



Sustainable Communities Working Group Agenda

Thursday, January 16, 2025

1:30 p.m.

Welcome to SANDAG. The Sustainable Communities Working Group (SCWG) meeting scheduled for Thursday, January 16, 2025, will be held in person in the SANDAG Board Room. While 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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Persons who wish to address the members on an item to be considered at this meeting, or on non-agendized issues, may email comments to the Clerk at clerkoftheboard@sandag.org (please reference SCWG meeting in your subject line and identify the item number(s) to which your comments pertain). Comments received by 4 p.m. the business day before the meeting will be provided to members prior to the meeting. All comments received prior to the close of the meeting will be made part of the meeting record.

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 Бесплатная языковая помощь | Assistência linguística gratuita | मुफ्त भाषा सहायता | Assistance linguistique gratuite |
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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.

Sustainable Communities Working Group

Thursday, January 16, 2025

Comments and Communications

1. Non-Agenda Public Comments/Member Comments

Members of the public shall have the opportunity to address the Sustainable Communities Working Group (SCWG) on any issue within the jurisdiction of SCWG 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. SCWG members and SANDAG staff also may present brief updates and announcements under this agenda item.

Consent

+2. Approval of Meeting Minutes

Francesca Webb, SANDAG

Approve

The SCWG is asked to approve the minutes from its September 19, 2024, meeting.
[Meeting Minutes](#)

+3. Sustainable Communities Working Group 2025 Meeting Calendar

Tuere Fa'aola, SANDAG

Approve

The SCWG is asked to approve the proposed meeting dates for 2025.
[SCWG 2025 Meeting Calendar](#)

Reports

+4. San Ysidro Mobility Hub and Blue Line Transit-Oriented Development (TOD) Project Updates

Zach Hernandez, Lizzy Havey, SANDAG

Information

Staff will present an overview of the work completed to date for the San Ysidro Mobility Hub and Blue Line TOD Studies.

[SYMh and BLTOD Project Updates Presentation](#)

+5. Regional Safety Planning Updates

Samual Sanford, Jacqueline Sisk, SANDAG

Information

Staff will present the final regional Vision Zero Action Plan and supporting safety tools, and regional safety statistics.

[Regional Safety Planning Updates Presentation](#)

+6. Regional Climate Action Planning

Discussion

Anna Bettis, Samaya Elder, and Natasha Dulik, SANDAG

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](#)

[Att. 1 - Draft GHG Reduction Measures for the Regional Climate Action Roadmap Presentation](#)

Adjournment

7. Adjournment

The next SCWG meeting is scheduled for Thursday, March 20, 2025, at 1:30 p.m.

+ next to an agenda item indicates an attachment

January 16, 2025

September 19, 2024, Meeting Minutes

[View Meeting Video](#)

Senior Regional Planner Sara Toma called the meeting of the Sustainable Communities Working Group (SCWG) to order at 1:30 p.m.

1. Public Comment/Communications/ Member Comments

Member Comments: None.

Public Comments: The OriginalDra.

Agency Comments: None.

Consent

2. Approval of Meeting Minutes

The SCWG was asked to approve the minutes from its September 5, 2024, special meeting.

Public Comments: The OriginalDra.

Action: Upon a motion by Joseph Lim (Solana Beach), and a second by Jesse Brown (Coronado), the SCWG voted to approve the Consent Agenda.

The motion passed.

Yes: Robb Efird (Carlsbad), Todd Philips (Chula Vista), Jesse Brown, Rami Talleh (County of San Diego), Amanda Lee (Del Mar), Noah Alvey (El Cajon), Patty Anders (Encinitas), Oscar Romero (Escondido), Lynette Santos (La Mesa), Martin Reader (National City), Sergio Madera (Oceanside), Heidi Vonblum (City of San Diego), Saima Qureshy (San Marcos), Michael Coyne (Santee), and Joseph Lim.

No: None.

Abstain: None.

Absent: Imperial Beach, Lemon Grove, Poway, and Vista.

Reports

3. Regional Housing Needs Allocation Reform: Revised SANDAG Proposed Legislative Principles

Deputy Director of Planning Tuere Fa'aola and Senior Regional Planner Stacey Cooper presented the revised letter outlining the legislative principles. The SCWG was asked to recommend that the Executive Committee submit the letter to the Chairs of the Senate and Assembly Housing Committees.

Public Comments: Cesar Javier and The OriginalDra.

Action: Upon a motion by Martin Reader, and a second by Todd Philips, the SCWG voted to recommend the Executive Committee submit the letter to the Chairs of the Senate and Assembly Housing Committees.

The motion passed.

Yes: Robb Efird, Todd Philips, Jesse Brown, Rami Talleh, Amanda Lee, Noah Alvey, Patty Anders, Oscar Romero, Lynette Santos, Martin Reader, Sergio Madera, Heidi Vonblum, Saima Qureshy, Michael Coyne, and Joseph Lim.

No: None.

Abstain: None.

Absent: Imperial Beach, Lemon Grove, Poway, and Vista.

4. SANDAG's Regional Shoreline Management Program

Deputy Director of Regional Planning Keith Greer and Associate Regional Planner Courtney Becker presented an overview of SANDAG's Regional Shoreline Management Program, its accomplishments, and next steps.

Public Comments: Cesar Javier and The OriginalDra.

Action: Information.

5. Adjournment

The next meeting of the SCWG is scheduled for Thursday, October 17, 2024, at 1:30 p.m.

Sara Toma adjourned the meeting at 2:47 p.m.

Confirmed Attendance at Sustainable Communities Working Group Meeting

Jurisdiction	Name	Attended
Chair (non-voting)	Joy Lyndes	No
	Jeff Murphy	No
City of Carlsbad	Eric Lardy	No
	Robb Efird	Yes
	Todd Philips	Yes
City of Chula Vista	Laura Black	No
	Desmond Corley	No
	Richard Grunow	No
City of Coronado	Jesse Brown	Yes
	Jasmine Bridges	No
	Rami Talleh	Yes
County of San Diego	Tara Lieberman	No
	Julie Marlett	No
	Karen Brindley	No
City of Del Mar	Clem Brown	No
	Amanda Lee	Yes
	Noah Alvey	Yes
City of El Cajon	Mike Viglione	No
	Patty Anders	Yes
City of Encinitas	Crystal Najera	No
	Veronica Morones	No
City of Escondido	Oscar Romero	Yes
	Meagan Openshaw	No
City of Imperial Beach	Reyna Ayala	No
	Ryan Pua	No
City of La Mesa	Lynnette Santos	Yes
	Vacant	N/A
City of Lemon Grove	Michael Fellows	No
	Vacant	N/A
	Angelita Palma	No
City of National City	Carlos Aguirre	No
	Martin Reader	Yes

Jurisdiction	Name	Attended
City of Oceanside	Sergio Madera	Yes
	Darlene Nicandro	No
City of Poway	Julie Procopio	No
	Stann Donn	No
City of San Diego	Heidi Vonblum	Yes
	Tail Galloway	No
	Seth Litchney	No
	Coby Tomlin	No
City of San Marcos	Saima Qureshy	Yes
	Joe Farace	No
	Scott Nightingale	No
City of Santee	Michael Coyne	Yes
	Sandi Hazelwood	No
City of Solana Beach	Joseph Lim	Yes
	Corey Andrews	No
City of Vista	Patsy Chow	No
	Michael Ressler	No
	Joseph Vacca	No
Advisory Members	Name	
Air Pollution Control District	Mike Watt	No
	Kathy Keehan	No
	Eric Luther	No
Caltrans	Reece Allen	No
	Brandon Tobias	No
	Kim Dodson	Yes
San Diego County Local Agency Formation Commission	Keene Simonds	No
	Priscilla Mumpower	No
	Joelle Burila	Yes
North County Transit District	Lillian Doherty	No
	Katie Persons	No
Metropolitan Transit System	Denis Desmond	No
	Beverly Neff	No
	Larry Renteria-Luna	No
	Sydney Noyce	No

Jurisdiction	Name	Attended
San Diego County Regional Airport Authority	Ralph Redman	Yes
San Diego County Water Authority	Jeff Stephenson	No
	Tim Bombardier	No
Port of San Diego	Heather Carroll	No
	Vacant	N/A
SoCal Tribal Chairman's Association	Vacant	N/A
	Vacant	N/A

January 16, 2025

Sustainable Communities Working Group 2025 Meeting Calendar

Overview

The Sustainable Communities Working Group is asked to review and approve the proposed meeting dates for 2025. Meetings are held on the third Thursday of every other month from 1:30 p.m. to 3:30 p.m. at the SANDAG offices.

Proposed Meeting Dates

~~January 16, 2025~~

March 20, 2025

May 15, 2025

July 17, 2025

September 18, 2025

November 20, 2025

Action: Approve

The SCWG is asked to approve the proposed meeting dates for 2025.

Fiscal Impact:

None.

Schedule/Scope Impact:

None.

Antoinette Meier, Senior Director of Regional Planning

January 16, 2025

San Ysidro Mobility Hub and Blue Line Transit-Oriented Development Project Updates

Overview

The San Ysidro Port of Entry is the primary gateway between the U.S. and Mexico, and one of the busiest border crossings in the world with over 90,000 people crossing northbound each day. For decades, the adjacent San Ysidro Transit Center (SYTC) has connected the San Ysidro community and crossborder travelers to the rest of the region. Despite the station's importance, it faces numerous challenges impacting connectivity, efficiency, and capacity for the various modes and thousands of users who connect here each day. Staff will provide an update on several planning efforts underway to improve the San Ysidro Transit Center and other stations along the Blue Line corridor

Action: Information

Staff will present an overview of the work completed to date for the San Ysidro Mobility Hub and Blue Line Transit-Oriented Development Studies.

Fiscal Impact:

These studies are funded by OWP 3322300, 3321901, and CIP 1149200.

Schedule/Scope Impact:

The Blue Line TOD Study will be completed in FY 2025. The San Ysidro Mobility Hub Study is anticipated to be complete in FY 2026.

Key Considerations

SANDAG, in partnership with Metropolitan Transit System (MTS), City of San Diego, and Caltrans are advancing the San Ysidro Mobility Hub project in phases. Near-term improvements to the existing SYTC are being made while a long-term vision for the future San Ysidro Mobility Hub is also being planned.

- Near-term SANDAG and partner agencies recently completed planning and conceptual engineering to develop potential station redesign concepts, assess feasibility, and estimate costs for improvements to include an additional Trolley terminus track, MTS bus bays, a southbound bus-only lane, protected bike connection, widened sidewalks and expanded curbs.
- Long-term station improvements will include new transit connections, Transit-Oriented Development (TOD) opportunities and new technologies for enhancing mobility. An initial planning and community visioning effort will develop concepts for the station's ultimate buildout.
- The Blue Line TOD Study assesses land use, transportation, and market conditions to facilitate TOD opportunities around SYTC. The study measures TOD opportunity at the station and recommends an inventory of mobility and land use improvements.

Next Steps

Staff will initiate preliminary analysis and to refine station improvement concepts, technical studies in preparation for environmental analysis, and seek additional funding for subsequent phases. Preliminary engineering activities will begin in 2025 with environmental analysis anticipated to begin by early 2026. Planning and community visioning activities for the long-term San Ysidro Mobility Hub concept will begin in Spring 2025 and are anticipated to conclude in Fall 2026.

SANDAG and partner agencies will continue advancing all of these efforts in parallel and seek guidance through updates to the Borders Committee.

Antoinette Meier, Senior Director of Regional Planning



San Ysidro Mobility Hub and Blue Line Transit Oriented Development Project Updates

Sustainable Communities Working Group | Item 4
Lizzy Havey, Associate Regional Planner
Zach Hernandez, Associate Regional Planner
January 16, 2025

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Conditions Today



SANDAG 2

2

Conditions Today



SANDAG 3

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SANDAG

San Ysidro Transit Center Improvements

Near-term measures to address existing station issues, create space for more transit service, and extend the life of the current station.

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San Ysidro Transit Center Improvements

Project Goals:

Address existing challenges and get more out of the station in the near-term (5-10 years).

- Improve Pedestrian Connectivity
- Expand Transit and Mobility Options
- Enhance Public Plaza and User-Experience

Existing Conditions



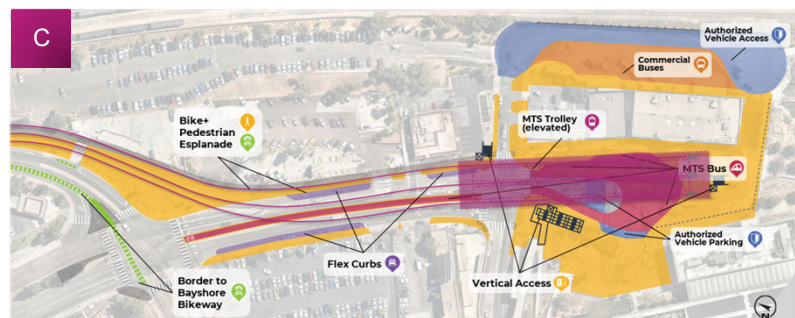
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Near-term Station Redesign Concepts

What each concept achieves:

- Additional Trolley track
- Additional MTS bus bays
- Southbound bus-only lane
- Protected bike connection
- Widened sidewalks, expanded curbs, and completed crosswalks
- Federal access maintained
- Impacts to private property limited (where feasible)



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San Ysidro Transit Center Improvements



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SANDAG

San Ysidro Mobility Hub

Long-term vision for what comes next, and how we integrate planned rail connections (LOSSAN and Purple Line). Planning and community visioning to inform design of ultimate buildout.

| 8

8

[illegible]

10



Next Steps

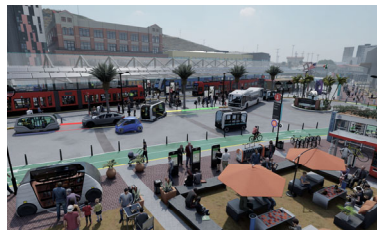
Near-term Station Improvements:

- Continue refining designs and identify a preferred concept
- Begin the environmental process
- Identify funding opportunities for design and construction



Long-term Vision for Future Hub:

- Begin the planning and community visioning for the ultimate buildout of the San Ysidro Mobility Hub
- Gather input from related mobility, land use, and design efforts (e.g., corridor rail studies, transit-oriented development studies, San Diego-Tijuana World Design Capital 2024)



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Blue Line Transit-Oriented Development

Maximizing benefits of transportation investments through strategizing complementary land use development opportunities.

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Overview

The Blue Line Transit-Oriented Development Study (Blue Line TOD Study) aims to:

- Develop TOD strategies for the areas around San Ysidro and Palomar Trolley Stations
- Assess land use, transportation and market conditions for TOD opportunities
- Understand and further mobility hub implementation

Partners include the City of San Diego, the City of Chula Vista, and MTS



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Existing Conditions & Development Capacity



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Measuring Opportunity

The **TOD Opportunity Index** is a tool to evaluate the TOD potential of transit station areas using quantitative analysis at the station and parcel-level. Using a 1-10 scale, each category and subcategory is calculated into a score, identifying sites with the greatest development potential.



Transit Connectivity & Service

- Transit Connectivity
- Rail Service Frequency
- Bus Service Frequency



Walkability

- Walking Distance
- Pedestrian Safety



Bikeability

- Biking Distance
- Bicycle Infrastructure
- Bicyclist Safety



Development Feasibility

- Parcel Size
- Land Use/Existing Development
- Allowable Density
- Allowable Density / Residential Zoning
- Existing Plans, Policies, & Programs



Community Health & Wellbeing

- Open Space
- Community Amenities

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Implementation Strategies and Market Constraints

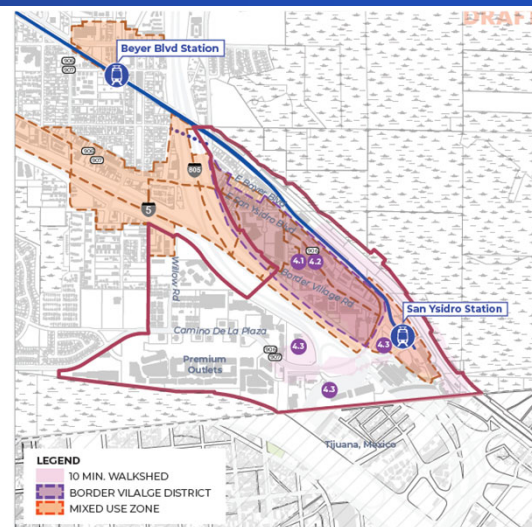
Increase Housing & Mixed-Use Potential

Improvements

- **4.1** Update zoning, land use, and FAR within San Ysidro Border Village District
- **4.2** Allow for mixed-use developments that include residential, community health, social and educational services
- **4.3** Incentivize higher density affordable housing projects
- **4.4** Reduce parking minimums and consolidate parking facilities for the redevelopment of surface parking

Targeted Outcome

- Increase in the quantity, diversity, and affordability of housing options surrounding the transit station, allowing residents to age in place and provide access to jobs, health, and social services



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Next Steps

Maximizing benefits of transportation investments

- Collaborate with stakeholders like City staff and affordable housing developers
- Leverage the study for the San Ysidro Mobility Hub planning work
- Further evaluate options for housing as an opportunity for transportation project mitigation



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Timeline

SAN YSIDRO TRANSIT CENTER (SYTC)

SYTC Improvements

Planning study concludes for near-term station redesign

SYTC Improvements

Preliminary Engineering begins

SYTC Improvements

Environmental phase begins

2024

2025

Blue Line TOD Study

Planning study concludes

2026

SYMH

Planning study begins for long-term vision of the Mobility Hub and surrounding area

2027

SYMH

Draft Mobility Hub and land use development concepts

SYMH

Planning study concludes

SAN YSIDRO MOBILITY HUB (SYMH)

Coordination with Stakeholders and Community Engagement

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✉ Email: sanysidromobilityhub@sandag.org



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January 16, 2025

Regional Safety Planning Updates

Overview

On June 22, 2022, the SANDAG Board of Directors adopted Resolution 2023-02 directing staff to seek funding and develop a Regional Vision Zero Action Plan (VZAP) to advance traffic safety goals for the San Diego region. This planning effort is included in the 2021 Regional Plan as a near-term implementation action and safety is a goal area for the 2025 Regional Plan. Staff will provide an overview of regional safety planning efforts.

Key Considerations

Final Regional Vision Zero Action Plan

Developed in collaboration with local agency staff, the VZAP Technical Advisory Group¹, community-based organizations and the public, the Vision Zero Action Plan identifies local traffic safety challenges and solutions to support Vision Zero. The plan identifies where the most fatal and serious injury crashes occur and provides resources to improve safety in those areas. The plan also details SANDAG's role with implementing safety solutions and how progress toward Vision Zero will be evaluated. With the completion of the VZAP local agencies are eligible for Safe Streets and Roads for All implementation grants. The [final VZAP](#) and its [technical appendices](#) are available on SANDAG's [Vision Zero webpage](#).

VZAP Implementation Steps

The Regional VZAP includes implementation steps that are organized under seven focus areas: Coordinate, Advocate, Plan, Fund, Educate, Evaluate, and Implement. Multiple implementation efforts are currently in progress and SANDAG has recently launched three: including AB 43 technical support², local agency countermeasure tool development³, and grant criteria updates⁴.

Safety Performance Monitoring

The Regional VZAP provides a structure for ongoing safety performance and implementation monitoring. On an annual basis SANDAG will obtain, clean, and review regional safety data. These will be evaluated changes in performance based on common performance measures. A parallel process will evaluate progress on implementation steps included in the Regional VZAP. Beginning in 2025 staff will develop a report summarizing the results from this process.

Action: Information

Staff will present the final regional Vision Zero Action Plan and supporting safety tools, and regional safety statistics.

Fiscal Impact:

Completion of the Vision Zero Action Plan establishes local agency eligibility for federal Safe Streets and Roads for All implementation grants.

Schedule/Scope Impact:

The regional Vision Zero Action Plan was completed on November 15, 2024.

¹ The Technical Advisory Group (TAG) consists of multidisciplinary community members with diverse perspectives including local jurisdictions, transit agencies, tribal nations, community-based organizations, Vision Zero advocacy groups, first responders, health professionals, education professionals, and law enforcement.

² AB 43 establishes more flexible speed limit setting for municipalities. SANDAG is developing a Safety Corridor Network for each jurisdiction to identify portions of each jurisdiction's roadway network that can be eligible for a 5-mph speed limit reduction.

³ An online platform for local agencies is being developed to share safety data, resources, support safety project development, and countermeasure selection.

⁴ Regional Active Transportation Program and Smart Growth Incentive Program evaluation criteria are being updated to further safety goals and leverage the regional VZAP analyses.

Next Steps

SANDAG will advance implementation steps identified in the Vision Zero Action Plan in coordination with partner agencies.

Antoinette Meier, Senior Director of Regional Planning



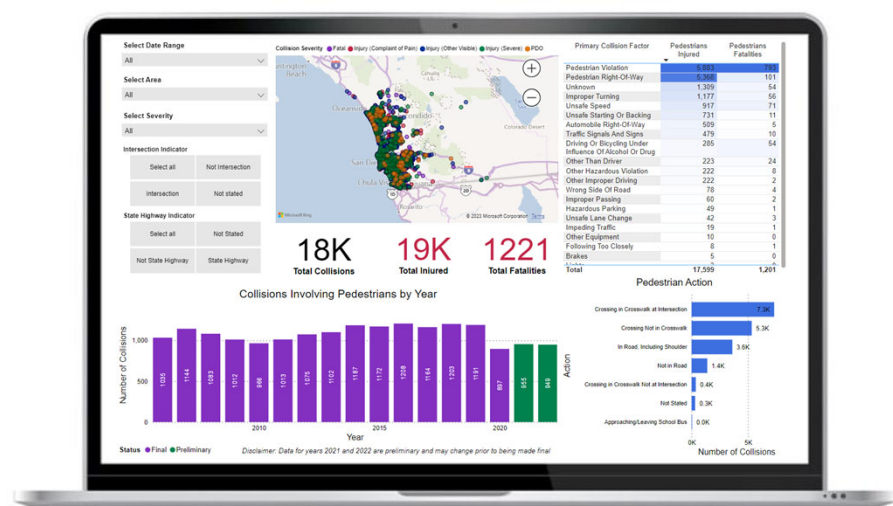
Regional Safety Planning Updates

Sustainable Communities Working Group | Item 5
Sam Sanford, Senior Regional Planner
Jacqueline Sisk, Associate Regional Planner
January 16, 2025

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Traffic Safety Dashboard

SANDAG.org/trafficsafety



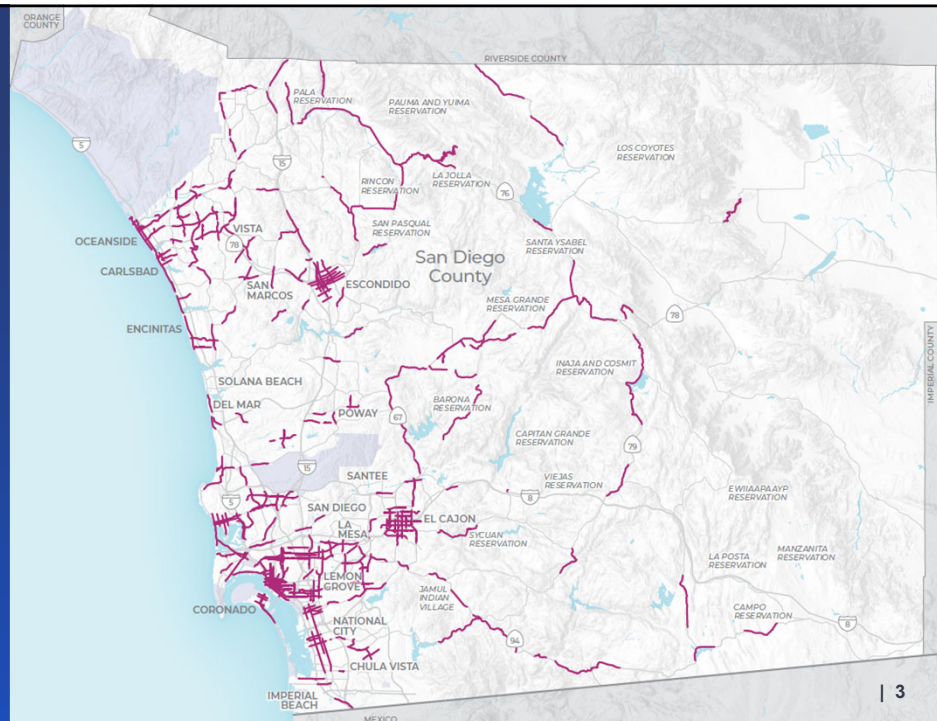
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Safety Focus Network

54% of fatal and serious injury crashes occur on just **6%** of our region's local roads

Equity Areas make up only **19%** of the region but account for **44%** of the Safety Focus Network



| 3

3

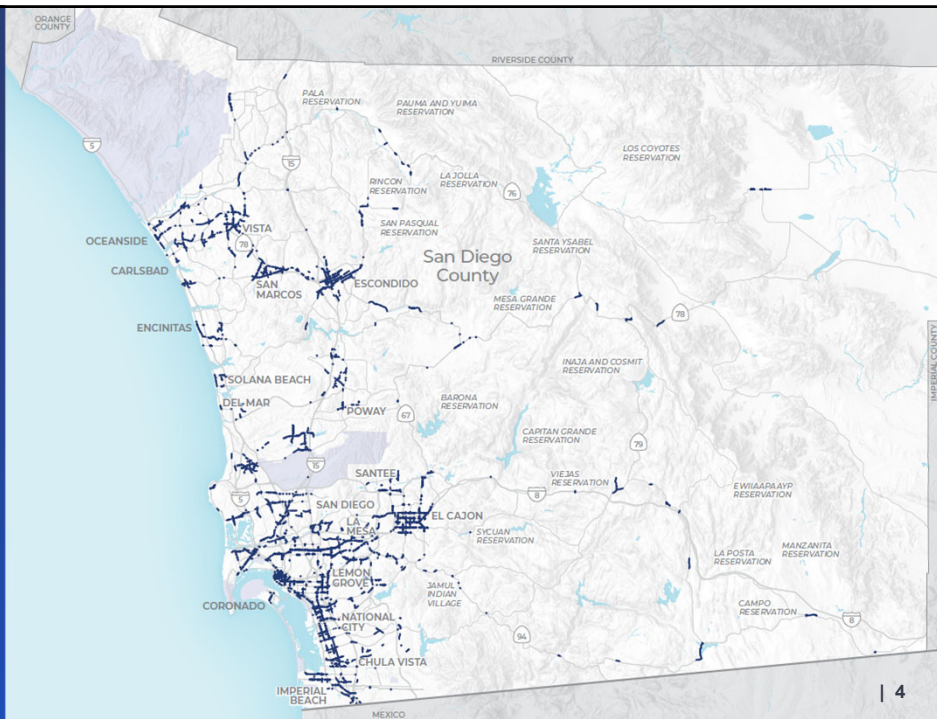
Systemic Safety Network

Road classification: Major roads and freeway ramps

Number of lanes: Roads with two or more lanes per direction

Intersection type: Side-street stop-controlled and signalized intersections on wide, high-speed roads

Proximity to activity generators: Roads or intersections near commercial areas, multi-family housing, transit stops, or schools.



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Public Engagement

- SANDAG Working Group and task force updates
- Digital outreach including interactive map and surveys
- In-person public events
- Community-based organization outreach
- Social media connections
- Technical Advisory Group



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Vision Zero Action Plan - Why This Matters to the Region

4,433 PEOPLE

Died or were Seriously Injured in Crashes on Local Roads
in the San Diego Region Between 2018 and 2022

THIS IS WHY SANDAG DEVELOPED THE VISION ZERO ACTION PLAN

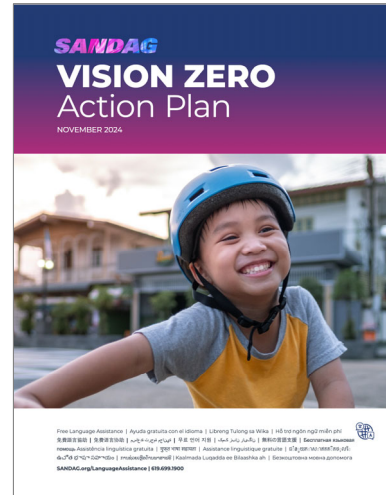
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Vision Zero Action Plan - Final Plan Highlights

- **Plan Organization**

- Chapter 1: About Vision Zero
- Chapter 2: Understanding the Problem
- Chapter 3: Developing Solutions
- Chapter 4: How We Get to Zero



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Vision Zero Action Plan Implementation Actions



COORDINATE

Align efforts and ensure a unified approach



ADVOCATE

Advocate for policies, projects, funding, and legislative actions



PLAN

Integrate safety into regional planning efforts and provide resources



FUND

Allocate and prioritize funding



EDUCATE

Raise awareness through diverse methods of information sharing



EVALUATE

Evaluate successes and effectiveness of implemented strategies



IMPLEMENT

Develop projects to deliver on safety goals

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Near-term Action Examples



FUND

Align regional grants managed by SANDAG to prioritize safety investments that advance safety goals.

ATP and SGIP Safety Criteria



PLAN

Support local governments in evaluating posted speed limits and addressing speeding through data-driven assessments, policy recommendations, and targeted interventions that improve roadway safety and crash severity.

AB 43 Implementation Support



IMPLEMENT

Develop resources to facilitate informed decision-making and provide services to support regional safety needs.

Local Agency Vision Zero Resource Hub

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Vision Zero Action Plan - Next Steps



- AB 43 Implementation Support
- 2025 Regional Plan
- Support agency applications for Safe Streets and Roads for All funding
- Performance Measure 1 Target Setting

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Federal Performance Safety Targets

- Annual federally required process
- Three-year targets for decision making
- Performance Measures
 1. Total fatalities
 2. Fatality Rate by 100 million vehicle miles traveled (VMT)
 3. Total Serious Injuries
 4. Serious Injury Rate by 100 million VMT
 5. Total Non-Motorized Fatalities and Serious Injuries

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Caltrans' 2025 Statewide Safety Targets

Performance Measure	2025 Target (5-Year Average)	2025 Target (Annual Number)	Average Annual Reduction
Total Fatalities	4,048.6	3,818	2.84%
Fatality Rate (per 100M VMT)	1.26	1.14	4.61%
Total Serious Injuries	16,630.5	15,404	3.69%
Serious Injury Rate (per 100M VMT)	4.77	4.42	3.69%
Total Non-Motorized Fatalities and Serious Injuries	4,373.3	4,071	2.84% (F) 3.69% (SI)

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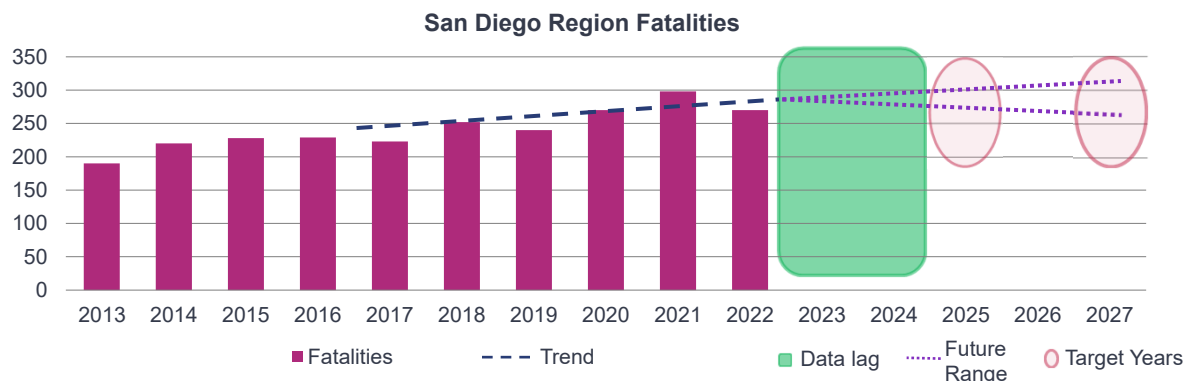
Target Setting - Safety Targets Proposed Methodology

- Process for calendar year 2025 safety targets

- Current trends
- Influencing factors



Missing years
Expected future



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Target Setting - What Influences Traffic Safety?

Supporting influences

- Speed management (AB43)
- Intersection visibility (AB413)
- Complete streets (SB960)
- Completed projects and programs

Other influences

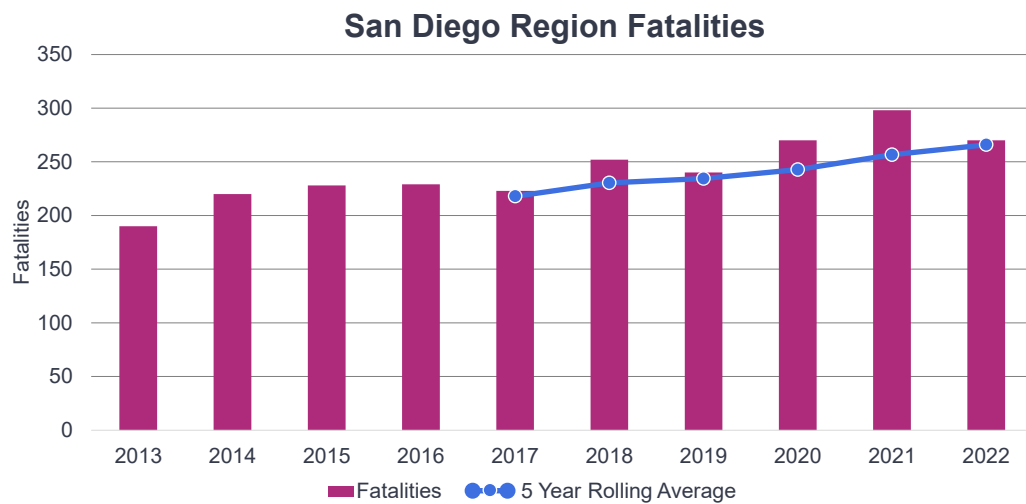
- Demographics
- Mode share
- Vehicle fleet (age, EV, AV)
- Economy



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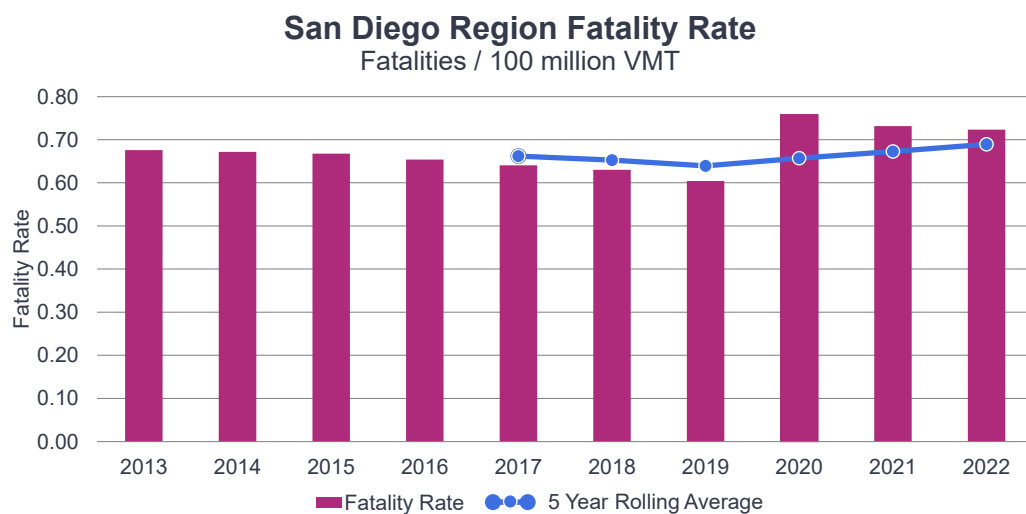
Target Setting - Regional Fatalities



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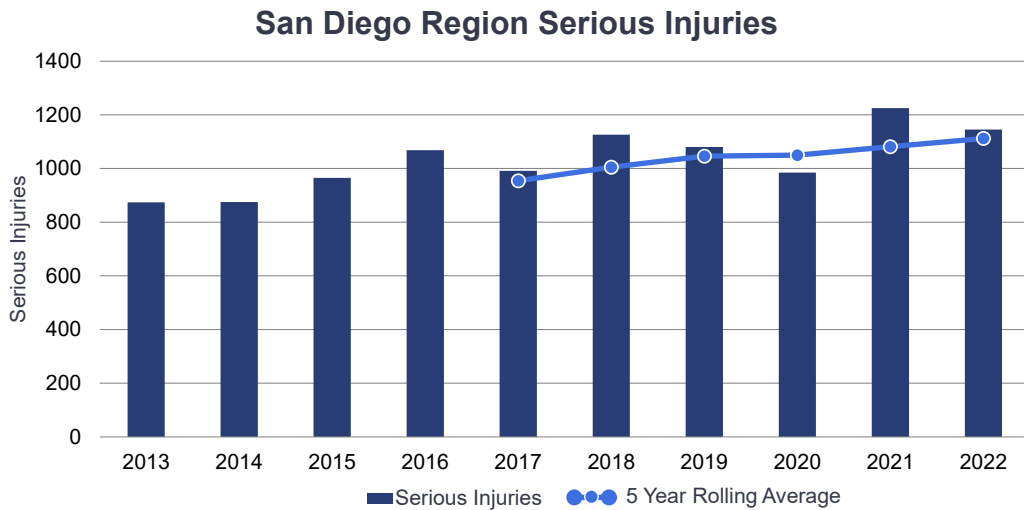
Target Setting - Regional Fatality Rate



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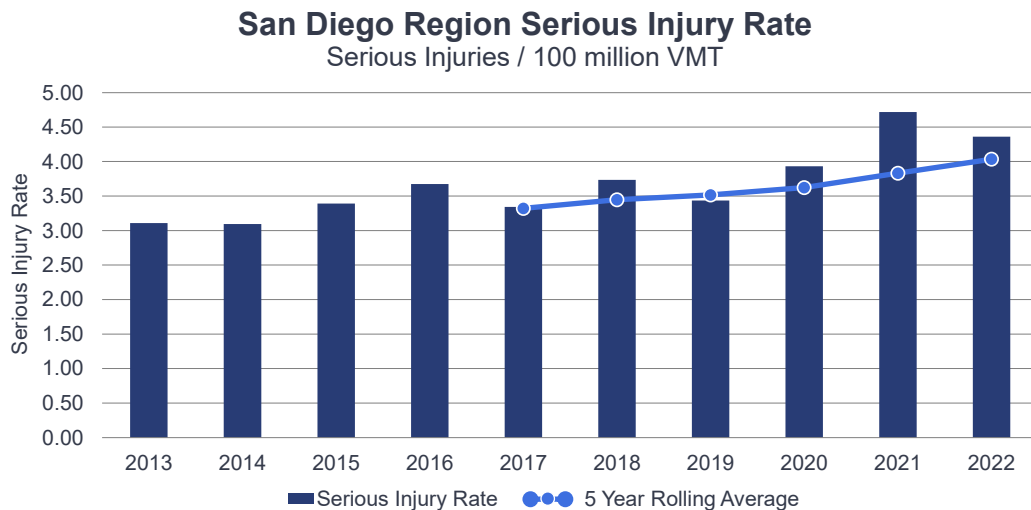
Target Setting - Regional Serious Injuries



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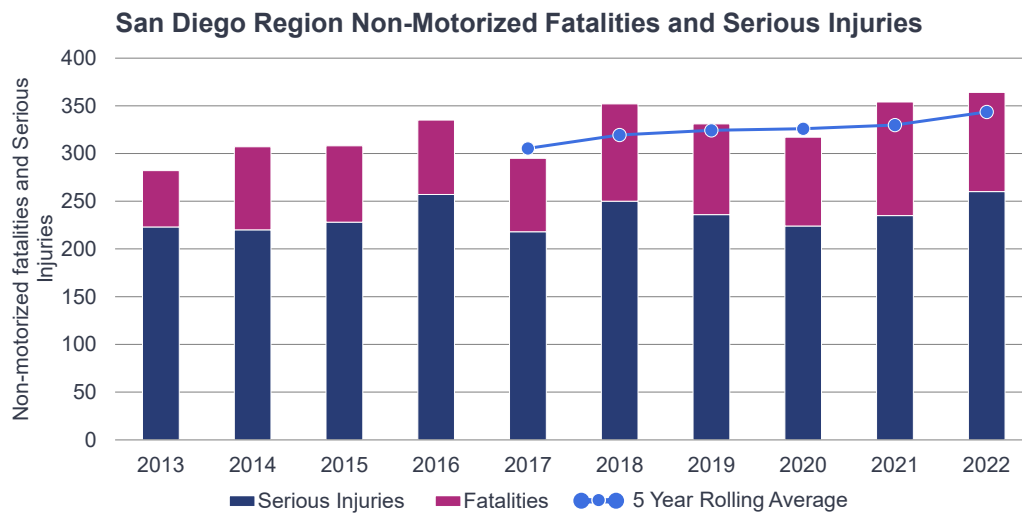
Target Setting - Regional Serious Injury Rate



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Target Setting - Regional Non-Motorized Fatalities and Serious Injuries



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January 16, 2025

Regional Climate Action Planning

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 (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 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 Regional Climate Action Roadmap

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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 comprehensive regional vision to support regional collaboration to combat climate change. It builds on existing climate action planning efforts and identifies measures to reduce greenhouse gas (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 Sustainable Communities Working Group **by January 30, 2025**. Please email feedback to ClimateTeam@sandag.org.

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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

Transportation

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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), San Diego Regional Energy Network (SDREN), and SDG&E

Transportation	
Measure T.6 Reduce fuel use from idling	

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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, SDCP, 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 Invasive Plant Strategic Plan 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

Sustainable Communities Working Group | Item 6
Anna Bettis, Senior Regional Planner
Natasha Dulik, Associate Regional Planner
Samaya Elder, Associate Regional Planner
January 16, 2025

1

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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Transportation



Increase public transit use



Expand active transportation



Expand Flexible Fleets



Reduce VMT through Transportation Demand Management



Increase adoption of zero-emission vehicles (ZEVs)

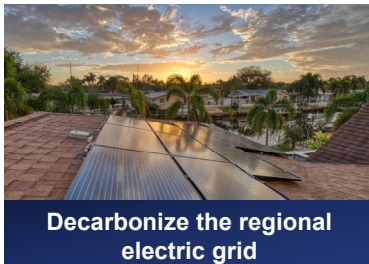


Reduce fuel use from idling

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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



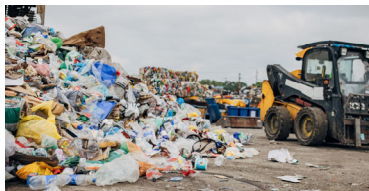
Conserve forest, shrublands, and chaparral ecosystems



Increase urban canopy cover



Divert waste from landfills



Increase methane capture from landfills

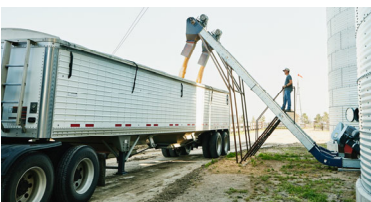


Reduce emissions from water and wastewater treatment

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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 climate measures as part of the EPN CHD program.

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

January 2025

SANDAG

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 86% 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 Sustainable Communities Working Group by January 30, 2025. Please email feedback to ClimateTeam@sandag.org.

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