



Mobility Working Group Agenda

Thursday, January 9, 2025

9:30 a.m.

Welcome to SANDAG. The Mobility Working Group meeting scheduled for Thursday, January 9, 2025, will be held in person in the SANDAG Board Room. While Mobility Working Group members will attend in person, members of the public will have the option of participating either in person or virtually.

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Vision Statement: *Pursuing a brighter future for all*

Mission Statement: *We are the regional agency that connects people, places, and innovative ideas by implementing solutions with our unique and diverse communities.*

Our Commitment to Equity: *We hold ourselves accountable to the communities we serve. We acknowledge we have much to learn and much to change; and we firmly uphold equity and inclusion for every person in the San Diego region. This includes historically underserved, systemically marginalized groups impacted by actions and inactions at all levels of our government and society.*

We have an obligation to eliminate disparities and ensure that safe, healthy, accessible, and inclusive opportunities are available to everyone. The SANDAG equity action plan will inform how we plan, prioritize, fund, and build projects and programs; frame how we work with our communities; define how we recruit and develop our employees; guide our efforts to conduct unbiased research and interpret data; and set expectations for companies and stakeholders that work with us.

We are committed to creating a San Diego region where every person who visits, works, and lives can thrive.



Mobility Working Group

Thursday, January 9, 2025

Comments and Communications

1. Non-Agenda Public Comments/Member Comments

Members of the public shall have the opportunity to address the Mobility Working Group on any issue within the jurisdiction of the Mobility Working Group that is not on this agenda. Public speakers are limited to three minutes or less per person. Public comments under this agenda item will be limited to five public speakers. If the number of public comments under this agenda item exceeds five, additional public comments will be taken at the end of the agenda. Mobility Working Group members and SANDAG staff also may present brief updates and announcements under this agenda item.

Consent

+2. Approval of Meeting Minutes

Cecily Taylor, SANDAG

Approve

The Mobility Working Group is asked to approve the minutes from its Thursday, December 12, 2024, meeting.

[Meeting Minutes.pdf](#)

Reports

+3. Regional Climate Action Planning Updates

Anna Bettis, Natasha Dulik, Samaya Elder, SANDAG

Discussion

Staff will present an update on development of a long-term vision for climate action in the region and seek feedback on draft greenhouse gas reduction measures.

[Regional Climate Action Planning.pdf](#)

[Att. 1 - Draft GHG Reduction Measures.pdf](#)

[Presentation.pdf](#)

4. Harbor Drive 2.0 and Vesta Street Bridge Port Access Improvements

Andrea Hoff, SANDAG; Maggie Nunez, Caltrans

Information

Staff from SANDAG and Caltrans will present an update on the Harbor Drive 2.0/Vesta Street Bridge Project, including funding, status, and components.

[Presentation.pdf](#)

Adjournment

5. Adjournment

The next Mobility Working Group meeting is scheduled for Friday, February 13, 2025, at 9:30 a.m.

+ next to an agenda item indicates an attachment

January 9, 2025

December 12, 2024, Meeting Minutes

[View Meeting Video](#)

Chair Jose Rodriguez (National City) called the meeting of the Mobility Working Group (MOBWG) to order at 9:35 a.m.

1. Non-Agenda Public Comments/Member Comments

Public Comments: None

Member Comments: Mo Sammak (Solana Beach), Chair Jose Rodriguez (National City).

Consent

2. Approval of Meeting Minutes

The MOBWG was asked to approve the minutes from its November 14, 2024, meeting.

Public Comments: None.

Action: Upon a motion by Mo Sammak and a second by Tracy Beach (Poway), the MOBWG voted to approve the Consent Agenda.

The motion passed.

Yes: Nathan Schmidt (Carlsbad), Patrick Moneda (Chula Vista), Jasmine Bridges (Coronado), Mario Sanchez (El Cajon), Evan Jedynak (Encinitas), Eric Minicilli (Imperial Beach), Ricardo Rodriguez (National City), Teala Cotter (Oceanside), Tracy Beach, Tait Galloway (City of San Diego), Edd Alberto (San Marcos), Minjie Mei (Santee), Mo Sammak, Darra Woods (Vista), Larry Renteria-Luna (Metropolitan Transit System), Katie Persons (North County Transit District), Lisa Madsen (Port of San Diego), and Sjohnna Knack (Airport Authority).

No: None.

Abstain: Abstain: None.

Absent: Del Mar, Escondido, Encinitas, La Mesa, Lemon Grove, and County.

Reports

3. Annual Public Transit Report

Deputy Director of Regional Planning Jennifer Williamson presented an update on the Annual Public Transit Report and requested input and guidance for FY 2025's report.

Public Comments: None.

Action: Discussion.

4. Vision Zero Action Plan Updates and Performance Measure 1 Safety Targets

Senior Regional Planner Samuel Sanford and Associate Regional Planner Jacqueline Sisk presented updates on the Vision Zero Action Plan and Performance Measure 1 Safety Targets.

Public Comments: None

Action: Discussion.

5. San Ysidro Mobility Hub and Blue Line Transit-Oriented Development Project Update

Associate Regional Planners Zach Hernandez and Lizzy Havey presented an overview of the work completed to date for the San Ysidro Mobility Hub and Blue Line Transit-Oriented Development Studies.

Public Comments: None

Action: Information

6. Planning and Design for the Six Next Gen Rapid Routes

A Deputy Director of Regional Planning Jennifer Williamson and Senior Regional Planner Mimi Morisaki presented an overview of the initial planning for six new Rapid routes.

Public Comments: Kathryn Rhodes

Action: Information

7. Adjournment

The next MOBWG meeting is scheduled for Thursday, January 9, 2025, at 9:30 a.m.

Chair Rodriguez adjourned the meeting at 11:15 a.m.

Confirmed Attendance at Mobility Working Group Meeting

Jurisdiction	Name	Attended
City of Carlsbad	Tom Frank	No
	Nathan Schmidt	Yes
City of Chula Vista	William Valle	No
	Eddie Flores	No
	Patrick Moneda	Yes
City of Coronado	Tricia Olsen	No
	Richard Gunrow	No
	Jasmine Bridges	Yes
City of Del Mar	Joe Bride	No
	Karen Brindley	No
City of El Cajon	Yazmin Arrellano	No
	Mario Sanchez	Yes
	Olga Reyes	No
City of Encinitas	Abe Bandegan	No
	Evan Jedynak	Yes
City of Escondido	Jonathan Schauble	No
	Owen Tunnell	No
City of Imperial Beach	Eric Minicilli	Yes
	Reyna Ayala	No
	Carol Seabury	No
City of La Mesa	Michael Thorne	No
	Vacant	n/a
City of Lemon Grove	Vacant	n/a
	Vacant	n/a
City of National City	Steve Manganiello	No
	Luca Zappiello	No
	Ricardo Rodriguez	Yes
City of Oceanside	Teala Cotter	Yes
	Tam Tran	No
City of Poway	Tracy Beach	Yes
	Andrea Thomas	No
	Alex Ubaldo	No
City of San Diego	Bethany Bezak	No
	Heather Werner	No
	Tait Galloway	Yes
	Heidi Vonblum	No
City of San Marcos	Stephanie Kellar	No
	Kryenne Chua	No
	Isaac Etchamendy	No
	Damian Schoencke	No
	Ed Alberto	Yes
City of Santee	Minjie Mei	Yes
	Carl Schmitz	No
City of Solana Beach	Mo Sammak	Yes
	Dan Goldberg	No
	Jim Greenstein	No

City of Vista	Greg Mayer	No
	Husam Hasenin	No
	Darra Woods	Yes
County of San Diego	William Morgan	No
	Tara Lieberman	No
	Michael Kenny	No
North County Transit District	Katie Persons	Yes
	Lilian Doherty	No
	Mary Dover	No
Metropolitan Transit System	Larry Renteria-Luna	Yes
	Beverly Neff	No
Port of San Diego	Lisa Madsen	No
	Anna Buzaitis	Yes
Airport Authority	Ted Anasis	No
	Sjohnna Knack	Yes
Advisory Members	Name	Attended
Caltrans	Ann Fox	No
	Karen Jewel	No
	Roy Abboud	Yes
DOD	Muska Laiq	No
	Lorena Cordova	No
SoCal Tribal	Vacant	n/a
	Vacant	n/a
FACT	Arun Prem	No
	Sofia Hughes	Yes
	Ali Poorman	No
	Christian Hernandez	No
Non-Voting Member		
Chair	Jose Rodriguez	Yes

January 9, 2025

Regional Climate Action Planning Updates

Overview

In September 2023, the Board of Directors accepted a \$1 million planning grant from the U.S. Environmental Protection Agency's (EPA) Climate Pollution Reduction Grant (CPRG) program to develop a near-term regional climate plan and a long-term vision for climate action. The Priority Climate Action Plan (PCAP) was completed in March 2024 and identifies ways to reduce greenhouse gas (GHG) emissions from transportation, buildings, and energy by 2030. The regional Climate Action Roadmap will serve as a comprehensive vision for reducing GHGs across all sectors in the region through 2050, focusing on the benefits to environmental justice communities. This Roadmap is being developed in coordination with the 2025 Regional Plan.

Action: **Discussion**

Staff will present an update on development of a long-term vision for climate action in the region and seek feedback on draft greenhouse gas reduction measures.

Fiscal Impact:

This project is funded through a U.S. Environmental Protection Agency (EPA) planning grant under Overall Work Program Project No. 3202000.

Schedule/Scope Impact:

The climate roadmap is due to EPA December 1, 2025.

Key Considerations

The Roadmap will include a new regional GHG inventory, GHG projections to 2050, and analyses of workforce needs, benefits to environmental justice communities, and reductions in air pollutants. It will also identify GHG reduction measures across multiple sectors. To develop the measures, staff is undertaking robust community outreach, research, and technical engagement with climate practitioners. SANDAG kicked off the Roadmap by hosting a regional Climate Table workshop in July to hear from local governments, public agencies, community-based organizations (CBOs), environmental groups, and others on their priorities for reducing emissions. Staff incorporated input from the workshop and priorities from existing local climate action plans into an initial list of draft measures, which was shared with climate practitioners through a series of technical meetings in October 2024 to incorporate additional feedback.

Attachment 1 shows the current list of draft measures to reduce GHG emissions from seven sectors: transportation, electricity, commercial and residential buildings, natural and working lands, waste and materials management, agriculture, and industry. Each measure, objective, and supporting action is detailed in the attachment.

Next Steps

Staff will continue to refine the measures with feedback from additional outreach through CBO partners, SANDAG working groups and committees, Climate Table Workshops, interagency meetings with staff from local governments, regional agencies, and tribal governments, and a public survey in early 2025. The GHG reduction measures will be finalized next quarter, and the draft regional GHG inventory is to be completed in spring 2025. As the Roadmap components are drafted, staff will return to provide updates and seek feedback. The Roadmap report will be completed by December 2025.

Keith Greer, Deputy Director of Environmental Compliance and Climate

Attachment: 1. Draft GHG Reduction Measures for the San Diego Regional Climate Action Roadmap

DISCLAIMER: The statements, measures, and/or calculations in this document are preliminary and subject to change. This document was developed to facilitate discussion in the early stages of SANDAG staff's process for developing climate measures as part of the EPA CPRG program.

Draft GHG Reduction Measures for the San Diego Regional Climate Action Roadmap

January 2025



The San Diego Regional Climate Action Roadmap (Roadmap) will provide a regional vision to support regional collaboration to combat climate change. It builds on existing climate action planning efforts and identifies measures to reduce greenhouse gases (GHG) emissions through 2050. This project is part of a national effort by the EPA to address climate pollution, with grants covering 96% of the U.S. population. It is being developed with support from the University of San Diego (USD) Energy Policy Initiatives Center (EPIC) and through collaboration with local governments, tribal governments, community-based organizations, environmental groups, and others. Below are the initial draft GHG reduction measures by sector, which staff are seeking input on from the Mobility Working Group **by January 30, 2025**. Please email feedback to ClimateTeam@sandag.org.

DISCLAIMER: The statements, measures, and/or calculations in this document are preliminary and subject to change. This document was developed to facilitate discussion in the early stages of SANDAG staff's process for developing climate measures as part of the EPA CPRG program.

Transportation	
Measure T.1 Reduce vehicle miles traveled (VMT) through increased public transit use	
Objectives	T-1.1 Increase transit ridership
	T-1.2 Add bus rapid transit (BRT) service
	T-1.3 Increase frequency and span of service of existing routes
	T-1.4 Expand trolley/light rail service
Supporting Actions	<ul style="list-style-type: none"> a. Plan and implement BRT routes that prioritize faster mobility, especially for low-income and disadvantaged communities, and other areas with limited transit access b. Advance the Purple Line project c. Encourage transit use through programs such as Youth Opportunity Pass and Try Transit, and explore additional incentives for Low-Income and Disadvantaged Communities (LIDACs) d. Identify opportunities to improve transit stop amenities, such as installation of shade, seating, lighting, Wi-Fi, and restrooms, focusing on safety and accessibility e. Increase frequency of transit services f. Identify and plan double tracking of rail corridors and grade separations throughout rail system g. Plan and implement a regional airport transit connector for San Diego International Airport and explore transit connections to Tijuana Cross Border Xpress h. Expand bus priority features
Authority to Implement	Agencies such as SANDAG, MTS, and NCTD

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Transportation	
Measure T.2 Reduce VMT through active transportation	
Objectives	T-2.1 Build and/or improve bikeways to expand safe and accessible routes
	T-2.2 Build and/or improve sidewalks to expand safe and accessible routes
Supporting Actions	<ul style="list-style-type: none"> a) Advance the early action projects in the Regional Active Transportation Plan b) Continue the Active Transportation Grant Program to fund construction of protected bikeways, focusing on LIDACs c) Implement Safe Routes to Schools projects d) Implement Complete Streets projects across the region e) Implement Vision Zero Action Plan safety countermeasures f) Develop and/or expand incentive programs for bikes and e-bikes g) Increase bicycle parking h) Expand signal prioritization for cyclists and pedestrians i) Conduct outreach and education on active transportation to stakeholders including students
Authority to Implement	Agencies and organizations such as SANDAG and local jurisdictions

Transportation	
Measure T.3 Reduce VMT through expansion of Flexible Fleets	
Objectives	T-3.1 Increase micromobility, such as electric scooters, bikeshare, and e-bikes
	T-3.2 Increase microtransit, including neighborhood electric vehicles (NEVs)
	T-3.3 Increase rideshare, including vanpools
Supporting Actions	<ul style="list-style-type: none"> a) Expand and implement flexible fleet services throughout the region, prioritizing LIDACs and Transit Priority Areas b) Expand first/last mile connections to transit c) Explore opportunities for bike share programs
Authority to Implement	Agencies and organizations such as SANDAG, local jurisdictions, and transportation network companies

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Transportation	
Measure T.4 Reduce VMT through Transportation Demand Management (TDM)	
Objectives	T-4.1 Reduce single-occupancy vehicle commuter trips through TDM strategies
Supporting Actions	<ul style="list-style-type: none"> a) Support and increase participation in regional rideshare and vanpool programs b) Expand Sustainable Transportation Services programs c) Support telework throughout the region d) Conduct outreach and education on TDM strategies and programs
Authority to Implement	Agencies and organizations such as SANDAG, local jurisdictions, and employers/businesses

Transportation	
Measure T.5 Increase adoption of zero-emission vehicles (ZEVs)	
Objectives	T-5.1 Increase the light-duty ZEV population
	T-5.2 Increase medium- and heavy-duty ZEV population
	T-5.3 Install charging and refueling infrastructure for light-duty ZEVs
	T-5.4 Install charging and refueling infrastructure for medium- and heavy-duty ZEVs
	T-5.5 Convert passenger rail cars to ZEV
Supporting Actions	<ul style="list-style-type: none"> a) Implement and/or expand an incentive program for light-duty ZEVs with an emphasis on LIDACs b) Implement and/or expand an incentive program for medium- and heavy-duty ZEVs, including trucks, transit buses, school buses, and rail c) Support fleet electrification for municipalities, tribal governments, and public agencies through technical assistance d) Develop and implement regional programs to install ZEV charging and refueling infrastructure for light-duty vehicles, including multifamily properties e) Develop and implement regional programs to install charging and refueling infrastructure for medium- and heavy-duty vehicles f) Coordinate with rideshare providers like transportation network companies (TNCs) and vanpool operators on electrification efforts g) Support Incentivize installation of EV charging infrastructure at multifamily properties
Authority to Implement	Federal, state, and local government agencies and utilities such as SANDAG, local jurisdictions, San Diego County Air Pollution Control District (SDAPCD), San Diego Community Power (SDCP), Clean Energy Alliance (CEA), and San Diego Regional Energy Network (SDREN), SDG&E

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Transportation	
Measure T.6 Reduce fuel use from idling	
Objectives	T-6.1 Install roundabouts and/or traffic circles
	T-6.2 Optimize traffic signals
	T-6.3 Implement curb management strategies that reduce idling
Supporting Actions	<ul style="list-style-type: none"> a) Support traffic flow planning and project prioritization that addresses safety for all travel modes b) Identify priority intersections for roundabouts to reduce vehicle idling and improve public safety c) Expand the use of smart intersection signals d) Explore and implement curb management strategies including delivery zones and time of use policies e) Implement ZEV actions outlined in the Sustainable Freight Strategy
Authority to Implement	Agencies such as SANDAG, Caltrans, and local jurisdictions

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Electricity	
Measure E.1 Decarbonize the regional electric grid	
Objectives	E-1.1 Increase participation in fully renewable electricity options ahead of state mandates
	E-1.2 Increase distributed renewable energy generation
Supporting Actions	<ul style="list-style-type: none"> a) Develop and/or expand residential programs to incentivize rooftop solar and battery storage (single- and multi-family), with a focus on LIDACs b) Develop and/or expand a regional program to incentivize rooftop solar and battery storage for commercial buildings, with a focus in LIDACs c) Develop a municipal program to support local government, tribal government, and public agency solar and battery storage projects d) Develop and/or expand a regional program to incentivize community solar and microgrids with a focus on renters, LIDACs, and rural areas e) Identify opportunities to expand utility-scale renewable energy options including solar, wind, and geothermal installations. f) Identify opportunities to streamline siting and permitting of clean energy projects g) Identify grid constraints to increase capacity of the distribution system h) Conduct outreach and education on distributed energy programs i) Expand local workforce development training for the installation and maintenance of distributed energy projects
Authority to Implement	Agencies and utilities such as local jurisdictions, SDGP, CEA, SDREN, and SDG&E

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Buildings	
Measure B.1 Increase energy efficiency of buildings	
Objectives	B-1.1 Increase energy efficiency of municipal buildings
	B-1.2 Increase energy efficiency of residential buildings
	B-1.3 Increase energy efficiency of non-residential buildings
Supporting Actions	<ul style="list-style-type: none"> a) Implement regional municipal energy efficiency programs for local government, tribal government, and public agency sites. b) Implement regional residential energy efficiency programs that prioritize program offerings and technical assistance with LIDACs, rental sites, and rural communities c) Implement regional non-residential energy efficiency programs that prioritize program offerings and technical assistance in LIDACs d) Develop a model reach code or ordinance that reduces energy use intensity of existing buildings e) Expand adoption of municipal procurement policies that encourage energy efficiency f) Develop workforce training on energy efficient equipment and infrastructure g) Conduct outreach for renters, owners, and building managers to increase participation in energy efficiency programs
Authority to Implement	Agencies such as SDG&E, SDCP, CEA, SDREN, and local jurisdictions

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Buildings	
Measure B.2 Increase electrification of buildings	
Objectives	B-2.1 Electrify municipal buildings
	B-2.2 Electrify residential buildings
	B-2.3 Electrify nonresidential buildings
Supporting Actions	<ul style="list-style-type: none"> a) Develop and implement a regional program to provide technical assistance and financial incentives to replace municipal appliances such as gas water heaters, boilers, and traditional HVAC systems with heat pumps and other advanced electrification technologies b) Develop and implement a regional program to provide technical assistance and financial incentives to replace residential appliances such as gas water heaters, stoves, and traditional HVAC systems with residential heat pump technologies, with an emphasis on LIDACs c) Develop and implement a regional program to provide technical assistance and financial incentives to replace nonresidential appliances such as gas water heaters and traditional HVAC systems with heat pump water technologies, with an emphasis on LIDACs d) Develop model reach code or ordinance that requires all-electric equipment in new residential, commercial, and industrial buildings e) Develop an energy benchmarking program and performance standards for existing buildings f) Develop a regional building stock assessment to help target building electrification programs g) Research and identify opportunities to establish indoor NO_x limits for appliances
Authority to Implement	Agencies such as SDG&E, SDCP, CEA, SDREN, SDAPCD, and local jurisdictions

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Natural & Working Lands	
Measure NWL.1 Conserve marine and wetland ecosystems	
Objectives	NWL-1.1 Preserve and restore wetlands, including lagoons, estuaries, and salt marshes
	NWL-1.2 Preserve and restore kelp forests and eelgrass beds
Supporting Actions	<ul style="list-style-type: none"> a) Implement regional programs that ensure coastal wetland habitats can keep pace with future sea level rise and flooding, such as restoration done under the <i>TransNet</i> Environmental Mitigation Program b) Implement regional programs to remove invasive plants, including long-term maintenance and planting native species to advance the <u>Invasive Plant Strategic Plan</u> c) Construct living shorelines, which are protected, stabilized shorelines constructed with natural materials and native dune plants through programs such as the <i>TransNet</i> Environmental Mitigation Program d) Implement the Multiple Species Conservation Program and Multiple Habitat Conservation Program e) Partner with tribal governments to incorporate and apply indigenous land management practices to contribute towards habitat restoration efforts in marine and wetland ecosystems f) Expand regional programs that protect and restore seagrass and kelp forests in the face of changing ocean conditions g) Expand regional programs that protect and restore rivers and streams that feed into the riparian areas and ocean h) Identify opportunities to streamline permitting to restore lands
Authority to Implement	Government agencies such as SANDAG, Port of San Diego, other regional agencies, local jurisdictions, federal and state agencies

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Natural & Working Lands	
Measure NWL.2 Conserve forest, shrublands, and chaparral ecosystems	
Objectives	NWL-2.1 Preserve and restore forest ecosystems
	NWL-2.2 Preserve existing shrublands and chaparral systems from development and conversion
	NWL-2.3 Restore degraded shrubland and chaparral systems that will increase connectivity, enhance system resilience, and reduce the permanent loss of carbon on the landscape
Supporting Actions	<ul style="list-style-type: none"> a) Implement regional programs that protect and restore forest, shrubland, and chaparral ecosystems, including restoration efforts in areas recovering from severe wildfires, through programs such as the TransNet Environmental Mitigation Program b) Remove invasive plants to advance the Invasive Plant Strategic Plan, maintain and plant native species, and expand the capacity of nurseries and native seed banks to increase the quantity and variety of seedlings available to be used in restoration through programs such as the TransNet Environmental Mitigation Program c) Implement the Multiple Species Conservation Program and Multiple Habitat Conservation Program d) Support the acquisition of open space easements in high-sequestration land bodies e) Implement climate smart management of lands, particularly near communities and transportation infrastructure, through efforts such as the development of buffer zones to reduce wildfire risks, prevent carbon loss, and increase resilience f) Partner with tribal governments to incorporate and apply indigenous land management practices to contribute towards habitat restoration efforts in forest, shrublands, and chaparral ecosystems g) Expand workforce development programs for reforestation and wildfire recovery h) Identify opportunities to streamline permitting to restore lands
Authority to Implement	Government agencies such as SANDAG, other regional agencies, local jurisdictions, state agencies, and federal agencies

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Natural & Working Lands	
Measure NWL.3 Increase urban canopy cover	
Objectives	NWL-3.1 Increase urban tree canopy cover, prioritizing LIDACs
	NWL-3.2 Increase urban green space in communities, prioritizing LIDACs
Supporting Actions	<ul style="list-style-type: none"> a) Promote the use of native, climate-appropriate, and low water use trees and shrubs in landscaping b) Develop a regional urban forestry management plan and conduct a regional inventory to assess urban canopy cover every 5 years c) Expand regional tree planting efforts prioritizing LIDACs d) Expand the use of nature-based climate solutions, such as trees and green stormwater infrastructure in new and existing community infrastructure investments e) Increase water reuse and rainwater harvesting for urban green spaces
Authority to Implement	Government agencies such as local jurisdictions

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Waste & Materials Management	
Measure WMM.1 Divert waste from landfills	
Objectives	WMM-1.1 Divert organic waste from landfill
	WMM-1.2 Increase food recovery
	WMM-1.3 Divert solid waste and construction & demolition waste from landfill
Supporting Actions	<ul style="list-style-type: none"> a) Conduct a regional waste audit every 5 years to track progress b) Develop a regional assessment of current participation in organic waste collection services and the effectiveness of outreach strategies c) Develop community composting and organic waste collection programs and targeted outreach to businesses, schools, LIDACs, etc. d) Identify opportunities for organic waste collection services to provide compost to community gardens in LIDACs e) Support and expand food recovery organizations and programs f) Minimize waste generation by strengthening the circular economy through programs such as fix-it clinics g) Expand and implement deconstruction programs to increase the reuse of reclaimed building materials h) Develop and implement regional workforce training and education programs on deconstruction as an alternative to demolition i) Develop pilot projects for end markets for deconstructed materials
Authority to Implement	Government agencies such as local jurisdictions

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Waste & Materials Management	
Measure WMM.2 Reduce landfill emissions through increased methane capture	
Objectives	WMM-2.1 Expand and implement methane capture at landfills
Supporting Actions	<ul style="list-style-type: none"> a) Expand programs for methane capture at regional landfills (operating & non-operating), including development of new of anaerobic digestion facilities b) Conduct field testing and reporting of landfill methane capture rates
Authority to Implement	Agencies and organizations such as SDAPCD and landfill operators

Waste & Materials Management	
Measure WMM.3 Reduce emissions from water and wastewater treatment facilities and operations	
Objectives	WMM-3.1 Expand and implement methane capture at wastewater treatment facilities
	WMM-3.2 Increase energy efficiency of processes to treat and distribute water
Supporting Actions	<ul style="list-style-type: none"> a) Expand programs for methane capture at regional wastewater treatment facilities, including the use of anaerobic digestors b) Conduct field testing and reporting of wastewater methane capture rates c) Implement water and wastewater recovery projects to reduce emissions associated with treating and storing wastewater
Authority to Implement	Agencies and organizations such as local jurisdictions, water districts, and water and wastewater facilities operators

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Agriculture	
Measure AG.1 Reduce emissions from agricultural operations	
Objectives	AG-1.1 Transition agricultural operations to cleaner fuels and energy sources
	AG-1.2 Increase energy efficiency of agricultural machinery and farm equipment
Supporting Actions	<ul style="list-style-type: none"> a) Implement a regional program to incentivize the replacement of diesel-powered farm equipment with electric equipment and energy-efficient alternatives b) Identify opportunities to expand the use of clean energy in agricultural operations such as agrivoltaics, distributed energy resources, and energy buy-back programs for farmers
Authority to Implement	Agencies and organizations such as SDAPCD, SDG&E, SDCP, CEA and local jurisdictions

Agriculture	
Measure AG.2 Expand urban farming in the region	
Objectives	AG-2.1 Increase land use for urban farming
Supporting Actions	<ul style="list-style-type: none"> a) Encourage the expansion of urban farming in new and existing developments through activities such as updating zoning laws or amending city general plans b) Develop a regional assessment to identify sites for the creation of community gardens, including in locations accessible to the community such as public parks, schools, municipal buildings, and community centers, with an emphasis on LIDACs c) Provide education and resources to support the creation and maintenance of community gardens, including resources for schools and communities d) Expand efforts to promote purchasing from local agricultural businesses, including urban farms and community gardens
Authority to Implement	Government agencies such as local jurisdictions

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Agriculture	
Measure AG.3 Conserve agricultural land	
Objectives	AG-3.1 Preserve agricultural land in the region
Supporting Actions	<ul style="list-style-type: none"> a) Support the voluntary dedication of agriculture conservation easements and other actions that preserve agricultural lands, such as Williamson Act contracts and agricultural zoning b) Conduct regional outreach and engagement with farmers to identify opportunities to support them in preserving agricultural land
Authority to Implement	Government agencies such as local jurisdictions

Agriculture	
Measure AG.4 Manage soil health to sequester carbon	
Objectives	AG-4.1 Improve soil management practices on agricultural lands
Supporting Actions	<ul style="list-style-type: none"> a) Develop regional programs to encourage the use of regenerative agricultural practices, including carbon farming b) Research options to incentivize the reduction of the use of synthetic fertilizers on agricultural lands in the region
Authority to Implement	Government agencies such as local jurisdictions and USDA

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Industry	
Measure IND.1 Reduce fugitive and short-lived climate pollutants (SLCP) emissions	
Objectives	IND-1.1 Reduce fugitive and process emissions
	IND-1.2 Reduce high global warming potential (GWP) refrigerant use
Supporting Actions	<ul style="list-style-type: none"> a) Utilize best available retrofit control technology (BARCT) to achieve air quality and GHG reductions at large industrial sources b) Develop an incentive program to expedite installation of low-GWP refrigeration systems in retail food stores
Authority to Implement	Regulatory agencies such as SDAPCD, state and federal agencies

Industry	
Measure IND.2 Reduce energy intensity of industrial facilities	
Objectives	IND-2.1 Increase industrial energy efficiency
	IND-2.2 Increase distributed energy resources (renewable or alternative fuel use) in industrial facilities
Supporting Actions	<ul style="list-style-type: none"> a) Develop a regional model ordinance and resources for local governments to adopt and implement requirements to use electric-powered or alternatively-fueled construction equipment that reduces 50% of emissions from project construction activities b) Evaluate the potential for, and promotion of, electrification and/or co-generation with renewable fuels, for industrial stationary sources whose primary emissions are from onsite natural gas combustion c) Support electrification of industrial sites through updates to industrial rate structures
Authority to Implement	Agencies and utilities such as SDAPCD, SDCP, CEA, and SDG&E



Regional Climate Action Planning

US EPA's Climate Pollution Reduction Grant (CPRG) Program

Mobility Working Group
Anna Bettis, Senior Regional Planner
Natasha Dulik, Associate Regional Planner
Samaya Elder, Associate Regional Planner
January 9, 2025

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Agenda



EPA Grant Overview



Regional Climate
Action Roadmap



Measure Development



Draft GHG Reduction
Measures



Next Steps

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EPA Grant Deliverables

1 grant,
3 deliverables, over
4 years

1. Priority Climate Action Plan (PCAP)

- Completed March 1, 2024
- Near-term, implementation-ready programs and projects to reduce greenhouse gas (GHG) emissions by 2030

2. Regional Climate Action Roadmap

- Due December 1, 2025
- Comprehensive regional vision for climate action through 2050
- Near- and long-term GHG reduction goals and strategies
- Developing in coordination with SANDAG's 2025 Regional Plan

3. Status Report

- Due in 2027
- Progress and next steps for key metrics

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The Regional Climate Action Roadmap

- Long term vision for combatting climate change and supporting regional collaboration
- Includes a new regional GHG inventory
- GHG projections to 2050
- Emissions reduction targets
- Measures and actions for the region to reduce climate pollution by 2035 and 2050 for the 7 sectors shown on the right
- Benefits Analyses for
 - Environmental justice communities
 - Reduction of air pollutants
 - Workforce development



Transportation



Electricity



Commercial & Residential Buildings



Natural & Working Lands



Waste & Materials Management



Agriculture



Industry

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Measure Development Process to Date

Climate Table – July

Gather input for GHG reduction measures from local governments, public agencies, community-based organizations (CBOs), environmental groups, and others

Technical Stakeholder Meetings – October

Solicit feedback on the initial draft measures

Interagency Meetings – Ongoing

Seek feedback on GHG reduction measures and approach

CBO Partnerships – Ongoing

Asking the community which types of GHG reduction measures to prioritize

Other Engagement – Ongoing

Hear from stakeholder groups, community events, and SANDAG working groups and committees

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Draft GHG Reduction Measures

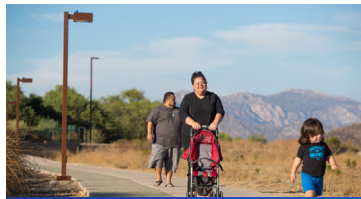
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6

Transportation



Increase public transit use



Expand active transportation



Expand Flexible Fleets



Reduce VMT through Transportation Demand Management



Increase adoption of zero-emission vehicles (ZEVs)



Reduce fuel use from idling

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Electricity + Buildings



Decarbonize the regional electric grid



Increase electrification of buildings



Increase energy efficiency of buildings

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Natural & Working Lands + Waste & Materials Management



Conserve marine and wetland ecosystems



Conserve forest, shrublands, and chaparral ecosystems



Increase urban canopy cover



Divert waste from landfills



Increase methane capture from landfills

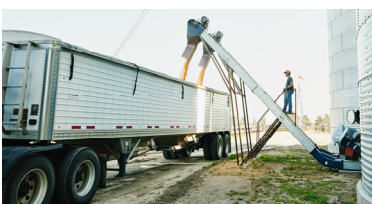


Reduce emissions from water and wastewater treatment

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Agriculture + Industry



Reduce agricultural operations emissions



Conserve agricultural lands



Reduce energy intensity of industrial facilities



Expand urban farming in the region



Manage soil health to sequester carbon



Reduce fugitive and short-lived climate pollutants and emissions

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Next Steps

- Continue refining GHG reduction measures and actions this winter
- Quantify GHG emissions reductions
- Host Climate Table in February 2025
- Release public survey in early 2025
- Complete regional GHG inventory this spring
- Publish draft Roadmap & host Climate Table in summer 2025



Breakout session at the Climate Table
July 2024

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Call to Action

Please review the draft GHG reduction measures and send any questions or comments to ClimateTeam@sandag.org by 1/30/2025!

DISCLAIMER: The statements, measures, and/or calculations in this document are preliminary and subject to change. This document was developed to facilitate discussion in the early stages of SANDAG staff's process for developing Roadmap measures as part of the EPA CRRG program.

Draft GHG Reduction Measures for the San Diego Regional Climate Action Roadmap

January 2025

SANDAG

The San Diego Regional Climate Action Roadmap (Roadmap) provides a regional vision to support regional collaboration among local governments, tribal governments, and regional agencies to combat climate change. It builds on existing climate action planning efforts and identifies long-term measures to reduce greenhouse gases (GHG) emissions through 2050. It is part of a national effort by the EPA to address climate pollution, with plans covering 96% of the U.S. population. It is being developed with the University of San Diego (USD) Energy Policy Initiatives Center (EPIC) and through collaboration with local governments, tribal governments, community-based organizations, environmental groups, and others. The Roadmap will also quantify GHG emissions and air pollutant reductions associated with the measures, identify benefits to low-income and disadvantaged communities (LIDACs), and include key milestones and metrics for success. Below are the initial draft GHG reduction measures, which staff is seeking input on from the Mobility Working Group by January 30, 2025. Please email feedback to ClimateTeam@sandag.org.

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SANDAG.org

🔍 Follow us on social media:
@SANDAGregion @SANDAG

✉ Email: ClimateTeam@sandag.org

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Harbor Drive 2.0 and Vesta Street Bridge Port Access Improvements

*Enhancing Freight and Community Mobility in
San Diego's Working Waterfront*

Mobility Working Group
January 9, 2025

1

Our Working Waterfront



- Barrio Logan, San Diego
- National City
- Port of San Diego Marine Terminals
- Light and heavy rail
- Ship building
- Port tenants
- Naval Base San Diego
- Strategic Military Port
- Regional Economic Engine



2

Project Features



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3

Project Purpose



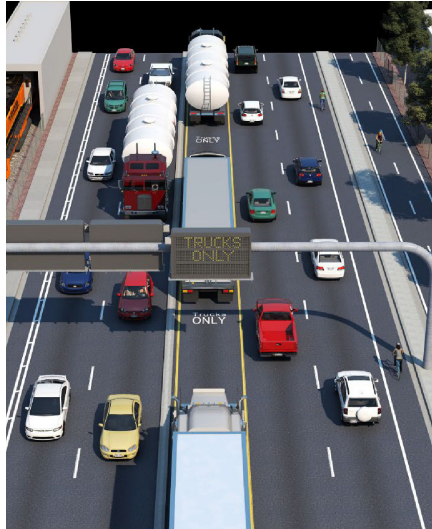
- Improve community safety
- Prioritize safe access to transit and active transportation
- Enhance freight and community mobility between the Working Waterfront, I-5, and SR-15
- Improve mobility and multimodal connectivity for Naval Base Personnel while reducing congestion
- Rehabilitate degraded pavement
- CERP Goal #9 – Implement HD2.0 (2031)

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Harbor Drive 2.0 Elements

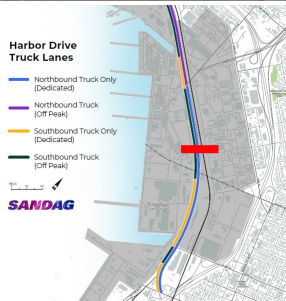
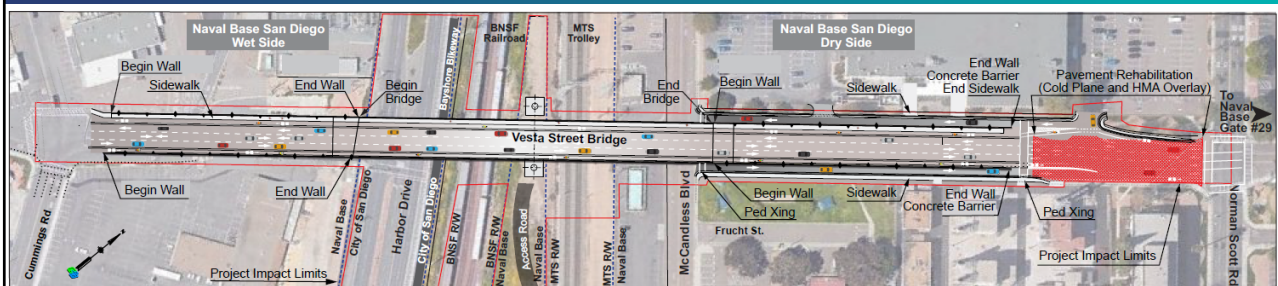
- Truck lanes
 - Dedicated
 - Off-peak
- Freight Signal Priority and freight queue jumps
- Zero Emission Vehicle Charging
- Geofencing, truck reservation system, gate operating system



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Vesta Street Bridge



- Multimodal, including ped and bike
- Managed center lane
- Connects wet and dry sides of NBSD
- Design Lead - Caltrans

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Precast Girder Alternative



4 Span Precast Girder Bridge
125.5 ft, 135.5 ft, 158 ft, 134 ft
span lengths with an anticipated
structure depth of 7.5 ft

Profile: 6.71% (wet) & -6.12%
(dry)

Design Schedule:

Begin Design: 7/2024

Finish Design: 4/2027

Begin Construction: 1/2028



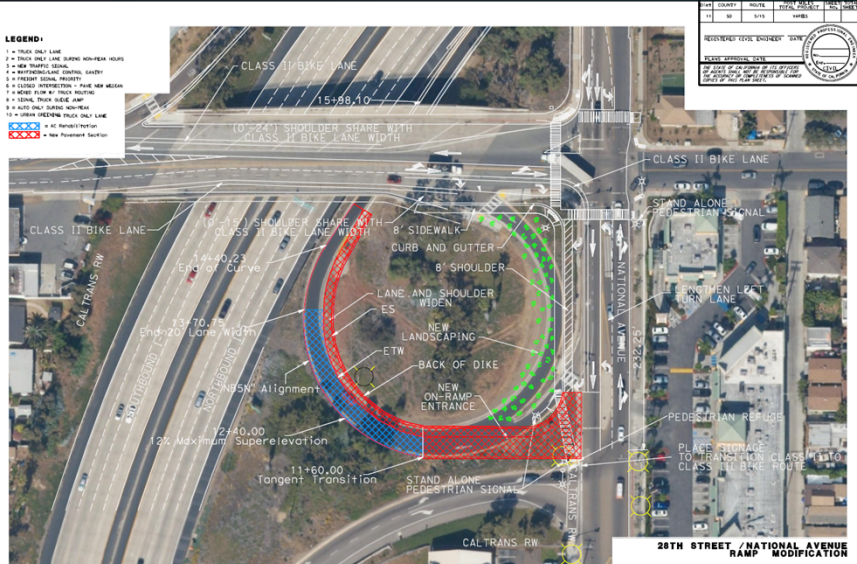
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Widening at SB SR-15 Off-ramp to Main St



8

NB I-5 On-Ramp and 28th/National Ave Ramp Modification



9

Select Pavement Rehabilitation



10

Schedule Look Ahead

Winter 2023

Project Approval and Environmental Document (CEQA)/Environmental Assessment (NEPA)

Summer 2024

Initiate Design Procurements (traffic study, microsimulation, Concept of Operations, ROW expertise)

2026-2028

Select Delivery Method and identify funding for Construction; Begin Construction

Spring 2024

- Allocation of \$18.5M TCEP
- Allocation of \$2.2M match by Port of SD
- Award \$11M Reconnecting Communities

Fall 2024-2026

PDT meetings, iterative design activities, coordinate with other projects, outreach

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Challenges and Opportunities



- Travel times
- Signal timing (Left turns, Railroad/First Responder Preemption, Weaving)
- Gantries (Cost, Placement)
- Coordination (Ongoing projects, Multiple jurisdictions)
- Utility relocations
- Urban greening and beautification
- Improved NBSD gate utilization
- Input from you!

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