20,000 square feet and larger to benchmark their water consumption and perform audits and building upgrades for low- performing buildings.	Not Started	CD	CD Advance Planning & Building Planning	N/A
Water and Wastewater	W-1: Water Conservation	W-1.1	Reduce water consumption in buildings through conservation campaigns and water efficiency measures.	W-1.1e	Require benchmarked buildings to display their water scores label in a conspicuous location near each public entrance.	Not Started	PWS	Sustainability	IRWD
Water and Wastewater	W-1: Water Conservation	W-1.1	Reduce water consumption in buildings through conservation campaigns and water efficiency measures.	W-1.1f	Promote water conservation incentives such as appliance and plumbing rebates and water conservation kits in partnership with Irvine Ranch Water District and other local partners.	Not Started	PWS	Sustainability	N/A
Water and Wastewater	W-1: Water Conservation	W-1.2	Reduce water consumption for irrigation and landscaping by encouraging drought tolerant/low-water use landscaping practices.	W-1.2a	Continue efforts to reduce consumption of water, electricity, and fossil fuels in the construction, operations and maintenance of parks and recreation facilities where possible through use of low- water use landscaping, water conservation technology, and continued use of recycled water.	In Progress	PWS, CD	PWS Facilities, Landscape, CD Planning	N/A

Irvine CAAP GHG Reduction Strategies, Measures, and Actions						Implementation Details			
Sector	Strategy	Measure ID	Measure	Action ID	Action	Status	Responsible City Department(s)	Responsible Department Division	Partner(s)
Water and Wastewater	W-1: Water Conservation	W-1.2	Reduce water consumption for irrigation and landscaping by encouraging drought tolerant/low-water use landscaping practices.	W-1.2b	Install low-water use landscaping that is adapted to recycled water in the public right of way and City-owned buildings and facilities.	In Progress	PWS, CD	PWS Facilities, Landscape	N/A
Water and Wastewater	W-1: Water Conservation	W-1.2	Reduce water consumption for irrigation and landscaping by encouraging drought tolerant/low-water use landscaping practices.	W-1.2c	Require drought-tolerant, water- conserving, and/or native landscaping in new development and redevelopment projects (low- water use landscaping for areas served with recycled water).	In Progress	PWS, CD	PWS Facilities, Landscape	N/A
Water and Wastewater	W-1: Water Conservation	W-1.2	Reduce water consumption for irrigation and landscaping by encouraging drought tolerant/low-water use landscaping practices.	W-1.2d	Continue to promote landscape water conservation incentives in partnership with Irvine Ranch Water District and through the Cool Irvine program.	In Progress	PWS, CD	PWS Sustainability, CD Permitting	IRWD
Water and Wastewater	W-2: Recycled Water	W-2.1	Increase the use of recycled water.	W-2.1a	Implement IRWD's requirements for dual-plumbed systems in new nonresidential development.	Complete	PWS, CD	PWS Sustainability, CD Advanced Planning	IRWD
Water and Wastewater	W-2: Recycled Water	W-2.1	Increase the use of recycled water.	W-2.1b	Encourage the use of onsite rainwater harvesting and recycled water systems, consistent with applicable environmental, health, and safety regulations and requirements.	Not Started	PWS, CD	PWS Sustainability, CD Water Quality	IRWD
Water and Wastewater	W-2: Recycled Water	W-2.1	Increase the use of recycled water.	W-2.1c	Encourage the use of rainwater capture and onsite recycled water for landscaping use.	Not Started	PWS, CD	PWS Sustainability, CD Water Quality	N/A

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Water and Wastewater	W-2: Recycled Water	W-2.1	Increase the use of recycled water.	W-2.1d	Update the City's list of drought- tolerant and native plants to reflect indigenous tribal knowledge.	In Progress	PWS, CD	PWS Sustainability, PWS Open Space/Landscape	N/A
Water and Wastewater	W-2: Recycled Water	W-2.1	Increase the use of recycled water.	W-2.1e	Collaborate with IRWD on drought-ready policies to require greywater readiness in new residential construction and alterations.	Not Started	PWS, CD	PWS Sustainability, CD Water Quality, CD Planning	IRWD
Resilience, Green Economy, and Carbon Sequestration	MS-1: Urban Forestry and Open Space	MS-1.1	Protect and enhance native trees and vegetation.	MS-1.1a	Use tools such as CalEnviroScreen to determine priority pollution-burdened areas of the city that may benefit most from vegetative barriers and plant drought-tolerant vegetative barriers in these areas.	Not Started	PWS, CD	N/A	N/A
Resilience, Green Economy, and Carbon Sequestration	MS-1: Urban Forestry and Open Space	MS-1.1	Protect and enhance native trees and vegetation.	MS-1.1b	Develop a free residential yard tree program that prioritizes homes in low-income communities.	Not Started	PWS, CD	N/A	N/A
Resilience, Green Economy, and Carbon Sequestration	MS-1: Urban Forestry and Open Space	MS-1.1	Protect and enhance native trees and vegetation.	MS-1.1c	Establish and implement a residential tree planting and replacement program for single-family homeowners.	Not Started	PWS, CD	PWS Landscape, Open Space, CD Planning	N/A
Resilience, Green Economy, and Carbon Sequestration	MS-1: Urban Forestry and Open Space	MS-1.1	Protect and enhance native trees and vegetation.	MS-1.1d	Maximize tree potential in parking lot standards by amending the city's Landscaping Standards to require one tree to every 4 parking spaces.	Not Started	PWS, CD, CMO	PWS Landscape, CD Traffic Division, CD Transportation Planning, CMO	N/A

Irvine CAAP GHG Reduction Strategies, Measures, and Actions						Implementation Details			
Sector	Strategy	Measure ID	Measure	Action ID	Action	Status	Responsible City Department(s)	Responsible Department Division	Partner(s)
Resilience, Green Economy, and Carbon Sequestration	MS-1: Urban Forestry and Open Space	MS-1.1	Protect and enhance native trees and vegetation.	MS-1.1e	Create an Urban Forest Master Plan, including a tree inventory and maintenance plan. Assess the current composition and distribution of the city's trees and include information about tree characteristics, maintenance history, and management needs. Assess community needs for new trees for an enhanced urban tree canopy to ensure adequate shade and air pollution buffers.	In Progress	PWS, CD	PWS Landscape Division, CD Planning	N/A
Resilience, Green Economy, and Carbon Sequestration	MS-1: Urban Forestry and Open Space	MS-1.1	Protect and enhance native trees and vegetation.	MS-1.1f	Amend the zoning ordinance to create tree planting standards for new and renovated development, consistent with the Urban Forest Management Plan.	Not Started	CD, CMO	CMO Economic Development, CD Planning	N/A
Resilience, Green Economy, and Carbon Sequestration	MS-1: Urban Forestry and Open Space	MS-1.1	Protect and enhance native trees and vegetation.	MS-1.1g	Support restoration projects by neighborhood groups.	Not Started	PWS, CD	N/A	N/A
Resilience, Green Economy, and Carbon Sequestration	MS-1: Urban Forestry and Open Space	MS-1.2	Expand and protect city parks and open spaces.	MS-1.2a	Promote connectedness between communities and parks by improving transition points.	In Progress	PWS	PWS Traffic	N/A
Resilience, Green Economy, and Carbon Sequestration	MS-1: Urban Forestry and Open Space	MS-1.2	Expand and protect city parks and open spaces.	MS-1.2b	Provide more shade in local parks through planting and maintenance of trees.	In Progress	PWS	PWS Landscape, Open Space, Facilities	N/A

Irvine CAAP GHG Reduction Strategies, Measures, and Actions						Implementation Details			
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Resilience, Green Economy, and Carbon Sequestration	MS-1: Urban Forestry and Open Space	MS-1.2	Expand and protect city parks and open spaces.	MS-1.2c	Revitalize and invest in parks near disadvantaged communities.	Not Started	CS	N/A	N/A
Resilience, Green Economy, and Carbon Sequestration	MS-1: Urban Forestry and Open Space	MS-1.2	Expand and protect city parks and open spaces.	MS-1.2d	Support the creation of community gardens on public and private lands by community groups by amending the zoning ordinance to allow for urban agricultural uses.	Not Started	CD, CS	N/A	N/A
Resilience, Green Economy, and Carbon Sequestration	MS-1: Urban Forestry and Open Space	MS-1.2	Expand and protect city parks and open spaces.	MS-1.2e	Require that the site planning, construction, and maintenance of new development preserve existing healthy trees and native vegetation on site to the maximum extent feasible. Replace trees and vegetation not able to be saved.	Not Started	PWS	N/A	N/A
Resilience, Green Economy, and Carbon Sequestration	MS-2: Urban Heat Island Reduction	MS-2.1	Reduce the urban heat island effect with urban forestry, shade structures, and cool roofs to conserve energy.	MS-2.1a	Expand the Cool Pavements Pilot Project by continuing to apply high-albedo treatments to roadways during CIP projects.	In Progress	PWS	N/A	N/A
Resilience, Green Economy, and Carbon Sequestration	MS-2: Urban Heat Island Reduction	MS-2.1	Reduce the urban heat island effect with urban forestry, shade structures, and cool roofs to conserve energy.	MS-2.1b	Require new development to use high-albedo materials for walls, surfaces, driveways, parking lots, walkways, patios, and roofs.	Not Started	CD	N/A	N/A

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Sector	Strategy	Measure ID	Measure	Action ID	Action	Status	Responsible City Department(s)	Responsible Department Division	Partner(s)
Resilience, Green Economy, and Carbon Sequestration	MS-3: Green Infrastructure	MS-3.1	Increase the use of green infrastructure.	MS-3.1a	Identify funding opportunities to support and implement a green infrastructure program to improve stormwater management, support biodiversity such as with pollinator gardens, reduce air pollution exposure, and increase access to natural spaces.	Not Started	PWS	N/A	N/A
Resilience, Green Economy, and Carbon Sequestration	MS-3: Green Infrastructure	MS-3.1	Increase the use of green infrastructure.	MS-3.1b	Develop permitting guidelines and best practices for green and vegetative roofs.	Not Started	CD	N/A	N/A
Resilience, Green Economy, and Carbon Sequestration	MS-3: Green Infrastructure	MS-3.1	Increase the use of green infrastructure.	MS-3.1c	Fund and implement a green infrastructure program for the installation and maintenance of projects and existing civic resources such as the parks system and public spaces, to improve stormwater management, support biodiversity, reduce air pollution exposure, and increase access to natural spaces, including trees.	Not Started	PWS	N/A	N/A
Resilience, Green Economy, and Carbon Sequestration	MS-3: Green Infrastructure	MS-3.1	Increase the use of green infrastructure.	MS-3.1d	Support the use of green roofs to reduce runoff flow rates and volume, absorb and filter pollutants, supply green habitat and nesting areas, and help lower the urban heat island effect.	Not Started	CD	N/A	N/A
Resilience, Green Economy, and Carbon Sequestration	MS-4: Green Business and Jobs	MS-4.1	Incentivize and promote eco-friendly operations, habits, and business practices through programs such as the Green Business Program.	MS-4.1a	Expand certification and recognition of green businesses in Irvine and continue sharing of resources and State rebates.	Complete	CMO	N/A	N/A

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Resilience, Green Economy, and Carbon Sequestration	MS-4: Green Business and Jobs	MS-4.1	Incentivize and promote eco-friendly operations, habits, and business practices through programs such as the Green Business Program.	MS-4.1b	Support the development and deployment of carbon capture and storage technologies in industrial uses throughout the city.	Not Started	CD	N/A	N/A
Resilience, Green Economy, and Carbon Sequestration	MS-4: Green Business and Jobs	MS-4.1	Incentivize and promote eco-friendly operations, habits, and business practices through programs such as the Green Business Program.	MS-4.1c	Partner with local educational institutions and private sector partners to coordinate the planning and development of a technology park to serve as a focal point for clean technologies such as mobility innovation, renewable energy development, and carbon management.	Not Started	CMO	N/A	N/A
Resilience, Green Economy, and Carbon Sequestration	MS-4: Green Business and Jobs	MS-4.2	Support the creation of green jobs and businesses in the City.	MS-4.2a	Support local educational institutions in providing and expanding sustainability entrepreneurship training to include emerging clean technologies.	Not Started	CMO	N/A	N/A
Resilience, Green Economy, and Carbon Sequestration	MS-4: Green Business and Jobs	MS-4.2	Support the creation of green jobs and businesses in the City.	MS-4.2b	Attract green industries through tax incentives, low-cost loan and grant programs, and regulatory guidance.	Not Started	CMO	N/A	N/A
Resilience, Green Economy, and Carbon Sequestration	MS-4: Green Business and Jobs	MS-4.2	Support the creation of green jobs and businesses in the City.	MS-4.2c	Continue implementation of The Innovation Council's Strategic & Action plan for attracting, retaining, and supporting high-growth technology businesses to help position Irvine as a regional hub of innovation and technology.	In Progress	CMO	N/A	N/A

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Sector	Strategy	Measure ID	Measure	Action ID	Action	Status	Responsible City Department(s)	Responsible Department Division	Partner(s)
Resilience, Green Economy, and Carbon Sequestration	MS-4: Green Business and Jobs	MS-4.2	Support the creation of green jobs and businesses in the City.	MS-4.2d	Work with local partners to create an in-person and on-demand energy workforce training program.	Not Started	CMO, PWS	N/A	N/A
Resilience, Green Economy, and Carbon Sequestration	MS-4: Green Business and Jobs	MS-4.2	Support the creation of green jobs and businesses in the City.	MS-4.2e	Partner with SoCalREN and regional energy agencies to support contractor training and resident education on electric appliances and their installation and maintenance.	In Progress	CMO, PWS	N/A	SoCalREN
Resilience, Green Economy, and Carbon Sequestration	MS-5: Carbon Sequestration and Embodied Emissions	MS-5.1	Increase soil carbon content to mitigate greenhouse gases and increase climate resiliency.	MS-5.1a	Promote awareness of the State's Healthy Soils Initiative and tips for residents and businesses to increase soil carbon content.	Not Started	PWS	N/A	N/A
Resilience, Green Economy, and Carbon Sequestration	MS-5: Carbon Sequestration and Embodied Emissions	MS-5.1	Increase soil carbon content to mitigate greenhouse gases and increase climate resiliency.	MS-5.1b	Continue the City's existing use of a "soil health first" approach to landscaping on City property.	In Progress	PWS	N/A	N/A
Resilience, Green Economy, and Carbon Sequestration	MS-5: Carbon Sequestration and Embodied Emissions	MS-5.1	Increase soil carbon content to mitigate greenhouse gases and increase climate resilience.	MS-5.1c	Continue partnership with UCI climate grant application to develop a tool kit for residents and agencies with carbon sequestration, wildfire, and other nature-based solutions.	In Progress	PWS	Sustainability	UCI

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Sector	Strategy	Measure ID	Measure	Action ID	Action	Status	Responsible City Department(s)	Responsible Department Division	Partner(s)
Resilience, Green Economy, and Carbon Sequestration	MS-5: Carbon Sequestration and Embodied Emissions	MS-5.2	Use low- carbon and carbon-sequestering construction materials in new development.	MS-5.2a	Adopt a reach code with the 2026 code cycle that requires new residential and nonresidential construction to use low-carbon concrete, steel, and other key impact materials, in coordination with the framework for measuring and reducing the average carbon intensity of materials used in construction of new buildings to be prepared by the California Air Resources Board pursuant to AB 2446 (2022).	Not Started	CD	Sustainability, CD	N/A

Irvine CAAP Adaptation Strategies and Actions				Implementation Details			
Focus Area	Strategy	Action ID	Action	Status	Responsible City Department(s)	Responsible Department Division	Partner(s)
Citywide	CW-1: Prioritize Climate Change Planning	CW-1a	Continue to update the climate vulnerability assessment and Local Hazard Mitigation Plan as required to comprehensively plan for current and future natural and human-caused hazards within the City.	In progress	Public Safety	Office of Emergency Management	N/A
Citywide	CW-1: Prioritize Climate Change Planning	CW-1b	Integrate climate science and projected climate-related impacts in all City planning documents, policies, programs, and ordinances as they are reviewed or updated.	Not started	Public Works and Sustainability	Sustainability	N/A
Citywide	CW-2: Collaborate with Local, Regional, State, and Federal Partners to Support Social and Economic Resilience	CW-2a	Establish relationships with FEMA and CDC in preparation for extreme weather events or natural disasters.	In progress	Public Safety	Office of Emergency Management	FEMA, CDC
Citywide	CW-2: Collaborate with Local, Regional, State, and Federal Partners to Support Social and Economic Resilience	CW-2b	Coordinate with surrounding municipalities and Orange County to enhance evacuation and emergency management protocols, agreements, and processes.	In progress	Public Safety	Office of Emergency Management	Orange County, Cities
Citywide	CW-2: Collaborate with Local, Regional, State, and Federal Partners to Support Social and Economic Resilience	CW-2c	Provide residents, businesses, and neighborhood organizations with evacuation procedures and shelter-in-place guidelines to grow community resilience.	In progress	Public Safety	Office of Emergency Management	N/A
Citywide	CW-2: Collaborate with Local, Regional, State, and Federal Partners to Support Social and Economic Resilience	CW-2d	Coordinate with regional healthcare facilities to ensure effective care for all City residents and regional travelers during an emergency.	In progress	Public Safety	Office of Emergency Management	Healthcare Facilities
Citywide	CW-3: Strengthen Community Resilience through Collaboration and Education	CW-3a	Collaborate with local community organizations to develop a climate change education outreach program that identifies gaps in community resilience planning and engages vulnerable community members.	In progress	Public Works and Sustainability	Sustainability	CBOs
Citywide	CW-3: Strengthen Community Resilience through Collaboration and Education	CW-3b	Expand participation in the Irvine Community Emergency Response Team (CERT) program for residents and businesses.	In progress	Public Safety	Office of Emergency Management	N/A

Irvine CAAP Adaptation Strategies and Actions				Implementation Details			
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Citywide	CW-3: Strengthen Community Resilience through Collaboration and Education	CW-3c	Evaluate and enhance existing preparedness and evacuation programs (e.g., Prepare Irvine, AlertOC) to better educate, inform, and engage the public about emergency preparedness in the case of a disaster.	In progress	Public Safety	Office of Emergency Management	N/A
Citywide	CW-3: Strengthen Community Resilience through Collaboration and Education	CW-3d	Identify gaps in current communication pathways with vulnerable community members during planned (e.g., Public Safety Power Shutoff events) or unplanned power outages.	In progress	Public Safety	Office of Emergency Management	N/A
Citywide	CW-4: Collaborate with Local Businesses on Economic and Community Resilience	CW-4a	Collaborate with local businesses and organizations to conduct regular workplace emergency preparedness drills.	In progress	Public Safety	Office of Emergency Management	Local Businesses, CBOs
Citywide	CW-4: Collaborate with Local Businesses on Economic and Community Resilience	CW-4b	Develop agreements with hotels to designate them as Red Cross facilities in case of an emergency.	In progress	Public Safety	Office of Emergency Management	Hotels
Citywide	CW-5: Collaborate with School Districts to Develop Emergency Preparedness Programs	CW-5a	Continue agreements with local school districts to ensure that school facilities can function as evacuation sites during major emergencies.	In progress	Public Safety	Office of Emergency Management	Schools
Citywide	CW-5: Collaborate with School Districts to Develop Emergency Preparedness Programs	CW-5b	Identify opportunities to use school facilities as evacuation centers, cooling centers, and charging stations, during extreme heat or weather events.	In progress	Public Safety	Office of Emergency Management	Schools
Citywide	CW-6: Coordinate with Regional and Local Transportation and Transit Agencies to Ensure Coordinated Access and Movement in the Event of an Emergency	CW-6a	Coordinate with regional and state transportation agencies to assess the vulnerability of transportation infrastructure to hazardous climate-related events.	In progress	Public Safety	Office of Emergency Management	Caltrans

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Citywide	CW-7: Coordinate with Regional Utilities to Assess the Vulnerability of Critical Infrastructure to Hazardous Climate-Related Events	CW-7a	Coordinate with regional utilities to assess the vulnerability of critical infrastructure to hazardous climate-related events.	In progress	Public Safety	Office of Emergency Management	N/A
Extreme Heat	EH-1: Prepare the Community for Extreme Heat Events	EH-1a	Work with regional and local health agencies to evaluate extreme heat warning thresholds and protocols and incorporate enhanced extreme heat preparedness into local operations.	In progress	Public Safety	Office of Emergency Management	N/A
Extreme Heat	EH-1: Prepare the Community for Extreme Heat Events	EH-1b	Establish a City-wide Heat Alert Program (HAP) when weather forecasts predict heat waves or extreme heat days.	In progress	Public Safety	Office of Emergency Management	N/A
Extreme Heat	EH-1: Prepare the Community for Extreme Heat Events	EH-1c	Educate vulnerable community members (e.g., aging, elderly, ill) and their caregivers to detect signs and symptoms of, and to prevent heat-related illness. Emphasize the importance of immediate medical assistance for heat-related illnesses.	In progress	Public Safety	Office of Emergency Management	N/A
Extreme Heat	EH-2: Develop Facilities and Resources to Reduce the Effects of Extreme Heat Events	EH-2a	Expand the number of publicly operated cooling centers based on the needs of vulnerable populations.	In progress	Public Safety	Office of Emergency Management	N/A
Extreme Heat	EH-2: Develop Facilities and Resources to Reduce the Effects of Extreme Heat Events	EH-2b	Collaborate with local businesses and institutions to provide a "Cool Zone" area network (i.e., cooling centers).	In progress	Public Safety	Office of Emergency Management	Local Businesses, Schools
Extreme Heat	EH-2: Develop Facilities and Resources to Reduce the Effects of Extreme Heat Events	EH-2c	Develop a tree and shade master plan with a particular focus on climate-resilient tree species.	In progress	Public Works and Sustainability	Landscape Maintenance	N/A

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Drought	D-1: Collaborate with Agency Partners to Prepare for Future Drought Conditions	D-1a	Continue to support and participate in the development of a regional and local drought contingency plan.	In progress	Public Safety	Office of Emergency Management	N/A
Drought	D-1: Collaborate with Agency Partners to Prepare for Future Drought Conditions	D-1b	Collaborate with federal, State, and local agencies and organizations to explore alternative sources (e.g., desalination) and improve capacity.	N/A	N/A	N/A	N/A
Drought	D-2: Develop and Implement Citywide Efforts to Reduce Water Usage	D-2a	Promote nature-based methods and best practices (e.g., bioswales, natural ground cover) through the City's stormwater program.	In progress	Community Development	Water Quality	N/A
Drought	D-2: Develop and Implement Citywide Efforts to Reduce Water Usage	D-2b	Update "Division 7 - Sustainability in Landscaping" of the Irvine Municipal Code of Ordinances and the Master Streetscape & Landscape Design Manual to reflect the latest advances in best practices in landscape design that reduce water use within the City.	In progress	Public Works and Sustainability	Landscape Maintenance	N/A
Drought	D-3: Promote Community Water Conservation Measures	D-3a	Support regional partners in education and outreach efforts focused on water conservation measures (e.g., water reuse, water use, and irrigation efficiency) for City residents.	In progress	Public Works and Sustainability	Sustainability	N/A
Drought	D-3: Promote Community Water Conservation Measures	D-3b	Encourage drought tolerant/low-water use native landscaping, and low-flow water fixtures, and apply daytime watering restrictions on properties throughout the City to reduce water consumption.	Not started	Public Works and Sustainability	Landscape Maintenance	N/A
Wildfire	WF-1: Collaborate with Regional Partners to Reduce Impacts of Wildfire	WF-1a	Routinely participate in the update of the Orange County Community Wildfire Preparedness Plan for areas within the Very High, High, and Moderate Fire Hazard Severity Zones.	In progress	Public Safety	Office of Emergency Management	N/A

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Wildfire	WF-1: Collaborate with Regional Partners to Reduce Impacts of Wildfire	WF-1b	Continue to promote and implement the Orange County Vegetation Management program to reduce wildfire risk.	In progress	Public Works and Sustainability	Landscape Maintenance	N/A
Wildfire	WF-1: Collaborate with Regional Partners to Reduce Impacts of Wildfire	WF-1c	Coordinate with regional partners to explore and deploy fire detection cameras as part of a wildfire monitoring network.	In progress	Public Safety	Office of Emergency Management	N/A
Wildfire	WF-2: Implement Actions to Reduce Flammable Materials in Wildfire Zones	WF-2a	Remove highly flammable vegetation in Very High, High, and Moderate Fire Hazard Severity Zones and replant with fire-adapted specimens.	In progress	Public Works and Sustainability	Open Space and Parks	N/A
Wildfire	WF-2: Implement Actions to Reduce Flammable Materials in Wildfire Zones	WF-2b	Replant bare or disturbed hillside areas after wildfires to reduce erosion that may lead to landslides.	In progress	Public Works and Sustainability	Open Space and Parks	N/A
Wildfire	WF-3: Educate the Community about Wildfire for Improved Public Safety and Resilience	WF-3a	Work with Orange County Fire Authority on home preparedness assessments to assist more residents in understanding and addressing their wildfire risk.	In progress	Public Safety	Office of Emergency Management	OCFA
Wildfire	WF-3: Educate the Community about Wildfire for Improved Public Safety and Resilience	WF-3b	Expand the fire hazard prevention awareness campaign to residents in the High and Very High Fire Hazard Severity Zones.	In progress	Public Safety	Office of Emergency Management	N/A
Wildfire	WF-3: Educate the Community about Wildfire for Improved Public Safety and Resilience	WF-3c	Support regional partners (e.g., Orange County Fire Authority's Ready, Set, Go Program) in their efforts to educate residents about defensible space, vegetation management, and home hardening efforts.	In progress	Public Safety	Office of Emergency Management	OCFA
Flooding	F-1: Coordinate with Relevant Agencies to Better Plan and Prepare Emergency Services Required for Flooding Events	F-1a	Monitor stormwater management infrastructure and identify changes in flooding patterns and locations related to changing climatic conditions.	In progress	Public Safety	Office of Emergency Management	N/A

Irvine CAAP Adaptation Strategies and Actions				Implementation Details			
Focus Area	Strategy	Action ID	Action	Status	Responsible City Department(s)	Responsible Department Division	Partner(s)
Flooding	F-2: Develop or Update Long-Term Public Works Plans for Critical Facilities to Address Current and Future Flood Risks	F-2a	Require that future transportation infrastructure projects consider current and future flood risk and align the projected lifespan of the project with the best available science.	In progress	Public Works and Sustainability	Engineering	N/A
Flooding	F-2: Develop or Update Long-Term Public Works Plans for Critical Facilities to Address Current and Future Flood Risks	F-2b	Explore and implement Low Impact Development standards for new development to reduce the amount of stormwater runoff.	In progress	Community Development	Water Quality	N/A
Flooding	F-3: Educate the Community about Flooding for Improved Public Safety and Resilience	F-3a	Implement a public outreach program to increase public awareness of flooding, stormwater management, and drought management issues and techniques for residents to mitigate those challenges on their property.	In progress	Community Development	Water Quality	N/A
Flooding	F-3: Educate the Community about Flooding for Improved Public Safety and Resilience	F-3b	Partner with Orange County Public Works to proactively disseminate information from the "H2OC Stormwater Program" to educate home and small business owners on regulations and highlight the role that engaged residents can play in assisting with community-based stormwater management.	In progress	Community Development	Water Quality	Orange County
Flooding	F-4: Ensure Resilience and Long-Term Functionality of Stormwater and Sewer Systems	F-4a	Update the City's Master Plan of Drainage regularly to incorporate new data and/or address emerging issues.	In progress	Public Works and Sustainability	Engineering	N/A
Flooding	F-4: Ensure Resilience and Long-Term Functionality of Stormwater and Sewer Systems	F-4b	Conduct comprehensive visual and functional test monitoring and asset condition assessments. Model potential impacts on utility infrastructure under future flooding scenarios.	Not started	Public Works and Sustainability	Operations	N/A
Flooding	F-4: Ensure Resilience and Long-Term Functionality of Stormwater and Sewer Systems	F-4c	Conduct frequent cleanings of storm drain intakes, especially before and during the rainy season.	In progress	Public Works and Sustainability	Landscape Maintenance	N/A

Irvine CAAP Adaptation Strategies and Actions				Implementation Details			
Focus Area	Strategy	Action ID	Action	Status	Responsible City Department(s)	Responsible Department Division	Partner(s)
Liquefaction/ Landslide	L-1: Coordinate with Local and Regional Partners to Prepare and Respond to Liquefaction and Landslide Events	L-1a	Coordinate with Irvine Ranch Water District on subsidence monitoring in areas of active groundwater extraction and work with water utilities to develop strategies based on the amount and severity of subsidence occurring.	Not started	Public Safety	Office of Emergency Management	IRWD
Liquefaction/ Landslide	L-1: Coordinate with Local and Regional Partners to Prepare and Respond to Liquefaction and Landslide Events	L-1b	Coordinate with Irvine Ranch Water District and Orange County Water District on emergency water storage and distribution following a liquefaction or landslide event.	Not started	Public Safety	Office of Emergency Management	IRWD, Orange County
Liquefaction/ Landslide	L-1: Coordinate with Local and Regional Partners to Prepare and Respond to Liquefaction and Landslide Events	L-1c	Coordinate with Caltrans and Orange County Transit Authority for inspection and maintenance of primary evacuation routes.	Not started	Public Safety	Office of Emergency Management	Caltrans, OCTA
Liquefaction/ Landslide	L-2: Educate the Community about Liquefaction or Landslide Events for Improved Public Safety and Resilience	L-2a	Provide information to community groups and businesses about how to prepare for and recover from a liquefaction or landslide event.	In progress	Public Safety	Office of Emergency Management	N/A
Liquefaction/ Landslide	L-2: Educate the Community about Liquefaction or Landslide Events for Improved Public Safety and Resilience	L-2b	Promote retrofits of key community facilities not owned by the City.	In progress	Community Development	Building and Safety	N/A
Liquefaction/ Landslide	L-3: Design Facilities to be Resilient to a Liquefaction or Landslide Event	L-3a	To the extent feasible, construct all new and significantly retrofitted City-owned facilities to remain operational in the event of a major liquefaction or landslide event.	In progress	Public Works and Sustainability	Landscape Maintenance	N/A
Liquefaction/ Landslide	L-3: Design Facilities to be Resilient to a Liquefaction or Landslide Event	L-3b	In coordination with Caltrans, update facilities condition assessments for bridges along evacuation routes to identify bridges that need seismic retrofitting.	In progress	Public Works and Sustainability	Engineering	Caltrans