

C0. Introduction

C0.1

(C0.1) Give a general description and introduction to your organization.

American States Water Company is the parent of Golden State Water Company (GSWC), Bear Valley Electric Service, Inc. (BVES) and American States Utility Services, Inc. (ASUS), serving over one million people in nine states. Through its water utility subsidiary, Golden State Water Company, the company provides water service to approximately 263,000 customer connections located within more than 80 communities in Northern, Coastal and Southern California. Through its electric utility subsidiary, Bear Valley Electric Service, Inc., the company distributes electricity to approximately 24,700 customer connections in the City of Big Bear Lake and surrounding areas in San Bernardino County, California. Through its contracted services subsidiary, American States Utility Services, Inc., the company provides operations, maintenance and construction management services for water distribution, wastewater collection, and treatment facilities located on 11 military bases throughout the country under 50-year privatization contracts with the U.S. government.

American States Utility Services (ASUS) assets are owned by the Department of Defense (DoD), therefore the ASUS operations do not fall within the Financial Control Inventory boundary and are excluded from this disclosure. This approach is consistent with how other similar water utilities address emissions from DoD facilities.

C0.2

(C0.2) State the start and end date of the year for which you are reporting data and indicate whether you will be providing emissions data for past reporting years.

Reporting year

Start date

January 1 2022

End date

December 31 2022

Indicate if you are providing emissions data for past reporting years

Yes

Select the number of past reporting years you will be providing Scope 1 emissions data for

1 year

Select the number of past reporting years you will be providing Scope 2 emissions data for

1 year

Select the number of past reporting years you will be providing Scope 3 emissions data for

Not providing past emissions data for Scope 3

C0.3

(C0.3) Select the countries/areas in which you operate.

United States of America

C0.4

(C0.4) Select the currency used for all financial information disclosed throughout your response.

USD

C0.5

(C0.5) Select the option that describes the reporting boundary for which climate-related impacts on your business are being reported. Note that this option should align with your chosen approach for consolidating your GHG inventory.

Financial control

C0.8

(C0.8) Does your organization have an ISIN code or another unique identifier (e.g., Ticker, CUSIP, etc.)?

Indicate whether you are able to provide a unique identifier for your organization	Provide your unique identifier
Yes, a Ticker symbol	AWR

C1. Governance

C1.1

(C1.1) Is there board-level oversight of climate-related issues within your organization?

Yes

C1.1a

(C1.1a) Identify the position(s) (do not include any names) of the individual(s) on the board with responsibility for climate-related issues.

Position of individual or committee	Responsibilities for climate-related issues
Board-level committee	<p>On the board of directors: The Nominating & Governance Committee provides board level oversight on climate-related issues.</p> <p>The Audit & Finance Committee oversees climate-related items that are regularly included in the company's capital expenditures budget.</p> <p>The Compensation Committee oversees and guides climate-related goals for the company's officers' incentive plans.</p> <p>With a dedicated Enterprise Risk Management (ERM) liaison on the board of directors, the board oversees ERM, performed under the direction of the senior management team.</p>

C1.1b

(C1.1b) Provide further details on the board's oversight of climate-related issues.

Frequency with which climate-related issues are a scheduled agenda item	Governance mechanisms into which climate-related issues are integrated	Scope of board-level oversight	Please explain
Scheduled – some meetings	<p>Reviewing and guiding annual budgets</p> <p>Overseeing major capital expenditures</p> <p>Overseeing acquisitions, mergers, and divestitures</p> <p>Reviewing innovation/R&D priorities</p> <p>Overseeing and guiding employee incentives</p> <p>Reviewing and guiding strategy</p> <p>Overseeing the setting of corporate targets</p> <p>Monitoring progress towards corporate targets</p> <p>Reviewing and guiding the risk management process</p>	<Not Applicable>	<p>The Nominating & Governance Committee is responsible for overseeing the preparation of the Corporation's Environmental, Social and Governance (ESG) Report and practices. These include climate-related issues such as GHG emissions inventory and reduction targets. Our CEO briefs both the Nominating & Governance Committee on these issues, as well as the full board when appropriate.</p> <p>In addition, climate-related items are regularly included in the company's capital expenditures budget, which is overseen by the board's Audit & Finance Committee. Budget items may include replacing aged pipe to reduce water loss to combat drought conditions, fortifying our assets against wildfires, improving water quality, investing in technology to reduce energy use, or the purchase of generators in case of electricity loss or Public Safety Power Shut-Off (PSPS) event.</p> <p>Our board's Compensation Committee oversees and guides climate-related goals for the company's officers' incentive plans, which includes the dollar amount spent on capital expenditures in a given fiscal year.</p> <p>Lastly, the board oversees enterprise risk management, or ERM, performed under the direction of the senior management team. The board satisfies this responsibility by obtaining information from each committee chair regarding the committee's risk oversight activities and the ERM liaison between the board and management and from regular reports directly from officers, the management sustainability oversight team and other key management personnel responsible for risk identification, risk management and risk mitigation strategies. The reporting processes are designed to provide visibility to the board about the identification, assessment and management of critical risks and management's risk mitigation strategies.</p> <p>On a quarterly basis, management discusses critical risks including any newly identified critical risks and the implementation status of plans to mitigate these risks, with the ERM liaison and the committees that are in charge of the risks within their areas of responsibility. Each committee chair and the ERM liaison provide a report to the full board regarding the critical risks discussed, management's mitigation plans and implementation of the ERM program and other matters relevant to the risk oversight responsibilities of the board. On an annual basis, management also provides to the ERM liaison, each committee and the board an updated list of all critical and medium risks identified by management, an assessment of the company's financial exposure should the risk not be mitigated and management's assessment of the probability of an event occurring given the company's mitigation plans. Each committee chair and the ERM liaison review and comment on this information. Thereafter, each committee chair and the ERM liaison report to the full board on the results of its consideration of enterprise risks within its area of responsibility.</p>

C1.1d

(C1.1d) Does your organization have at least one board member with competence on climate-related issues?

	Board member(s) have competence on climate-related issues	Criteria used to assess competence of board member(s) on climate-related issues	Primary reason for no board-level competence on climate-related issues	Explain why your organization does not have at least one board member with competence on climate-related issues and any plans to address board-level competence in the future
Row 1	Yes	Competence is based on professional experience with climate-related subjects. In 2022, the company held board education on environmental, social and governance trends and the status of the implementation by management of strategic plan initiatives relating to environmental and social matters.	<Not Applicable>	<Not Applicable>

C1.2

(C1.2) Provide the highest management-level position(s) or committee(s) with responsibility for climate-related issues.

Position or committee

Chief Executive Officer (CEO)

Climate-related responsibilities of this position

- Managing annual budgets for climate mitigation activities
- Managing major capital and/or operational expenditures related to low-carbon products or services (including R&D)
- Providing climate-related employee incentives
- Integrating climate-related issues into the strategy
- Setting climate-related corporate targets
- Monitoring progress against climate-related corporate targets
- Managing public policy engagement that may impact the climate
- Assessing climate-related risks and opportunities
- Managing climate-related risks and opportunities

Coverage of responsibilities

<Not Applicable>

Reporting line

Reports to the board directly

Frequency of reporting to the board on climate-related issues via this reporting line

Quarterly

Please explain

The CEO has overall responsibility for the strategic direction of the company, including the integration of climate-related issues. This includes the annual budget, capital spending, setting management annual incentives for the amount of capital expenditures in a fiscal year, setting a GHG target and ensuring we're on track to meet the target, and managing our engagement with various persons and organizations related to climate issues.

The CEO reports to the entire board on specific climate-related issues, as well as specific committees on other matters, including the Nominating & Governance Committee, Audit & Finance Committee and Compensation Committee.

C1.3

(C1.3) Do you provide incentives for the management of climate-related issues, including the attainment of targets?

	Provide incentives for the management of climate-related issues	Comment
Row 1	Yes	

C1.3a

(C1.3a) Provide further details on the incentives provided for the management of climate-related issues (do not include the names of individuals).

Entitled to incentive

Corporate executive team

Type of incentive

Monetary reward

Incentive(s)

Bonus - % of salary

Performance indicator(s)

Achievement of a climate-related target

Incentive plan(s) this incentive is linked to

Short-Term Incentive Plan

Further details of incentive(s)

The company grants short-term cash performance incentive awards to motivate the management team to maximize the company's performance from a financial, operations and customer service perspective. The company believes that the performance incentives set forth in our annual short-term cash incentive program will encourage achievement of our objectives.

One performance goal is the annual dollar amount spent on regulated utilities' capital expenditures. As an example, our CEO is entitled to a bonus of 10% of his salary if the company achieves the capital expenditures performance target for the fiscal year.

Explain how this incentive contributes to the implementation of your organization's climate commitments and/or climate transition plan

Capital expenditure dollars are used to build, maintain, repair and replace the company's infrastructure, and is clearly tied to climate-variability issues such as water supply, drought, wildfire planning and resiliency, efficient and resilient infrastructure, reducing energy use, and overall goal of maintaining a strong infrastructure to deliver needed services in spite of climate variability.

Our company prides itself on developing assets that create sustainable, long-term value. We make infrastructure investments with a long-term perspective. Besides replacing deteriorating systems, we have the opportunity to build and replace for the future, taking into account climate resilience, operating risks, and new design standards.

We understand there are risks and threats to our water systems. These include deteriorating infrastructure, natural disasters, climate variability, drought, emerging contaminants, impacts from wildfires and acts of terrorism or vandalism. Per- and Polyfluoroalkyl Substances (PFAS), Cyanotoxins, Micro-plastics, and Legionella are some of the emerging contaminants that we are following and addressing, as needed, as part of our water quality efforts. We include these potential risks and events in our strategic planning process as we aim to avoid service interruptions and continue to provide high quality water to our customers.

C2. Risks and opportunities

C2.1

(C2.1) Does your organization have a process for identifying, assessing, and responding to climate-related risks and opportunities?

Yes

C2.1a

(C2.1a) How does your organization define short-, medium- and long-term time horizons?

	From (years)	To (years)	Comment
Short-term	0	1	On a continuous basis, the company tracks, monitors, and takes action as needed regarding climate-related and operational issues in order to provide our customers with safe and reliable service. We are active in conservation activities and education with our customers as we aim to protect our water supply and promote conservation. We commit approximately \$120 million to \$170 million annually to capital investment, which includes some climate-related investments.
Medium-term	1	5	Climate change is one area that we focus on as we develop and execute our business strategy and financial planning. The company considers the potential impacts of climate change to its water supply portfolio planning and its overall infrastructure replacement plans. We evaluate how water supplies, water quality and water demands may change, including mitigation strategies to ensure water continues to reach our customers. We expect to continue to spend on infrastructure/capital expenditures each year to address these issues in the medium- and long-term.
Long-term	5	50	Our company has provided essential services for over 90 years, and we plan for the long term resiliency of our systems for decades to come. This includes strategic planning, research, infrastructure investments, and anticipating the challenges and opportunities that the company will face. Success for the long-term begins with planning today.

C2.1b

(C2.1b) How does your organization define substantive financial or strategic impact on your business?

A substantive financial or strategic impact on our business is defined in our risk management process. According to this process, risks are assigned both an Impact Rating and a Likelihood Rating. The risk ratings are 1, 3, and 9 for ratings of low, medium, and high, respectively. Each risk is then assigned a Final Risk Rating, which is the multiplication of the Impact Rating and the Likelihood Rating. Anything with a Final Risk Rating of 27 or greater is considered to have a substantive impact on our business.

The Impact Rating represents the significance of the risk and its impact on the company should the risk not be mitigated using the most recent overall materiality thresholds from our independent registered public accounting firm. For instance, if the financial exposure is greater than \$4.5 million, it receives a rating of 9, the highest Impact Risk.

The Likelihood Rating is based on the probability of the event occurring, given the mitigation plans in place. For instance, if the event is more likely than not to occur in the next three years, it receives a rating of 9, the highest Likelihood Rating.

C2.2

(C2.2) Describe your process(es) for identifying, assessing and responding to climate-related risks and opportunities.

Value chain stage(s) covered

Direct operations
Upstream
Downstream

Risk management process

Integrated into multi-disciplinary company-wide risk management process

Frequency of assessment

More than once a year

Time horizon(s) covered

Short-term
Medium-term
Long-term

Description of process

Risk is inherent in the operating environments of all our business segments. The company takes an integrated approach to risk management in its business activities to drive consistent, effective, and accountable action in all decision-making and management practices. We maintain an Enterprise Risk Management (ERM) process to assist with the identification and prioritization of short, medium and long term risks across the company (including climate related risks), as well as with the development and implementation of risk mitigation strategies. We have identified the top enterprise risks through the ERM process, and the risk mitigation strategies for our key risks are reviewed with the board on a quarterly basis. Each committee chair and the ERM liaison review and comment on this information. Thereafter, each committee chair and the ERM liaison report to the full board on the results of its consideration of enterprise risks within its area of responsibility.

On an annual basis, management also provides to the board's ERM liaison, each committee and the board an updated list of all medium risks identified by management, an assessment of the company's financial exposure should the risk not be mitigated and management's assessment of the probability of an event occurring given the company's mitigation plans. Each committee chair and the ERM liaison review and comment on this information. Thereafter, each committee chair and the ERM liaison report to the full board on the results of its consideration of enterprise risks within its area of responsibility.

For our downstream value chain, there are risks to maintaining adequate water quality and/or supply, either from climate variability or other events. They include droughts, changes in weather patterns, natural disasters, wildfires, decisions or actions restricting the use of water from our sources, and/or pumping of groundwater and contamination or acts of terrorism or vandalism. We consider these potential events in our strategic planning process as we aim to avoid service interruptions and compromised water quality. A key opportunity and priority for the company is our aggressive promotion of water conservation by our customers in order to maintain an adequate supply of water, as well as reduce energy consumption by pumping less water, therefore lowering our GHG emissions.

For our upstream value chain, we rely on purchased water for approximately 50% of our water supply. Maintaining good contracts and relations with these providers is essential to our business. In addition, in order to reduce our GHG emissions, in 2022 we adjusted our electricity purchasing practices to procure more renewable power than in the past.

C2.2a

(C2.2a) Which risk types are considered in your organization's climate-related risk assessments?

	Relevance & Inclusion	Please explain
Current regulation	Relevant, always included	<p>Water and electric utilities operate in a highly regulated environment. Federal, state, and local regulations set various standards. The ability to meet current standards can be influenced by climate-related risks. Failure to meet current regulations could result in service interruptions, reputational, financial, and permit related violations.</p> <p>For example, our electric business (BVES) is subject to the renewables portfolio standard ("RPS") law, which requires BVES to meet certain targets for purchases of energy from qualified renewable energy resources. BVES has a strategy of procuring a mix of renewable energy credits and renewable energy, which will allow the company to meet the California Public Utilities Commission's (CPUC's) RPS requirements. In 2022, renewable power represented 38.5% of BVES's total electric supply purchases. Renewable Energy Procurement requirements continue to escalate, reaching 50% by 2026 and 100% carbon free by 2045. We may be subject to fines and penalties by the CPUC if it determines that we are not in compliance with the renewable resource procurement rules.</p> <p>In addition, BVES has implemented CPUC-approved energy efficiency and solar-initiative programs, and is considering developing a solar generation facility.</p>
Emerging regulation	Relevant, always included	<p>We track any climate-related issues in relation to emerging regulations. Failure to do so could result in service interruptions, reputational, financial, and permit related violations.</p> <p>For example, to deal with intermittent drought conditions in the state, California is moving forward with indoor and outdoor water use standards as well as water loss standards, and state agencies and water suppliers, including our company, continue to work on meeting the standards. We are engaged in the iterative process with regulators to ensure that we will be able to meet the standards within the regulatory schedule. Over the long-term, failure to meet the water use and water loss standards will result in fines being assessed on those water systems out of compliance with the standards.</p>
Technology	Relevant, always included	<p>We operate in an environment of rapid technological developments, changes in industry standards, and demands of customers to become more efficient. Decarbonization and water efficiency are also significant drivers of technology development within the energy and water sector.</p> <p>The company utilizes a variety of technologies to better serve its customers, lower costs, increase efficiencies, reduce power usage, reduce risk and help prepare and mitigate the effects of climate-related issues. Because technology changes and improves, we regularly look to current and future options as we assess climate-related issues. Considerations are also given to the level of risk reduction, cost savings, life cycle cost, and cost recovery in the regulatory rate recovery process. For example, through the use of advanced technology, we have modernized and centralized our field data collection and water quality data management activities. Real-time data availability and advanced water quality data management/analysis activities have helped us make sound decisions and stay in compliance with water quality regulations. In addition, automation has helped us more efficiently route field staff, reducing fuel usage of company vehicles.</p> <p>Failure to keep up with advancements in technology to help decarbonize our business and/or unsuccessful investment in new technologies therefore presents potential risks to our business. In addition achievement of our GHG reduction target is contingent on certain external factors, which include the ongoing development of technology, and successful achievement by the state of California in reaching its Renewables Portfolio Standard goal for this period.</p>
Legal	Relevant, always included	<p>Our goal is to provide safe and reliable water and electric services to our customers. If we are unable to do so, we are subject to an elevated legal risk from increased litigation activity. In addition, water and electric utilities operate in a highly regulated environment, therefore failure to comply with applicable climate related regulations also presents risk. Through our business planning and execution, we aim to counter any climate variability effects in order to provide safe and reliable service to customers, including water loss, drought and water supply, effects of wildfires, etc. Risks are included in the ERM process and addressed at the board level.</p>
Market	Relevant, always included	<p>Climate-related changes in market conditions, including changes in the behavior of our customers and an increases in the cost of the goods and services we procure (for example energy), is a potential risk to the company.</p> <p>For example, achievement of our target to reduce our GHG emissions by 60% by 2035 is contingent on certain external factors, including the purchasing of renewable energy for the water operations. Should the company be unable to purchase sufficient renewable energy due to increased costs and/or availability, it may be unable to achieve the GHG reduction target.</p>
Reputation	Relevant, always included	<p>We recognize that changing customer perceptions of our organization's contribution to, or detraction from, the transition to a lower-carbon economy is a potential reputational risk.</p> <p>We are a publicly-traded company, providing essential services to more than one million people. Confidence in our company and upholding a positive reputation is important as it relates to our stakeholders: customers, regulators, vendors, employees and shareholders. There is reputational risk inherent in our business, such as failure to meet demand, meeting water quality standards and major asset failure. Because of this, our reputation is vital, and included into our climate-related risk assessments. We integrate environmental, social, and governance (ESG) policies and practices into our daily operations for long-term financial sustainability.</p>
Acute physical	Relevant, always included	<p>Our business could be directly affected by acute physical impacts of climate change such as more frequent short-term business disruptions caused by severe weather (such as floods) and also droughts could impact our short term ability to maintain adequate water quality and electric services without interruption. As a utility company, our operating strategy is dependent on having a reliable infrastructure in place and as a provider of an essential product and service, our primary goal is to ensure service is uninterrupted.</p> <p>We maintain an Enterprise Risk Management (ERM) process to assist with the identification and prioritization of risks across the company, as well as with the development and implementation of risk mitigation strategies.</p>
Chronic physical	Relevant, always included	<p>Long-term changes in weather patterns presents a risk to our business in terms of maintaining adequate water quality and/or supply.</p> <p>Our risk management process therefore also examines chronic physical risks. In many cases, these risks can be mitigated through the capital investment program, including new supplies or construction of a new facility to replace an aged facility that has reached the end of its useful life. We include chronic physical risks so that we can continue to provide safe and reliable water and electric services to our customers.</p> <p>Reducing water loss is especially important due to intermittent drought conditions in California. A major way to reduce water loss is by reducing leaks. We have an aggressive Pipeline Management Program (PMP) to address the continuous need to repair and replace our vast pipeline infrastructure to accomplish this. We also focus on managing pressure within our distribution systems to optimize pumping efficiency and to lower power demands as well as to reduce leakage and stress on the distribution assets caused by system pressure fluctuations. In addition, our water utility has an established Water Audit and Leak Detection program in order to identify leaks in our water system and correct them as soon as possible.</p>

C2.3

(C2.3) Have you identified any inherent climate-related risks with the potential to have a substantive financial or strategic impact on your business?

Yes

C2.3a

(C2.3a) Provide details of risks identified with the potential to have a substantive financial or strategic impact on your business.

Identifier

Risk 1

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Chronic physical	Changing precipitation patterns and types (rain, hail, snow/ice)
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Primary potential financial impact

Increased direct costs

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

Water Supply Risk due to climate change and California's outdated water resource model that heavily relies on annual precipitation to meet the annual water supply needs of the state is a substantive risk to our business.

Climate change has resulted in increased frequency and duration of droughts, potential degradation of water quality, and changes in demand for services. More frequent and extended California drought conditions may cause increased stress on surface water supplies and groundwater basins, as well as allocation of water from the State Water Project and the Colorado River. Wholesale water suppliers may not have adequate supply during extended periods of drought, which may not only result in price uncertainty, but also in water use regulations, conservation mandates and water use restrictions. In addition, GSWC could experience an increased use of reclaimed or recycled water by GSWC customers, in lieu of GSWC supplying potable water to these customers. Reclaimed water generally has lower tariff rates than potable water. Prolonged droughts may also result in state-ordered mandatory or voluntary conservation efforts by customer, changes in customer conservation patterns and imposition of new regulations impacting such things as landscaping and irrigation patterns.

Time horizon

Medium-term

Likelihood

More likely than not

Magnitude of impact

Low

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

The impact has not been quantified financially.

Cost of response to risk

0

Description of response and explanation of cost calculation

The risks posed by climate variability and changing precipitation patterns increase the need for us to plan for and address supply resiliency. We address these risks by planning, assessing, mitigating, and investing in our infrastructure for the long-term benefit of our communities. As a provider of an essential product and service, our primary goal is to ensure service is uninterrupted.

Our water business considers the potential impacts of climate change in its water supply portfolio planning and its overall infrastructure replacement plans. We evaluate how water supplies, water quality and water demands may change, and consider mitigation strategies to assist us in being able to deliver water to our customers.

Our goal is to maintain adequate and high-quality water supplies. We strive to reach this goal in a number of ways, including monitoring water levels, short- and long-term water supply planning, having a diverse water supply portfolio, developing contingency plans, water efficiency and conservation efforts, and maintaining a strong infrastructure.

We carefully monitor the water levels to help ensure operational efficiencies when pumping and identify any impacts on the aquifer. We use groundwater models in certain areas and work with other pumpers in our same basins to monitor the amount of water in the aquifer to help manage the reliability of the basins.

The cost to mitigate this risk has not been quantified financially.

Comment

C2.4

(C2.4) Have you identified any climate-related opportunities with the potential to have a substantive financial or strategic impact on your business?

Yes

(C2.4a) Provide details of opportunities identified with the potential to have a substantive financial or strategic impact on your business.**Identifier**

Opp1

Where in the value chain does the opportunity occur?

Direct operations

Opportunity type

Resource efficiency

Primary climate-related opportunity driver

Use of more efficient production and distribution processes

Primary potential financial impact

Reduced direct costs

Company-specific description

As a result of climate-related intermittent drought conditions in our California water utility service regions, we have a substantive financial opportunity to increase capital spending to deal with the drought affects. In order to preserve this precious resource so that our customers continue to have access to safe and reliable water, a major opportunity for us is to reduce water loss in our system. We have an aggressive Pipeline Management Program (PMP) to address the continuous need to repair and replace our vast pipeline infrastructure to reduce water loss and improve operational reliability and resiliency. Drought conditions also negatively impact systems that have not made adequate investments in their water infrastructure to improve operational resiliency. GSWC operates in areas that have these types of systems and as a result, opportunities to acquire these systems increase during times of drought, which creates the potential to have substantive financial or strategic impact on our business. Finally, drought conditions often impact the quantity and quality of water available in the groundwater basins, which requires the need to install new pumping equipment and/or water treatment systems.

Time horizon

Medium-term

Likelihood

Likely

Magnitude of impact

Medium

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

The impact has not been quantified financially.

Cost to realize opportunity

0

Strategy to realize opportunity and explanation of cost calculation

GSWC's robust operation and business activities provide us with detailed and current data regarding the operating conditions of our water systems. Specifically, we monitor the following areas:

- Ongoing monitoring of water supply conditions in all GSWC systems as well as statewide water supply conditions.
- Ongoing monitoring of water quantity and quality conditions
- Ongoing monitoring of system water loss
- Ongoing interaction with state regulators regarding regional and adjacent water systems that are out of compliance with regulatory standards (quantity and quality standards).

As a result of these business activities, GSWC is able to respond timely and effectively to address operational impacts due to drought conditions.

Comment**C3. Business Strategy****C3.1**

(C3.1) Does your organization’s strategy include a climate transition plan that aligns with a 1.5°C world?

Row 1

Climate transition plan

No, our strategy has been influenced by climate-related risks and opportunities, but we do not plan to develop a climate transition plan within two years

Publicly available climate transition plan

<Not Applicable>

Mechanism by which feedback is collected from shareholders on your climate transition plan

<Not Applicable>

Description of feedback mechanism

<Not Applicable>

Frequency of feedback collection

<Not Applicable>

Attach any relevant documents which detail your climate transition plan (optional)

<Not Applicable>

Explain why your organization does not have a climate transition plan that aligns with a 1.5°C world and any plans to develop one in the future

Our recent efforts have focused on developing our GHG inventory, putting a target reduction goal in place of 60% by 2035 based on 2020 baseline numbers, and working to achieve that goal. We are also considering developing our Scope 3 emissions inventory.

Explain why climate-related risks and opportunities have not influenced your strategy

<Not Applicable>

C3.2

(C3.2) Does your organization use climate-related scenario analysis to inform its strategy?

	Use of climate-related scenario analysis to inform strategy	Primary reason why your organization does not use climate-related scenario analysis to inform its strategy	Explain why your organization does not use climate-related scenario analysis to inform its strategy and any plans to use it in the future
Row 1	No, and we do not anticipate doing so in the next two years	Important but not an immediate priority	<p>Our recent efforts have focused on developing our GHG inventory, putting a target reduction goal in place of 60% by 2035 based on 2020 baseline numbers, and working to achieve that goal. We are also considering developing our Scope 3 emissions inventory.</p> <p>Our water business considers the potential impacts of climate change in its water supply portfolio planning and its overall infrastructure replacement plans. We evaluate how water supplies, water quality and water demands may change, including mitigation strategies to ensure water continues to reach our customers. For example, we carefully monitor the groundwater levels to help ensure operational efficiencies when pumping and identify any impacts on the aquifer. We use groundwater models in certain areas and work with regional pumpers and groundwater management agencies in many of our basins to ensure that the basin remains a reliable source of water over the long term.</p> <p>However, we do not anticipate conducting formal scenario analysis within the next 2 years.</p>

C3.3

(C3.3) Describe where and how climate-related risks and opportunities have influenced your strategy.

	Have climate-related risks and opportunities influenced your strategy in this area?	Description of influence
Products and services	Yes	<p>We are committed to providing safe and reliable water and electric services to our customers throughout California. Since climate-related impacts vary throughout the state, we factor in specific short-, medium- and long-term climate-related risks and opportunities into company strategy and service-related initiatives. For example, the company regularly considers within its business strategy the impact of drought events and other climate-related or natural disaster events on services to our customers. In the short- and medium term, we are also developing additional water supplies.</p> <p>Our products and services have been impacted by:</p> <ul style="list-style-type: none"> • Current regulations such as CPUC’s Renewable Portfolio Standard (policy and legal risk) • Changes in consumer preferences toward energy efficient products (market and reputation risk) • Opportunities to develop low emissions products • Physical risks such as climate variability present risks to maintaining adequate water quality and/or supply <p>Consequently, climate change is one area that we focus on as we develop and execute our business strategy and financial planning, both in the short- and long-term.</p> <p>For example, our electric business (BVES) has a strategy of procuring a mix of renewable energy credits and renewable energy, which will allow the company to meet the CPUC’s Renewables Portfolio Standard (RPS) requirements and Greenhouse Gas (GHG) emissions reduction targets. In 2022, BVES’s RPS obligation represented 38.5% of total electric supply purchases. RPS requirements continue to escalate, reaching 50% by 2026 and 100% carbon free by 2045. In addition, BVES is considering developing solar generation and battery storage facilities.</p> <p>BVES offers a Distributed Generation Program, which benefits customers who install a solar or wind-generating facility that produces renewable energy. Those customers can receive a bill credit if their monthly renewable energy production exceeds their on-site use. BVES also has a large number of customers on its Net Energy Metering Program (NEM), which was the previous renewable energy program. NEM customers can receive a bill credit if their annual renewable energy production exceeds their on-site use. Approximately 5% of the energy consumed by our BVES customers is now generated by customer-owned renewable sources (solar).</p>
Supply chain and/or value chain	Yes	<p>American States Water’s supply chain helps the company’s subsidiaries achieve improved total value from purchased goods and services. We partner with suppliers to enable innovation, reduce costs, promote sustainability, and support diversity.</p> <p>An integral part of our business is practicing sound environmental, social, and governance practices. This includes both our internal operations and our supply chain. Our supply chain includes capital goods suppliers and water/energy suppliers. In 2022, our operations were impacted by climate related impacts such as:</p> <ul style="list-style-type: none"> - Extreme weather events (i.e. drought) - Infrastructure impacts (i.e. from increased wildfire risk) - Increased legislation to manage climate-related issues <p>In response to these issues, our organization designed its business strategy to focus our efforts with the supply chain to increase resiliency of operations through infrastructure planning, monitor supply of critical products (e.g., water) and encourage our supply chain to practice conservation efforts. We work with our suppliers and value chain to develop and enhance best practices related to the products/services we provide.</p> <p>For example, we obtain our water supplies for our water utility from a variety of sources. Certain systems obtain all of their supply from water that is pumped from aquifers within our service areas; some systems purchase all of their supply from wholesale suppliers; some systems obtain their supply from treating surface water sources; and other systems obtain their supply from a combination of wells, surface water sources and/or wholesale suppliers. More frequent and extended California drought conditions may cause increased stress on surface water supplies and groundwater basins, as well as allocations of water from the State Water Project and the Colorado River. Wholesale water suppliers may not have adequate supply during extended periods of drought, which may result in increases in prices for water delivered to us.</p> <p>Our goal is to maintain adequate and high-quality water supplies. We do this in a number of ways; monitoring water levels, short- and long-term water supply planning, having a diverse water supply portfolio, developing contingency plans, water efficiency and conservation efforts, and maintaining strong and resilient infrastructure.</p>
Investment in R&D	Yes	<p>Our dedicated environmental and water quality professionals possess expertise in environmental compliance, water resources, water quality and conservation. Our programs are designed to provide quality assurance and responsible use of environmental resources. Our comprehensive program strives to eliminate or mitigate environmental impacts to air, water and land in both our day-to-day operations and our capital improvement projects.</p> <p>We continue to have a centralized approach to deploying technology in order to streamline operations and to enhance customer service and reliability. Through the use of advanced technology, we have modernized and centralized our field data collection and water quality data management activities. Real-time data availability and advanced water quality data management/analysis activities have helped us make sound decisions and stay in compliance with water quality regulations.</p> <p>Our regulated water subsidiary has been an active member of the Water Research Foundation for decades, helps fund the organization and has served in significant leadership positions. The Foundation is an internationally recognized leader in water research that is dedicated to advancing the science of water by sponsoring cutting-edge research and promoting collaboration. Their research provides industry insights and practical solutions to the most complex challenges facing the water community today and into the future. Our water utility has specifically funded work in the utility Enterprise Risk Management (ERM) space, and our employees have participated in several research projects.</p>
Operations	Yes	<p>Key aspects of our climate and environment strategy include the operationalization of initiatives to reduce GHG emissions, increased purchases of green electricity, and encouraging sustainable water practices with customers. American States Water Company set a goal to reduce its scope 1 and 2 GHG emissions by 60% by 2035 from a 2020 baseline. As such, our business strategy has been adjusted to prioritize reductions in energy use, increase purchases of green energy for internal use and distribution to our electric customers, and review vehicle fleet needs and electrification. Achievement of this target is contingent on factors like the ongoing development of technology and successful achievement by the state of California in reaching its Renewables Portfolio Standard goal. In 2022, our regulated water utility adjusted its electricity purchasing practices to procure more renewable power, which will support our reduction in annual Scope 2 emissions.</p> <p>In addition to setting of goals for reductions in energy and GHG emissions, our strategy incorporates continued resiliency efforts for direct operations. For example, in 2022 our capital spending was more than \$167 million for our regulated utilities, with over \$21 million invested in environmental control facilities. Our electric business spent more than \$20 million of capital expenditures for wildfire mitigation projects in 2020-2022. These investments fortify our systems and services, improve efficiency, enhance resiliency, and reduce GHGs.</p> <p>Further, we regularly engage with consumers and others in the value chain to reduce energy and water needs within our operations. For example, to reduce energy consumption in our water operations we encourage customer conservation which decreases our need to purchase or pump water. Since 2007, our regulated water utility customers have cut their annual water usage per customer by 36.5%. Through proactive operation and predictive maintenance of our water systems, energy use is further reduced (e.g., we conduct pump efficiency tests & replace pumps in part based on these test results). In addition, we design our key systems to be energy-efficient, then maintain these systems to optimize their reliability and performance. We also monitor changing pumping conditions in our well assets to address operating inefficiencies as a result of drought conditions.</p>

C3.4

(C3.4) Describe where and how climate-related risks and opportunities have influenced your financial planning.

	Financial planning elements that have been influenced	Description of influence
Row 1	Direct costs Indirect costs Capital expenditures Capital allocation Acquisitions and divestments Assets Liabilities	<p>Climate related risks and opportunities that impact our business are factored into multiple elements of our annual financial planning, both in the short and long term, including:</p> <ul style="list-style-type: none"> • Direct and indirect cost planning / forecasting; • Capital expenditure planning and allocation; and • Decisions regarding acquisitions and divestments. <p>For example: Direct costs: Estimates demonstrate that procuring more renewable energy will reduce our annual Scope 2 emissions and has been identified as a measure to make progress toward our goal of reducing Scope 1 and 2 emissions by 60% by 2035. In 2022, our company adjusted its electricity purchasing practices for the water utility to procure more renewable power than in the past. The potential increase in direct costs due to increased purchasing of renewable power has been factored into our annual and longer-term direct cost planning and budget and forecasts.</p> <p>Indirect Costs: Part of our capital expenditure budget allows us to spend on climate resilience, reducing operating risks for climate-related events, and new design standards that will allow us to reduce energy use. Additionally, to prepare for such events, we maintain Emergency Response Plans.</p> <p>Capital Expenditures: Acute physical climate risks such as drought events pose risks to the company. We address potential risks posed by aging infrastructure and the increasing impacts of climate variability to continue providing safe and reliable water and electric services to customers. We plan to invest a significant amount over the next 10 years for capital improvements, and have spent nearly \$700 million at our regulated utilities over the past five years. We anticipate our investment budget will continue to rise as infrastructure ages, climate-related risks are realized, new regulations are introduced, and growth continues.</p> <p>Revenues: The majority of our water customers are on tiered conservation rates. CA also has a Revenue Stabilizing Mechanism, which protects the company from declining revenues when customers use less water due to conservation efforts.</p> <p>Capital Allocation: Asset replacement to improve efficiency, meet regulations, provide supplies, and reduce the loss of "High Risk Assets" are core drivers for capital allocation and investment. Each of these core drivers can be impacted by climate variability such as water supply quantity, impacts to water quality, or the need to harden assets due to increased droughts or other natural disasters. Examples of capital allocated for improved resiliency include installation of standby power systems, interconnections with adjacent water purveyors and well-head water treatment systems.</p> <p>Acquisitions and divestments: A component of evaluating potential acquisitions is the ability to integrate adjacent systems and assets into our current infrastructure. Our acquired systems were under distress and had been poorly maintained. Identifying inefficiencies through due diligence review, many with a direct impact on GHGe, such as aged, leaking water mains and inefficient assets (e.g., pumps) are factored into our acquisition strategy. These approaches not only allow for a reduction in the existing carbon footprint through more efficient operations, but also improve customer service and satisfaction. With increasingly stringent environmental, water quality, and health and safety laws and regulations, including with respect to contaminants of emerging concern, and the need for increased infrastructure investment, many community water systems may be strained to meet the increasing standards of operation. We consider the impacts of climate-related risks during system upgrade and project designs, and business development opportunities. We have a robust process to enhance resiliency for our operations, and consider the same for any new system we consider for acquisition. Over the last five years, we have invested \$121 million to \$167 million per year in capital investments for our regulated utilities. We are an experienced utility with proven access to capital and financial, technical, and managerial resources with public service commission oversight.</p> <p>Liabilities: Our capital program planning process examines and includes projects that mitigate liabilities due to climate-related risk. The planning process integrates several factors including identification of high-risk assets that can be impacted by several circumstances, including climate-related risk. Reduction of risk and hardening of high-risk assets reduces liabilities.</p>

C3.5

(C3.5) In your organization's financial accounting, do you identify spending/revenue that is aligned with your organization's climate transition?

	Identification of spending/revenue that is aligned with your organization's climate transition	Indicate the level at which you identify the alignment of your spending/revenue with a sustainable finance taxonomy
Row 1	No, and we do not plan to in the next two years	<Not Applicable>

C4. Targets and performance

C4.1

(C4.1) Did you have an emissions target that was active in the reporting year?

Absolute target

C4.1a

(C4.1a) Provide details of your absolute emissions target(s) and progress made against those targets.

Target reference number

Abs 1

Is this a science-based target?

No, and we do not anticipate setting one in the next two years

Target ambition

<Not Applicable>

Year target was set

2022

Target coverage

Company-wide

Scope(s)

Scope 1

Scope 2

Scope 2 accounting method

Market-based

Scope 3 category(ies)

<Not Applicable>

Base year

2020

Base year Scope 1 emissions covered by target (metric tons CO2e)

2585

Base year Scope 2 emissions covered by target (metric tons CO2e)

14876

Base year Scope 3, Category 1: Purchased goods and services emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 2: Capital goods emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 4: Upstream transportation and distribution emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 5: Waste generated in operations emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 6: Business travel emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 7: Employee commuting emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 8: Upstream leased assets emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 9: Downstream transportation and distribution emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 10: Processing of sold products emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 11: Use of sold products emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 12: End-of-life treatment of sold products emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 13: Downstream leased assets emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 14: Franchises emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 15: Investments emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Other (upstream) emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Other (downstream) emissions covered by target (metric tons CO2e)

<Not Applicable>

Base year total Scope 3 emissions covered by target (metric tons CO2e)

<Not Applicable>

Total base year emissions covered by target in all selected Scopes (metric tons CO2e)

17462

Base year Scope 1 emissions covered by target as % of total base year emissions in Scope 1

100

Base year Scope 2 emissions covered by target as % of total base year emissions in Scope 2

100

Base year Scope 3, Category 1: Purchased goods and services emissions covered by target as % of total base year emissions in Scope 3, Category 1:

Purchased goods and services (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 2: Capital goods emissions covered by target as % of total base year emissions in Scope 3, Category 2: Capital goods (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions covered by target as % of total base year emissions in Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 4: Upstream transportation and distribution covered by target as % of total base year emissions in Scope 3, Category 4: Upstream transportation and distribution (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 5: Waste generated in operations emissions covered by target as % of total base year emissions in Scope 3, Category 5: Waste generated in operations (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 6: Business travel emissions covered by target as % of total base year emissions in Scope 3, Category 6: Business travel (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 7: Employee commuting covered by target as % of total base year emissions in Scope 3, Category 7: Employee commuting (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 8: Upstream leased assets emissions covered by target as % of total base year emissions in Scope 3, Category 8: Upstream leased assets (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 9: Downstream transportation and distribution emissions covered by target as % of total base year emissions in Scope 3, Category 9: Downstream transportation and distribution (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 10: Processing of sold products emissions covered by target as % of total base year emissions in Scope 3, Category 10: Processing of sold products (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 11: Use of sold products emissions covered by target as % of total base year emissions in Scope 3, Category 11: Use of sold products (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 12: End-of-life treatment of sold products emissions covered by target as % of total base year emissions in Scope 3, Category 12: End-of-life treatment of sold products (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 13: Downstream leased assets emissions covered by target as % of total base year emissions in Scope 3, Category 13: Downstream leased assets (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 14: Franchises emissions covered by target as % of total base year emissions in Scope 3, Category 14: Franchises (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Category 15: Investments emissions covered by target as % of total base year emissions in Scope 3, Category 15: Investments (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Other (upstream) emissions covered by target as % of total base year emissions in Scope 3, Other (upstream) (metric tons CO2e)

<Not Applicable>

Base year Scope 3, Other (downstream) emissions covered by target as % of total base year emissions in Scope 3, Other (downstream) (metric tons CO2e)

<Not Applicable>

Base year total Scope 3 emissions covered by target as % of total base year emissions in Scope 3 (in all Scope 3 categories)

<Not Applicable>

Base year emissions covered by target in all selected Scopes as % of total base year emissions in all selected Scopes

100

Target year

2035

Targeted reduction from base year (%)

60

Total emissions in target year covered by target in all selected Scopes (metric tons CO2e) [auto-calculated]

6984.8

Scope 1 emissions in reporting year covered by target (metric tons CO2e)

2604

Scope 2 emissions in reporting year covered by target (metric tons CO2e)

12466

Scope 3, Category 1: Purchased goods and services emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 2: Capital goods emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 4: Upstream transportation and distribution emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 5: Waste generated in operations emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 6: Business travel emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 7: Employee commuting emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 8: Upstream leased assets emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 9: Downstream transportation and distribution emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 10: Processing of sold products emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 11: Use of sold products emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 12: End-of-life treatment of sold products emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 13: Downstream leased assets emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 14: Franchises emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Category 15: Investments emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Other (upstream) emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Scope 3, Other (downstream) emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Total Scope 3 emissions in reporting year covered by target (metric tons CO2e)

<Not Applicable>

Total emissions in reporting year covered by target in all selected scopes (metric tons CO2e)

15070

Does this target cover any land-related emissions?

No, it does not cover any land-related emissions (e.g. non-FLAG SBT)

% of target achieved relative to base year [auto-calculated]

22.8305272401023

Target status in reporting year

New

Please explain target coverage and identify any exclusions

In 2022 we studied our GHG emissions levels, set a 2020 baseline, and developed a company-wide GHG emissions reduction target of 60% by 2035 from the 2020 baseline.

Plan for achieving target, and progress made to the end of the reporting year

To achieve the reductions within the target timeframe, the company has developed a phased approach, which includes short-, medium- and long-term actions. Our priorities include reductions in energy use and increasing purchases of green energy for our water operations, increasing purchases of green energy for distribution to our electric customers, and reviewing our vehicle fleet needs and electrification. Achievement of this reduction target is contingent on certain external factors, which include the ongoing development of technology, and successful achievement by the state of California in reaching its Renewables Portfolio Standard goal for this period. Implementation of these plans from 2020 to 2022 have resulted in a 13.7% reduction in Scope 1 and 2 emissions.

For 2022, activities which contributed most to emissions reductions included:

- Increased renewable energy purchases
- Successful customer water conservation efforts which have decreased our need to pump or purchase water, both of which reduce overall energy consumption
- Conducting of regular pump efficiency tests that either result in the replacement of pumps or adjustments to bring the pump back to operating specifications.

List the emissions reduction initiatives which contributed most to achieving this target

<Not Applicable>

C4.2

(C4.2) Did you have any other climate-related targets that were active in the reporting year?

No other climate-related targets

C4.3

(C4.3) Did you have emissions reduction initiatives that were active within the reporting year? Note that this can include those in the planning and/or implementation phases.

Yes

C4.3a

(C4.3a) Identify the total number of initiatives at each stage of development, and for those in the implementation stages, the estimated CO2e savings.

	Number of initiatives	Total estimated annual CO2e savings in metric tonnes CO2e (only for rows marked *)
Under investigation	0	0
To be implemented*	0	0
Implementation commenced*	0	0
Implemented*	1	1279.24
Not to be implemented	0	0

C4.3b

(C4.3b) Provide details on the initiatives implemented in the reporting year in the table below.

Initiative category & Initiative type

Low-carbon energy consumption	Solar PV
-------------------------------	----------

Estimated annual CO2e savings (metric tonnes CO2e)

1279.24

Scope(s) or Scope 3 category(ies) where emissions savings occur

Scope 2 (location-based)
Scope 2 (market-based)

Voluntary/Mandatory

Voluntary

Annual monetary savings (unit currency – as specified in C0.4)

0

Investment required (unit currency – as specified in C0.4)

0

Payback period

No payback

Estimated lifetime of the initiative

Ongoing

Comment

In 2022, GSWC adjusted its electricity purchasing practices to procure more renewable power than in the past. Estimates demonstrate that this will reduce annual Scope 2 emissions, on our way to a goal of reducing Scope 1 and 2 emissions by 60% by 2035.

C4.3c

(C4.3c) What methods do you use to drive investment in emissions reduction activities?

Method	Comment
Compliance with regulatory requirements/standards	BVES has a strategy of procuring a mix of renewable energy credits and renewable energy, which will allow the company to meet the CPUC's Renewables Portfolio Standard (RPS) requirements and Greenhouse Gas (GHG) emissions reduction targets.
Dedicated budget for other emissions reduction activities	In 2022, GSWC adjusted its electricity purchasing practices to procure more renewable power than in the past. Estimates demonstrate that this will reduce annual Scope 2 emissions, on our way to a goal of reducing Scope 1 and 2 emissions by 60% by 2035.

C4.5

(C4.5) Do you classify any of your existing goods and/or services as low-carbon products?

No

C5. Emissions methodology

C5.1

(C5.1) Is this your first year of reporting emissions data to CDP?

Yes

C5.2

(C5.2) Provide your base year and base year emissions.

Scope 1

Base year start

January 1 2020

Base year end

December 31 2020

Base year emissions (metric tons CO2e)

2585

Comment

Scope 2 (location-based)

Base year start

January 1 2020

Base year end

December 31 2020

Base year emissions (metric tons CO2e)

15138

Comment

Scope 2 (market-based)

Base year start

January 1 2020

Base year end

December 31 2020

Base year emissions (metric tons CO2e)

14876

Comment

Scope 3 category 1: Purchased goods and services

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 2: Capital goods

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 3: Fuel-and-energy-related activities (not included in Scope 1 or 2)

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 4: Upstream transportation and distribution

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 5: Waste generated in operations

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 6: Business travel

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 7: Employee commuting

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 8: Upstream leased assets

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 9: Downstream transportation and distribution

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 10: Processing of sold products

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 11: Use of sold products

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 12: End of life treatment of sold products

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 13: Downstream leased assets

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 14: Franchises

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3 category 15: Investments

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3: Other (upstream)

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

Scope 3: Other (downstream)

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

C5.3

(C5.3) Select the name of the standard, protocol, or methodology you have used to collect activity data and calculate emissions.

The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)

C6. Emissions data

C6.1

(C6.1) What were your organization's gross global Scope 1 emissions in metric tons CO2e?

Reporting year

Gross global Scope 1 emissions (metric tons CO2e)

2604

Start date

January 1 2022

End date

December 31 2022

Comment

Past year 1

Gross global Scope 1 emissions (metric tons CO2e)

2572

Start date

January 1 2021

End date

December 31 2021

Comment

C6.2

(C6.2) Describe your organization's approach to reporting Scope 2 emissions.

Row 1

Scope 2, location-based

We are reporting a Scope 2, location-based figure

Scope 2, market-based

We are reporting a Scope 2, market-based figure

Comment

C6.3

(C6.3) What were your organization's gross global Scope 2 emissions in metric tons CO₂e?

Reporting year

Scope 2, location-based

14865

Scope 2, market-based (if applicable)

12466

Start date

January 1 2022

End date

December 31 2022

Comment

Past year 1

Scope 2, location-based

13818

Scope 2, market-based (if applicable)

14881

Start date

January 1 2021

End date

December 31 2021

Comment

C6.4

(C6.4) Are there any sources (e.g. facilities, specific GHGs, activities, geographies, etc.) of Scope 1, Scope 2 or Scope 3 emissions that are within your selected reporting boundary which are not included in your disclosure?

No

C6.5

(C6.5) Account for your organization's gross global Scope 3 emissions, disclosing and explaining any exclusions.

Purchased goods and services

Evaluation status

Not evaluated

Emissions in reporting year (metric tons CO₂e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

ASWC has not conducted a Scope 3 evaluation

Capital goods

Evaluation status

Not evaluated

Emissions in reporting year (metric tons CO₂e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

ASWC has not conducted a Scope 3 evaluation

Fuel-and-energy-related activities (not included in Scope 1 or 2)

Evaluation status

Not evaluated

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

ASWC has not conducted a Scope 3 evaluation

Upstream transportation and distribution

Evaluation status

Not evaluated

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

ASWC has not conducted a Scope 3 evaluation

Waste generated in operations

Evaluation status

Not evaluated

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

ASWC has not conducted a Scope 3 evaluation

Business travel

Evaluation status

Not evaluated

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

ASWC has not conducted a Scope 3 evaluation

Employee commuting

Evaluation status

Not evaluated

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

ASWC has not conducted a Scope 3 evaluation

Upstream leased assets

Evaluation status

Not evaluated

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

ASWC has not conducted a Scope 3 evaluation

Downstream transportation and distribution

Evaluation status

Not evaluated

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

ASWC has not conducted a Scope 3 evaluation

Processing of sold products

Evaluation status

Not evaluated

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

ASWC has not conducted a Scope 3 evaluation

Use of sold products

Evaluation status

Not evaluated

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

ASWC has not conducted a Scope 3 evaluation

End of life treatment of sold products

Evaluation status

Not evaluated

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

ASWC has not conducted a Scope 3 evaluation

Downstream leased assets

Evaluation status

Not evaluated

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

ASWC has not conducted a Scope 3 evaluation

Franchises

Evaluation status

Not evaluated

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

ASWC has not conducted a Scope 3 evaluation

Investments

Evaluation status

Not evaluated

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

ASWC has not conducted a Scope 3 evaluation

Other (upstream)

Evaluation status

Not evaluated

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

ASWC has not conducted a Scope 3 evaluation

Other (downstream)

Evaluation status

Not evaluated

Emissions in reporting year (metric tons CO2e)

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

ASWC has not conducted a Scope 3 evaluation

C6.7

(C6.7) Are carbon dioxide emissions from biogenic carbon relevant to your organization?

No

C6.10

(C6.10) Describe your gross global combined Scope 1 and 2 emissions for the reporting year in metric tons CO2e per unit currency total revenue and provide any additional intensity metrics that are appropriate to your business operations.

Intensity figure

0.03959662

Metric numerator (Gross global combined Scope 1 and 2 emissions, metric tons CO2e)

15070

Metric denominator

unit total revenue

Metric denominator: Unit total

380588

Scope 2 figure used

Market-based

% change from previous year

12.5

Direction of change

Decreased

Reason(s) for change

Change in renewable energy consumption
Other emissions reduction activities

Please explain

For 2022, activities which contributed most to emissions reductions included:
Increased renewable energy purchases.

Successful customer water conservation efforts which have decreased our need to pump or purchase water, both of which reduce overall energy consumption

Conducting of regular pump efficiency tests that either result in the replacement of pumps or adjustments to bring the pump back to operating specifications.

Intensity figure

0.000262

Metric numerator (Gross global combined Scope 1 and 2 emissions, metric tons CO2e)

15070

Metric denominator

Other, please specify (Water supply in ccf)

Metric denominator: Unit total

57555445

Scope 2 figure used

Market-based

% change from previous year

7.99

Direction of change

Decreased

Reason(s) for change

Change in renewable energy consumption
Change in output

Please explain

In 2022, the total water supply to our customers decreased by approximately 6% from 2021. This was due to persistent drought conditions in California and mandated water conservation objectives.

At the same time, our GHG emissions decreased from 2021 by 14% as a result of emissions reduction initiatives including increased purchases of renewable energy and renewable energy certificates (RECs) and reduced customer consumption.

As a result of these activities, overall emissions intensity decreased by 7.99%.

C7. Emissions breakdowns

C7.1

(C7.1) Does your organization break down its Scope 1 emissions by greenhouse gas type?

No

C7.2

(C7.2) Break down your total gross global Scope 1 emissions by country/area/region.

Country/area/region	Scope 1 emissions (metric tons CO2e)
United States of America	2604

C7.3

(C7.3) Indicate which gross global Scope 1 emissions breakdowns you are able to provide.

By business division

C7.3a

(C7.3a) Break down your total gross global Scope 1 emissions by business division.

Business division	Scope 1 emissions (metric ton CO2e)
Golden State Water Company (GSWC)	2416
Bear Valley Electric Service Inc. (BVES)	188

C7.5

(C7.5) Break down your total gross global Scope 2 emissions by country/area/region.

Country/area/region	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)
United States of America	14865	12466

C7.6

(C7.6) Indicate which gross global Scope 2 emissions breakdowns you are able to provide.

By business division

C7.6a

(C7.6a) Break down your total gross global Scope 2 emissions by business division.

Business division	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)
Golden State Water Company (GSWC)	14865	12466
Bear Valley Electric Service, Inc. (BVES)	0	0

C7.7

(C7.7) Is your organization able to break down your emissions data for any of the subsidiaries included in your CDP response?

Yes

C7.7a

(C7.7a) Break down your gross Scope 1 and Scope 2 emissions by subsidiary.

Subsidiary name

Golden State Water Company (GSWC)

Primary activity

Water supply networks

Select the unique identifier(s) you are able to provide for this subsidiary

Another unique identifier, please specify (Utility identifier)

ISIN code – bond

<Not Applicable>

ISIN code – equity

<Not Applicable>

CUSIP number

<Not Applicable>

Ticker symbol

<Not Applicable>

SEDOL code

<Not Applicable>

LEI number

<Not Applicable>

Other unique identifier

CPUC utility identifier is U 133 W

Scope 1 emissions (metric tons CO2e)

2416

Scope 2, location-based emissions (metric tons CO2e)

14865

Scope 2, market-based emissions (metric tons CO2e)

12466

Comment

Subsidiary name

Bear Valley Electric Service, Inc. (BVES)

Primary activity

Electricity networks

Select the unique identifier(s) you are able to provide for this subsidiary

Another unique identifier, please specify (Utility identifier)

ISIN code – bond

<Not Applicable>

ISIN code – equity

<Not Applicable>

CUSIP number

<Not Applicable>

Ticker symbol

<Not Applicable>

SEDOL code

<Not Applicable>

LEI number

<Not Applicable>

Other unique identifier

CPUC utility identifier is U 913 E

Scope 1 emissions (metric tons CO2e)

188

Scope 2, location-based emissions (metric tons CO2e)

0

Scope 2, market-based emissions (metric tons CO2e)

0

Comment

C7.9

(C7.9) How do your gross global emissions (Scope 1 and 2 combined) for the reporting year compare to those of the previous reporting year?

Decreased

C7.9a

(C7.9a) Identify the reasons for any change in your gross global emissions (Scope 1 and 2 combined), and for each of them specify how your emissions compare to the previous year.

	Change in emissions (metric tons CO2e)	Direction of change in emissions	Emissions value (percentage)	Please explain calculation
Change in renewable energy consumption	1279.24	Decreased	7.33	Total scope 1 and scope 2 (market) emissions reduced by approximately 1,279.24 tCO2e due to the increase in renewable energy consumption across our sites (see also Question 4.3b). Total scope 1 and scope 2 (market emissions) reported for 2021 were 17,453 tCO2e therefore, we arrived at -7.33% through $(-1,279 / 17,453) * 100 = -7.33\%$ (i.e. a 7.33% decrease).
Other emissions reduction activities	1104	Decreased	6.33	Total scope 1 and scope 2 (market) emissions reduced by approximately 1,104 tCO2e due to the other emission reduction activities including increased promotion of reducing energy consumption for both customers and site operations. Total scope 1 and scope 2 (market emissions) reported for 2021 were 17,453 tCO2e therefore, we arrived at -6.33% through $(-1,104 / 17,453) * 100 = -6.33\%$ (i.e. a 6.33% decrease).
Divestment		<Not Applicable>		
Acquisitions		<Not Applicable>		
Mergers		<Not Applicable>		
Change in output		<Not Applicable>		
Change in methodology		<Not Applicable>		
Change in boundary		<Not Applicable>		
Change in physical operating conditions		<Not Applicable>		
Unidentified		<Not Applicable>		
Other		<Not Applicable>		

C7.9b

(C7.9b) Are your emissions performance calculations in C7.9 and C7.9a based on a location-based Scope 2 emissions figure or a market-based Scope 2 emissions figure?

Market-based

C8. Energy

C8.1

(C8.1) What percentage of your total operational spend in the reporting year was on energy?

More than 5% but less than or equal to 10%

C8.2

(C8.2) Select which energy-related activities your organization has undertaken.

	Indicate whether your organization undertook this energy-related activity in the reporting year
Consumption of fuel (excluding feedstocks)	Yes
Consumption of purchased or acquired electricity	Yes
Consumption of purchased or acquired heat	No
Consumption of purchased or acquired steam	No
Consumption of purchased or acquired cooling	No
Generation of electricity, heat, steam, or cooling	No

C8.2a

(C8.2a) Report your organization's energy consumption totals (excluding feedstocks) in MWh.

	Heating value	MWh from renewable sources	MWh from non-renewable sources	Total (renewable and non-renewable) MWh
Consumption of fuel (excluding feedstock)	HHV (higher heating value)	0	10661.37	10661.37
Consumption of purchased or acquired electricity	<Not Applicable>	26276	37542	63818
Consumption of purchased or acquired heat	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Consumption of purchased or acquired steam	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Consumption of purchased or acquired cooling	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Consumption of self-generated non-fuel renewable energy	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Total energy consumption	<Not Applicable>	26276	48203.37	74479.37

C8.2b

(C8.2b) Select the applications of your organization's consumption of fuel.

	Indicate whether your organization undertakes this fuel application
Consumption of fuel for the generation of electricity	No
Consumption of fuel for the generation of heat	Yes
Consumption of fuel for the generation of steam	No
Consumption of fuel for the generation of cooling	No
Consumption of fuel for co-generation or tri-generation	No

C8.2c

(C8.2c) State how much fuel in MWh your organization has consumed (excluding feedstocks) by fuel type.

Sustainable biomass

Heating value

Unable to confirm heating value

Total fuel MWh consumed by the organization

0

MWh fuel consumed for self-generation of electricity

<Not Applicable>

MWh fuel consumed for self-generation of heat

<Not Applicable>

MWh fuel consumed for self-generation of steam

<Not Applicable>

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

<Not Applicable>

Comment

N/A

Other biomass

Heating value

Unable to confirm heating value

Total fuel MWh consumed by the organization

0

MWh fuel consumed for self-generation of electricity

<Not Applicable>

MWh fuel consumed for self-generation of heat

<Not Applicable>

MWh fuel consumed for self-generation of steam

<Not Applicable>

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

<Not Applicable>

Comment

N/A

Other renewable fuels (e.g. renewable hydrogen)

Heating value

Unable to confirm heating value

Total fuel MWh consumed by the organization

0

MWh fuel consumed for self-generation of electricity

<Not Applicable>

MWh fuel consumed for self-generation of heat

<Not Applicable>

MWh fuel consumed for self-generation of steam

<Not Applicable>

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

<Not Applicable>

Comment

N/A

Coal

Heating value

Unable to confirm heating value

Total fuel MWh consumed by the organization

0

MWh fuel consumed for self-generation of electricity

<Not Applicable>

MWh fuel consumed for self-generation of heat

<Not Applicable>

MWh fuel consumed for self-generation of steam

<Not Applicable>

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

<Not Applicable>

Comment

N/A

Oil

Heating value

Unable to confirm heating value

Total fuel MWh consumed by the organization

0

MWh fuel consumed for self-generation of electricity

<Not Applicable>

MWh fuel consumed for self-generation of heat

<Not Applicable>

MWh fuel consumed for self-generation of steam

<Not Applicable>

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

<Not Applicable>

Comment

N/A

Gas

Heating value

Unable to confirm heating value

Total fuel MWh consumed by the organization

10296.63

MWh fuel consumed for self-generation of electricity

<Not Applicable>

MWh fuel consumed for self-generation of heat

<Not Applicable>

MWh fuel consumed for self-generation of steam

<Not Applicable>

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

<Not Applicable>

Comment

Natural gas

Other non-renewable fuels (e.g. non-renewable hydrogen)

Heating value

Unable to confirm heating value

Total fuel MWh consumed by the organization

364.74

MWh fuel consumed for self-generation of electricity

<Not Applicable>

MWh fuel consumed for self-generation of heat

<Not Applicable>

MWh fuel consumed for self-generation of steam

<Not Applicable>

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

<Not Applicable>

Comment

Gasoline & diesel

Total fuel

Heating value

Unable to confirm heating value

Total fuel MWh consumed by the organization

10661.37

MWh fuel consumed for self-generation of electricity

<Not Applicable>

MWh fuel consumed for self-generation of heat

<Not Applicable>

MWh fuel consumed for self-generation of steam

<Not Applicable>

MWh fuel consumed for self-generation of cooling

<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration

<Not Applicable>

Comment

C8.2e

(C8.2e) Provide details on the electricity, heat, steam, and/or cooling amounts that were accounted for at a zero or near-zero emission factor in the market-based Scope 2 figure reported in C6.3.

Country/area of low-carbon energy consumption

United States of America

Sourcing method

Retail supply contract with an electricity supplier (retail green electricity)

Energy carrier

Electricity

Low-carbon technology type

Solar

Low-carbon energy consumed via selected sourcing method in the reporting year (MWh)

26276

Tracking instrument used

Contract

Country/area of origin (generation) of the low-carbon energy or energy attribute

United States of America

Are you able to report the commissioning or re-powering year of the energy generation facility?

No

Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

<Not Applicable>

Comment

C8.2g

(C8.2g) Provide a breakdown by country/area of your non-fuel energy consumption in the reporting year.

Country/area

United States of America

Consumption of purchased electricity (MWh)

63818

Consumption of self-generated electricity (MWh)

0

Is this electricity consumption excluded from your RE100 commitment?

<Not Applicable>

Consumption of purchased heat, steam, and cooling (MWh)

0

Consumption of self-generated heat, steam, and cooling (MWh)

0

Total non-fuel energy consumption (MWh) [Auto-calculated]

63818

C9. Additional metrics

C9.1

(C9.1) Provide any additional climate-related metrics relevant to your business.

C10. Verification

C10.1

(C10.1) Indicate the verification/assurance status that applies to your reported emissions.

	Verification/assurance status
Scope 1	No third-party verification or assurance
Scope 2 (location-based or market-based)	No third-party verification or assurance
Scope 3	No emissions data provided

C10.2

(C10.2) Do you verify any climate-related information reported in your CDP disclosure other than the emissions figures reported in C6.1, C6.3, and C6.5?

No, we do not verify any other climate-related information reported in our CDP disclosure

C11. Carbon pricing

C11.1

(C11.1) Are any of your operations or activities regulated by a carbon pricing system (i.e. ETS, Cap & Trade or Carbon Tax)?

No, and we do not anticipate being regulated in the next three years

C11.2

(C11.2) Has your organization canceled any project-based carbon credits within the reporting year?

No

C11.3

(C11.3) Does your organization use an internal price on carbon?

No, and we do not currently anticipate doing so in the next two years

C12. Engagement

C12.1

(C12.1) Do you engage with your value chain on climate-related issues?

Yes, our customers/clients

C12.1b

(C12.1b) Give details of your climate-related engagement strategy with your customers.

Type of engagement & Details of engagement

Education/information sharing	Run an engagement campaign to education customers about your climate change performance and strategy
-------------------------------	--

% of customers by number

100

% of customer - related Scope 3 emissions as reported in C6.5

0

Please explain the rationale for selecting this group of customers and scope of engagement

Our water and electric customers are our priority, as we aim to deliver safe and reliable service every day. All customers deserve to know what is happening with their services and utility provider, as well as receive education on how to conserve, therefore we aim to engage 100% of our customers regarding our climate related performance and strategy. We offer a variety of customer education opportunities through our social channels, website, as well as through a variety of in person conversations to share facts about the need for infrastructure investment and what our company is doing to ensure a dependable water system is available now and into the future. We provide resources on water conservation, sharing the concern for the impacts of climate variability and the importance of careful use of our precious resources. We share timely information about water quality, keeping our customers current on emerging contaminants and what we're doing to protect the safety of the water supply. We also offer a speaker's bureau for community groups and classroom resources for teachers to help our communities stay informed and engaged in water issues. During the COVID-19 pandemic, we increased the use of virtual meeting technology and successfully hosted several public meetings in response to the ongoing California drought.

Our electric business utilizes a variety of modern and traditional communications channels to educate customers on topics from electric service, rates and customer assistance programs to wildfire mitigation efforts and Public Safety Power Shutoffs. Our website serves as the central hub for all customer-related information, while we use our Facebook page (@BearValleyElectricService) to disseminate timely service updates, provide conservation tips and post about our community engagement efforts.

Impact of engagement, including measures of success

California, where we serve our regulated utility customers, has experienced drought conditions intermittently for years, including in 2022. That's why we've implemented strong conservation programs, encouraging customers to use less water. We continue to heavily promote conservation through tiered rates, education, free conservation kits, customer rebates, and converting flat rate customers to metered during the year. Almost all of our customers are on conservation tiered rates. With the help of our incentive programs and the public's awareness of the need to conserve, since 2007, annual water usage per customer by our water customers is down by 36.5%.

In 2022, the governor of California signed an executive order asking all Californians to voluntarily reduce water usage by 20–30% from 2020 usage. Our water business has implemented voluntary conservation measures to help meet this goal. California is focused on water use efficiency and drought planning and resiliency. The state is moving forward with indoor and outdoor water use standards as well as water loss standards, and state agencies and water suppliers continue to work on meeting the standards.

Conservation saves more than just water. Moving and treating water requires significant electricity. When our customers can use less water, it creates an even bigger impact by helping to conserve energy as well.

And finally, our customers are also producers. 532 of our electric customers produced, at peak solar production, a combined power output of 5.276 MW, or 5% of our total average load. Our customers are also conserving electricity in their homes and businesses. Annual electric usage per customer by our electric customers is down by 4.1% since 2007.

When our customers reduce their water and electric usage, it improves operational efficiency, reduces greenhouse emissions, and strengthens our resiliency to climate-related risks. The measure of success for this engagement is the amount of water and electricity saved through conservation and efficiency measures, including a decline in water and electric usage per customer year over year.

C12.2

(C12.2) Do your suppliers have to meet climate-related requirements as part of your organization's purchasing process?

No, and we do not plan to introduce climate-related requirements within the next two years

C12.3

(C12.3) Does your organization engage in activities that could either directly or indirectly influence policy, law, or regulation that may impact the climate?

Row 1

External engagement activities that could directly or indirectly influence policy, law, or regulation that may impact the climate

Yes, we engage directly with policy makers

Yes, our membership of/engagement with trade associations could influence policy, law, or regulation that may impact the climate

Yes, we fund organizations or individuals whose activities could influence policy, law, or regulation that may impact the climate

Does your organization have a public commitment or position statement to conduct your engagement activities in line with the goals of the Paris Agreement?

No, and we do not plan to have one in the next two years

Attach commitment or position statement(s)

<Not Applicable>

Describe the process(es) your organization has in place to ensure that your external engagement activities are consistent with your climate commitments and/or climate transition plan

Our external engagement activities are aligned with our internal company priorities. These include reducing the effects of climate variability, reducing energy and emissions, fortifying the water infrastructure, and increasing conservation and efficiency. The executive management team works cohesively on the company's strategies and priorities, including what we're trying to accomplish related to climate-related issues. These are then conveyed to each departments' teams so that there is consistency across the organization in messaging, strategy, and values.

We communicate regularly with external stakeholders including elected officials, regulators, policy makers, trade associations, and other organizations. Executives that typically are involved in these engagements include the SVP - Regulated Water Utility, President of Bear Valley Electric Service, Inc. and VP - Regulatory Affairs.

Consistent communications messaging includes risk and resiliency, climate variability, and other topics associated with the company's climate strategy and ensuring that operations continue to align with the overall business strategy. As a regulated utility we operate in the best interest of our customers.

Primary reason for not engaging in activities that could directly or indirectly influence policy, law, or regulation that may impact the climate

<Not Applicable>

Explain why your organization does not engage in activities that could directly or indirectly influence policy, law, or regulation that may impact the climate

<Not Applicable>

C12.3a

(C12.3a) On what policy, law, or regulation that may impact the climate has your organization been engaging directly with policy makers in the reporting year?

Specify the policy, law, or regulation on which your organization is engaging with policy makers

In 2022, California Senate Bill 1469 was signed into law. This bill allows water utilities to request decoupling in its next rate case filed with the CPUC. Decoupling separates revenue from sales through a Water Revenue Adjustment Mechanism (WRAM) and keeps the water utilities whole for implementing conservation rates and programs. It gives us a potential tool for conservation. We continue to aggressively promote water conservation throughout all of our regions, lessening the strain on our water supply and using less energy to pump water, reducing our GHG emissions.

In addition, we continue to work with the State Water Resources Control Board on the consolidation of non-viable water systems to meet California's human right to affordable, potable water. Most non-viable systems do not have the technical, financial and managerial resources to operate their facilities in the most efficient manner and are often not in compliance with water quality & environmental regulations, are ill-prepared for climate-related events or chronic climate-related issues like drought, and lack the ability to improve their carbon footprint. As a larger company, we have the ability and tools to heavily promote conservation, increase capital spending to fortify water systems, decrease water loss, and install more efficient pumps to save energy. In 2022, we worked with State Water Board staff to assess the potential consolidation of a small, troubled system with our existing water system.

Category of policy, law, or regulation that may impact the climate

Climate change adaptation

Focus area of policy, law, or regulation that may impact the climate

Other, please specify (Customer water conservation promotion, lessening the strain on our water supply and reducing energy/greenhouse gas emissions by pumping less water.)

Policy, law, or regulation geographic coverage

Sub-national

Country/area/region the policy, law, or regulation applies to

United States of America

Your organization's position on the policy, law, or regulation

Support with no exceptions

Description of engagement with policy makers

Our primary goal as a regulated utility is to support laws and policies that enhance our ability to provide safe and reliable water service to our customers. Our SVP - Regulated Water Utility is a Board Member on the California Foundation on the Environment and Economy (CFEE), which is a non-profit organization that brings together leadership from the environmental, local government, labor and business communities with elected and appointed officials to facilitate non-partisan, substantive, and productive dialogue that moves policy on fundamental environmental and economic issues in California. Through CFEE, we are able to directly engage with elected officials and policy makers on issues such as climate change, water affordability, services to underserved communities and social justice issues, to name a few. At CFEE's annual conference in 2022, our SVP - Regulated Water Utility participated on a panel discussion regarding the impacts of California's historic drought on local water systems.

We are committed to industry leadership and work on a non-partisan basis with federal, state and local agencies to support effective environmental, health and safety, water, wastewater and energy standards and regulations. Additionally, we are actively involved in supporting our regulators and state governments to fulfill their goals, from finding solutions to bring clean water to disadvantaged communities at affordable rates, to ensuring a reliable and high quality supply of water is available for many generations to come. Our utility experts work directly with governmental leaders, non-governmental organizations, and other parties to identify and implement specific solutions to address these difficult and challenging problems.

During 2022, our SVP – Regulated Water Utility represented GSWC in the collective effort with the other investor-owned water utilities to move SB1469 through the legislative process. This effort included meeting directly with policy makers and elected officials or with their executive staff to discuss SB1469.

Details of exceptions (if applicable) and your organization's proposed alternative approach to the policy, law or regulation

<Not Applicable>

Have you evaluated whether your organization's engagement on this policy, law, or regulation is aligned with the goals of the Paris Agreement?

Yes, we have evaluated, and it is aligned

Please explain whether this policy, law or regulation is central to the achievement of your climate transition plan and, if so, how?

<Not Applicable>

C12.3b

(C12.3b) Provide details of the trade associations your organization is a member of, or engages with, which are likely to take a position on any policy, law or regulation that may impact the climate.

Trade association

Other, please specify (National Association of Water Companies (NAWC))

Is your organization's position on climate change policy consistent with theirs?

Consistent

Has your organization attempted to influence their position in the reporting year?

Yes, we publicly promoted their current position

Describe how your organization's position is consistent with or differs from the trade association's position, and any actions taken to influence their position

Source: <https://nawc.org/issues/environmental-stewardship/>

NAWC members are committed to protecting the environment and to using our most precious resource – water – as wisely as possible. Improving environmental stewardship is one of the most often-cited reasons municipalities give for deciding to work with a water company. For water companies, sustainability is essential. The fact is water companies are helping to lead the way on water conservation with green, energy-saving initiatives that make a difference for the communities they serve. From Connecticut to California, our members are educating customers about the importance of protecting natural resources and the environment. NAWC members have a strong track record of helping communities improve their water conservation practices through award-winning community education programs and water audits. By utilizing smart water use practices – like water recycling and leak detection technology – water companies are leading the way in protecting the environment and promoting sustainable solutions.

Funding figure your organization provided to this trade association in the reporting year (currency as selected in C0.4)

277812.99

Describe the aim of your organization's funding

We pay annual membership dues. Through the NAWC, we are able to take advantage of members collaborating, sharing best practices and leveraging their strengths to benefit the communities they serve. As our nation's population continues to grow and increasing pressure is placed on our resources, communities will need the experience of NAWC's members more than ever to protect public health, promote environmental stewardship and deliver sustainable solutions. Their expertise in the development and implementation of technology, alongside the replacement of aging infrastructure, will have a profound impact on people, businesses and the environment.

Have you evaluated whether your organization's engagement with this trade association is aligned with the goals of the Paris Agreement?

Yes, we have evaluated, and it is aligned

C12.3c

(C12.3c) Provide details of the funding you provided to other organizations or individuals in the reporting year whose activities could influence policy, law, or regulation that may impact the climate.

Type of organization or individual

Non-Governmental Organization (NGO) or charitable organization

State the organization or individual to which you provided funding

California Water Association (CWA)

Funding figure your organization provided to this organization or individual in the reporting year (currency as selected in C0.4)

324299.64

Describe the aim of this funding and how it could influence policy, law or regulation that may impact the climate

Each year, our company pays membership dues to CWA in order to assist the work that they do on behalf of water companies in California. In addition, in 2022 we supported their Water Pathway Career Academy, as well as help pay for an intervenor.

Source: <https://calwaterassn.com/about-cwa/>

CWA's core mission is to represent the interests of California investor-owned water companies, provide a forum for sharing best management practices, a means of promoting sound water policy by legislators and regulatory agencies, and opportunities for educating the public on the protection and efficient use of water resources.

There are over 90 regulated water utilities across California serving more than 6 million customers. Our members are water professionals who live and work in the communities they serve. They're dedicated to building water infrastructure, supporting the sustainability of our natural resources, and delivering clean and reliable drinking water to customers and communities across California.

CWA member companies are regulated by the California Public Utilities Commission (CPUC), an independent state agency responsible for establishing utility rates and guidelines for service. The CPUC shares responsibility for regulating drinking water quality with the State Water Resources Control Board (SWRCB). CWA works with members to inform regulation that impacts our members and the customers they serve, while sharing our expertise with the CPUC, SWRCB, and other policy makers.

CWA works with members and partner organizations to enhance the ability of members to deliver safe, reliable, high-quality drinking water. To this end, CWA monitors legislation and takes positions on issues of interest to CWA members.

CWA also works with local and state non-governmental organizations (NGO) serving disadvantaged communities to promote the services of investor-owned water utilities and to engage with community leaders to develop productive communication pathways focused on addressing common challenges such as water affordability and infrastructure replacement.

Have you evaluated whether this funding is aligned with the goals of the Paris Agreement?

Yes, we have evaluated, and it is aligned

C12.4

(C12.4) Have you published information about your organization's response to climate change and GHG emissions performance for this reporting year in places other than in your CDP response? If so, please attach the publication(s).

Publication

In voluntary sustainability report

Status

Underway – previous year attached

Attach the document

AWR_ESG_FIN_sprds.pdf

Page/Section reference

Pages 14, 16, 20, 22, 23, 25, 34-37, 39-49, 52, 54, 55

Content elements

- Governance
- Strategy
- Risks & opportunities
- Emissions figures
- Emission targets
- Other metrics

Comment

Publication

In mainstream reports

Status

Complete

Attach the document

2022 FY 10K.pdf

Page/Section reference

Pgs. 6-7, 10-11 (of pdf)

Content elements

- Governance
- Strategy
- Risks & opportunities
- Emissions figures
- Emission targets
- Other metrics

Comment

C12.5

(C12.5) Indicate the collaborative frameworks, initiatives and/or commitments related to environmental issues for which you are a signatory/member.

	Environmental collaborative framework, initiative and/or commitment	Describe your organization's role within each framework, initiative and/or commitment
Row 1	Other, please specify (Multiple regional initiatives)	Our statewide operating footprint and related use of local and imported water resources results in our participation in various court ordered operating frameworks as well as regional initiatives focused not only on maintaining the local water resources, but also on regional collaborative initiatives that are focused on water supply resiliency and mitigating environmental challenges. For example, in our Arden Cordova area, we are signatories to an effort to reduce the impact of drought conditions on the American River. Through the Regional Water Authority, a collective group of water purveyors that have water rights on the American River are working closely with the State Water Resources Control Board on voluntary agreements that are intended to address the impact to the American River habitat during times of drought. Overall, throughout GSWC's service areas, interacting with regional water retailers, watermaster/basin management entities and wholesale agencies is required to ensure we are engaged with the ongoing management of the water resources and long term initiatives that impact water resources. In regards to the court ordered entities, GSWC is a named party to the court ordered action that created the entity and as such, holds board level or committee level positions, depending on the individual structure of the court ordered entity.

C15. Biodiversity

C15.1

(C15.1) Is there board-level oversight and/or executive management-level responsibility for biodiversity-related issues within your organization?

	Board-level oversight and/or executive management-level responsibility for biodiversity-related issues	Description of oversight and objectives relating to biodiversity	Scope of board-level oversight
Row 1	Please select	<Not Applicable>	<Not Applicable>

C15.2

(C15.2) Has your organization made a public commitment and/or endorsed any initiatives related to biodiversity?

	Indicate whether your organization made a public commitment or endorsed any initiatives related to biodiversity	Biodiversity-related public commitments	Initiatives endorsed
Row 1	Please select	<Not Applicable>	<Not Applicable>

C15.3

(C15.3) Does your organization assess the impacts and dependencies of its value chain on biodiversity?

Impacts on biodiversity

Indicate whether your organization undertakes this type of assessment

Value chain stage(s) covered

<Not Applicable>

Portfolio activity

<Not Applicable>

Tools and methods to assess impacts and/or dependencies on biodiversity

<Not Applicable>

Please explain how the tools and methods are implemented and provide an indication of the associated outcome(s)

<Not Applicable>

Dependencies on biodiversity

Indicate whether your organization undertakes this type of assessment

Value chain stage(s) covered

<Not Applicable>

Portfolio activity

<Not Applicable>

Tools and methods to assess impacts and/or dependencies on biodiversity

<Not Applicable>

Please explain how the tools and methods are implemented and provide an indication of the associated outcome(s)

<Not Applicable>

C15.4

(C15.4) Does your organization have activities located in or near to biodiversity- sensitive areas in the reporting year?

C15.5

(C15.5) What actions has your organization taken in the reporting year to progress your biodiversity-related commitments?

	Have you taken any actions in the reporting period to progress your biodiversity-related commitments?	Type of action taken to progress biodiversity- related commitments
Row 1	Please select	<Not Applicable>

C15.6

(C15.6) Does your organization use biodiversity indicators to monitor performance across its activities?

	Does your organization use indicators to monitor biodiversity performance?	Indicators used to monitor biodiversity performance
Row 1	Please select	Please select

C15.7

(C15.7) Have you published information about your organization's response to biodiversity-related issues for this reporting year in places other than in your CDP response? If so, please attach the publication(s).

Report type	Content elements	Attach the document and indicate where in the document the relevant biodiversity information is located
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C16. Signoff

C-FI

(C-FI) Use this field to provide any additional information or context that you feel is relevant to your organization's response. Please note that this field is optional and is not scored.

C16.1

(C16.1) Provide details for the person that has signed off (approved) your CDP climate change response.

	Job title	Corresponding job category
Row 1	President & CEO	Chief Executive Officer (CEO)

Submit your response

In which language are you submitting your response?

English

Please confirm how your response should be handled by CDP

	I understand that my response will be shared with all requesting stakeholders	Response permission
Please select your submission options	Yes	Public

Please confirm below

I have read and accept the applicable Terms