

# APPENDIX E

## Implementation Details

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**Table E-1** provides implementation details for the measures and actions discussed in Chapter 3. The “Performance Objectives” included in the table embody the specific objectives of the *2045 Los Angeles County Climate Action Plan (2045 CAP)* for each measure and action. These performance objectives represent guideposts for the successful implementation of each measure and the 2045 CAP as a whole. However, they are not specific mandates. As the 2045 CAP is implemented and adapted over time, many of these performance objectives may change. Greenhouse gas emissions reductions for 18 of the identified measures were quantified at the measure level based on these performance objectives, and monitoring will also occur at the measure level. Performance objectives included for implementing actions identify intermediary steps that may be taken to meet the performance objective of the corresponding overarching measure. Tracking metrics are intended to identify potential data that may be used to analyze GHG emission reductions and may be revised administratively. The table also identifies funding for all quantified measures. Additional future funding sources will need to be identified for non-quantified measures.

**Table E-1: Greenhouse Gas Strategy, Measure, and Action Implementation Details**

| ID   | STRATEGY/MEASURE/ACTION  | LEAD     | PARTNERS  | PERFORMANCE OBJECTIVES  | TRACKING METRICS   | TIME FRAME              | COST        | FUNDING   |
|--|--|----------|---|---|--|-------------------------|-------------|---|
| <b>Strategy 1: Decarbonize the Energy Supply</b> |  |          |   |   |  |                         |             |   |
| <b>ES1<sup>a</sup></b>                           | <b>Develop a Sunset Strategy for All Oil and Gas Operations:</b><br>Develop a sunset strategy for all oil and gas operations that prioritizes disproportionately affected communities and develop a strategy for carbon removal.   |          |   | Reduce oil and gas operations:<br><ul style="list-style-type: none"> <li>40% by 2030</li> <li>60% by 2035</li> <li>80% by 2045</li> </ul> Examine all active and abandoned oil wells for fugitive emissions of GHGs.<br>Conduct carbon removal feasibility study.                                   |  |                         |             |   |
| ES1.1  | Collaborate with other local jurisdictions and utilities to develop a sunset strategy for all oil and gas operations that prioritizes disproportionately affected communities. Develop an ordinance.   | CSO, DRP | PW, ISD, cities, California Geologic Energy Management Division; DPH      |   | <ul style="list-style-type: none"> <li>Number of well sites decommissioned and remediated</li> <li>Emissions reductions achieved through well decommissioning</li> </ul>   | Short term (2024–2030)  | \$–\$\$     | County General Fund   |
| ES1.2  | Develop a policy that requires the examination of all active, idle, and abandoned oil wells for fugitive emissions of GHGs. Coordinate with federal and state agencies conducting fugitive emissions data.   | CSO      | DRP, PW, ISD, cities, California Geologic Energy Management Division; DPH |   | <ul style="list-style-type: none"> <li>Number of oil wells examined</li> <li>Amount of GHGs emitted (estimated or measured)</li> </ul>   | Short term (2024–2030)  | \$–\$\$     | County General Fund   |
| ES1.3  | Develop a carbon removal strategy that considers direct air capture and carbon capture and sequestration (CCS).  | CSO      | PW, DRP, ISD, CARB CCS Program  |   | <ul style="list-style-type: none"> <li>Number of CCS systems constructed</li> <li>GHG emissions removed annually</li> </ul>  | Medium term (2030–2035) | \$–\$\$\$\$ | Federal CIFIA Program, Infrastructure Investment and Jobs Act of 2021, SB 905, SB 1137, AB 1757, and SB 27  |
| <b>ES2<sup>a</sup> (Core)</b>                    | <b>Procure Zero-Carbon Electricity:</b> Supplying unincorporated Los Angeles County’s power demand with zero-carbon electricity is critical to achieving significant GHG emissions reductions. The Clean Power Alliance (CPA) is a nonprofit and community choice energy provider that currently serves 32 communities across Southern California. |          |   | Participate in CPA’s Green Power option, SCE’s Green Rate option, or other available 100% zero carbon electricity service:<br><ul style="list-style-type: none"> <li>100% municipal participation by 2025.</li> <li>96% community participation by 2030 (approximately 4% opt-out rate).</li> </ul> |  |                         |             |   |
| ES2.1  | Transition all County facilities within unincorporated areas to CPA’s 100% Green Power option, SCE’s 100% Green Rate option, or other available 100% renewable electricity service. <sup>m</sup>   | CSO, ISD | CPA, SCE, LA100   |   | <ul style="list-style-type: none"> <li>CPA 100% Green Power enrollment for County accounts</li> <li>SCE’s 100% Green Rate enrollment for County accounts</li> <li>Enrollment in other available 100% renewable electricity service</li> <li>Electricity supplied by CPA</li> </ul> | Short term (2024–2030)  | \$          | Funded; Federal Inflation Reduction Act CARB Greenhouse Gas Reduction Fund, CARB California Climate Investments program, CPUC California Solar Initiative, CPUC Self-Generation Incentive Program, Low-Income Solar and Wind Investment Tax Credit, DOE Renewable Energy and Efficiency Energy grants |

| ID               | STRATEGY/MEASURE/ACTION   | LEAD | PARTNERS        | PERFORMANCE OBJECTIVES   | TRACKING METRICS  | TIME FRAME   | COST | FUNDING   |
|------------------|---|------|-----------------|--|---|--|------|---|
| ES2.2            | Complete enrollment of the community in CPA's 100% Green Power or SCE's Green Rate option.  | CSO  | CPA, SCE, LA100 |  | <ul style="list-style-type: none"> <li>CPA 100% Green Power participation and/or opt-out rate</li> <li>Electricity supplied by CPA (MWh)</li> <li>SCE 100% Green Rate participation and/or opt-out rate</li> <li>Electricity supplied by SCE (MWh)</li> </ul> | Short term (2024–2030)                             | \$\$ | CPA Powershare Program, Federal Inflation Reduction Act CARB Greenhouse Gas Reduction Fund, CARB California Climate Investments program, CPUC California Solar Initiative, CPUC Self-Generation Incentive Program, Low-Income Solar and Wind Investment Tax Credit, DOE Renewable Energy and Efficiency Energy grants   |
| ES3 <sup>a</sup> | <b>Increase Renewable Energy Production:</b> Expand local solar power generation on existing and new development and for County projects. |      |                 | <p>Install rooftop solar PV on all existing single-family residential homes and multifamily residential buildings:</p> <ul style="list-style-type: none"> <li>20% by 2030</li> <li>25% by 2035</li> <li>35% by 2045</li> </ul> <p>Install rooftop solar PV on all existing commercial buildings:</p> <ul style="list-style-type: none"> <li>15% by 2030</li> <li>22% by 2035</li> <li>32% by 2045</li> </ul> <p>Install rooftop solar PV on all new multifamily residential buildings:</p> <ul style="list-style-type: none"> <li>80% by 2030</li> <li>85% by 2035</li> <li>95% by 2045</li> </ul> <p>Install rooftop solar PV on all new commercial buildings:</p> <ul style="list-style-type: none"> <li>40% by 2030</li> <li>50% by 2035</li> <li>70% by 2045</li> </ul> <p>Install 20,000 kW of solar PV at County facilities by 2030.</p> <p>Install rooftop solar PV at all affordable housing developments.</p> |   |  |      |   |
| ES3.1            | Require rooftop solar PV for all new development.   | PW   | DRP, CSO        |  | <ul style="list-style-type: none"> <li>Number of rooftop solar PV installations for all new development</li> <li>Total kW solar capacity installed in community</li> </ul>  | Short term; implement ordinance immediately (2024) | \$   | Federal Solar Investment Tax Credit, CPUC Self-Generation Incentive Program, California Solar Energy System Property Tax Exclusion, CPUC Single-Family Affordable Solar Homes (SASH) Program, SCE Programs, Renewable Energy Production Tax Credit, Clean Electricity Investment Tax Credit, Low-Income Solar and Wind Investment Tax Credit, Greenhouse Gas Reduction Fund, Clean Energy Load Guarantees |

| ID    | STRATEGY/MEASURE/ACTION   | LEAD            | PARTNERS          | PERFORMANCE OBJECTIVES | TRACKING METRICS  | TIME FRAME   | COST      | FUNDING   |
|-------|---|-----------------|-------------------|------------------------|---|--|-----------|---|
| ES3.2 | Install rooftop solar PV at existing buildings.   | PW              | DRP, CSO          |                        | <ul style="list-style-type: none"> <li>Number of rooftop solar PV installations for existing multifamily residential buildings and existing commercial buildings</li> <li>Total kW solar capacity installed in community</li> </ul> | Short term (2024–2030)                             | \$–\$\$\$ | Federal Solar Investment Tax Credit, CPUC Self-Generation Incentive Program, California Solar Energy System Property Tax Exclusion, CPUC Single-Family Affordable Solar Homes (SASH) Program, SCE Programs, Renewable Energy Production Tax Credit, Clean Electricity Investment Tax Credit, Low-Income Solar and Wind Investment Tax Credit, Greenhouse Gas Reduction Fund, Clean Energy Load Guarantees |
| ES3.3 | Identify and install solar PV systems at existing viable County facilities and properties. <sup>M</sup>                           | ISD             | PW, CSO, SCE, CPA |                        | <ul style="list-style-type: none"> <li>Total MW solar capacity installed at County facilities</li> </ul>  | Short term (2024–2030)                             | \$\$\$    | Federal Solar Investment Tax Credit, CPUC Self-Generation Incentive Program, California Solar Energy System Property Tax Exclusion, SCE Programs, Renewable Energy Production Tax Credit, Clean Electricity Investment Tax Credit, Low-Income Solar and Wind Investment Tax Credit, Greenhouse Gas Reduction Fund, Clean Energy Load Guarantees   |
| ES3.4 | Explore the feasibility to install community-shared solar facilities on County properties where opportunities exist. <sup>M</sup> | ISD             | PW, CSO, SCE, CPA |                        | <ul style="list-style-type: none"> <li>Total community-shared MW solar capacity installed</li> </ul>  | Medium term (2030–2035)                            | \$\$\$    | Federal Solar Investment Tax Credit, CPUC Self-Generation Incentive Program, California Solar Energy System Property Tax Exclusion, SCE Programs, Renewable Energy Production Tax Credit, Clean Electricity Investment Tax Credit, Low-Income Solar and Wind Investment Tax Credit, Greenhouse Gas Reduction Fund, Clean Energy Load Guarantees   |
| ES3.5 | Require and incentivize renewable energy for affordable housing developments for both new development and existing buildings.     | DRP, CSO, LACDA | PW, SCE, CPA      |                        | <ul style="list-style-type: none"> <li>Number of rooftop solar PV installations</li> <li>Total MW solar capacity installed</li> </ul>   | Short term; implement ordinance immediately (2024) | \$        | Federal Solar Investment Tax Credit, CPUC Self-Generation Incentive Program, California Solar Energy System Property Tax Exclusion, CPUC Single-Family Affordable Solar Homes (SASH) Program, SCE Programs, Renewable Energy Production Tax Credit, Clean Electricity Investment Tax Credit, Low-Income Solar and Wind Investment Tax Credit, Greenhouse Gas Reduction Fund, Clean Energy Load Guarantees |

| ID         | STRATEGY/MEASURE/ACTION  | LEAD     | PARTNERS          | PERFORMANCE OBJECTIVES  | TRACKING METRICS   | TIME FRAME                       | COST    | FUNDING   |
|------------|--|----------|-------------------|---|--|----------------------------------|---------|---|
| ES3.6      | Streamline and prioritize permitting for solar and battery storage projects.   | DRP      | CSO, PW           |   | <ul style="list-style-type: none"> <li>Number of solar PV installations</li> <li>Total MW solar capacity installed</li> <li>Number of battery storage installations</li> <li>Total MW battery capacity installed</li> </ul>                        | Short term (2024–2030)           | \$      | Federal Solar Investment Tax Credit, CPUC Self-Generation Incentive Program, California Solar Energy System Property Tax Exclusion, CPUC Single-Family Affordable Solar Homes (SASH) Program, SCE Programs, Renewable Energy Production Tax Credit, Clean Electricity Investment Tax Credit, Low-Income Solar and Wind Investment Tax Credit, Greenhouse Gas Reduction Fund, Clean Energy Load Guarantees |
| <b>ES4</b> | <b>Increase Energy Resilience:</b> Expand energy storage and microgrids throughout the community and for County operations.  |          |                   | <ul style="list-style-type: none"> <li>Achieve community electricity storage capacity equal to the community-wide 24-hour average usage by 2035/2045.</li> <li>Achieve community electricity generation capacity equal to the communitywide 24-hour average usage by 2035/2045.</li> <li>Establish a community resilience hub program to equip community-serving County facilities (e.g., libraries, rec centers, senior centers).</li> <li>Provide solar and battery systems sufficient to support emergency cooling and other emergency functions. Partner with the local community for implementation.</li> <li>Locate at least one hub in each County district, with a focus on vulnerable populations.</li> <li>Install microgrids based on a feasibility study.</li> <li>Obtain a grant and establish a program to support an energy efficiency and assurance program for facilities that are large energy users and support critical community functions.</li> </ul> |  |                                  |         |   |
| ES4.1      | Develop a program to deploy community resilience hubs at scale.  | ISD, DRP | PW, CSO           |   | <ul style="list-style-type: none"> <li>Amount of generation/storage capacity per hub</li> <li>Number of community resilience hubs</li> <li>Number of people who can be supported at each hub during emergencies (daytime and nighttime)</li> </ul> | Short to medium term (2024–2035) | \$–\$\$ | Leverage bulk purchasing for portfolio-scale implementation   |
| ES4.2      | Invest in energy storage and microgrids at critical County facilities through CPA's Power Ready Program. <sup>M</sup>  | ISD      | PW, CSO           |   | <ul style="list-style-type: none"> <li>kW of energy storage capacity installed at County facilities</li> <li>Number and capacity of microgrids established</li> </ul>  | Short to medium term (2024–2035) | \$\$\$  | Power purchase agreement  |
| ES4.3      | Develop a publicly accessible community energy map that identifies opportunities for deploying distributed energy resources and microgrids to improve energy resiliency. | CSO      | ISD, PW, SCE, CPA |   |  | Medium to long term (2035–2045)  | \$\$    | SCE, CEC, CPUC  |

| ID         | STRATEGY/MEASURE/ACTION  | LEAD     | PARTNERS                         | PERFORMANCE OBJECTIVES  | TRACKING METRICS  | TIME FRAME                       | COST    | FUNDING  |
|------------|--|----------|----------------------------------|---|---|----------------------------------|---------|--|
| ES4.4      | Conduct feasibility studies to identify priority areas for solar and storage, combined with building- and community-scale microgrids and alternative technologies such as fuel cells and grid paralleling, to support demand management, peak shaving, and load shifting to increase grid resilience. Study implementation, costs, barriers, and obstacles and identify partnerships. Adopt regulations that establish this use and standards for its development. Limiting peak energy demand can eliminate or reduce the use of high-carbon peaker plants.   | ISD      | CSO, PW, DRP, SCE, CPA           |   | <ul style="list-style-type: none"> <li>Number of microgrids installed</li> </ul>  | Short to medium term (2024–2035) | \$      | Leverage bulk purchasing for portfolio-scale implementation; power purchase agreements |
| ES4.5      | Develop a Countywide program to promote energy efficiency and resilience measures in facilities providing critical community services.   | ISD      | CSO, PW, DRP, SCE, CPA, SoCalRen |   | <ul style="list-style-type: none"> <li>Number of efficiency projects implemented</li> <li>Number of energy resilience projects implemented</li> </ul> | Short to medium term (2024–2035) | \$\$    | State or federal grant (CEC, DOE)  |
| <b>ES5</b> | <b>Establish GHG Requirements for New Development:</b> Develop and implement requirements to ensure that new development is consistent with the 2045 CAP goals as well as its milestone targets for 2030, 2035, and 2045. These requirements include applicant completion of a project review consistency checklist for non-CEQA-exempt new development requiring discretionary approvals to demonstrate consistency with the 2045 CAP. To demonstrate consistency with the 2045 CAP, all projects that do not screen out of the 2045 CAP consistency review process must implement either (1) all feasible applicable checklist measures or (2) for infeasible checklist measures, alternative project emission reduction measures. The project review checklist will be used in one of two ways: (1) For projects consistent with the 2045 CAP, to demonstrate CAP consistency that allows for streamlined project-specific CEQA GHG analysis; or (2) for projects required or electing to prepare project-specific CEQA GHG analyses, to demonstrate that all feasible applicable checklist measures or alternative project emissions reduction measures have nevertheless been implemented, either as project features or as GHG mitigation measures. Projects that do not implement all feasible applicable checklist measures or alternative project emissions reduction measures may have significant GHG impacts because they could conflict with an applicable GHG reduction plan per CEQA Guidelines Appendix G Section VII. They may also be inconsistent with the General Plan because the CAP is a component of the Air Quality Element. In addition, the County will assess the feasibility of developing a GHG offsets/credit program to create a pathway toward achieving the aspirational 2045 goal of carbon neutrality. |          |                                  | <ul style="list-style-type: none"> <li>Require all new development that does not require a General Plan amendment shall be consistent with the 2045 CAP.</li> <li>Develop reach codes, ordinances, and conditions of approval as needed.</li> </ul> |   |                                  |         |  |
| ES5.1      | Identify new requirements for new development, including reach codes, ordinances, and conditions of approval to reduce GHG emissions from energy use, transportation, waste, water, and other sources. Include affordable housing considerations in these requirements, and develop supporting measures (financial support, technical assistance, or other incentives) to defray potential additional first costs in order to maintain housing affordability.  | DRP, CSO | PW, ISD                          |   | <ul style="list-style-type: none"> <li>Number and type of projects performing consistency review</li> </ul>   | Short term (2024–2030)           | \$\$-\$ | County General Fund  |
| ES5.2      | Implement the 2045 CAP consistency review checklist for new development to demonstrate consistency with the 2045 CAP's strategies, measures, and actions.  | DRP      | PW                               |   | <ul style="list-style-type: none"> <li>Number and type of projects performing consistency review</li> </ul>   | Short term (2024–2030)           | \$      | County General Fund  |
| ES5.3      | Evaluate a program for reducing GHG emissions for new development that require General Plan amendments.  | DRP      | CSO, ISD                         |   | <ul style="list-style-type: none"> <li>Number and type of projects performing consistency review</li> </ul>   | Short term (2024–2030)           | \$      | County General Fund  |

| ID  | STRATEGY/MEASURE/ACTION   | LEAD | PARTNERS  | PERFORMANCE OBJECTIVES  | TRACKING METRICS  | TIME FRAME                             | COST | FUNDING   |
|---|---|------|---|---|---|--|------|---|
| ES5.4   | Establish an Offsite GHG Reduction Program for new development to use as a GHG reduction or mitigation pathway for 2045 CAP compliance and to fund programs for reducing GHG emissions in the built environment.      | DRP  | PW  |   | <ul style="list-style-type: none"> <li>Dollars invested into Offsite GHG Reduction Program</li> <li>Number of off-site projects implemented</li> <li>Quantity of GHG emission reductions achieved</li> </ul>  | Short term (2024–2030)                 | \$   | Project developers  |
| <b>Strategy 2: Increase Densities and Diversity of Land Uses Near Transit</b> |   |      |   |   |   |  |      |   |
| <b>T1<sup>a</sup></b>   | <b>Increase Density Near High-Quality Transit Areas:</b> Increase housing opportunities that are affordable and near transit, to reduce VMT.  |      |   | <ul style="list-style-type: none"> <li>Implement and complete Housing Element Update rezoning programs to achieve the minimum densities.</li> <li>Achieve a minimum of 20 dwelling units (DU) per acre (maximum of 30–150 DU per acre) for HQTAs.</li> <li>Locate a majority of residential and employment centers in unincorporated Los Angeles County within 1 mile of an HQTA.</li> <li>Achieve a 27% increase in DUs within HQTAs.</li> </ul> |   |  |      |   |
| T1.1  | Incentivize residential and community-serving uses to be developed in high quality transit areas (HQTAs), while ensuring inclusion of vital public amenities, such as parks and active transportation infrastructure. | DRP  | SCAG, Metro                                     |   | <ul style="list-style-type: none"> <li>Number and percent of increase in DUs in HQTAs</li> </ul>  | Housing Element time frame (2021–2029) | \$   | County General Fund, Greenhouse Gas Reduction Fund, Neighborhood Access and Equity Grants |
| T1.2  | Develop land use tools that will increase the production of a diversity of housing types, such as missing middle housing.   | DRP  | Cities, Metro, and other transit agencies, SCAG |   | <ul style="list-style-type: none"> <li>Number and percent increase in DUs within HQTA</li> <li>Total acres of commercial or industrial zones in HQTAs that can support jobs</li> </ul>  | Short term (2024–2030)                 | \$\$ | County General Fund, Greenhouse Gas Reduction Fund, Neighborhood Access and Equity Grants |
| <b>T2<sup>a</sup></b>   | <b>Develop Land Use Plans Addressing Jobs-Housing Balance and Increase Mixed Use:</b> Increasing density and the mix of land uses can help reduce single-occupancy trips, the number of trips, and trip lengths.      |      |   | <ul style="list-style-type: none"> <li>By 2030, achieve a job density of 300 jobs per acre.</li> <li>For communities with an imbalance of jobs/housing (±20%), develop community plans to identify and quantify strategies for bringing that imbalance below 20%.</li> </ul>  |   |  |      |   |
| T2.1  | Develop community plans that will increase the percentage of residents who could live and work within the same community, and that could decrease VMT.  | DRP  | PW  |   | <ul style="list-style-type: none"> <li>Comparison between existing and future statistics for employment and housing density and totals within each area</li> <li>Number and % increase in DUs in HQTAs</li> <li>Total acres of commercial or industrial zones in HQTAs that can support jobs</li> </ul> | Housing Element time frame (2021–029)  | \$\$ | County General Fund, Greenhouse Gas Reduction Fund, Neighborhood Access and Equity Grants |



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|--|---|---------|---|---|---|-------------------------|----------|--|
| <b>Strategy 3: Reduce Single-Occupancy Vehicle Trips</b> |   |         |   |   |   |                         |          |  |
| <b>T3<sup>a</sup></b>                                    | <b>Expand Bicycle and Pedestrian Network to Serve Residential, Employment, and Recreational Trips:</b> Travel options that serve a variety of land uses and trip purposes can help shift some trips away from single-occupancy vehicles.  |         |   | <ul style="list-style-type: none"> <li>Increase bikeway miles 300% by 2035.</li> <li>Implement the County's Bicycle Master Plan.</li> <li>Complete updates to the County's Pedestrian Action Plan, Bicycle Master Plan, and Active Transportation Plans every five years.</li> </ul>  |   |                         |          |  |
| T3.1   | Create a more connected and safer bikeway network by expanding bikeway facilities and implementing protected and separated lanes.   | PW      | DRP, Metro, transit providers   |   | <ul style="list-style-type: none"> <li>Miles of bikeways by route type</li> </ul>   | Long term (2035–2045)   | \$\$\$\$ | Road reconstruction funds, Greenhouse Gas Reduction Fund, Neighborhood Access and Equity Grants                                |
| T3.2   | Implement and regularly update the County's Pedestrian Action Plan, Bicycle Master Plan, and Active Transportation Plans.   | DPH, PW | DRP, Metro, transit providers   |   | <ul style="list-style-type: none"> <li>Miles of bicycle sidewalk improved or added</li> </ul>   | Long term (2035–2045)   | \$\$\$\$ | County General Fund, Bikeway funds, Supervisor TIP funds, Greenhouse Gas Reduction Fund, Neighborhood Access and Equity Grants |
| T3.3   | Collaborate with Metro and other transit providers to enhance pedestrian and bicycle environments through energy efficient lighting and shading to promote active transportation. Build shade structures at major transit stops, such as those identified in Metro's Active Transportation Strategic Plan, prioritizing communities with high heat vulnerability. Develop and implement a Shaded Corridors Program. | DRP, PW | Metro, transit providers, Parks, DPH, DRP   |   | <ul style="list-style-type: none"> <li>Number and location of shade and lighting projects planned and completed</li> </ul>  | Medium term (2030–2035) | \$\$\$   | Partial funding secured; additional funds required, Greenhouse Gas Reduction Fund, Neighborhood Access and Equity Grants       |
| <b>T4<sup>a</sup></b>                                    | <b>Broaden Options for Transit, Active Transportation, and Alternative Modes of Transportation:</b> Transit service, micro mobility services (such as bike-share, scooter-share, and drone deliveries), and access to these transportation options can help reduce VMT.   |         |   | <ul style="list-style-type: none"> <li>By 2030, double transit service hours from 560,000 to 1.12 million.</li> <li>By 2030, install bus-only lanes and signal prioritization on all major transit thoroughfares.</li> <li>By 2030, ensure that 75% of unincorporated Los Angeles County residents live within one-half mile of shuttle or mobility service.</li> </ul> |   |                         |          |  |
| T4.1   | Expand and improve the frequency of service of unincorporated Los Angeles County shuttles and explore new mobility services, such as micro transit, autonomous delivery vehicles, micro mobility, and on-demand autonomous shuttles.  | PW      | ISD; transit providers including Metro, Foothill Transit, Long Beach Transit, and Montebello Bus Lines LA |   | <ul style="list-style-type: none"> <li>Size of area served</li> <li>Number of employees and residents served</li> <li>Service frequency and headways</li> </ul>   | Medium term (2030–2035) | \$\$\$\$ | New funds required, Greenhouse Gas Reduction Fund, Neighborhood Access and Equity Grants                                       |
| T4.2   | Collaborate with Metro and other transit providers to install bus-only lanes and/or signal prioritization along major thoroughfares, and work with transit agencies and neighboring jurisdictions to plan and install full bus rapid transit infrastructure along priority corridors, as appropriate.   | PW      | Metro, transit agencies, other cities   |   | <ul style="list-style-type: none"> <li>Increase in service frequencies</li> <li>Decrease in headways</li> <li>Increase in residents/employees served</li> <li>Number and percentage of bus-only lanes installed on transit routes</li> <li>Travel time reliability</li> </ul> | Long term (2035–2045)   | \$\$\$\$ | New funds required, Greenhouse Gas Reduction Fund, Neighborhood Access and Equity Grants                                       |
| T4.3   | Collaborate with Metro and other transit providers to develop a transportation technology strategy to proactively address how evolving tech-enabled mobility options can support public transit.  | PW      | Metro, transit agencies, CSO, DPH   |   |   | Medium term (2030–2035) | \$\$     | New funds required, Greenhouse Gas Reduction Fund, Neighborhood Access and Equity Grants                                       |

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|-------|---|----------|---|---|---|----------------------------------|--------|--|
| T4.4  | Collaborate with Metro and other transit providers to set aside maintenance funds to ensure that public transit facilities, including stations and stops, are safe and clean to enhance the transit experience and increase ridership.            | PW       | Metro, transit agencies, CSO, DRP, LASD |   | <ul style="list-style-type: none"> <li>Maintenance or increase in level of maintenance funds</li> </ul>   | Short term (2024–2030)           | \$\$   | New funds needed, Greenhouse Gas Reduction Fund, Neighborhood Access and Equity Grants   |
| T4.5  | Collaborate with Metro and other transit providers to develop and implement a transportation demand management (TDM) ordinance that requires future development projects to incorporate measures such as subsidized transit passes and car share. | PW       | Metro, transit agencies, CSO, DRP       |   | <ul style="list-style-type: none"> <li>Mode share, commute trips, and parking occupancy at the tenant and building level</li> <li>Number of employers participating in TDM program</li> </ul> | Short to medium term (2024–2035) | \$     | County General Fund, Greenhouse Gas Reduction Fund, Neighborhood Access and Equity Grants  |
| T4.6  | Offer free and/or discounted transit passes for students, youth, seniors, people with disabilities, and low-income populations.   | PW       | Metro, transit agencies, CSO, DRP       |   | <ul style="list-style-type: none"> <li>Number of free transit passes issued</li> <li>Number of discounted transit passes issued</li> </ul>  | Short term (2024–2030)           | \$\$   | Proposition A Local Return Transit fund, Greenhouse Gas Reduction Fund, Neighborhood Access and Equity Grants  |
| T4.7  | Expand and improve the County’s Telecommuting Policy, using data gathered through the alternative work program.   | ISD, DHR | CSO, DRP, PW, SCAG                      |   | <ul style="list-style-type: none"> <li>Number of employers participating in telecommuting policies</li> <li>Number of employees actively telecommuting</li> </ul>                             | Short term (2024–2030)           | \$     | County General Fund, Greenhouse Gas Reduction Fund, Neighborhood Access and Equity Grants  |
| T4.8  | Establish temporary and permanent car-free areas.   | DRP      | PW, cities                              |   | <ul style="list-style-type: none"> <li>Number and location of car-free areas in unincorporated Los Angeles County for each target year</li> </ul>   | Long term (2035–2045)            | \$     | County General Fund, Greenhouse Gas Reduction Fund, Neighborhood Access and Equity Grants  |
| T4.9  | Develop a VMT bank or exchange program.   | PW       | DRP, CSO                                |   | <ul style="list-style-type: none"> <li>Implementation of exchange program for use in project development</li> </ul>   | Short to medium term (2024–2035) | \$\$\$ | County General Fund, Greenhouse Gas Reduction Fund, Neighborhood Access and Equity Grants  |
| T4.10 | Collaborate with Metro and other transit providers to ensure that all new forms of public transportation (e.g., new bus lines, new light rail service) are low- or zero-emission.   | CSO      | Metro, transit agencies, DRP, PW        |   | <ul style="list-style-type: none"> <li>Number of ZEV buses</li> <li>Number of ZEV shuttles</li> <li>Total ZEV percentage of bus and shuttle fleet</li> </ul>                                  | Short to medium term (2024–2035) | \$\$\$ | Caltrans grant, CARB Bus Replacement Grant, CARB Hybrid and Zero Emission Truck and Bus Voucher Incentive Project, Federal Zero-Emission Transit Bus Tax Exemption, CARB California Clean Mobility Options Voucher Pilot Program, SCE Charge Ready Transit Bus Pilot and Charge Ready Transport, CARB Low Carbon Transportation Investments and Air Quality Improvement Program, New EV Tax Credit, Commercial EV Tax Credit |
| T5    | <b>Limit and Remove Parking Minimums:</b> Parking strategies such as parking maximums, unbundling parking, or market-price parking can help reduce VMT.   |          |   | <ul style="list-style-type: none"> <li>Reduce parking stipulations to reduce parking supply and encourage transit use.</li> <li>Unbundle parking costs to reflect cost of parking.</li> <li>Implement parking pricing to encourage “park-once” behavior.</li> </ul> |   |                                  |        |  |

| ID  | STRATEGY/MEASURE/ACTION  | LEAD | PARTNERS     | PERFORMANCE OBJECTIVES  | TRACKING METRICS   | TIME FRAME             | COST        | FUNDING    |
|---|--|------|--------------|---|--|------------------------|-------------|------------|
| T5.1  | Implement a comprehensive parking reform strategy, which should include, but not be limited to: elimination of minimum parking requirements for all new residential units, establishment of parking maximums within one-half mile of high-quality transit stops, creation and expansion of parking benefit districts, development of planning strategies for transitioning land dedicated to parking to alternative transit and public uses, and incentives for developers to provide less than maximum allowable parking. | DRP  | PW           |   | <ul style="list-style-type: none"> <li>Percent change in parking supply</li> <li>Number of new and expanded parking benefit districts</li> <li>Mode shift surveys in areas/buildings with reduced/unbundled/priced parking</li> </ul>  | Short term (2024–2030) | \$\$-\$\$\$ | LEAP Grant |
| <b>Strategy 4: Institutionalize Low-Carbon Transportation</b> |  |      |              |   |  |                        |             |            |
| <b>T6<sup>a</sup><br/>(Core)</b>                              | <b>Increase ZEV Market Share and Reduce Gasoline and Diesel Fuel Sales:</b> Increase unincorporated Los Angeles County's ZEV market share and vehicle penetration to the maximum extent feasible to replace internal combustion engine vehicles. Set targets for reducing total gasoline and diesel vehicle fuel sales.  |      |              | <p>Increase the fleetwide percentage of light-duty vehicles in unincorporated Los Angeles County that are ZEVs to:*</p> <ul style="list-style-type: none"> <li>30% by 2030</li> <li>50% by 2035</li> <li>90% by 2045</li> </ul> <p>Increase the sales of new light-duty vehicles in unincorporated Los Angeles County that are ZEVs to: *</p> <ul style="list-style-type: none"> <li>68% by 2030</li> <li>100% by 2035</li> </ul> <p>Install the following total number of new public and private shared EVCSs:</p> <ul style="list-style-type: none"> <li>37,000 by 2030</li> <li>74,000 by 2035</li> <li>140,000 by 2045</li> </ul> <p>Install the following total number of new EVCSs at County facilities and properties:</p> <ul style="list-style-type: none"> <li>5,000 by 2030</li> <li>10,000 by 2035</li> <li>25,000 by 2045</li> </ul> |  |                        |             |            |
| T6.1  | Develop a Zero Emission Vehicle Master Plan. Collaborate with other regional agencies and jurisdictions to share infrastructure.   | CSO  | DRP, PW, ISD |   | <ul style="list-style-type: none"> <li>Number of ZEVs registered and number of non-ZEVs registered</li> <li>Total sales of gasoline and diesel fuel in unincorporated Los Angeles County</li> <li>Total number of gas stations decommissioned</li> <li>Specific tracking metrics for ZEV infrastructure and ZEV adoption to be identified in the plan</li> </ul> | Short term (2024–2025) | \$          | TBD        |

| ID   | STRATEGY/MEASURE/ACTION  | LEAD     | PARTNERS                                   | PERFORMANCE OBJECTIVES | TRACKING METRICS  | TIME FRAME                     | COST   | FUNDING  |
|------|--|----------|--|------------------------|---|--------------------------------|--------|--|
| T6.2 | Install EVCSs at existing buildings and right-of-way infrastructure throughout unincorporated Los Angeles County.  | CSO, ISD | PW   |                        | <ul style="list-style-type: none"> <li>Number, location, and availability of EVCSs</li> </ul> | Short to long term (2024–2045) | \$\$\$ | CEC CALeVIP and EVSE Rebates, CEC Clean Transportation Program, CPUC statewide transportation electrification infrastructure rebate program, Federal EV Charging Tax Credit, SCAQMD and MSRC Residential EV Charging Incentive Pilot Program, CARB Clean Fuel Reward and CALeVIP, CalCAP EV Charging Station Financing Program for small businesses, Federal Inflation Reduction Act EV tax credits and other financial incentives, CARB Greenhouse Gas Reduction Fund           |
| T6.3 | Require all new development to install EVCSs through a condition of approval/ordinance. Residential development must install EVCSs; nonresidential development must install EVCSs at a percentage of total parking spaces.   | DRP      | PW   |                        | <ul style="list-style-type: none"> <li>Number, location, and availability of EVCSs</li> </ul> | Short term (2024–2030)         | \$     | SCE Charge Ready Program, EVSE rebates, CEC Clean Transportation Program, CPUC statewide transportation electrification infrastructure rebate program, Federal EV Charging Tax Credit, SCAQMD and MSRC Residential EV Charging Incentive Pilot Program, CARB Clean Fuel Reward and CALeVIP, CalCAP EV Charging Station Financing Program for small businesses, Federal Inflation Reduction Act EV tax credits and other financial incentives, CARB Greenhouse Gas Reduction Fund |
| T6.4 | Install EVCSs at County facilities and properties for public, employee, and fleet use, prioritizing locations in frontline, BIPOC, and disadvantaged communities. Complete an assessment of EV charging locations, identifying gaps in publicly accessible stations for frontline, BIPOC, and disadvantaged communities. Provide EV purchase incentive information in multiple languages to frontline communities. | ISD      | Fire, LASD, PW, Parks, Beaches and Harbors |                        | <ul style="list-style-type: none"> <li>Number, location, and availability of EVCSs</li> </ul> | Short to long term (2024–2045) | \$\$\$ | CEC CALeVIP EVSE rebate, SCAQMD Alternative Fuel Vehicle and Fueling Infrastructure Grants, CEC Clean Transportation Program, CPUC statewide transportation electrification infrastructure rebate program, Federal EV Charging Tax Credit, CARB Clean Fuel Reward and CALeVIP, Federal Inflation Reduction Act EV tax credits and other financial incentives, CARB Greenhouse Gas Reduction Fund   |
| T6.5 | Continue to pilot vehicle-grid integration applications at workplaces to maximize the benefits that daytime charging for plug-in electric vehicles (PEVs) can have on the grid, including demand response to reduce peak loads and energy storage during periods of renewable overproduction.  | ISD, PW  | SCE, CSO, DRP, ISD                         |                        |   | Short term (2024–2030)         | \$     | SCE Charge Ready Program, CARB Greenhouse Gas Reduction Fund   |

| ID              | STRATEGY/MEASURE/ACTION   | LEAD | PARTNERS     | PERFORMANCE OBJECTIVES   | TRACKING METRICS   | TIME FRAME              | COST   | FUNDING   |
|-----------------|---|------|--------------|--|--|-------------------------|--------|---|
| T6.6            | Expand electric options for active transportation, such as electric scooters and e-bikes. Provide access to neighborhood electric vehicles, such as golf carts, shared EVs, and others. Develop policies and/or ordinances to expand these options. | CSO  | DRP, PW, ISD |  | <ul style="list-style-type: none"> <li>• Number of e-scooters/e-bikes available</li> <li>• Number of neighborhood EVs available</li> <li>• Number of residents served</li> <li>• Number of rides</li> <li>• Average ride distance</li> </ul>   | Medium term (2030–2035) | \$     | CARB Clean Mobility Options Voucher Pilot Program, CARB Low Carbon Transportation Investments and Air Quality Improvement Program, CPUC statewide transportation electrification infrastructure rebate program, SCAQMD and MSRC Residential EV Charging Incentive Pilot Program, CARB Clean Fuel Reward and CALeVIP, CalCAP EV Charging Station Financing Program for small businesses, Federal Inflation Reduction Act EV tax credits and other financial incentives, CARB Greenhouse Gas Reduction Fund |
| T6.7            | Increase the use of green hydrogen vehicles. Use biomethane and biogas created from organic waste as a "bridge fuel" to achieve 100% green hydrogen and electric vehicles. Consider the use of other zero-emission fuel sources.                    | ISD  | PW           |  | <ul style="list-style-type: none"> <li>• NG and hydrogen truck registration data (or fuel consumption data)</li> <li>• Quantity of biomethane and biogas sold and consumed in unincorporated Los Angeles County</li> <li>• Percent of the community truck fleet that uses green biomethane and hydrogen</li> </ul> | Medium term (2030–2035) | \$\$\$ | CARB Bus Replacement Grant, CARB Hybrid and Zero Emission Truck and Bus Voucher Incentive Project, Federal Zero-Emission Transit Bus Tax Exemption, CARB California Clean Mobility Options Voucher Pilot Program, SCAQMD Heavy-Duty Zero Emission Vehicle Replacement Grant, SCAQMD Goods Movement Emission Reduction Program, CARB Low Carbon Transportation Investments and Air Quality Improvement Program, CPUC statewide transportation electrification infrastructure rebate program                |
| T7 <sup>a</sup> | <b>Electrify County Fleet Vehicles:</b> Electrify the County bus, shuttle, and light-duty vehicle fleets.   |      |              | <p>Electrify the County bus and shuttle vehicle fleets by 2035.</p> <p>Increase the fleetwide percentage of light-duty vehicles in the County–owned fleet that are ZEVs to:</p> <ul style="list-style-type: none"> <li>• 35% by 2030</li> <li>• 60% by 2035</li> <li>• 100% by 2045</li> </ul> <p>Support the state’s goal that all new light-duty vehicle fleet purchases, with certain exceptions, will be ZEVs.</p> |  |                         |        |   |

| ID                                     | STRATEGY/MEASURE/ACTION   | LEAD                       | PARTNERS   | PERFORMANCE OBJECTIVES   | TRACKING METRICS   | TIME FRAME                       | COST     | FUNDING   |
|--|---|----------------------------|--|--|--|----------------------------------|----------|---|
| T7.1                                   | Electrify the County bus and shuttle vehicle fleets and partner with transit agencies for group purchasing and siting of shared charging and/or fueling infrastructure. <sup>M</sup>        | PW, LASD                   | ISD  |  | <ul style="list-style-type: none"> <li>Number of ZEV buses</li> <li>Number of ZEV light-duty vehicles</li> <li>Total ZEV percentage of bus and light-duty vehicle fleet</li> </ul>                                   | Short to medium term (2024–2035) | \$\$\$\$ | Caltrans grant, CARB Bus Replacement Grant, CARB Hybrid and Zero Emission Truck and Bus Voucher Incentive Project, Federal Zero-Emission Transit Bus Tax Exemption, CARB California Clean Mobility Options Voucher Pilot Program, SCE Charge Ready Transit Bus Pilot and Charge Ready Transport, CARB Low Carbon Transportation Investments and Air Quality Improvement Program, New EV Tax Credit, Commercial EV Tax Credit  |
| T7.2                                   | Electrify light-duty County fleet vehicles. <sup>M</sup>  | ISD, LASD, Fire, PW, Parks | CSO  |  | <ul style="list-style-type: none"> <li>ZEV percentage of light-duty County-owned fleet</li> </ul>  | Short to medium term (2024–2035) | \$\$\$   | CARB Clean Vehicle Rebate Project public fleet vehicle rebates, CARB Clean Cars for All program, Caltrans grants, CARB Low Carbon Transportation Investments and Air Quality Improvement Program, New EV Tax Credit, Commercial EV Tax Credit   |
| <b>T8<sup>a</sup></b><br><b>(Core)</b> | <b>Accelerate Freight Decarbonization:</b> Incentivize and implement freight decarbonization technologies, specifically focusing on charging infrastructure.                                |                            |  | <p>Increase the fleetwide percentage of medium- and heavy-duty vehicles in unincorporated Los Angeles County that are ZEVs to:</p> <ul style="list-style-type: none"> <li>40% by 2030</li> <li>60% by 2035</li> <li>90% by 2045</li> </ul> <p>Increase the fleetwide percentage of medium- and heavy-duty vehicles in the County-owned fleet that are ZEVs to:</p> <ul style="list-style-type: none"> <li>50% by 2030</li> <li>70% by 2035</li> <li>95% by 2045</li> </ul> |  |                                  |          |   |
| T8.1                                   | Implement freight decarbonization technologies along highway corridors passing through unincorporated Los Angeles County communities through programs such as zero-emission delivery zones. | DRP, CSO                   | SCAQMD, CARB, SCAG, Metro, councils of governments, cities |  | <ul style="list-style-type: none"> <li>Medium- and heavy-duty truck EVCSs</li> <li>Miles between EVCSs</li> <li>Sales and registrations of ZEV trucks</li> <li>Percent of drayage truck fleet that is ZEV</li> </ul> | Medium to long term (2030–2045)  | \$\$\$\$ | SCAQMD Heavy-Duty Zero Emission Vehicle Replacement Grant, SCAQMD Goods Movement Emission Reduction Program, CEC CALeVIP EVSE Rebates, SCE Charge Ready Program EVSE rebates, CARB Advanced Technology Freight Demonstration Projects, CARB Low Carbon Transportation Investments and Air Quality Improvement Program, CEC Clean Transportation Program, Federal New EV Tax Credit, Federal Commercial EV Tax Credit, Federal Inflation Reduction Act EV tax credits and other financial incentives |



| ID   | STRATEGY/MEASURE/ACTION  | LEAD                       | PARTNERS | PERFORMANCE OBJECTIVES | TRACKING METRICS  | TIME FRAME                       | COST   | FUNDING  |
|------|--|----------------------------|----------|------------------------|---|----------------------------------|--------|--|
| T8.2 | Create an ordinance requiring new goods movement facilities to install alternative fueling infrastructure.   | DRP, CSO                   | PW, ISD  |                        | <ul style="list-style-type: none"> <li>Number and location of EVCS facilities</li> <li>Total number of medium- and heavy-duty ZEVs registered and operating in unincorporated Los Angeles County</li> </ul> | Short term (2024–2030)           | \$     | County General Fund, SCAQMD Heavy-Duty Zero Emission Vehicle Replacement Grant, Goods Movement Emission Reduction Program, CEC CALeVIP EVSE Rebates, SCE Charge Ready Program EVSE rebates for implementation/compliance, CEC Clean Transportation Program, CPUC statewide transportation electrification infrastructure rebate program, Federal EV Charging Tax Credit, Federal Inflation Reduction Act EV tax credits and other financial incentives   |
| T8.3 | Adopt Building Performance Standards for existing goods movement facilities and reach code requirements for major retrofits and renovations that require alternative fueling infrastructure for medium- and heavy-duty vehicles. Require goods movement facilities to install alternative fueling infrastructure for medium- and heavy-duty vehicles at the point of sale. | DRP, CSO                   | PW, ISD  |                        | <ul style="list-style-type: none"> <li>Number and location of EVCS facilities</li> <li>Total number of medium- and heavy-duty ZEVs registered and operating in unincorporated Los Angeles County</li> </ul> | Short term (2024–2030)           | \$\$   | County General Fund, SCAQMD Heavy-Duty Zero Emission Vehicle Replacement Grant, Goods Movement Emission Reduction Program, CEC CALeVIP EVSE Rebates, SCE Charge Ready Program EVSE rebates for implementation/compliance, CEC Clean Transportation Program, CPUC statewide transportation electrification infrastructure rebate program, Federal EV Charging Tax Credit, Federal Inflation Reduction Act EV tax credits and other financial incentives   |
| T8.4 | Streamline permitting of ZEV charging and fueling infrastructure for medium- and heavy-duty vehicles.  | DRP                        | CSO, PW  |                        | <ul style="list-style-type: none"> <li>Number of permits completed</li> </ul>   | Short to medium term (2024–2035) | \$     | County General Fund, CEC Clean Transportation Program, CPUC statewide transportation electrification infrastructure rebate program, Federal EV Charging Tax Credit, Federal Inflation Reduction Act EV tax credits and other financial incentives  |
| T8.5 | Electrify the County medium- and heavy-duty vehicle fleet.   | ISD, LASD, Fire, PW, Parks | CSO      |                        | <ul style="list-style-type: none"> <li>Number and percent of medium- and heavy-duty vehicles in the County-owned fleet that are ZEVs</li> </ul>   | Short to long term (2024–2045)   | \$\$\$ | CARB Clean Vehicle Rebate Project public fleet vehicle rebates, County General Fund, SCAQMD Heavy-Duty Zero Emission Vehicle Replacement Grant, Goods Movement Emission Reduction Program, CEC CALeVIP EVSE Rebates, CARB Low Carbon Transportation Investments and Air Quality Improvement Program, CEC Clean Transportation Program, CPUC statewide transportation electrification infrastructure rebate program, Federal New EV Tax Credit, Federal Commercial EV Tax Credit, Federal EV Charging Tax Credit, Federal Inflation Reduction Act EV tax credits and other financial incentives |

| ID                                       | STRATEGY/MEASURE/ACTION   | LEAD    | PARTNERS                    | PERFORMANCE OBJECTIVES   | TRACKING METRICS   | TIME FRAME             | COST | FUNDING  |
|--|---|---------|-----------------------------|--|--|------------------------|------|--|
| <b>T9<sup>Q</sup></b>                    | <b>Expand Use of Zero-Emission Technologies for Off-Road Vehicles and Equipment:</b> Prohibit the use of gas- and diesel-powered small (≤25 horsepower) off-road equipment and increase the use of zero-emission and near-zero-emission construction, agriculture, and manufacturing equipment.   |         |                             | <p>Increase the fleetwide percentage of off-road fleet and equipment in unincorporated Los Angeles County that are ZEVs to:</p> <ul style="list-style-type: none"> <li>• 20% by 2030</li> <li>• 50% by 2035</li> <li>• 95% by 2045</li> </ul> <p>Increase the fleetwide percentage of construction, agriculture, and manufacturing equipment in unincorporated Los Angeles County that are ZEVs to:</p> <ul style="list-style-type: none"> <li>• 50% by 2030</li> <li>• 75% by 2035</li> <li>• 100% by 2045</li> </ul> |  |                        |      |  |
| T9.1                                     | Partner with the South Coast Air Quality Management District and Antelope Valley Air Quality Management District to increase the use of zero-emission and near-zero-emission construction, agriculture, and manufacturing equipment.  | PW      | DRP, CSO, ISD, SCAQMD, CARB |  | <ul style="list-style-type: none"> <li>• Off-road vehicle and equipment fleet count, type, and fuel type</li> </ul>  | Short term (2024–2030) | \$   | CARB Clean Off-Road Equipment Voucher Incentive Project, SCAQMD Surplus Off-Road Opt-In for NOx (SOON) Program, Carl Moyer Program, CARB Low Carbon Transportation Investments and Air Quality Improvement Program |
| T9.2                                     | Identify types of ZEV equipment and green hydrogen equipment that are commercially available (e.g., forklifts, loaders, welders, saws, pumps, fixed cranes, air compressors, sweepers, aerial lifts, pressure washers) and require the use of these types of equipment on all new projects through an ordinance or conditions of approval.  | PW, DRP | CSO, ISD, SCAQMD, CARB      |  | <ul style="list-style-type: none"> <li>• Development and adoption of ordinance</li> <li>• Off-road vehicle and equipment fleet count, type, and fuel type</li> </ul> | Short term (2024–2030) | \$   | CARB Clean Off-Road Equipment Voucher Incentive Project, SCAQMD Surplus Off-Road Opt-In for NOx (SOON) Program, Carl Moyer Program, CARB Low Carbon Transportation Investments and Air Quality Improvement Program |
| T9.3                                     | Require, to the maximum extent feasible, the use of zero-emission and near-zero-emission construction, agriculture, and manufacturing equipment for County projects. <sup>M</sup>   | PW      | DRP, CSO, ISD, SCAQMD       |  | <ul style="list-style-type: none"> <li>• Development and adoption of ordinance</li> <li>• Off-road vehicle and equipment fleet count, type, and fuel type</li> </ul> | Short term (2024–2030) | \$\$ | CARB Clean Off-Road Equipment Voucher Incentive Project, SCAQMD Surplus Off-Road Opt-In for NOx (SOON) Program, Carl Moyer Program, CARB Low Carbon Transportation Investments and Air Quality Improvement Program |
| <b>Strategy 5: Decarbonize Buildings</b> |   |         |                             |  |  |                        |      |  |
| <b>E1<sup>Q</sup> (Core)</b>             | <b>Transition Existing Buildings to All-Electric:</b> As the carbon intensity of grid-supplied energy decreases, decarbonization of the electrical grid must be combined with building electrification, shifting the energy load from fossil natural gas to cleaner sources while taking into consideration the varying climate, geography, infrastructure, and sole-source dependency challenges that rural communities and unique industries may face. This measure aims to electrify applicable existing buildings. Biomethane is another preferred alternative to fossil natural gas; however, existing opportunities for widespread use of biomethane are currently limited. The use of other zero-emission fuel sources for buildings should be considered. |         |                             | <p>Electrify the existing residential building stock:</p> <ul style="list-style-type: none"> <li>• 25% by 2030</li> <li>• 40% by 2035</li> <li>• 80% by 2045</li> </ul> <p>Electrify the existing nonresidential building stock:</p> <ul style="list-style-type: none"> <li>• 15% by 2030</li> <li>• 25% by 2035</li> <li>• 60% by 2045</li> </ul>   |  |                        |      |  |



| ID   | STRATEGY/MEASURE/ACTION  | LEAD     | PARTNERS                                 | PERFORMANCE OBJECTIVES  | TRACKING METRICS   | TIME FRAME                       | COST          | FUNDING   |
|------|--|----------|--|---|--|----------------------------------|---------------|---|
|      |  |          |  | Require Zero Net Energy (ZNE) for all major renovations: <ul style="list-style-type: none"> <li>• 50% by 2030</li> <li>• 75% by 2035</li> <li>• 100% by 2045</li> </ul> Adopt building performance standards and reach code(s).<br>Adopt ZNE ordinance.<br>Conduct buildings portfolio analysis and cost feasibility study. |  |                                  |               |   |
| E1.1 | Adopt Building Performance Standards for existing buildings and reach code requirements for major retrofits and renovations that require electric water and space heating. Require buildings to retrofit natural gas water and space heating to electric water and space heating at the point of sale. | CSO, PW  | DRP                                      |   | <ul style="list-style-type: none"> <li>• Energy consumption (gas use vs. electricity use vs. biomethane use)</li> <li>• Number of existing buildings transitioned to all-electric</li> </ul> | Short to medium term (2024–2035) | \$            | Funded; CPUC Technology and Equipment for Clean Heating (TECH) and Building Initiative for Low Emissions Development (BUILD) programs, Home Electrification and Energy Efficiency Rebates, Efficient Building Code Adoption Grants, Federal Inflation Reduction Act   |
| E1.2 | Increase alternatives to natural gas uses, such as for cooking, in existing buildings. Establish carbon intensity limits for existing nonresidential and residential buildings over a certain size.  | CSO, DRP | PW, SoCalGas                             |   | <ul style="list-style-type: none"> <li>• Carbon intensity limits/reporting</li> <li>• Biomethane consumption</li> </ul>  | Short to medium term (2024–2035) | \$            | CPUC TECH program, CPUC BUILD program, CARB Greenhouse Gas Reduction Fund, CARB California Climate Investments program, California Alternative Energy and Advanced Transportation Financing Authority, California Lending for Energy and Environmental Needs Center, Affordable Housing and Sustainable Communities Program, CPUC Energy Saving Assistance Program, CPA and CALeVIP rebates, Home Electrification and Energy Efficiency Rebates, Efficient Building Code Adoption Grants, Federal Inflation Reduction Act |
| E1.3 | Adopt a ZNE ordinance for building renovations, based on certain criteria (such as commercial facilities with 10,000 square feet of additions). Adopt ZNE Building Performance Standards for certain buildings not undergoing major renovations or retrofits.  | CSO, DRP | PW, CSO, SCE, CPA                        |   | <ul style="list-style-type: none"> <li>• Number of ZNE buildings constructed</li> </ul>  | Short term (2024–2030)           | \$            | County General Fund; funding sources identified above   |
| E1.4 | Create a plan for phased electrification of County facilities. Phase out gas-powered infrastructure and appliances as they need replacement. <sup>M</sup>  | ISD      | PW, CSO, SCE, CPA                        |   | <ul style="list-style-type: none"> <li>• Number of buildings electrified</li> <li>• Energy consumption (gas use vs. electricity use)</li> </ul>  | Short to long term (2024–2045)   | \$\$-\$\$\$\$ | Funding sources identified above  |
| E1.5 | Create a comprehensive fund aggregation program to support energy efficiency, decarbonization, and resilience in new and existing affordable housing.  | CSO, DRP | DRP, SCE, CPA, RePowerLA Coalition, NRDC |   | <ul style="list-style-type: none"> <li>• Number of units retrofitted</li> <li>• Number of units with renter protections as a result of incentives</li> </ul>                                 | Short to medium term (2024–2035) | \$\$\$        | Federal Inflation Reduction Act   |

| ID              | STRATEGY/MEASURE/ACTION  | LEAD     | PARTNERS   | PERFORMANCE OBJECTIVES   | TRACKING METRICS  | TIME FRAME   | COST | FUNDING  |
|-----------------|--|----------|--|--|---|--|------|--|
| E1.6            | Create and resource an energy retrofit accelerator to provide a one-stop shop for guidance, technical support, training, and access to aggregated funds to support building owners and contractors. Target support to low-income communities and affordable housing.   | CSO, DRP | DRP, SCE, CPA, SoCalGas, RePowerLA Coalition, NRDC |  | <ul style="list-style-type: none"> <li>Number of owners served</li> <li>Number of retrofits implemented</li> <li>Number of contractors trained</li> </ul> | Short to medium term (2024–2035)                       | \$\$ | Federal Inflation Reduction Act  |
| E2 <sup>a</sup> | <b>Standardize All-Electric New Development:</b> This measure aims to electrify all applicable new buildings, while taking into consideration the varying climate, geography, infrastructure, and sole-source dependency challenges that rural communities and unique industries may face.   |          |  | <ul style="list-style-type: none"> <li>Require all applicable new buildings to be all electric. Provide affordable housing set-aside to offset first cost.                             <ul style="list-style-type: none"> <li>Residential: 90% all-electric by 2030, 95% by 2035, and 100% by 2045</li> <li>Nonresidential: 90% all-electric by 2030 (except large industry and possibly food service) 95% by 2035, and 100% by 2045</li> </ul> </li> <li>Require most new residential and nonresidential buildings to be ZNE beginning in 2030. Include affordable housing set-aside.                             <ul style="list-style-type: none"> <li>Residential: 90% ZNE by 2030</li> <li>Nonresidential: 90% ZNE by 2030 (except large industry)</li> </ul> </li> </ul> |   |  |      |  |
| E2.1            | Adopt an ordinance requiring all applicable new buildings to be fully electric with no natural gas hookups. Include affordable housing considerations in these requirements, and develop supporting measures (financial support, technical assistance, or other incentives) to defray potential additional first costs in order to maintain housing affordability. | PW, DRP  | CSO, WDACS   |  | <ul style="list-style-type: none"> <li>Number of all-electric buildings built</li> <li>Total electricity and natural gas consumption</li> </ul>           | Short term (2024–2030)                                 | \$   | County General Fund, Home Electrification and Energy Efficiency Rebates, Efficient Building Adoption Grants  |
| E2.2            | Adopt a ZNE ordinance for all new residential buildings built after 2025 and all new nonresidential buildings built after 2030. Include renter protections for affordable housing. Provide affordable housing set-aside to offset first cost.  | PW, DRP  | CSO  |  | <ul style="list-style-type: none"> <li>Number of residential and nonresidential buildings constructed to be ZNE</li> </ul>                                | Short term (2024–2030)                                 | \$   | County General Fund, Home Electrification and Energy Efficiency Rebates, Efficient Building Code Adoption Grants, Commercial Energy Efficiency Tax Deduction |
| E2.3            | Adopt CALGreen Code Tier 1 green building standards and identify which Tier 2 standards could be adopted as code amendments.   | PW       | CSO, DRP   |  | <ul style="list-style-type: none"> <li>Number of voluntary CALGreen Tier 2 standards adopted as code amendments</li> </ul>                                | Short term (2024–2030); ongoing with CALGreen updates) | \$   | New funds needed   |
| E3              | <b>Other Decarbonization Actions:</b> Reduce the life-cycle carbon intensity of building materials and phase out the use of high-GWP refrigerants.   |          |  | <p>Increase the proportion of biomethane in the utility natural gas mix to:</p> <ul style="list-style-type: none"> <li>20% by 2030</li> <li>30% by 2035</li> <li>80% by 2045</li> </ul> <p>Use low-carbon, carbon-neutral, or negative-carbon concrete for all new construction; identify carbon intensity limit of concrete.</p> <p>Replace high-GWP refrigerants with low-GWP refrigerants:</p> <ul style="list-style-type: none"> <li>15% by 2030</li> <li>25% by 2035</li> <li>50% by 2045</li> </ul>  |   |  |      |  |

| ID  | STRATEGY/MEASURE/ACTION   | LEAD     | PARTNERS                        | PERFORMANCE OBJECTIVES   | TRACKING METRICS   | TIME FRAME  | COST                                     | FUNDING   |
|---|---|----------|---------------------------------|--|--|---|--|---|
| E3.1  | Work with utilities to incorporate increasing levels of biomethane into the natural gas mix.  | CSO, DRP | PW, SoCalGas, LACSD, CalRecycle |  | <ul style="list-style-type: none"> <li>Proportion of biomethane in utility natural gas mix</li> </ul>  | Short to medium term (2024–2035); develop ordinance to be in effect by 2030 | \$\$\$ (TBD based on cost of biomethane) | TBD   |
| E3.2  | Adopt a concrete code for new construction that limits embodied carbon emissions; specify code requirements of carbon intensity limit for concrete.   | PW       | CSO, DRP                        |  | <ul style="list-style-type: none"> <li>Quantity of low-carbon concrete used in new construction</li> </ul>   | Short to medium term (2025–2035)  | \$                                       | TBD   |
| E3.3  | Adopt reach code requirements that include performance standards to limit the amount of embodied carbon associated with construction.   | CSO      | DRP, PW                         |  | <ul style="list-style-type: none"> <li>Quantity of low-carbon materials used in new construction</li> </ul>  | Short term (2024–2030)  | \$                                       | TBD   |
| E3.4  | Develop a refrigerant management program that establishes a phase-out timeline for high-GWP refrigerants in existing buildings, incentivizes industrial equipment replacement, and specifies requirements for new development to use low-GWP refrigerants.  | PW, ISD  | DRP, U.S. EPA, CARB             |  | <ul style="list-style-type: none"> <li>Quantity of low-GWP refrigerants charged/used</li> </ul>  | Short term (2024–2030)  | \$                                       | TBD   |
| <b>Strategy 6: Improve Efficiency of Existing Building Energy Use</b> |   |          |                                 |  |  |   |  |   |
| E4 <sup>a</sup>   | <b>Improve Energy Efficiency of Existing Buildings:</b> Retrofit existing building stock to reduce overall unincorporated Los Angeles County energy use.  |          |                                 | Reduce building energy use intensity below 2015 levels as follows: <ul style="list-style-type: none"> <li>20% for residential, 15% for industrial, and 25% for commercial by 2030</li> <li>25% for residential and industrial and 35% for commercial by 2035</li> <li>50% for residential, industrial, and commercial by 2045</li> </ul> Adopt building performance standards and reach code(s). | <ul style="list-style-type: none"> <li>Total number of retrofits</li> <li>Energy use/savings</li> <li>Building size (square footage) retrofit</li> </ul> |   |  |   |
| E4.1  | Adopt Building Performance Standards for energy efficiency in existing buildings. Require all buildings to perform energy efficiency retrofits at the point of sale. Expand and enhance the energy efficiency programs offered by the Southern California Regional Energy Network (SoCalREN). Include affordable housing considerations in these requirements and develop additional renter protections and supporting measures (financial support, technical assistance, or other incentives) to limit the amount of first costs being passed on to low-income renters. (See Actions E1.5 and E1.6.) | ISD, CSO | SoCalREN, SCE, SoCalGas, CPA    |  | <ul style="list-style-type: none"> <li>Overall energy savings</li> <li>Number of homes or businesses participating</li> </ul>                            | Short to medium term (2024–2035)  | \$\$\$                                   | New funds needed; GoGreen Business Energy Financing program, SoCalREN, SCE On-Bill Financing, Home Electrification and Energy Efficiency Rebates, Efficient Building Code Adoption Grants, Commercial Energy Efficiency Tax Deduction, Residential Energy Efficiency Tax Credit, Affordable Housing Resilience and Efficiency Investments |
| E4.2  | Adopt an energy efficiency ordinance for existing buildings, requiring all buildings over 20,000 square feet to benchmark and report their energy use and demonstrate their pathway to efficiency.  | CSO      | PW, DRP, SCE, SoCalGas, CPA     |  | <ul style="list-style-type: none"> <li>Energy use, electricity and gas (Btu)</li> <li>Building size (square footage)</li> </ul>                          | Short term (2024–2030)  | \$                                       | County General Fund, Home Electrification and Energy Efficiency Rebates, Efficient Building Code Adoption Grants, Commercial Energy Efficiency Tax Deduction, Residential Energy Efficiency Tax Credit, Affordable Housing Resilience and Efficiency Investments  |
| E4.3  | Convert existing County–owned heat-trapping surfaces to cool or green surfaces. <sup>m</sup>  | ISD      | CSO, PW                         |  | <ul style="list-style-type: none"> <li>Number and area of cool and green roofs installed</li> </ul>  | Medium term (2030–2035)   | \$\$–\$\$\$                              | Project-based funding   |

| ID                                | STRATEGY/MEASURE/ACTION  | LEAD    | PARTNERS                    | PERFORMANCE OBJECTIVES   | TRACKING METRICS  | TIME FRAME                     | COST        | FUNDING   |
|-----------------------------------|--|---------|-----------------------------|--|---|--------------------------------|-------------|---|
| <b>Strategy 7: Conserve Water</b> |  |         |                             |  |   |                                |             |   |
| E5                                | <b>Increase Use of Recycled Water and Graywater Systems:</b><br>Increasing the use of alternative water sources (e.g., recycled water, graywater, indirect potable reuse) reduces the demand for water sources with higher energy and carbon intensities (e.g., imported water, groundwater).  |         |                             | <p>Increase use of alternative water sources such that Unincorporated Los Angeles County demand is met by recycled water, graywater, or potable reuse:</p> <ul style="list-style-type: none"> <li>• 25% by 2030</li> <li>• 50% by 2035</li> <li>• 90% by 2045</li> </ul> <p>Ensure that water demand for agricultural will be recycled or graywater:</p> <ul style="list-style-type: none"> <li>• 30% by 2030</li> <li>• 50% by 2035</li> <li>• 80% by 2045</li> </ul> <p>Ensure that water demand for industrial will be recycled or graywater:</p> <ul style="list-style-type: none"> <li>• 30% by 2030</li> <li>• 50% by 2035</li> <li>• 80% by 2045</li> </ul> <p>Implement a successful direct potable reuse project by 2025.</p> |   |                                |             |   |
| E5.1                              | Require dual waste piping to be installed in new residential developments to allow for future graywater irrigation systems.  | PW      | DPH                         |  | <ul style="list-style-type: none"> <li>• Number of graywater systems installed</li> </ul>               | Long term (2035–2045)          | \$          | California Department of Water Resources grants; partial funds secured; additional funds needed |
| E5.2                              | Require the use of recycled water and graywater for agricultural purposes where recycled water is available. Identify soil and water conservation best practices for agricultural uses. Work with Los Angeles County Sanitation Districts (LACSD) and other water suppliers to assess the feasibility of new recycled water facilities for unserved communities. | PW      | DRP, DPH, LACSD, MWD        |  | <ul style="list-style-type: none"> <li>• Recycled/graywater supply for agricultural purposes</li> </ul> | Short to long term (2024–2045) | \$\$–\$\$\$ | New funds needed  |
| E5.3                              | Require the use of recycled water and graywater for industrial purposes where recycled water is available. Identify water conservation best practices for industrial uses. Work with LACSD and other water suppliers to assess the feasibility of new recycled water facilities for unserved communities.  | PW      | DRP, DPH, LACSD, MWD        |  | <ul style="list-style-type: none"> <li>• Recycled/graywater supply for industrial purposes</li> </ul>   | Short to long term (2024–2045) | \$\$–\$\$\$ | TBD   |
| E5.4                              | Require the use of recycled water and graywater for landscaping irrigation purposes where recycled water is available.   | PW      | DRP, DPH, LACSD, MWD        |  | <ul style="list-style-type: none"> <li>• Recycled/graywater supply for landscape irrigation</li> </ul>  | Short to long term (2024–2045) | \$\$–\$\$\$ | TBD   |
| E5.5                              | Partner with the County water districts and retail suppliers to explore the potential for widespread utilization of direct potable reuse through pilot projects.   | PW, CSO | County water districts, MWD |  | <ul style="list-style-type: none"> <li>• Direct potable reuse output volume</li> </ul>                  | Short term (2024–2030)         | \$          | TBD   |

| ID   | STRATEGY/MEASURE/ACTION   | LEAD           | PARTNERS                  | PERFORMANCE OBJECTIVES   | TRACKING METRICS  | TIME FRAME                       | COST | FUNDING                                 |
|--|---|----------------|---------------------------|--|---|----------------------------------|------|---|
| E6 <sup>a</sup>  | <b>Reduce Indoor and Outdoor Water Consumption:</b> Reducing indoor and outdoor water consumption is essential as the state experiences longer and more severe droughts. Not only will water conservation improve regional resiliency, but it will also reduce GHG emissions through the reduction of energy consumption associated with the processing, treatment, and conveyance of water and wastewater.   |                |                           | <p>Reduce total water use to less than:</p> <ul style="list-style-type: none"> <li>• 110 GPCD by 2030</li> <li>• 100 GPCD by 2035</li> <li>• 85 GPCD by 2045</li> </ul> <p>Reduce outdoor landscaping water use to 10% by 2030, 20% by 2035, and 50% by 2045.</p> <p>Reduce municipal water consumption 10% by 2030, 20% by 2035, and 50% by 2045.</p>   |   |                                  |      |   |
| E6.1   | Develop a water conservation ordinance for new development (public and private). Utilize Leadership in Energy and Environmental Design (LEED) or Sustainable SITES Initiative (SITES) standards. A future ordinance may include a net-zero water requirement for new greenfield development.  | CSO            | DRP, PW                   |  | <ul style="list-style-type: none"> <li>• Total water use</li> <li>• Water use per capita</li> <li>• Square footage of each type of development (residential, commercial, municipal) built water-neutral</li> <li>• Total water use</li> <li>• Building size (square footage)</li> </ul> | Short term (2024-2030)           | \$   | New funds needed                        |
| E6.2   | Adopt a water efficiency ordinance for existing buildings, requiring all buildings over 20,000 square feet to benchmark and report their water use and demonstrate their pathway to efficiency.   | PW, CSO        | DRP                       |  | <ul style="list-style-type: none"> <li>• Total water use</li> <li>• Water use per capita</li> <li>• Building size (square footage)</li> </ul>   | Short to medium term (2024–2035) | \$   | County General Fund                     |
| E6.3   | Incentivize residents to replace water-intensive landscaping, such as decorative turf, with water-conserving landscaping and/or California native plants through a new ordinance along with education and incentive programs.   | PW             | CSO, DRP, water districts |  | <ul style="list-style-type: none"> <li>• Water use for landscaping</li> </ul>   | Short term (2024–2030)           | \$   | County General Fund                     |
| E6.4   | Implement strategies to improve water efficiency and increase water conservation at County facilities. <sup>M</sup>   | PW, ISD, Parks | CSO, DRP                  |  | <ul style="list-style-type: none"> <li>• Total water use</li> <li>• Water use for landscaping</li> <li>• Indoor water use</li> </ul>  | Short term (2024–2030)           | \$\$ | Project-based funding                   |
| E6.5   | Integrate water-related programs into the County’s affordable housing preservation program to protect the housing affordability of units and to keep the units fit for their purpose in a changing climate.   | PW, DRP        | CSO                       |  | <ul style="list-style-type: none"> <li>• Total water use</li> <li>• Water use for landscaping</li> <li>• Indoor water use</li> </ul>  | Short to medium term (2024–2035) | \$   | Water agency funding and grant programs |
| <b>Strategy 8: Minimize Waste and Recover Energy and Materials from the Waste Stream</b> |   |                |                           |  |   |                                  |      |   |
| W1 <sup>a</sup><br>(Core)  | <b>Institutionalize Sustainable Waste Systems and Practices:</b> Undertake actions that result in sustainable waste systems. Responsible and sustainable waste practices are learned behaviors that the County can facilitate through outreach, education, and mandates. Increase diversion of recyclable materials and organics from landfills through ordinances, service improvements, education and outreach, and promotion of product stewardship and markets for material reuse. An increased diversion rate indirectly reduces the demand for virgin materials, which reduces the life-cycle carbon intensity of any resulting products. Through action taken at the County level, waste-conscious habits and thoughtful consumption can become the default. |                |                           | <p>Increase the total unincorporated Los Angeles County waste diversion rate to:</p> <ul style="list-style-type: none"> <li>• 85% by 2030</li> <li>• 90% by 2035</li> <li>• 95% by 2045</li> </ul> <p>Reduce the disposal of single-use plastics in landfills.</p> <p>Increase the Construction and Demolition Debris Ordinance to 70% diversion.</p> <p>Increase percentage of construction and demolition debris reused in new projects (private, public).</p> |   |                                  |      |   |

| ID        | STRATEGY/MEASURE/ACTION   | LEAD   | PARTNERS   | PERFORMANCE OBJECTIVES   | TRACKING METRICS   | TIME FRAME                       | COST     | FUNDING  |
|-----------|---|--|--|--|--|----------------------------------|----------|--|
| W1.1      | Identify best practice waste pricing programs to reduce waste generation to the maximum extent feasible, including but not limited to differential prices for waste based on amount generated in the residential sector and reforms to tipping rate structures.   | CSO, PW  | LACSD, DPH   |  | <ul style="list-style-type: none"> <li>Per capita landfill disposal</li> <li>County unincorporated area diversion rate</li> </ul>  | Short term (2024–2030)           | \$\$     | Funded; CalRecycle grants, CEC grants, USDA Water & Waste Disposal Loan & Grant Program              |
| W1.2      | Implement, enforce, and expand to the maximum extent feasible the single-use plastics ordinance and polystyrene ban.  | CSO, PW  | DPH  |  | <ul style="list-style-type: none"> <li>Estimated source reduction of single-use plastics and polystyrene</li> <li>County unincorporated area waste generation and diversion rates</li> </ul> | Short to long term (2024–2045)   | \$–\$\$  | Funded; CalRecycle grants, CEC grants, USDA Water & Waste Disposal Loan & Grant Program              |
| W1.3      | Increase the diversion requirements in the County’s Construction and Demolition Debris Ordinance and allow the use of recycled construction materials in new projects.  | PW   | CSO, DRP, LACSD, CalRecycle  |  | <ul style="list-style-type: none"> <li>C&amp;D tonnage recycled/diverted from landfill</li> <li>C&amp;D tonnage reused</li> </ul>  | Short term (2024–2030)           | \$       | Funded; CalRecycle grants, CEC grants, USDA Water & Waste Disposal Loan & Grant Program              |
| <b>W2</b> | <b>Increase Organic Waste Diversion:</b> Provide services for diverting yard waste, food scraps, and compostable paper from landfills to beneficial uses, including compost, food rescue, and energy production.  |  |  | Maximize organic waste diversion to support unincorporated Los Angeles County’s overall waste diversion rate goals identified in Measure W1. |  |                                  |          |  |
| W2.1      | Require organic waste generators to properly manage organic waste as per the Organic Waste Disposal Reduction Ordinance. Improve upon and expand existing practices and programs to minimize organic waste disposal in landfills.   | PW, Agricultural Commissioner/Weights and Measures | CSO, LACSD, CalRecycle   |  | <ul style="list-style-type: none"> <li>Per capita organic waste disposal or total organic waste disposed</li> <li>Total Countywide diversion rate</li> </ul>                                 | Short to long term (2024–2045)   | \$–\$\$  | Funded   |
| W2.2      | Develop organic waste collection, management, and diversion programs for constituents in unincorporated communities and all County operations; establish a contamination monitoring plan for organic waste programs.  | PW   | Waste collectors, CalRecycle                                       |  | <ul style="list-style-type: none"> <li>Organic waste (tons or pounds per capita) disposal tonnage</li> </ul>   | Medium term (2030–2035)          | \$\$\$   | New funds needed; Grants from CalRecycle, CEC, CDF, USDA   |
| W2.3      | Collaborate with the Los Angeles County Sanitation Districts and other waste and wastewater service providers to utilize unused anaerobic digestion capacity of existing wastewater treatment plants and solid waste facilities to generate vehicle fuel (electricity and/or biomethane) from newly diverted organic waste. Develop a strategy for using bioenergy created from recycled organic waste. | PW   | CSO, LACSD, CalRecycle   |  | <ul style="list-style-type: none"> <li>Total energy generation or renewable vehicle fuel created from organic waste</li> </ul>   | Medium to long term (2030–2045)  | \$\$\$\$ | New funds needed; Grants from CalRecycle, CEC, CDF, USDA   |
| W2.4      | Provide regional leadership for organic waste processing capacity planning and infrastructure development.  | PW   | LACSD, CalRecycle  |  | <ul style="list-style-type: none"> <li>Capacity of organic waste processing facilities</li> <li>Amount of organic waste processed</li> </ul>   | Medium to long term (2030–2045)  | \$\$\$\$ | Funded   |
| W2.5      | Enhance and expand the County’s existing Food DROP food donation and redistribution program to divert edible food from landfills and make it available to food insecure communities.  | PW   | DPH, local businesses, restaurants, grocery stores, and nonprofits |  | <ul style="list-style-type: none"> <li>Total tons of edible food donated to food recovery organizations</li> </ul>   | Short to medium term (2024–2035) | \$\$     | USDA Supplemental Nutrition Assistance Program-Education; grants from CalRecycle, CEC, CDF, and USDA |



| ID   | STRATEGY/MEASURE/ACTION  | LEAD   | PARTNERS              | PERFORMANCE OBJECTIVES  | TRACKING METRICS  | TIME FRAME                     | COST        | FUNDING                 |
|--|--|--|-----------------------|---|---|--------------------------------|-------------|-------------------------|
| <b>Strategy 9: Conserve and Connect Wildlands and Working Lands</b>        |  |  |                       |   |   |                                |             |                         |
| A1 <sup>a</sup>  | <b>Conserve Forests, Woodlands, Shrublands, Grasslands, Desert, and other Carbon-Sequestering Wildlands and Working Lands:</b> Preserve, conserve, and restore agricultural lands, working lands, rangelands, forest lands, wetlands, and other wildlands in unincorporated Los Angeles County.  |  |                       | Reduce the amount of natural land converted for urbanized uses: <ul style="list-style-type: none"> <li>• 25% by 2030 (53 hectares conserved annually)</li> <li>• 50% by 2035 (106 hectares conserved annually)</li> <li>• 75% by 2045 (159 hectares conserved annually)</li> </ul> Conserve and restore natural forest land: <ul style="list-style-type: none"> <li>• 2,000 acres by 2030</li> <li>• 4,000 acres by 2035</li> <li>• 6,000 acres by 2045</li> </ul> Acres of wildland managed for wildfire risk reduction and carbon stock savings: <ul style="list-style-type: none"> <li>• 10,000 acres by 2030</li> <li>• 20,000 acres by 2035</li> <li>• 50,000 acres by 2045</li> </ul> |   |                                |             |                         |
| A1.1   | Develop an open space conservation and land acquisition strategy that prioritizes wildlife connectivity to conserve native habitats for carbon sequestration.  | DRP  | CSO, Parks, DOC, Fire |   | <ul style="list-style-type: none"> <li>• Total acres of natural habitats conserved</li> <li>• Easements established; percentage of easements within climate-hazard areas or SEAs</li> </ul> | Short to long term (2024–2045) | \$–\$\$\$   | County General Fund     |
| A1.2   | Employ ecosystem-appropriate vegetation management of wildlands based on the best available science to reduce unintended human ignitions and wildfire risk and prevent carbon loss in forest lands. Leverage tools such as the Unified Land Management Plan and the Countywide Community Wildfire Prevention Plan.   | Agricultural Commissioner/Weights and Measures, Fire | DRP, CSO, Parks, DOC  |   | <ul style="list-style-type: none"> <li>• Acres of wildlands managed for wildfire risk reduction and carbon stock savings</li> </ul>   | Short to long term (2024–2045) | \$–\$\$\$   | Grants through CAL FIRE |
| <b>Strategy 10: Sequester Carbon and Implement Sustainable Agriculture</b> |  |  |                       |   |   |                                |             |                         |
| A2   | <b>Support Regenerative Agriculture:</b> Promote agricultural practices that sequester carbon and restore soil quality, biodiversity, ecosystems health, and water quality.  |  |                       | <ul style="list-style-type: none"> <li>• Reduce the quantity of synthetic fertilizers used/applied.</li> <li>• Increase the number of acres of cover crops using regenerative agricultural techniques.</li> </ul>   |   |                                |             |                         |
| A2.1   | Create fallow and field resting incentives to reduce bare-fallow land by adding cover crops and promoting crop rotation for active agricultural sites to improve soil quality and limit risks of nutrient erosion, pollutant runoff, and yield reduction. Create a carbon farming plan with the primary objectives of carbon removal and regenerative agriculture. | Agricultural Commissioner/Weights and Measures       | CSO, PW, ISD          |   | <ul style="list-style-type: none"> <li>• Acres of bare-fallow land</li> <li>• Acres of land using regenerative agricultural techniques</li> </ul>   | Medium term (2030–2035)        | \$–\$\$\$\$ | TBD                     |

| ID              | STRATEGY/MEASURE/ACTION  | LEAD   | PARTNERS  | PERFORMANCE OBJECTIVES  | TRACKING METRICS  | TIME FRAME                     | COST   | FUNDING   |
|-----------------|--|--|---|---|---|--------------------------------|--------|---|
| A2.2            | Provide compost and/or organic or nonsynthetic fertilizer to farmers free of charge or at a discounted rate.   | Agricultural Commissioner/Weights and Measures | CSO, LACSD  |   | <ul style="list-style-type: none"> <li>Tonnage of compost and/or non-synthetic fertilizer provided to those producing crops</li> <li>Quantity of synthetic fertilizers used/applied</li> <li>Number of acres of cover crops using regenerative agricultural techniques</li> </ul> | Short term (2024–2030)         | \$\$\$ | TBD   |
| A3 <sup>a</sup> | <b>Expand Unincorporated Los Angeles County’s Tree Canopy and Green Spaces:</b> Create an Urban Forest Management Plan to plant trees, increase unincorporated Los Angeles County’s tree canopy cover, add green space, and convert impervious surfaces. Focus tree planting on frontline communities with insufficient tree cover and green spaces. |  |   | Plant new trees as follows:* <ul style="list-style-type: none"> <li>130,000 trees by 2030</li> <li>200,000 trees by 2035</li> <li>270,000 trees by 2045</li> </ul> Develop an Urban Forest Management Plan.<br><br>* The performance objectives provided here serve as a general metric and may be refined upon completion of the Urban Forest Management Plan. |   |                                |        |   |
| A3.1            | Create and implement an equitable Urban Forest Management Plan that prioritizes: (1) tree- and parks-poor communities; (2) climate- and watershed-appropriate and drought/pest-resistant vegetation; (3) appropriate watering, maintenance, and disposal practices; (4) provision of shade; and (5) biodiversity.                                    | CSO  | DRP, PW, Parks, Agricultural Commissioner/Weights and Measures, DPH, Beaches and Harbors, LASD, Fire, CAL FIRE, ISD |   | <ul style="list-style-type: none"> <li>Tree count</li> <li>Tree canopy cover</li> <li>Green space area</li> <li>Area of impervious surface converted</li> <li>Neighborhood selection criteria</li> </ul>  | Short to long term (2024–2045) | \$\$   | New funds needed; CAL FIRE Urban and Community Forestry Grant |
| A3.2            | Expand tree planting on County property and in the public right-of-way within unincorporated Los Angeles County. Encourage tree planting on private property.  | CSO  | DRP, PW, Parks, DPH, Beaches and Harbors, LASD, Fire, CAL FIRE, ISD   |   | <ul style="list-style-type: none"> <li>Number of trees planted</li> <li>Acres of tree canopy cover</li> </ul>   | Short to long term (2024–2045) | \$\$   | CAL FIRE Urban and Community Forestry Grant                   |
| A3.3            | Develop an ordinance requiring that all removed native trees be replaced by an equal or greater number of new trees.   | CSO  | DRP, PW, Parks  |   | <ul style="list-style-type: none"> <li>Number of trees planted/replaced</li> </ul>  | Short term (2024–2030)         | \$     | TBD   |

Abbreviations: AB = Assembly Bill; Beaches and Harbors = Los Angeles County Department of Beaches & Harbors; Btu = British thermal units; BUILD = Building Initiative for Low Emissions Development; CAL FIRE = California Department of Forestry and Fire Protection; CalCAP = California Capital Access Program; CALeVIP = California Electric Vehicle Infrastructure Project; CALGreen = California Green Building Standards; CalRecycle = California Department of Resources Recycling and Recovery; Caltrans = California Department of Transportation; CARB = California Air Resources Board; CCS = capture and carbon and sequestration; CDFG = California Department of Food and Agriculture; CEC = California Energy Commission; CIFIA = Carbon Dioxide Transportation Infrastructure Finance and Innovation; County = County of Los Angeles government; CPA = Clean Power Alliance; CPUC = California Public Utilities Commission; CSO = Chief Sustainability Office; DOC = California Department of Conservation; DOE = U.S. Department of Energy; DPH = Department of Public Health; DRP = Department of Regional Planning; DU = dwelling unit; EV = electric vehicle; EVCS = electric vehicle charging station; EVSE = electric vehicle supply equipment; Fire = Los Angeles County Fire Department; Food DROP = Food Donation & Recovery Outreach Program; GHG = greenhouse gas; GPCD = gallons per capita per day; GWP = global warming potential; HQTA = high quality transit area; ISD = Internal Services Department; kBtu = thousand British thermal units; kW = kilowatts; LA100 = The Los Angeles 100% Renewable Energy Study; LACDA = Los Angeles County Development Authority; LACSD = Los Angeles County Sanitation Districts; LASD = Los Angeles County Sheriff’s Department; LEAP = Local Early Action Planning; LEED = Leadership in Energy and Environmental Design; Metro = Los Angeles County Metropolitan Transportation Authority; MSRC = Mobile Source Air Pollution Reduction Review Committee; MW = megawatts; MWD = Metropolitan Water District of Southern California; MWh = megawatt-hours; NG = natural gas; NOx = oxides of nitrogen; NRDC = Natural Resources Defense Council; Parks = Los Angeles County Department of Parks and Recreation; PV = photovoltaic; PW = Department of Public Works; SASH = Single-Family Affordable Solar Homes; SB = Senate Bill; SCAG = Southern California Association of Governments; SCAQMD = South Coast Air Quality Management District; SCE = Southern California Edison; SEA = Significant Ecological Area; SoCalGas = Southern California Gas Company; SoCalRen = Southern California Regional Energy Network; SOON = Surplus Off-Road Opt-In for NOx; TBD = to be determined; TDM = transportation demand management; TECH = Technology and Equipment for Clean Heating; TIP = Transportation Improvement Program; U.S. EPA = U.S. Environmental Protection Agency; USDA = U.S. Department of Agriculture; VMT = vehicle miles traveled; WDACS = County Workforce Development, Aging and Community Services; ZEV = zero-emission vehicle