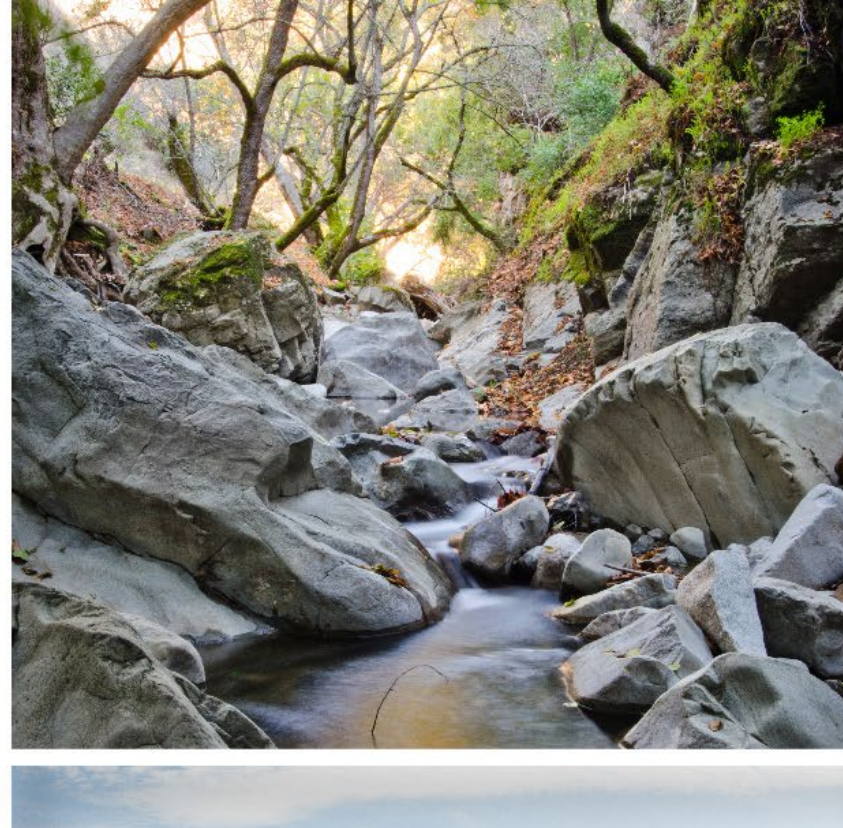




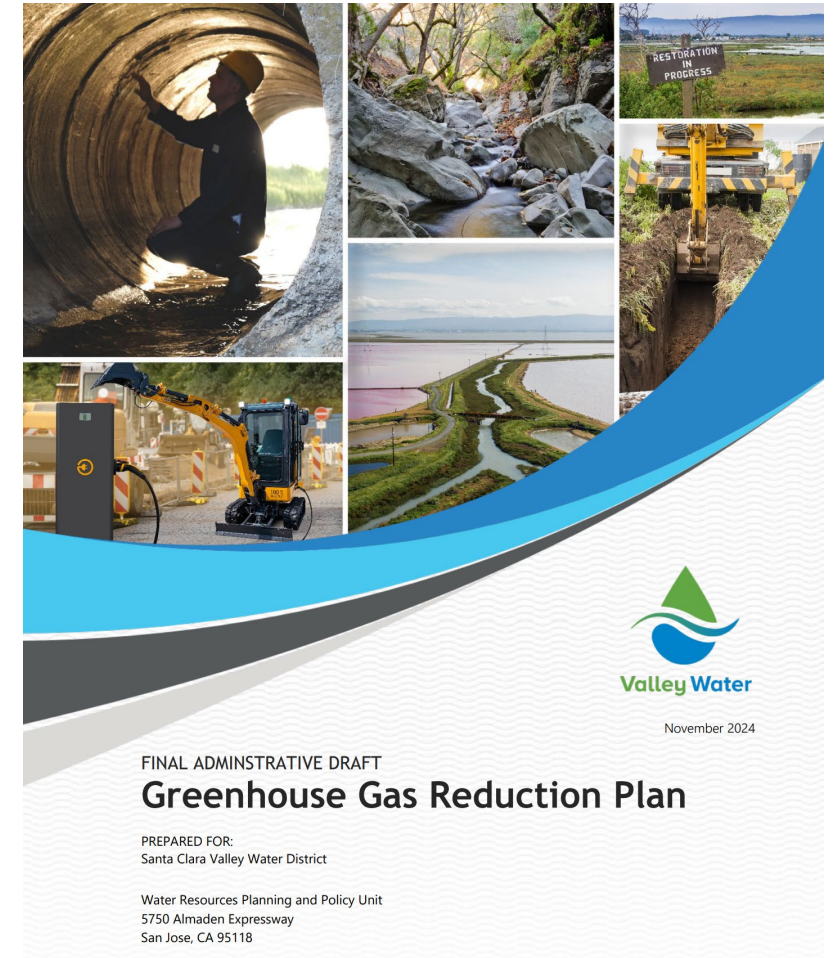
Greenhouse Gas Reduction Plan

Samantha Greene, Ph.D., Water Resource Planning and Policy Manager

August 11, 2026

Presentation Outline

1. Baseline Greenhouse Gas (GHG) Inventory
2. Emissions Forecast and Reduction Targets
3. Carbon Budget
4. GHG Reduction Measures
5. CEQA review



2021 Climate Change Action Plan

Goals, strategies, and actions address climate adaptation, emergency preparedness, and **climate mitigation**

CCAP Mitigation Strategies and Actions		
Reduce Direct Emissions	Expand Renewable Energy & Improve Efficiency	Reduce Indirect Emissions
Action 1.6.2: Expand GHG inventory		
Action 1.6.4: Prepare CEQA-Qualified GHG Reduction Plan		

CEQA-Qualified GHG Reduction Plan



Reduce GHG emissions

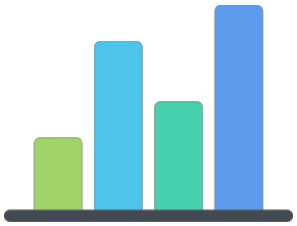


Streamline environmental review (CEQA) of future projects



Create consistency with GHG regulations

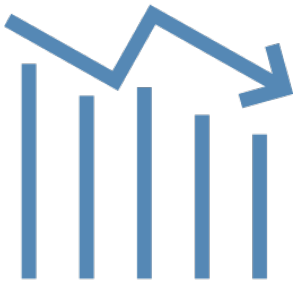
GHG Reduction Plan Contents



Baseline Emissions Inventory



Reduction Targets & Carbon Budget

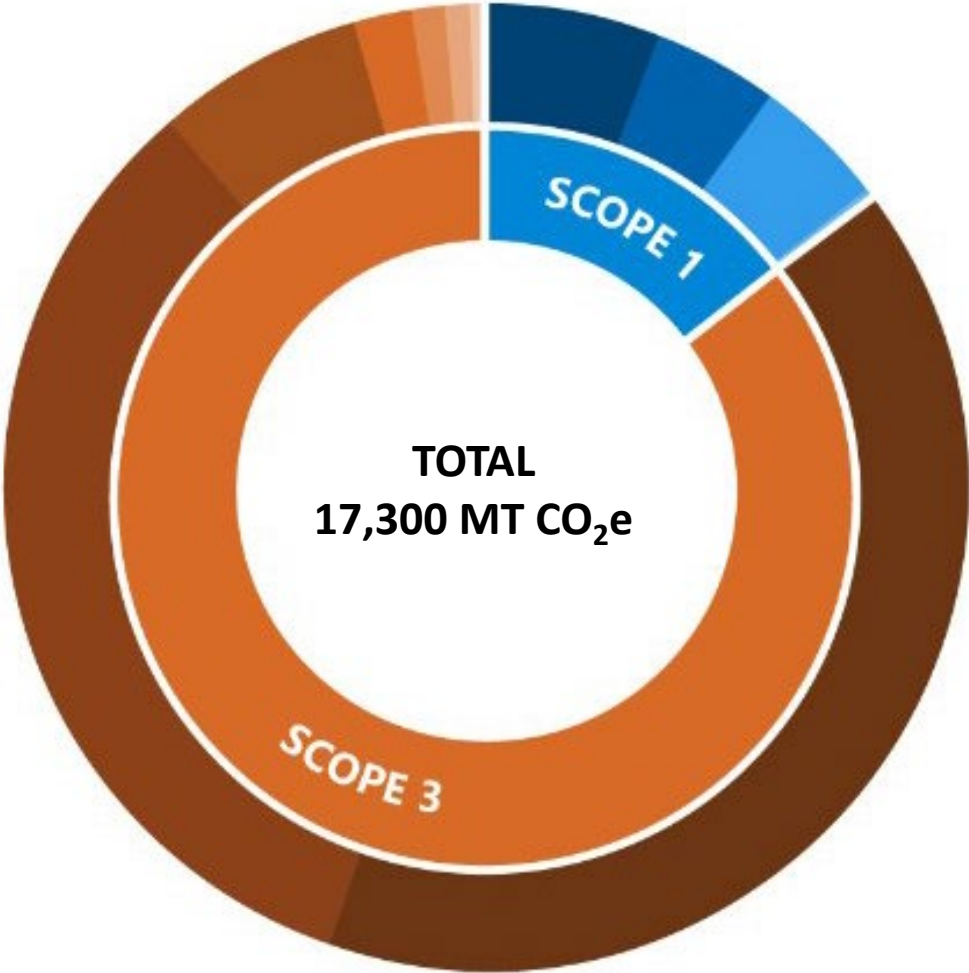


Emissions Forecast

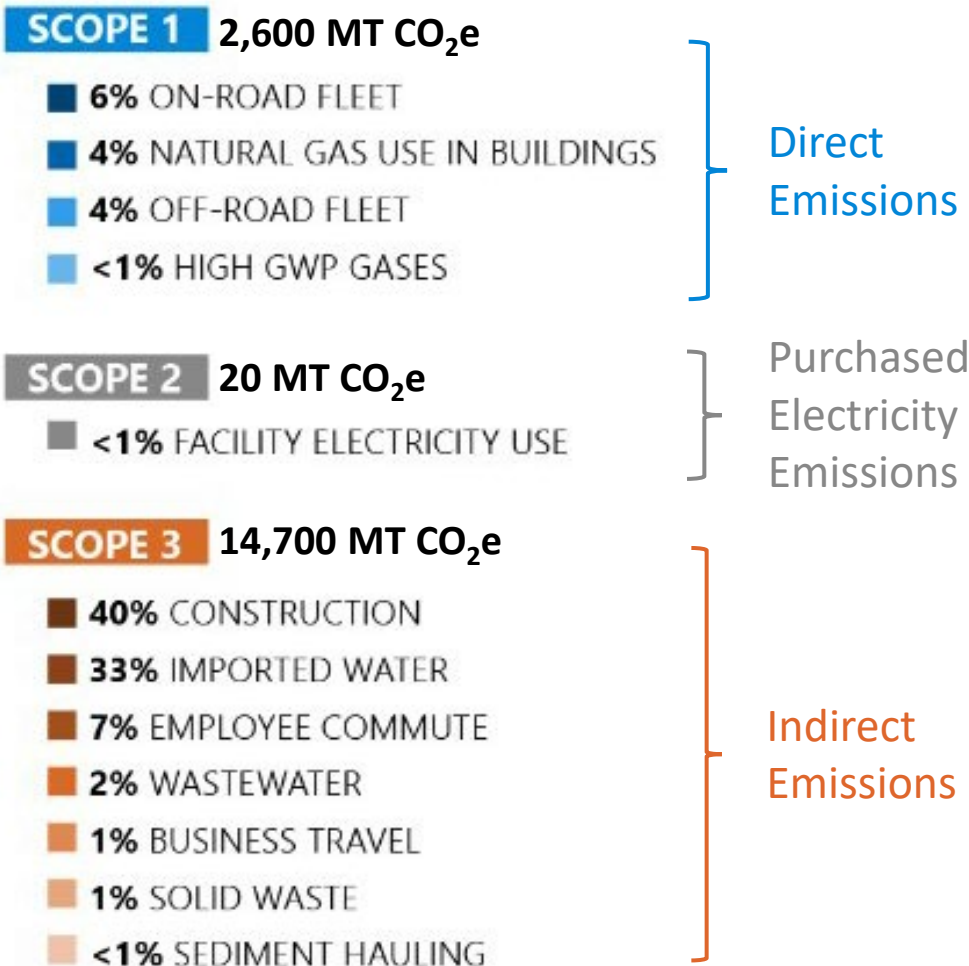


Reduction Measures

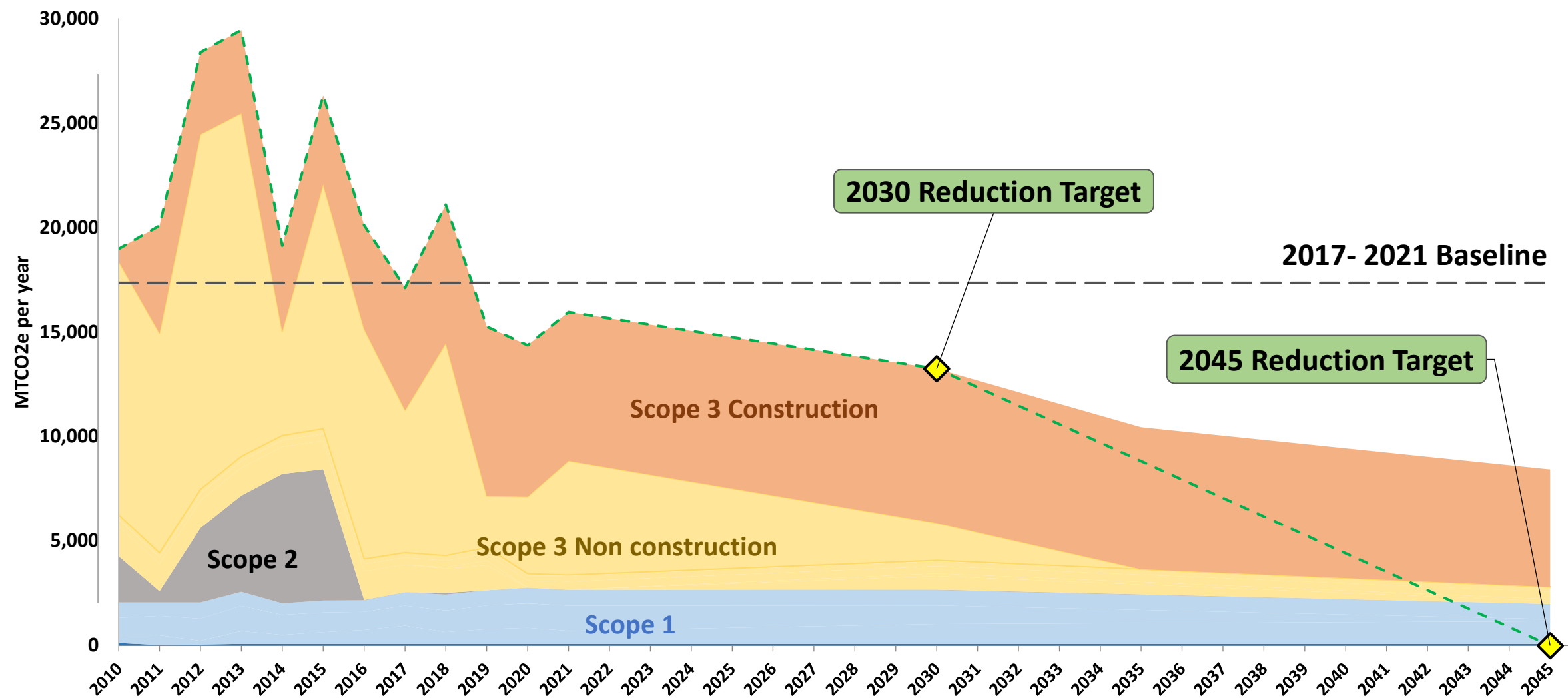
Baseline Emission Inventory



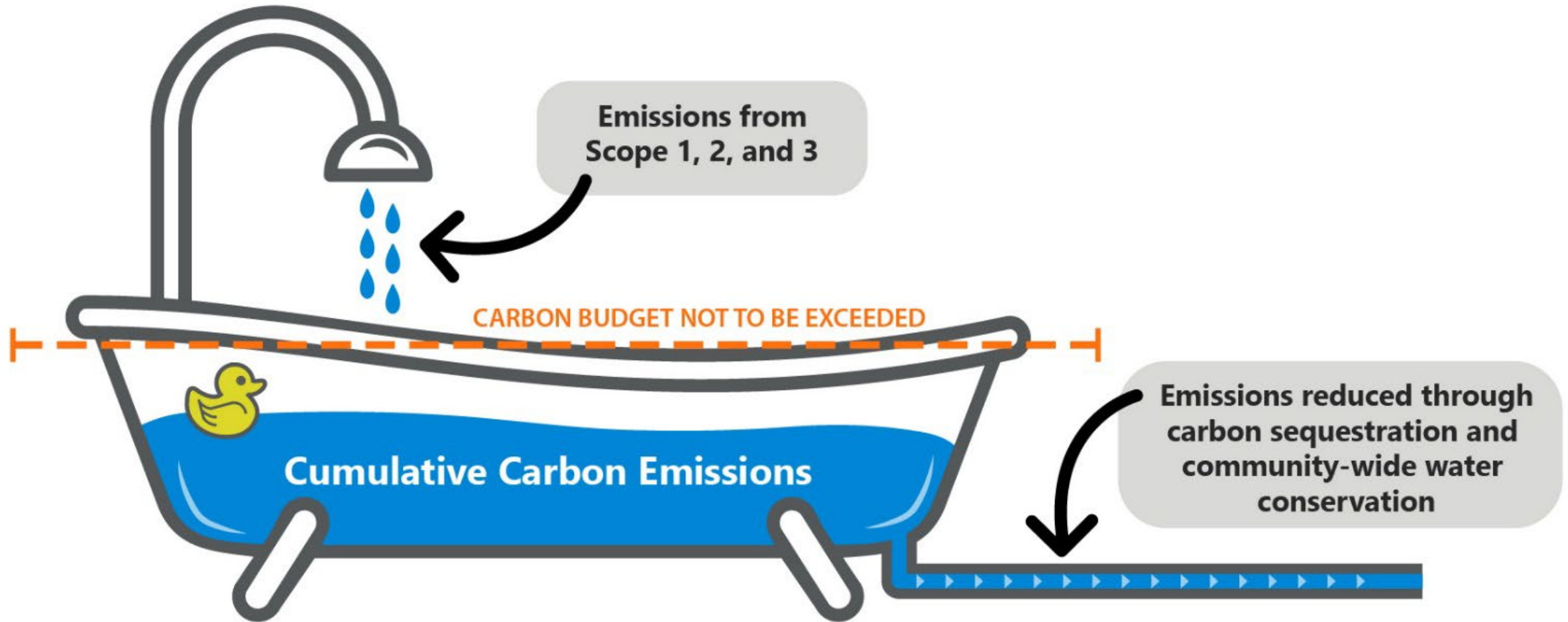
2017-2021 Baseline Inventory



Past and Forecast Emissions



Carbon Budget Concept



Scope 1 Emissions Reduction Measures

Emissions Source	Measure Number	Measure Name
Valley Water Fleet	VF-1	Zero Emission On-Road Fleet
Valley Water Fleet	OF-1	Zero Emission Off-Road Fleet
High Global Warming Potential (GWP) Gases	HG-1	Phase Out High-GWP refrigerants
Valley Water Facility Energy	FE-1	Facility Electrification

Scope 3 Emissions Reduction Measures

Emissions Source	Measure Number	Measure Name
Employee Commute	EC-1	Reduce Employee Commute Emissions
Solid Waste	SW-1	Increase Solid Waste Diversion
Contracted Construction	CN-1	Zero Emission Off-Road Construction Equipment (Contractor vehicles)
Contracted Construction	CN-2	Zero Emission On-Road Construction Vehicles (Contractor vehicles)
Water Conservation	WA-1	Increase Water Conservation
Carbon Sequestration	CS-1	Carbon Sequestration in Valley Water Restoration Projects
Carbon Offsets	CS-2	Purchase Carbon Offsets

Construction Emissions Reduction Measures

Measure Name	Measure Description	2025-2030 Cumulative Reduction	2025-2045 Cumulative Reduction
Zero Emission Off-road Equipment (CN-1)	Require zero-emission fuels • 17% by 2030 • 45% by 2045	2,900 MT CO ₂ e	29,000 MT CO ₂ e
Zero Emission On-road Vehicles (CN-2)	Require zero-emission fuels • 35% by 2030 • 95% by 2045	300 MT CO ₂ e	1,200 MT CO ₂ e

Zero-emission fuels: renewable diesel, biodiesel, electricity, hydrogen

Carbon Sequestration Program

Reduction Measure CS-1

South San Francisco Bay Shoreline Phase I Project

- Restores 2,900 acres of former salt ponds
- Tidal marsh restoration projected by 2030

Future restoration projects will also be considered for Sequestration Program



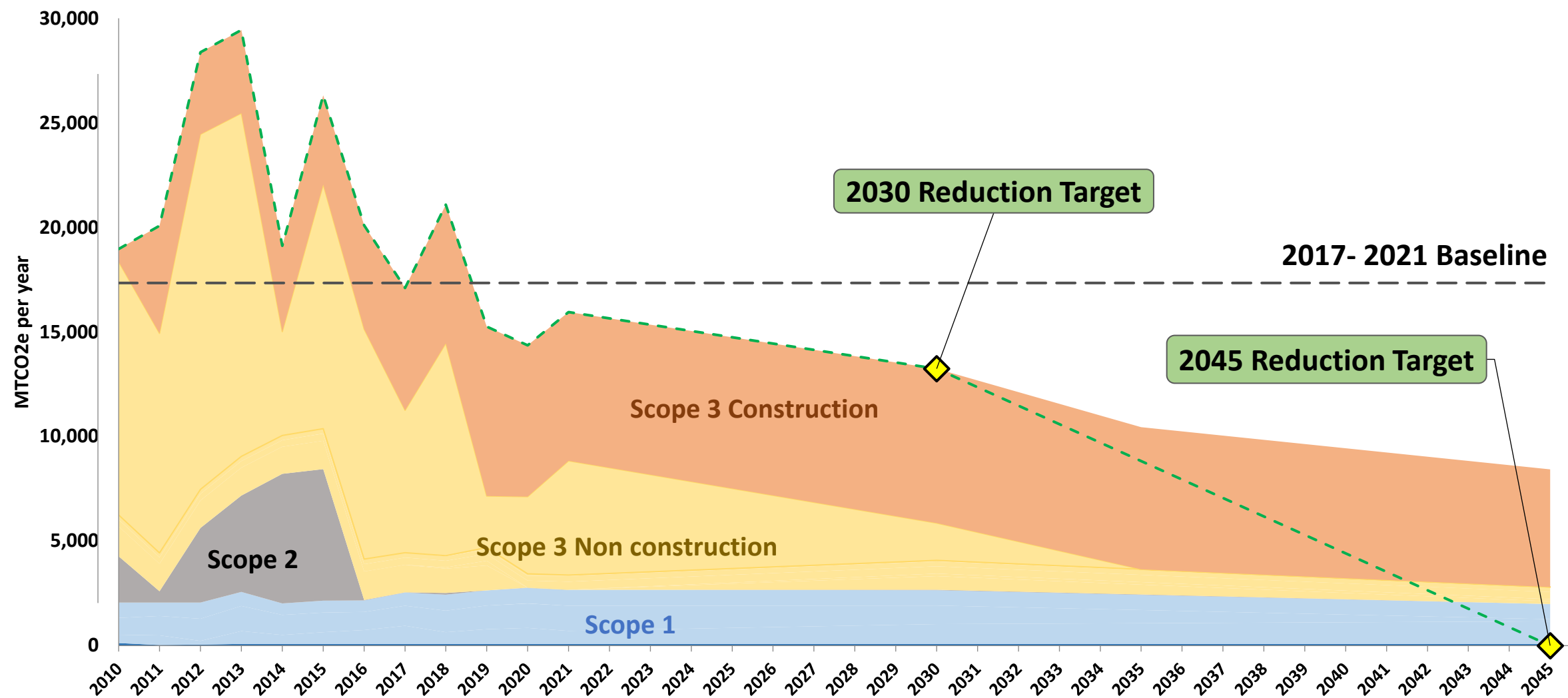
Carbon Sequestration Program Requirements

- **Real:** Documented actions
- **Quantifiable:** Reliably calculated and tracked
- **Additional:** No double counting
- **Enforceable:** Regulatory agencies can ensure compliance
- **Verifiable:** Data reviewable by third parties
- **Permanent:** Last at least 100 years



*Restored tidal marsh in the South Bay
Courtesy South Bay Salt Pond Restoration Project*

Past and Forecast Emissions



Stakeholder Review

Internal Review

- Confirmed past and future emissions
- Refined emission reduction actions

Public Review

- December 2024 public posting and June 2025 BPMC
- Clarification of emission scopes, excluded emissions

MWD Peer Review

- Nov 2024 Metropolitan Water District + Rincon Consultants
- Refined inventory calculations
- Improved measure implementation process

CEQA

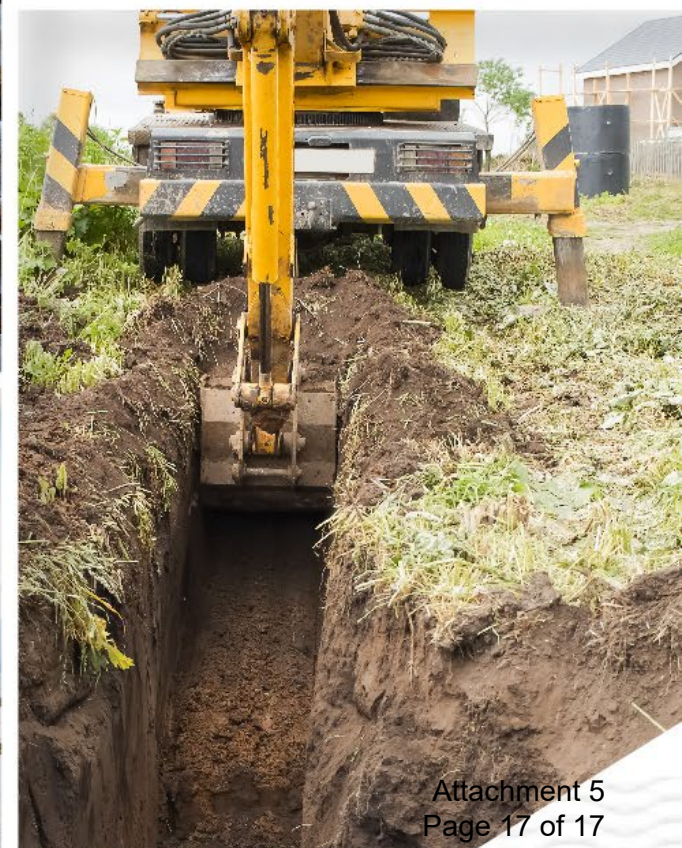
- Initial Study/Negative Declaration
- Public review - two comments

Recommended Board Actions

Adopt the Resolution Adopting the Final Negative Declaration

Adopt the Resolution Adopting the Greenhouse Gas Reduction Plan

Questions?



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