



SCV
WATER

Approach for Sustainability Concepts

SCV Water Board of Directors Workshop

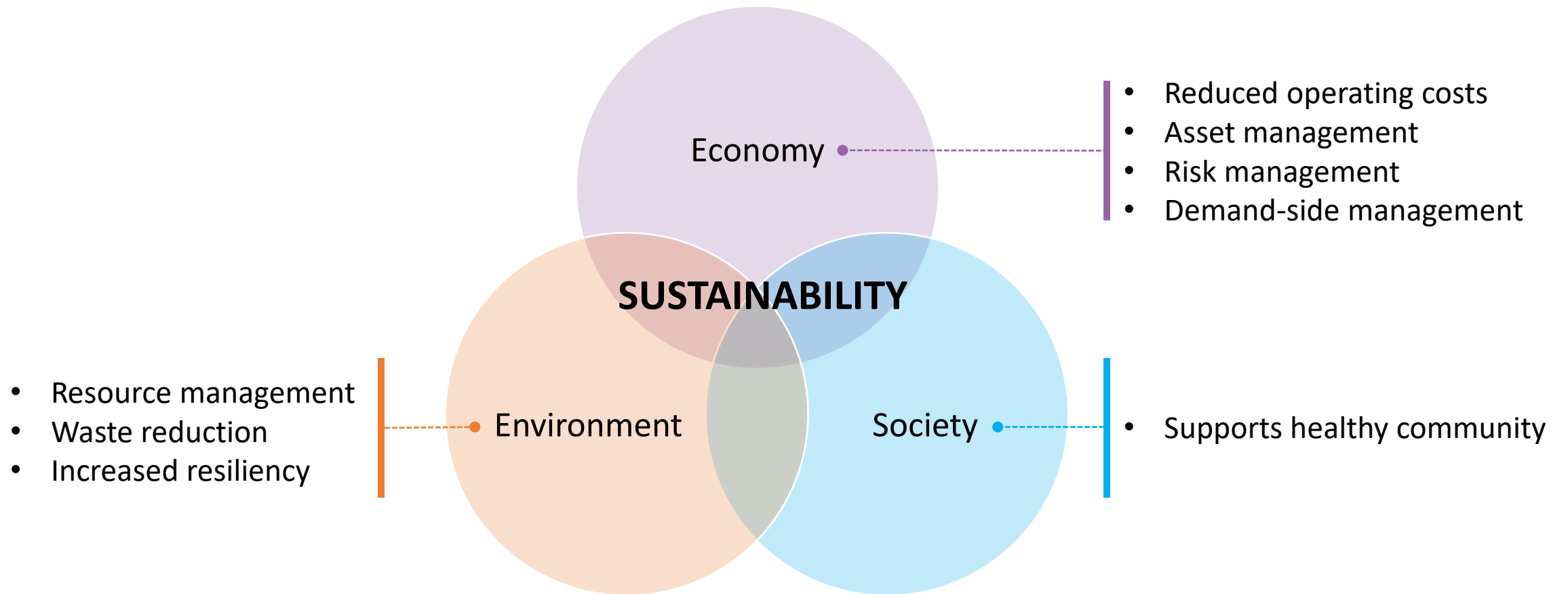
5/24/2022

Agenda

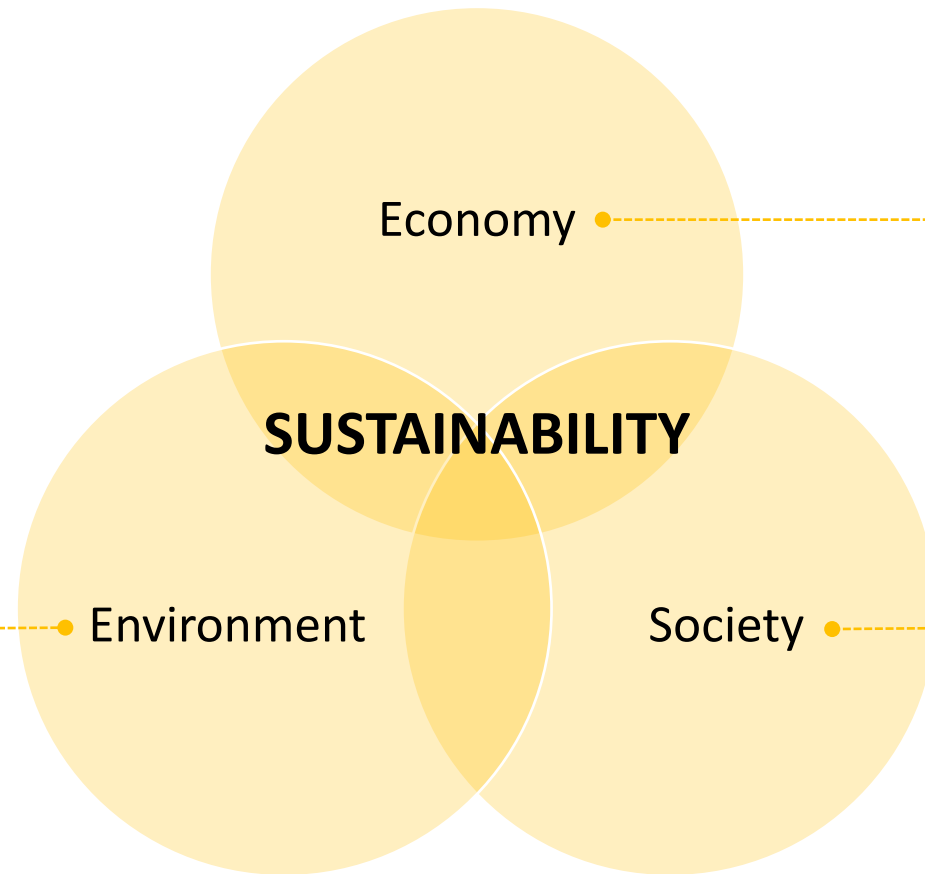
1. Sustainability Planning Overview
 1. Benefits
 2. Review of State and Local Efforts
 3. SCV Water Efforts
2. Structuring SCV Water Sustainability Plan
 1. Establishing Value-based Criteria
 2. Measuring Success
3. Measuring Sustainability Progress
 1. Common Metric
4. Sustainability Strategy Development



Benefits of Sustainability Planning



Benefits of Sustainability Planning *in California*



- Resource management
- Waste reduction
- Increased resiliency
- *Early-action addressing emission regulations*

- Reduced operating costs
- Asset management
- Risk management
- Demand-side management
- *Access to climate related funding*

- Supports healthy community
- *Sustainability leadership*

Sustainability Planning at the State Level



CALIFORNIA DEPARTMENT OF
WATER RESOURCES



- Climate Action Plan sets goal and strategies to achieve carbon neutrality by 2045
- Climate Change Program implements climate mitigation and adaption measures
 - Distributes Integrated Regional Water Management Grant Programs awards eligibility criteria include adopting IRWM Plan that addresses climate change impacts
- Adopted State Water Board's 2007 climate change resolution supporting implementation of California Global Warming Solutions Act of 2006 (AB 32)
- Adopted State Water Board's 2017 comprehensive response to climate change resolution
 - Climate change considerations embedded in all programs and activities (e.g., integration in grant loan applications)

What are other California Water Agencies doing?



Adopted Climate Action Plan (2022)
Reduce GHG emissions 40% below 1990 levels by 2030; carbon neutrality by 2045



Board of Directors adopted Regulation 11: Carbon Neutrality (2021)
Regulation requires DWD to be carbon neutral by 2027 and annually reduce GHG emissions



Adopted Climate Action Plan (2021)
Eliminate direct & indirect water system GHG emissions by 2030



Updating 2012 Energy and Greenhouse Gas Master Plan
Reduce energy and GHG emissions through specific projects, voluntarily reports on emissions



Strategic Plan (2016) Objective to reduce LVMWD Carbon Footprint
Invest in economic GHG reduction projects



Adopted Climate Change Action Plan (2021)
Reduce direct & indirect GHG emissions, expand the renewable energy portfolio, improve energy efficiency



Climate Change Action Registry Member
Reports on GHG emissions and setting policies and conducting projects to maximizing energy independence, reduce GHG emissions, and resiliency of water supplies



Adopted Climate Action & Adaptation Plan (2021)
Reduce GHG emissions 40% below 1990 levels by 2030

What does SCV Water accomplishing sustainability goals look like?

Attending Virtually?



Answer using interactive poll.

Attending via Phone?



Email answer to:
sustainability@scvwa.org

SCV Water's Existing Sustainability Plans & Efforts

Plans

- 2020 Sustainability Action Plan
 - Feasibility Analysis of Sustainable Measures

Sustainability Plan Benefits

- *Streamline efforts into single plan*
- *Funding opportunities*
- *Operation optimization*
- *Aids strategic investments*
- *Positions SCV Water as industry leader*

Update

- 2019 USC Capstone

Active Sustainable Measures

- Tele-Working
- LED Lighting
- Default Eco Mode
- Water Quality
- Reduce Water Use during Peaks
- Colored Bins
- Edible Plants
- Increase Cool Surfaces
- Water Efficiency Education

- Sustainable Water Supply
- Water Conservation Programs
- Use Up Water Through Distribution
- Unidirectional Flushing
- Appropriately Design and Maintain Gardens
- Organic Landscaping Program
- Ground Permeability
- Commissioning/Assurance
- Computer Replacement Program

SCV Water's Strategic Plan and Sustainability



Core Operational Pillars

- Reliable & Resilient Operations
- High Quality Water & Resource Sustainability
- Cost-Effective & Efficient
- Transparency & Accountability

SCV Water Mission:

Provide responsible water stewardship to ensure the Santa Clarita Valley has reliable supplies of high-quality water at a reasonable cost.

SCV Water Sustainability

Reliable and Resilient Operations

Address risk of energy shortages, power safety shutoffs, fire and drought to ensure operations remain resilient and reliable.

High Quality Water & Resource Sustainability

Responsible and sustainable stewardship of water resources allows for high quality water to be provided to SCV Water customers.

Cost-Effective and Efficient

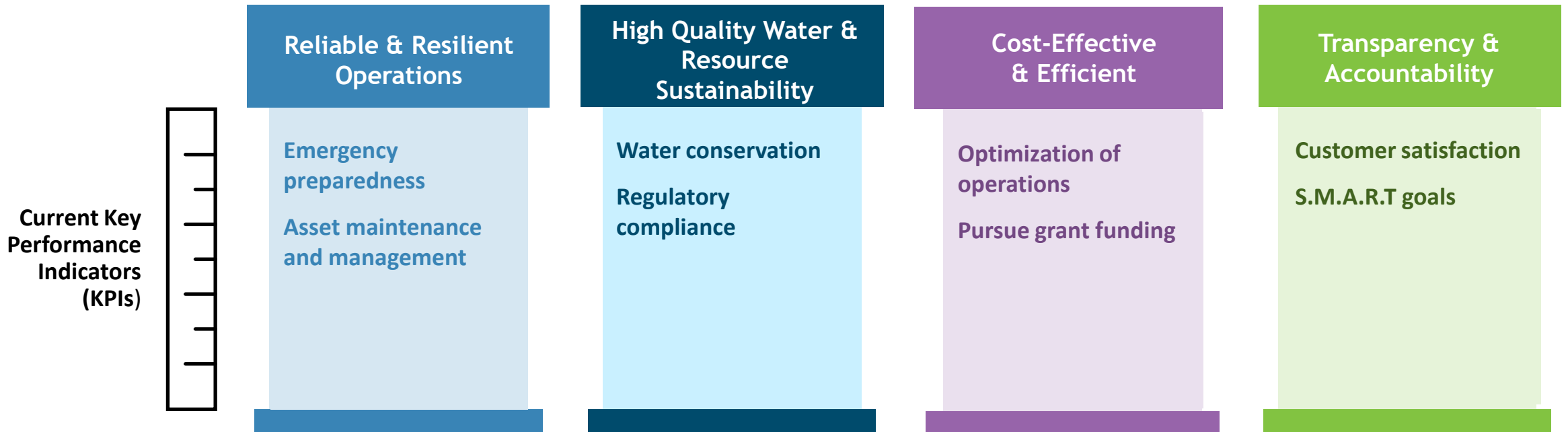
Water conservation and increased operational efficiencies allow for SCV Water to continue to provide water in a cost-effective manner.

Transparency and Accountability

SCV Water decisions are made in the best interest of the community it serves and protecting water resources for the community.

SCV Water Operations

How does SCV Water Measure Success?



What are some other ways SCV Water could measure success under these sustainability pillars?

Attending Virtually?



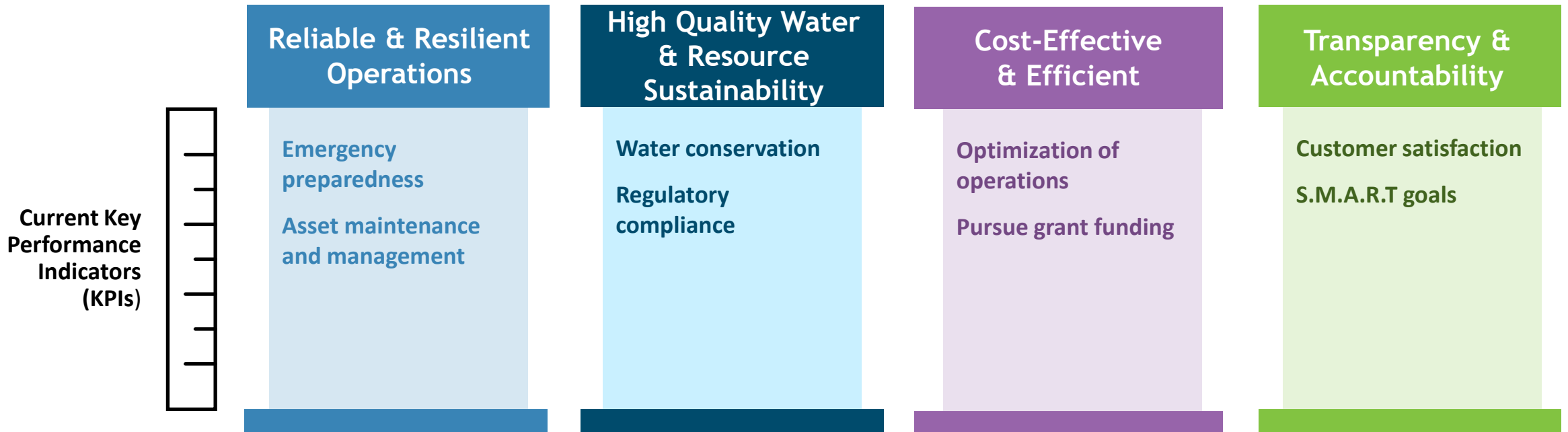
Answer using interactive poll.

Attending via Phone?



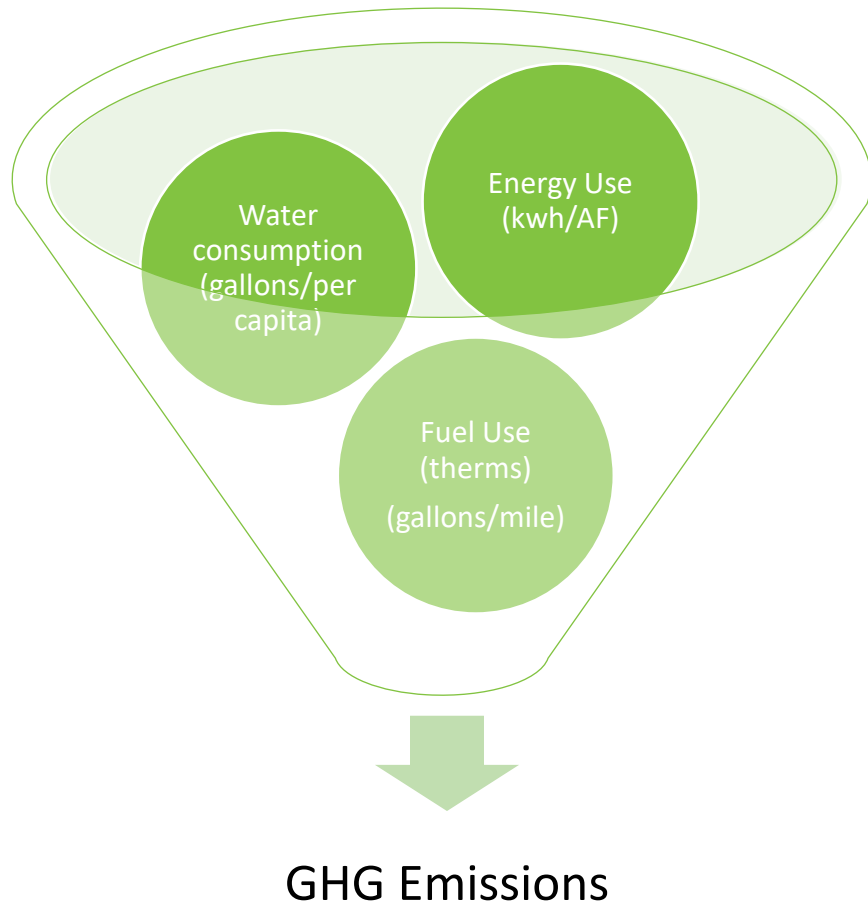
Email answer to:
sustainability@scvwa.org

How does SCV Water Measure Success?



★ *Measuring resource consumption (i.e., energy use, fuel use, water consumption) are common metrics to measure sustainability progress across all pillars.*

Why Measure and Track Sustainability Performance?



1. Provides single metric to quantify and compare past and current sustainability efforts across goals
2. GHG emissions are the common language used by the Federal Government, State, and industry standards to discuss sustainability
3. Opens door for State funding opportunities
4. Risk management for future State requirements related to GHG emissions tracking
5. Identify strategic investments for economical and impactful sustainability projects

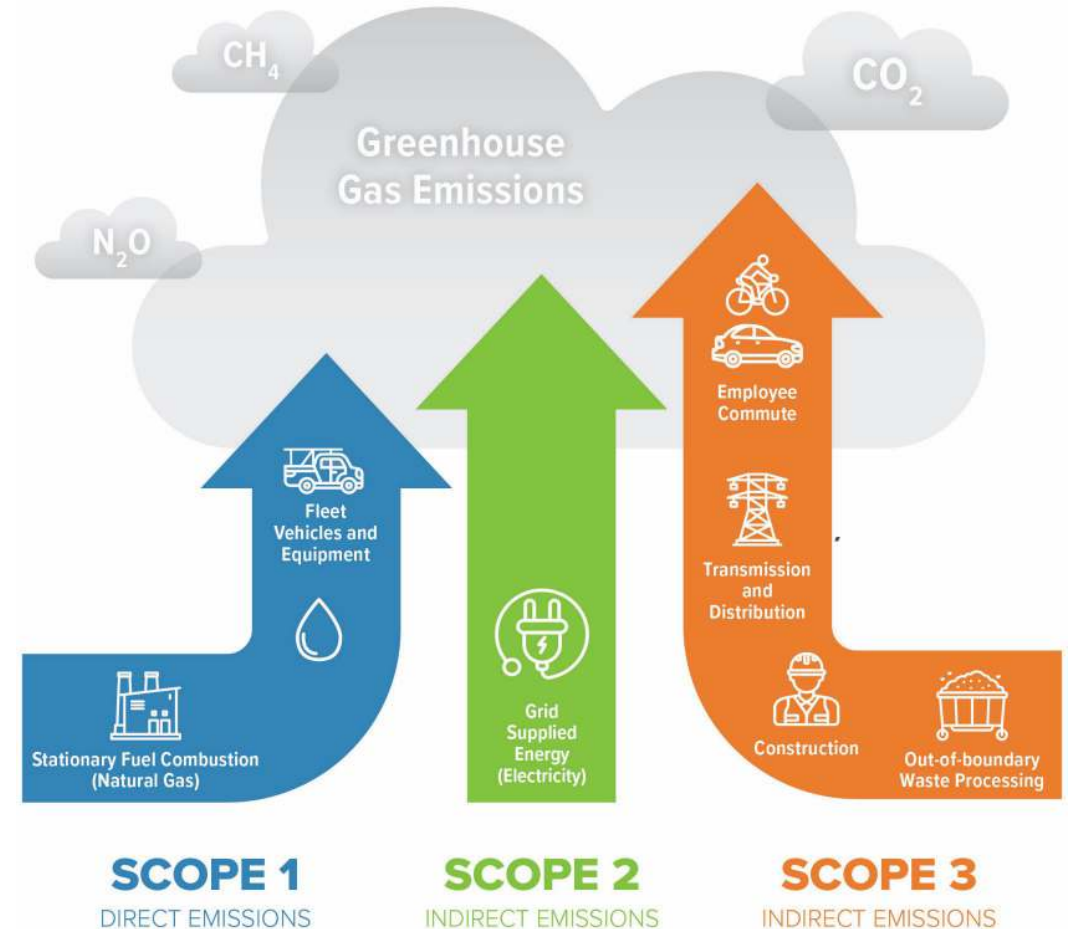
Funding Opportunities linked to Sustainability Planning (with GHG emissions tracking)

- The 2022-23 proposed Governor's Budget
 - **\$32 billion** over four years for state's Climate and Opportunity Budget
 - **Lots of funding and grant opportunities for plans and projects that can show sustainability progress with GHG emissions as metric**
- Integrated Regional Water Management (IRWM) Implementation Grant Program
 - **\$192 million** for awards in Round 2 funding
 - Eligible projects must include adopting IRWM Plan that addresses "climate change" impacts
- State Water Board Clean Water State Revolving Fund (CWSRF)
 - Finances projects from **\$1 - \$100 million**
 - Projects receive extra points if applicants have adopted a "climate change" action plan or policy

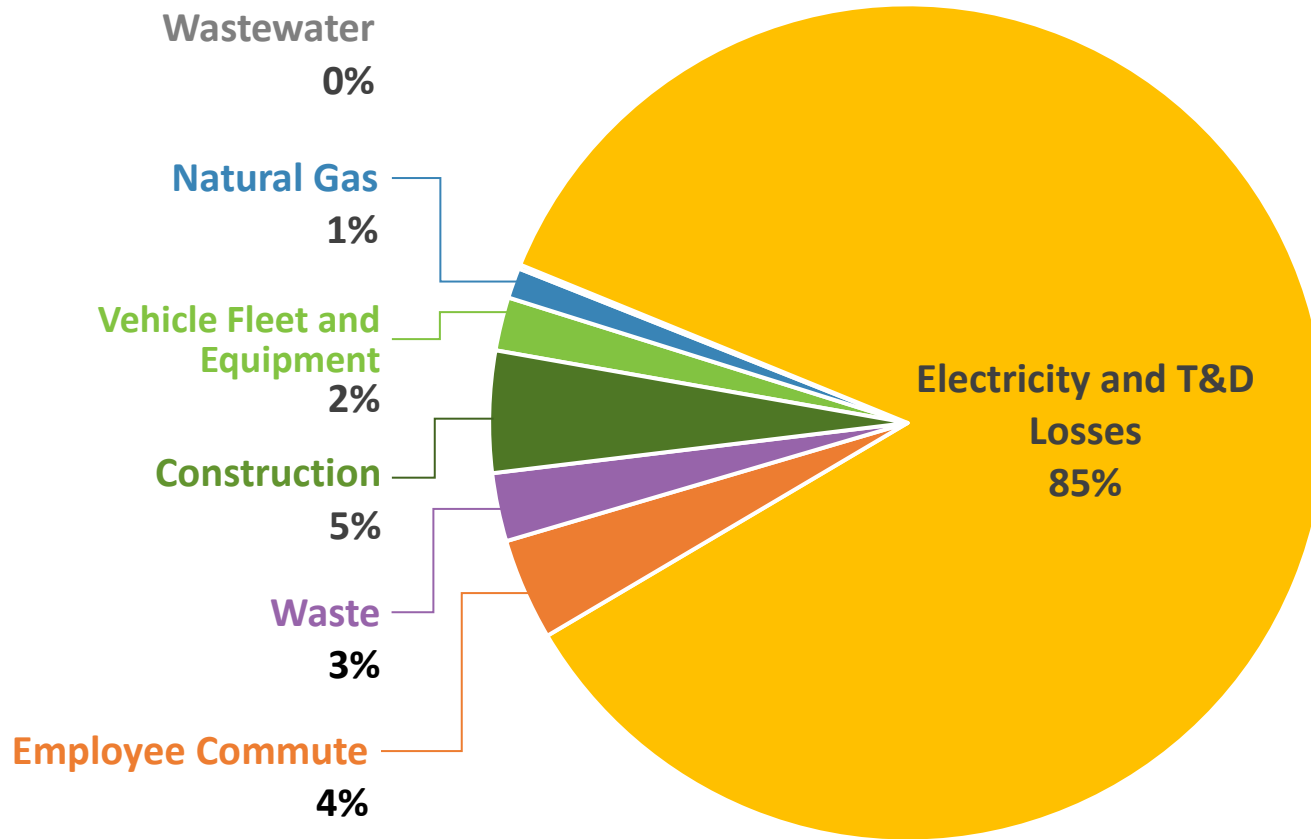
uction
state's

SCV Water Sustainability Plan Overview

- Establish inventory of baseline operations using GHG emissions as the metric
- Forecast future operations with GHG metric
- Develop sustainability roadmap that consolidates existing efforts and aligns strategies with SCV Water's operational pillars
 - KPI = GHG emissions

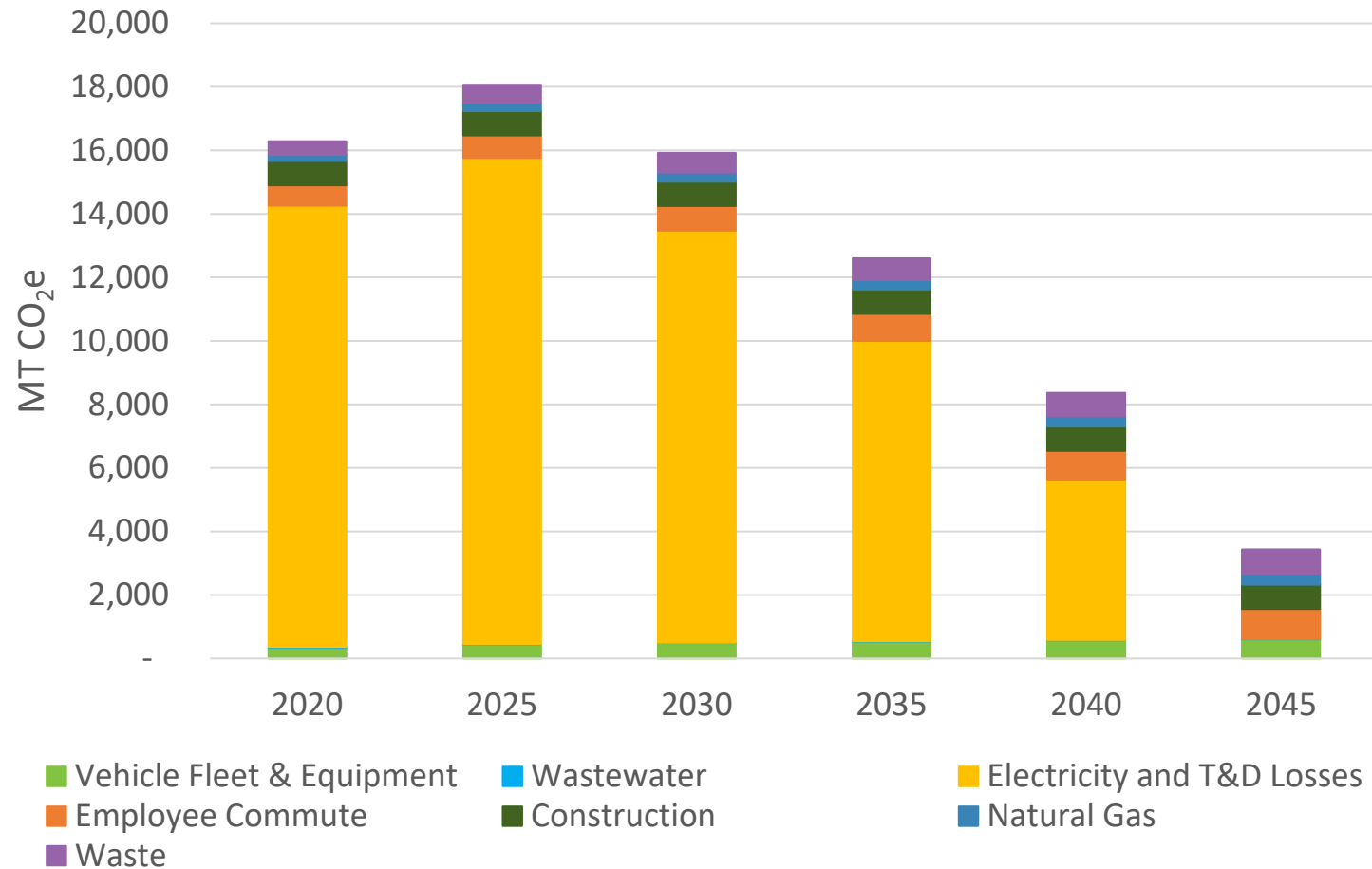


Establishing a Baseline: SCV Water GHG Inventory



- Using GHG emissions as a metric allows operations across SCV Water's sectors to be compared
- Helps identify areas with greatest impact from sustainability measure implementation

Planning for the Future: SCV Water Forecast



- Forecasting future operations allows for improved sustainability planning
- GHG emissions as metric allows continued comparison across SCV Water operational sectors and allows for State legislative Sustainability measures to be accounted for (e.g., Senate Bill 100)

Sustainability Strategy Development

Goals

- Aspirational statements regarding future achievement goals for key sectors



Measures

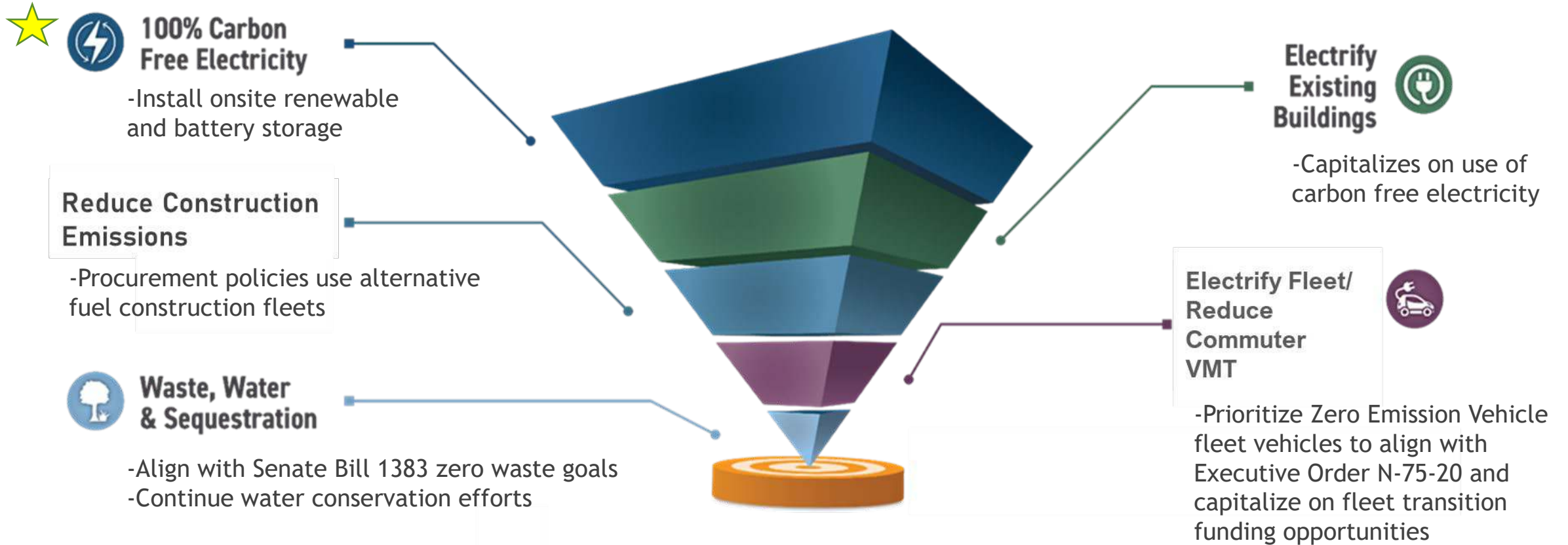
- Long-range policies developed to achieve specific sustainability goals (i.e., energy resiliency, energy efficiency, resource management)



Actions

- Specific programs or steps that support sustainability measures

Examples of Sustainability Strategies



SCV Water Mission:

Provide responsible water stewardship to ensure the Santa Clarita Valley has reliable supplies of high-quality water at a reasonable cost.

SCV Water Sustainability Goal

Reliable & Resilient Operations

Implement Self-Generation Incentive Program (SGIP) Projects
HVAC Software
Low Impact Design

High Quality Water & Resource Sustainability

Water Conservation Programs
Tele-Working Policy
Upgrade lighting with LEDs

Cost-Effective & Efficient

Energy efficiency efforts
Coordinate Projects

Transparency & Accountability

Water Efficiency Education
Electronic Media



Progress can be measured with Resource Consumption, GHG Emissions, and other existing KPIs

What are future projects
and actions that SCV
Water could
implement under these
four sustainability pillars?

Attending Virtually?



Answer using interactive poll.

Attending via Phone?



Email answer to:
sustainability@scvwa.org



Thank You!

Erica Linard, PhD

Sustainability Project Manager

Rincon Consultants, Inc.

elinard@rinconconsultants.com

Ryan Gardner, MESM, ENV-SP

Climate Action Program Manager

Rincon Consultants, Inc.

rgardner@rinconconsultants.com