



SCV
WATER

Sustainability Plan

Water Resources and Watershed Committee
6/14/2023

Presentation Objectives

1. Planning Process Overview
2. Plan Components Review
3. Obtain Committee Comments
4. Approve Sustainability Plan for BOD Consideration



Agenda

1. Introduction
2. Climate and Sustainability Plan
 1. Overview
 2. Benefits
 3. Energy & GHG Inventory + Forecasting
 4. Measures and Recommendations
3. Next Steps
4. Questions & Comments



Introductions



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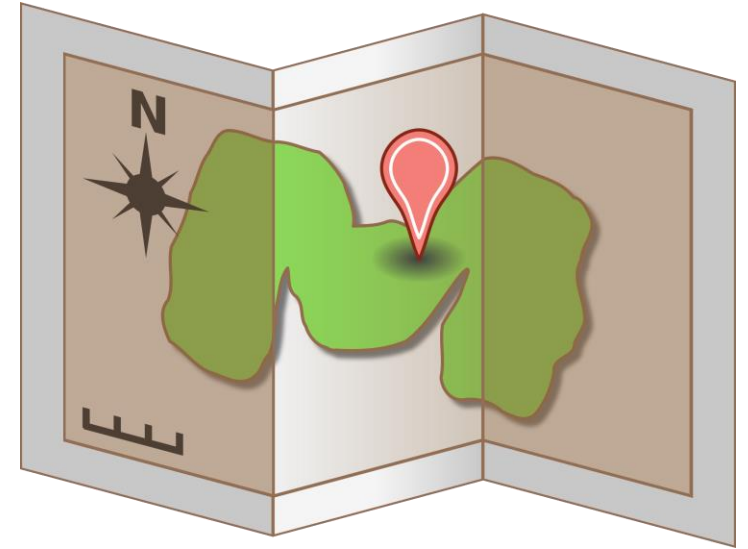
Additional Support:

SCV Water Staff

- Sustainability
- Water Resources
- Operations
- Engineering
- Administration
- IT

Sustainability Plan - Milestones

1. 2019 - SCV Water Strategic Plan
2. 2019 - USC/SCV Water Capstone Collaboration
3. 2019 - Launch of Green Team
4. 2020 - Initial Internal Analysis
5. 2021 - Consultant (Rincon) Contract Procured
6. 2022 - WRW Committee Review/Public Workshop/BOD Workshop
7. 2022/2023 - Internal Staff Review/Draft Plan/Public Comment/WRW Committee Review & Consideration/BOD Review & Consideration



About Climate Action Planning

- AB 32 codified the statewide goal to reduce GHG emissions to 1990 levels by 2020
- SB 32 requires the state of California to achieve a statewide reduction of GHG emissions by 40% below 1990 level by 2030
- EO B-55-18 establishes statewide goal of carbon neutrality by 2045
- State recognizes water agencies as large energy emission contributor and consider water agencies important partners in achieving these statewide goals
- Climate action planning has a role in water agencies long-term planning
 - Integrated Regional Water Management
 - Hazard Mitigation Planning
 - Water Supply Reliability Plan
 - Water Conservation Programs

SCVWA Sustainability & Climate Action Planning Benefits

Grant Funding

Improves scoring for grant funding opportunities

Cost
Savings/Process
Efficiencies

Identifies energy efficiencies and savings potential

Future CEQA
Streamlining

First step in developing a CEQA qualified GHG reduction plan for CEQA streamlining

Enhance
Sustainability of
Operations

Supports 2020 Sustainability Action Plan objectives and implementation of existing and potential GHG reduction measures

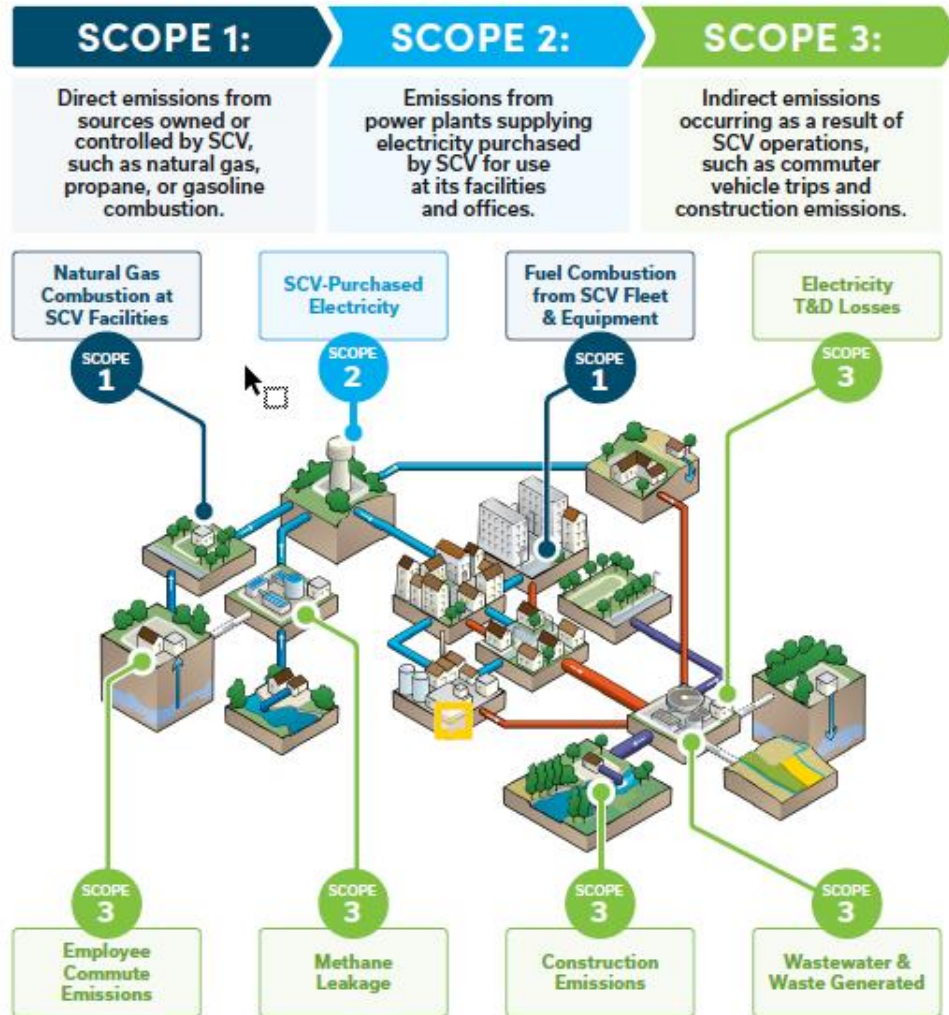
Project Schedule - Technical



*Plan adoption goal: July 2023

Baseline Inventory

Figure 3-1. SCV Water's GHG Emission Sources by Scope



The GHG emissions inventory used activity data for each emission source to calculate emissions. Data for each emissions source was obtained from billing history, internal reports, and surveys.

Table 3-2. 2020 Operational GHG Emissions Inventory Summary

Emissions Source	Scope	GHG Emissions (MT CO ₂ e)	% Contribution
Vehicle Fleet and Equipment	Scope 1	353	2%
Natural Gas	Scope 1	191	1%
Scope 1 Subtotal		544	3%
Electricity	Scope 2	15,484	84%
Scope 2 Subtotal		15,484	84%
Methane Leakage	Scope 3	47	<1%
Electricity T&D Losses	Scope 3	821	4%
Employee Commute	Scope 3	642	3%
Waste	Scope 3	430	2%
Construction	Scope 3	496	3%
Wastewater	Scope 3	30	<1%
Scope 3 Subtotal		2,465	13%
Total Emissions		18,493	100%

Notes: Values have been rounded herein and therefore may not add up exactly.

All values shown are in units of MT CO₂e

MT CO₂e = metric tons carbon dioxide equivalent; T&D = transmission and distribution

Energy & GHG Forecasting (BAU)

Table 3-3. Business-as-Usual Forecast GHG Emissions Summary (MT CO₂e)¹

Emissions Source	2025	2030	2035	2040	2045
Natural Gas	256	279	305	326	343
Methane Leakage	63	69	75	81	85
Vehicle Fleet and Equipment	452	492	538	575	604
Wastewater	40	43	47	50	53
Electricity	20,811	22,652	24,757	26,456	27,795
Electricity T&D Losses	1,103	1,201	1,312	1,402	1,473
Employee Commute	713	776	848	906	952
Waste	578	629	687	734	772
Construction	541	541	541	541	541
Total	24,557	26,683	29,112	31,072	32,618

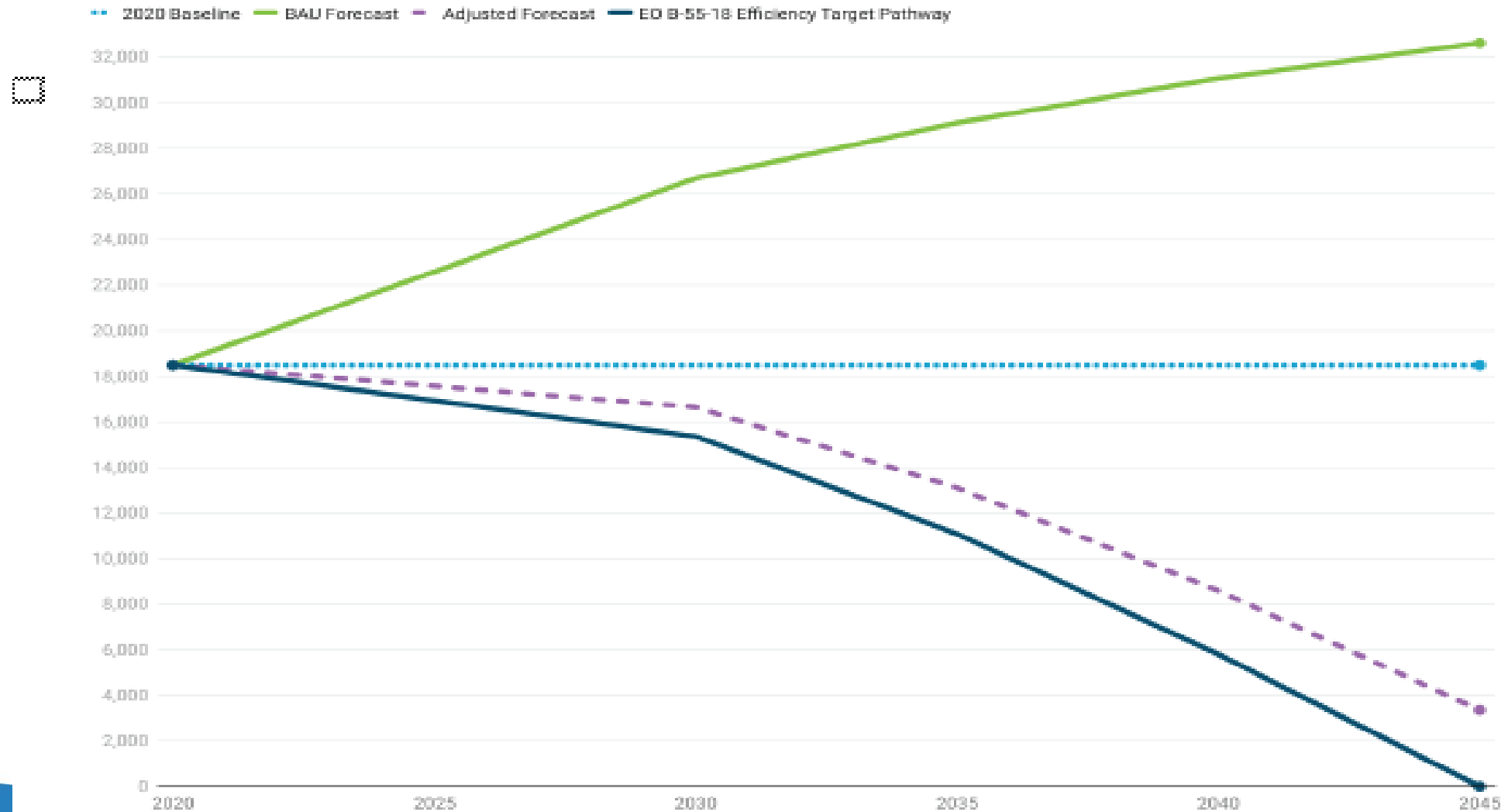
Notes: Values have been rounded and therefore may not add up exactly.

MT CO₂e = metric tons carbon dioxide equivalent; T&D = transmission and distribution

¹Based on the single-dry year scenario, which is the "worst case" scenario for GHG emissions.

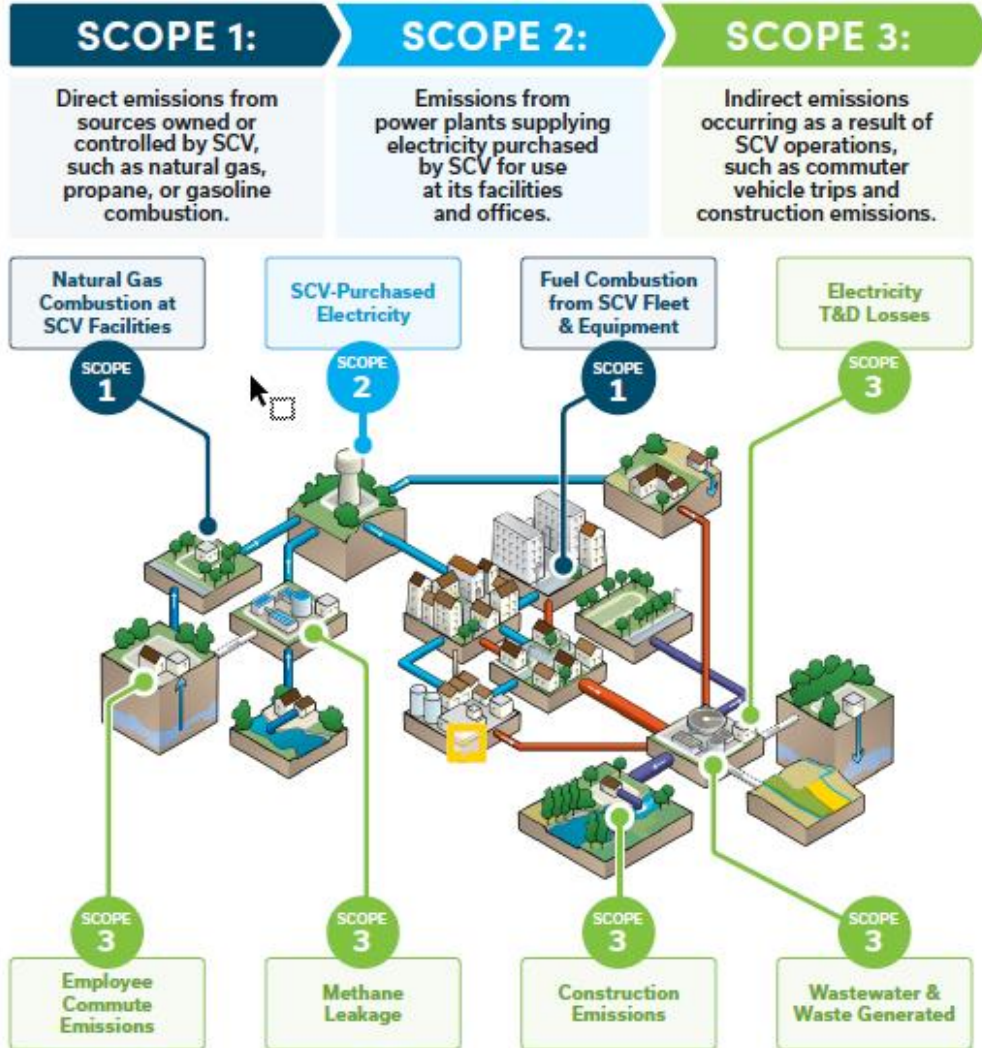
Energy & GHG Forecasting (Target Pathways)

Figure 4-1. Target Pathways



Measures & Recommendations

Figure 3-1. SCV Water's GHG Emission Sources by Scope



The GHG emissions inventory used activity data for each emission source to calculate emissions. Data for each emissions source was obtained from billing history, internal reports, and surveys.

Scope 1 Measures - 4 Measures

Scope 2 Measures - 2 Measures

Scope 3 Measures - 4 Measures

Co-Benefits

1. Reliable & Resilient Operations
2. High Quality Water & Resource Sustainability
3. Cost-Effective & Efficient
4. Transparency & Accountability

Next Steps



Submit Plan to SCV Water BOD for Consideration & Adoption



Develop Implementation Strategies, Priorities, and Cost-Effectiveness Protocols



Procure Consultant Support for Service Provision



Use of CAPDash and Annual Report to track progress of GHG measure implementation

Staff Recommendation

For the SCV Water - Water Resources and Watershed Committee recommend that the SCV Water Board of Directors Consider Adopting the Sustainability Plan at its Meeting on Tuesday, July 18, 2023.



Questions & Comments

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