

CITY OF
SEBASTOPOL
CLIMATE ACTION
COMMITTEE
AGENDA ITEM

Meeting Date: October 13, 2021
To: Climate Action Committee
From: Public Works Superintendent, Dante Del Prete
Subject: Project Review and Recommendations to City Council on “Comprehensive Energy Efficiency, Water Conservation, and Solar PV Project”
Recommendation: That the Sebastopol Climate Action Committee Review and Provide Input for City Council Discussion and Consideration of Action on the Proposed “Comprehensive Energy Efficiency, Water Conservation, and Solar PV Project”
Funding: Currently Budgeted: _____ Yes _____ No _____ N/A X

Account Code/Costs authorized in City Approved Budget (if applicable) _____ (verified by Administrative Services Department)

INTRODUCTION/PURPOSE:

Staff is requesting that the Climate Action Committee review and provide input on the proposed Comprehensive Energy Efficiency, Water Conservation, and Solar PV Project and provide recommendation that will be included with information to City Council during the Discussion and Consideration of approval of project that includes the following components:

- Implementation of various energy efficiency measures across City-owned infrastructure
- Implementation of real-time monitoring system, involving upgrade of existing City-owned water meters
- Implementation of new roof, HVAC, and solar PV at Library

BACKGROUND:

In August 2018, City Staff sought assistance from a local, qualified professional and licensed firm to identify potential areas where the city could benefit from making improvements to existing City-owned infrastructure. Staff wanted to understand where improvements can be made, what the benefits of the improvements would be, and what financing or funding options were available to pay for the improvements. Staff identified (3) areas where the greatest opportunities existed to leverage available funding to pay for the projects that would result in the greatest overall benefit to the City. These (3) areas included: 1) City-Wide Energy Efficiency; 2) Water Conservation and technological advances to enable real-time water use monitoring; 3) Library improvements consisting of new roof, HVAC, and Solar PV. Staff identified Syserco Energy Solutions (SES) as a local firm (Petaluma, CA) with extensive experience and capabilities in these areas. In November 2020, City Council approved engaging SES to perform a detailed engineering analysis to develop Scope of Work, Project Costs, Project Savings, and Financing Options for a comprehensive project that includes all measures outlined in this report. City Staff has worked closely with SES over the past (10) months to develop a project that is best aligned with the goals and needs of the City, in a manner that is “self-funding”. (I.E, the project pays for itself with realized energy savings or revenue recovery over a period of time not to exceed 15 years and requires \$0 capital

dollar to be allocated from existing or future City budget).

PROJECT FUNDING:

The overarching funding principle for this energy and water conservation project is such that the operational/utility cost savings and increased water/sewer revenue that is realized by doing the project will offset the annual cost of municipal financing of the entire project, over a period not to exceed (15) years. The project shall be “self-funding”, meaning the amount of annual savings and increased revenue will be equal to or greater than the annual financing cost to pay for the project. Additional capital shall not be required by the City to pay for this project.

At the Library, 100% of project costs associated with the roof and solar PV will be covered under a Power Purchase Agreement. Again, no City capital funds will be required by the City to pay for the project.

CAPITAL COST AVOIDANCE:

Over the past (2) years, City Staff has identified several areas of infrastructure improvement that will require a significant capital investment by the City. Staff has intentionally chosen to not include numerous improvements in the annual budgeting cycle, with the anticipation that this project will address the identified and necessary capital improvements, without the need for the city to invest large amounts of capital. The following capital projects are included in this project, and by including these measures in the project, the city will avoid any future capital outlay required to pay for the pending and necessary work:

- Well #8 is nearing its useful lifespan mechanically. Staff has been aware of this condition and has delayed scheduling the repairs/replacement as this work was identified as an energy consumption replacement item in the proposed scope of the project. It is a matter of time before this well needs to be rebuilt and will likely result in an emergency funding situation if repairs are not made to Well #8 soon.
- The three (3) large sewer pumps at Morris Lift Station are reaching end-of-life status. These 14 year-old pumps are losing efficiencies and the continuous use of these pumps will result in pending failures, thus creating emergency repair situations.
- The roof at the library is well beyond useful life and needs to be replaced. If this roofing measure were not included in this project, then the cost of replacement will need to be included in future Capital Improvement Project budgets.
- The pool chlorinator at Ives Pool is the oldest in operation for this type. Staff repairs over the past years have identified that many of the parts for the current model are obsolete. This unit needs to be replaced and if it is not included in this project, then the cost of replacement will need to be included in future Capital Improvement Project budgets.
- There has been a strong interest and request for air purification at the library, not only for virus removal but also to prepare for future smoke and fire events. An air purification solution is included with the HVAC improvements. If air purification is not included in this project, it will need to be addressed by City Council in the near future, likely requiring additional capital funding.
- Each of the past 5 years, Public Works has purchased between 100-200 water meter to replace failing water meters. This Project will put a 10-year hiatus on purchasing new replacement, 5/8" x 3/4" water meters that have aged out of accuracy calibrations since the Project will replace all 1,650 residential meters that are older than 11 years.

PROJECT SCOPE OF WORK:

The following provides a detailed overview of the Scope of Work included in the project:

Energy Efficiency

All city-owned facilities and surrounding infrastructure were evaluated to identify areas where energy-efficiency improvements can be made that will result in the combination of utility and operational cost savings, infrastructure improvements, future capital cost avoidance, improved comfort and security, and the reduction of greenhouse gases as well as the City's overall carbon footprint. City Staff and SES identified several opportunities that include measures such as: Building and streetlight LED lighting upgrades, HVAC improvements, Building Envelope Sealing, Installation of Window Film, Generator Heat Pump Replacement, Installation of De-stratification Fans, Pool Chlorine Generation, Sewer Lift Station Upgrades, and improvements to Water Wells # 6 & 8. A detailed description of each measure can be found in Exhibit 1 – Energy Services Proposal.

Water Conservation & Real-Time Monitoring Capabilities

City Staff regularly receives requests for water usage data from customers who are trying to conserve water and save on water bills. With the current and persistent drought conditions, responsible water customers are interested in a greater level of information than our legacy utility billing can currently provide. The city is presently on a bi-monthly water billing cycle. This means that every water meter box is opened, and each water meter is physically read for half of the city each month. Unfortunately, this equates to consumption data information only being updated every two months for each billing account. City's current water consumption bills are not providing the information customers need to monitor their water usage effectively and could potentially allow a water service leak to go undetected and unrepaired for up to two full months. Also, because the city currently reads and bills in hundred cubic feet (CCF) instead of gallons, customers have a difficult time translating their water usage into the traditional measurement of gallons used. One unit of water does not register on meter until a full 748 gallons of water (a CCF) goes through their meter.

Staff and SES are proposing a solution that involves the replacement of approximately 55% of existing City-owned water meters and an upgrade of the remaining 45%. Understanding that there have been individuals with concerns regarding radio transmitting meter systems in the past that would have required signal repeaters placed throughout neighborhoods, City Staff proposes a cellular meter reading solution that will provide an excellent tool to provide both the city and its customers with timely usage information and alerts to potential leak situations. This solution utilizes the existing public cellular network and requires no proprietary gateways to operate, eliminating infrastructure requirements compared to a traditional fixed network. These cellular endpoints securely transmit metering data through a secure existing network within the service area. Each message is securely transported to the BEACON AMA software via Virtual Private Network (VPN) using Advanced Encryption Standard (AES) 256. By collecting water usage data four times per workday, with three of those times configurable by the city in order to best support daily operations, City Staff will be able to identify leaks and faulty meters much sooner, and will also be able to better identify unaccounted for water. Also, because the need for manual readings will be basically eliminated, Public Works personnel can be redirected onto other water system management and maintenance projects.

City Finance Department is strongly in favor of this solutions, as it will significantly improve efficiency of water monitoring, it will improve the accuracy of data being retrieved (no longer dependent on human interface, where errors are typically made, thus reducing re-reads), and customer service will improve because Staff will now have the ability to monitor water use real-time and access historical data to assist with customer inquiries and assist customers with billing inquiries and reduce truck rolls for move in/move outs.

Public Outreach Meter Survey

In order to solicit customer and community feedback, City Council approved the release of a water meter survey at the July 6, 2021, meeting. The survey ran from July 16 to October 1 and was sent out in all of the physically mailed water/wastewater utility bills as well as being posted on the city website, included in weekly e-newsletters, and published in multiple social media sources and local media. The purpose of this public outreach effort was to give the community an opportunity to provide feedback as it relates to support, or concerns for the project. In response to questions received at the start of the survey, staff also prepared an extensive FAQ section for the survey. Digital outreach efforts generated a total of 2,415 clicks through to the survey: 2,130 from Facebook, 178 from direct (outbound) survey emails, and 107 via the City's weekly newsletter. There were 329 responses. 54.7% of respondents are in favor of proceeding with this project, 31% are not in favor of proceeding, and 14.3% are undecided. In a transparent effort to compile the survey results based on the information received exclusively from the public the 40+ city facility water meter services were not included in the calculations of the responses. Staff believed that this could have been viewed as an unethical. As adding 40+ additional in favor responses would have undoubtedly skewed the voice of the public water customers. Details of the survey results can be found in Exhibit 2 – Water Meter Survey Results.

AMI (Advanced Metering Interface) cellular meter technology has been successfully implemented in many other municipalities including Alameda County, Suisun City, City of Merced, City of Patterson, City of Ripon, NorthStar CSD, Yuba City and several more with many proven benefits. Also, Sebastopol has already purchased and implemented the Badger Meter Software Program that is ready to interface with this data collection technology.

Specifically, if approved, an AMI (Advanced Metering Interface) and AMA (Advanced Metering Analytics) upgrade would:

- Replace approximately 1,650 of Sebastopol's existing water meters (those older than 11 years old) with new meters and cellular transmitters to increase meter accuracy
- Install a cellular transmitter on all meters less than 11 years old (Qty 1,292)
- Provides the infrastructure for the Public Works Department to achieve its goal of efficiency and best environmental practices that support programs focused on reducing the consumption of natural resources. These include:
 - significantly enhancing service to water customers, including faster response and more efficient customer service, as well as on-demand move-in / move-out remote meter reads
 - allows city staff to accurately report individual and city-wide water usage and configures alerts to potential infrastructure or residential issues (i.e. leaks)
 - simplify the billing process
- The AMI& AMA system offers a secure, web and mobile Consumer Portal for water customers that has timely and accurate consumption information. This interface allows Customers:
 - to control water usage, costs, and advance personal "green" initiatives
 - to access their own consumption information and billing data
 - to access usage reports on yearly, monthly, and a daily basis (including hourly and 15-minute interval data)
 - to set budgets and water conservation goals
 - to access management tools such as setting usage parameters, either in dollars and/or

volumetric units, that trigger email/text alerts when usage exceeds custom parameters, including notifications of potential leaks

- The Consumer Portal also
 - correlates consumption data with meteorological local temperature and precipitation
 - prepares reports in graphical and tabular views for reading consumption and billing approximations coinciding with date ranges selected by users
 - compares current usage to previous periods

The cost of this this upgrade will be offset by energy cost savings and revenue recovery. There will be no requirement for additional capital to pay for the project. A detailed description of the Scope of Work and technical aspects of this real-time water monitoring solution can be found in Exhibit 1 – Energy Services Proposal.

Upgrades at City-Owned Library

City Staff has been anticipating the need for capital project upgrades at the library, including a new roof and HVAC system. There has also been strong interest by City Staff, Library Staff, and the community to install solar PV on the roof of the library. Because of the owner/tenant arrangement (City owns the building, County of Sonoma Library utilizes the space and pays the utility bills), staff has identified a solar Power Purchase Agreement (PPA) contract as the most viable funding solution, that is in the best interest of the City and tenant. Under a PPA, the City will not be required to spend capital or ongoing maintenance and operational costs to build the system or maintain the system. Both the roofing costs and the solar PV costs are included under the PPA, and this financing solution will benefit both parties. The city will benefit from a new roof and solar PV system with no out-of-pocket costs required, and the tenant will benefit by experiencing lowering ongoing electricity costs at a fixed escalation, with no rate increases for 25+ years. SES has assisted the city with procuring a qualified PPA provider, that will provide the best overall value to the City and County of Sonoma Library. The cost for the HVAC system improvements shall be included with the other energy efficiency measures and water efficiency measures and collectively financed under a tax-exempt municipal lease, again resulting in a project that does not require additional out-of-pocket funding from the City. A detailed description of the Scope of Work and technical aspects of these measures at the library can be found in Exhibit 1 – Energy Services Proposal.

GOALS:

-Economic Vitality (EV)

Goal EV 7: Maintain a Stable and Self-Sustaining Fiscal Base in Order to Generate the Resources Necessary to Provide Desired City Services and Support New Growth that is Consistent with the City's Values and Goals

-Community Services and Facilities (CSF)

Goal CSF 1: Provide High Quality Community Services, Facilities, and Infrastructure to All Residents, Businesses, and Visitors in Sebastopol

Goal CSF 3: Provide an Adequate, Clean, Safe, and Environmentally Sound Water Supply to All Existing and Future Water Users in Sebastopol.

Goal CSF 4: Provide Adequate Sewer Service Capacity to Serve Existing and Future Demands.

PARTNERSHIPS:

The city has received a commitment from Ives Pool management and board members to contribute \$30,000 toward the cost of replacing the pool chlorine generator, as part of this project. This funding shall go directly to the City and will reduce the total amount of municipal financing required to fund the project.

The city has also been in communication regarding a commitment from Sonoma County Library Association to potentially contribute toward the cost of replacing the HVAC and Roof at the Library, as part of this project. This funding shall go directly to the City and will reduce the total amount of municipal financing required to fund the project.

PUBLIC COMMENT:

As of the writing of this Staff report, the city has not received any public comment. However, Staff anticipates receiving public comment from interested parties following the publication and distribution of this Staff report. Such comments will be provided to the City Council as supplemental materials before or at the meeting. In addition, public comments may be offered during the public comment portion of the agenda item.

PUBLIC NOTICE:

This item was noticed in accordance with the Ralph M. Brown Act and was available for public viewing and review at least 72 hours prior to schedule meeting date.

FISCAL IMPACT:

Entire project shall not require any additional capital from the City. The energy efficiency and water conservation project shall be paid for under a “self-funding” model where the realized cost savings and increased revenue will pay for the project over a period of time not to exceed 15 years. The estimated payback for the energy efficiency and water conservation portion of the project is 11.5 years. The Roof and Solar PV work being done at the library shall be funded under a Power Purchase Agreement (PPA). The PPA does not require any capital from the city.

RECOMMENDATION:

Staff recommends that the Climate Action Committee review the proposal information, provide input and consider recommending that the City Council approve both the SES and staff recommendations to move forward with approval of project as described herein.

ATTACHMENTS:

- Exhibit 1- Energy Services Proposal
- Exhibit 2- Project Cash Flow
- Exhibit 3- Water Meter Survey Results



Energy Services Proposal

Prepared for the City of Sebastopol, CA



Date Submitted: October 6, 2021

Presented by: Chad Olsen, PE, CEM
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Doc Revision: R02

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SECTION 0 – EXECUTIVE SUMMARY

The City of Sebastopol selected Syserco Energy Solutions (SES), a qualified Energy Services Company, to develop a City-Wide, comprehensive Energy and Operations Project compliant with CA GC 4217. The process of developing the Energy Conservation and Facility Improvement Measures (ECMs and FIMs) for the City involved performing an Investment Grade Audit (IGA) of the City’s facilities. The IGA established a historical energy and utility baseline and identified ECMs and FIMs and incorporates the main needs of the City’s Facilities team.

Syserco Energy Solutions is pleased to present the following energy efficiency and facility improvement project to the City of Sebastopol. This project shall utilize funding from a Tax-Exempt Municipal Lease, Capital Contribution and a Power Purchase Agreement (PPA).

The primary goals of this Project are:

1. Replace the HVAC equipment at the Sebastopol Library
2. Install new solar PV generation and replace the roof at the Sebastopol Library
3. Improve the water & wastewater pumping system efficiency
4. Reduce energy consumption across City-owned infrastructure
5. Reduce overall City greenhouse gas reductions
6. Improve tenant ability for real-time monitoring of water use
7. Allow City staff to monitor water-usage real-time
8. Upgrade aging infrastructure

The following table is the firm-fixed Project Cost and estimated utility and operational savings.

Project Cost	\$4,968,891
1 st Year Utility Cost Savings	\$241,821
1 st Year O&M Savings	\$74,533
<i>Total 1st Year Savings</i>	<i>\$316,354</i>
Funding Contribution form Ives Pool Club	\$30,000
Project Payback *	11.5

NET PROJECT 25-YEAR CUMULATIVE SAVINGS = \$7,208,040

** - Factored Payback based on Municipal Lease Financing with 15-year term at 2.85% interest and 4% annual utility escalation. See Exhibit 1 “Cash Flow” for year-by-year calculation of project payback.*

SECTION 1 – INTRODUCTION

Syserco Energy Solutions (SES) is pleased to present this Energy Services Proposal (ESP) to the City of Sebastopol (Sebastopol) for the purpose of implementing the recommended Energy Conservation Measures (ECMs) included in the final Investment Grade Audit (IGA) at the City of Sebastopol’s various facilities.

The intent of this ESP is to detail the Scope of Work, Project Cost and Financing structure that will result from the implementation of the identified ECMs. On the basis of these projections, SES will update existing systems, improve occupant comfort, reduce utility consumption and increase revenue. The City of Sebastopol will also realize maintenance and operational cost savings and Capital Cost Avoidance as a result of this work.

This Proposal marks the culmination of a detailed energy and operational audit of the City’s facilities, during which resource consuming systems and equipment were analyzed to understand the potential for energy savings and metering equipment was evaluated for existing accuracy. To develop the recommended project, experienced Energy Engineers, Project Managers and Project Developers from SES have assessed and analyzed energy efficiency opportunities. Syserco Energy Solutions has investigated multiple means for accomplishing this goal, including retrofitting equipment or installation of new devices and/or employing enhanced strategies to improve operational efficiency.

1.1 TEAM EFFORT

Syserco Energy Solutions would like to thank members of City Staff and Facilities personnel who worked closely with our team throughout this process. Without their assistance, this project would not have been possible.

1.2 APPROACH

The IGA process involved numerous site visits, interaction with City of Sebastopol Management and Facilities Staff, as well as a detailed analysis of existing equipment and systems, current utility consumption and any available logs and profiles of equipment. Studies of the energy usage, operating conditions and interviews with facility personnel were valuable sources of information that contributed greatly to this effort. Syserco Energy Solutions has taken into consideration the input provided and has integrated the various infrastructure needs of the City of Sebastopol through the proposed ECMs.

SECTION 2 – SCOPE OF WORK

2.1 ENERGY CONSERVATION MEASURE (ECM) SUMMARY

For the detailed scope of work descriptions please refer to the “2.6 ECM DESCRIPTIONS & DETAILED SCOPES OF WORK” section.

The following table shows the description of each Energy Conservation Measures (ECMs), energy savings, cost savings and the estimated O&M savings for each ECM.

ECM #	ECM Description	ECM Elec Energy Savings (kWh/yr)	ECM Gas Savings (therms/yr)	ECM Water Savings (CCF/yr)	Total Cost Savings (\$/yr)	Est O&M Savings Yr 1 (\$)
2.02	DESTRATIFICATION FANS	-560	891	0	\$978	\$371
2.03	E-GEN HP HEATER	16,689	0	0	\$4,867	\$490
2.05	HVAC UNIT REPLACEMENT	0	0	0	\$0	\$10,607
2.06	POOL CHLORINE GENERATOR	0	0	1,854	\$20,564	\$1,979
3.01	BUILDING LIGHTING UPGRADE & STREETLIGHTS	108,759	0	0	\$31,714	\$3,847
4.01	CITY WATER METER REPLACEMENT	0	0	9,988	\$110,772	\$33,203
4.02	PUMP REPAIR/REPLACEMENT	227,400	0	0	\$66,310	\$22,932
4.03	DOMESTIC WATER EFFICIENCY	1,273	68	207	\$2,751	\$564
5.01	NEW SOLAR PV ON ROOF	0	0	0	\$0	\$0
7.01	BUILDING ENVELOPE SEALING	1,055	527	0	\$998	\$182
7.02	WINDOW FILM	9,831	0	0	\$2,867	\$359
7.03	ROOF REPLACEMENT	0	0	0	\$0	\$0
Total	--	364,447	1,486	12,049	\$241,821	\$74,533

Projected energy reduction and cost avoidance figures are calculated based upon existing building occupancy, operation and stipulated assumptions of performance. Legacy utility billing was derived from City generated reports and future revenue increases are calculated using the historical data and applying an improved rate of accuracy for water meters. All calculations are based upon industry best practices and methodologies.

2.2 ENERGY SERVICES

SES will include the following services related to this project:

1. **DESIGN SERVICES:** SES will provide a detailed engineering design as needed to obtain the City's review and approval. In addition, SES will also provide Project / Construction management services, start-up, testing, as-built drawings of systems designed, and provide relevant operations and maintenance manuals.
2. **CONSTRUCTION:** SES will provide, or cause to be provided, all material, labor, and equipment, including paying for permits, fees, bonds, and insurance, as required for complete working installation of the proposed equipment.
 - a. SES will provide a Site Superintendent who will be responsible for the onsite supervision and coordination of trades and subcontractors. This individual's responsibilities will include regular work observations, quality control, enforcement of site-specific safety plan, as well as coordinating any impact upon building occupants with the Owner.
 - b. SES may perform portions of the contract work or may subcontract portions to qualified firms.

- c. When SES has completed the installation of the equipment, including start-up, operations verification, and training in accordance with the proposal, SES will provide to Owner a “Notice of Commencement of Energy Savings”.
 - d. At the conclusion of the project, SES will submit a “Notice of Substantial Completion” to the Owner.
3. **CONSTRUCTION MANAGEMENT:** SES will provide an experienced Construction Manager who will provide contract administration services for the Project. The Owner is expected to coordinate day-to-day communications with tenants and any scheduling of tenant relocations in and around occupied areas.
4. **OPERATION TRAINING:** SES will provide training of Facilities and Utility Billing Staff during the construction and close out period. In addition to this, the manufacturer recommended training for all new and upgraded systems will be provided upon completion.
5. **WARRANTY:** SES will warrant equipment and workmanship for (1) year following Notice of Substantial Completion. Specific information regarding equipment warranties will be passed on to Owner.
6. **EQUIPMENT MAINTENANCE:** SES will provide no equipment maintenance or repairs after the warranty period. Following the completion of the installation and Owner acceptance of the equipment, the Owner shall provide all necessary service, repairs, and adjustments to the equipment so that the equipment will perform in the manner and to the extent set forth in the proposal. SES shall have no obligation to service or maintain the equipment after the warranty period.
7. **HAZARDOUS WASTE:** The Work and Services expressly exclude any work of any nature associated or connected with the identification, abatement, cleanup, control, removal, or disposal of hazardous materials or substances, including but not limited to asbestos, lead, or PCBs. As of the Effective Date, Customer represents that, to the best of its knowledge, there is no hazardous material on the premises that may in any way relate to the Work or affect the ability of SES to deliver the Work or Services. Prior to the Commencement Date, Customer shall provide to SES a comprehensive good faith survey that at a minimum complies with applicable regulatory requirements, and identifies all actual or suspected hazardous materials, quantities, and specific locations of such materials on the premises. Failure to timely provide such good faith survey shall result in an equitable adjustment to Time. If SES becomes aware of or suspects the presence of hazardous materials on the premises during the Work or Services, SES shall notify Customer. Customer shall investigate and correct the suspected hazardous materials in accordance with all applicable laws. SES shall have the right to stop work in the affected area until the suspected hazardous materials are investigated and remediated by Customer, and the Time shall be equitably adjusted relative to the duration of Customer’s investigation and remediation of the suspected hazardous materials.

2.3 CLARIFICATIONS & EXCLUSIONS

2.3.1 CLARIFICATIONS

- All work to be performed during regular work hours when occupied spaces are accessible. SES will work closely with City staff to identify work areas that may require after-hours work. SES will review

project schedule with City staff so that mutual agreement is reached for site access and City-approved work in occupied spaces.

- All field craft labor will comply with prevailing wage requirements and current California DIR.
- All existing field sensors, valves, actuators, conduit, and wiring will be re-used.
- City of Sebastopol to provide all required static IP addresses and Ethernet drops for equipment.
- All structural engineering related to the support of mechanical equipment as identified is included, all other structural work is excluded.
- It is assumed that the Owner will provide a laydown and storage area during the construction period.
- All existing curbs / sleepers for rooftop equipment and support structures are assumed to be in good condition and are structurally adequate.
- All permit drawings, Title 24 forms and permit fees required for the execution of the work are included.
- It is assumed that the existing piping isolation valves are working in good order and are not leaking.
- It is assumed that City of Sebastopol will provide electrical power to operate electrical construction tools and equipment.
- Proposal is based on reusing existing electrical circuits unless specifically stated.
- Assumes proper grounding exists for all electrical equipment.
- Testing and Balancing for replaced equipment is included, all other is excluded.
- Pricing is based on a single-phase project, multiple phases or extensions to schedule may constitute a change in scope
- A one year warranty from date of measure acceptance is included.

2.3.2 EXCLUSIONS

- Replacement of isolation valves is excluded.
- Temporary heating, cooling, fans and domestic water are excluded.
- Pressure testing of existing piping is excluded.
- Any repair work for existing systems is to be excluded, all existing equipment is assumed to be in good working order.
- Work or other performance requirements shown in any other documents not stated in this proposal.
- Fire and life safety system programming or related work associated with the Work.
- Repairs or modifications to existing electrical, mechanical, controls, structural or other systems code violations unless specifically stated.

2.4 EXTENT OF SUBCONTRACTING

Syserco Energy Solutions may subcontract portions of the final M/E/P design, equipment installation, start-up, and training of this contract to qualified firms.

2.5 PROJECT SCHEDULE

Initial Construction Schedule start date shall be based upon execution of Contract as the predecessor milestone. Excluding holidays, owner directed work stoppages and weather events, the projected overall project implementation schedule shall be developed by Construction Manager, and reviewed with City staff at Construction Kickoff Meeting.

2.6 ECM DESCRIPTIONS & DETAILED SCOPE OF WORK

2.6.1 INTRODUCTION

Based upon the investigation of the IGA, a number of Energy Conservation Measures (ECMs) have been identified to meet the specific needs of the facility. ECM identification and selection is the result of SES detailed review of the sites, in conjunction with City of Sebastopol building plans, specification, equipment arrangements and interviews with personnel. These ECMs are intended to improve the efficiency of the buildings through new equipment, repair, retrofit and reprogramming of the different systems in the buildings.

The following are the detailed description of each proposed ECM. Each description includes the existing and proposed conditions, design method, planned scope of work, measurement and verification and any operation and maintenance impacts.

2.6.2 DETAILED SCOPE OF WORK

2.0 – HVAC ECM's

ECM 2.02 – Install New Destratification Fans

General Intent

The gym at the Community Center is a high ceiling space where air temperature stratification causes occupancy comfort issues. By installing destratification fans in the space the average bulk air conditions will be more uniform creating a more comfortable space for occupants as well as be more responsive to the HVAC equipment conditioning the space. This will result in decreased energy use, specifically for heating. This will utilize less energy to maintain the space temperature and have a useful life of approximately 15 years.

ECM Benefits

By installing the new equipment there will be enhances occupancy comfort and improve the energy efficiency.

Impacted Equipment

Community Center: Gym

Mechanical

- Install new destratification fans in gym rafter structure
- Install new electrical power circuits for fans
- Provide necessary engineering and project management for complete turnkey system
- Provide as built drawings, cut sheets/submittal package, O&M manual
- Provide owner/operator training
- Provide M&V in accordance with the stated plan

Design

- As required for electrical permit

ECM 2.03 – Generator Heat Pump Heater

General Intent

The backup generator serving the sewer lift station utilizes an electrical resistance heating element to maintain the oil sump and block temperature for rapid start operations. This element has a useful life of approximately 6 years and utilizes a constant supply of electricity to operate. This measure will replace this heating element with a heat pump heating system. This will utilize less energy to maintain the engine temperature and have a useful life of approximately 15 years.

ECM Benefits

Energy savings will be realized from the improved efficiency of the heat pump system and reduced maintenance and parts needed to maintain the generator.

Impacted Equipment

Morris Lift Station: 500 kW backup generator

HVAC Service

- Remove existing electrical heating system electrical components and properly dispose of
- Provide and install heat pump heating element system, system controls and integration
- Perform system startup and confirm operation with generator
- Provide necessary engineering and project management for complete turnkey system
- Provide as built drawings, line-by-line audit, cut sheets/submittal package, O&M manual
- Provide owner/operator training
- Provide M&V in accordance with the stated plan

ECM 2.05 – Replace HVAC Equipment on Roof

General Intent

The library building has packaged HVAC equipment located in the mechanical well on the roof. This equipment is at the end of its useful life and beginning to be difficult to maintain and has significantly reduced energy efficiency. This measure will replace the existing systems with new electric heat pump systems eliminating the need for primary gas at the site.

ECM Benefits

This measure will realize a full maintenance cycle on the HVAC equipment and improve the efficiency and operation of the systems. Additionally, it will shift the heating fuel from natural gas to clean, renewable electricity.

Impacted Equipment

Library: (3) RTUs

Mechanical

- Remove and properly dispose of existing RTUs in accordance with all state and local codes
- Remove and properly dispose of existing attic vents
- Provide and install new heat pump RTU's with minimum efficiency of 12.2 EER
 - If no natural gas backup heat selected, demo natural gas pipe back to roof penetration, valve off and cap
 - If electrical backup heat selected, provide and install new electrical feeder, circuit breakers and conduit for hookup
- Reuse existing equipment sleepers and provide and install new sleeper drip cap.
- Provide and install new isolation spring dampers for each unit
- Include crane pick and rigging
- Provide and install new attic vents
 - Modify curbs as needed to prevent water intrusion from new roof system
- Reconnect new RTUs to existing thermostat controls
- Provide pre and post air balancing to match existing air flows
- All new duct to be insulated in accordance with Title 24
- Provide and install new electrical disconnects and fuses
- Provide necessary engineering and project management for complete turnkey system
- Provide as built drawings, cut sheets/submittal package, O&M manual
- Provide owner/operator training

Design

- As required for mechanical and electrical permits

ECM 2.02 – Install New On-Site Pool Chlorine Generator

General Intent

Existing equipment has passed the end of its useful life and is showing significant signs of wear. The existing system continually increased the salt content of the pool water making managing pool chemistry difficult and damaging to equipment. The new system is designed to reduce new salt introduction and more effectively control pool chemistry.

ECM Benefits

By installing new on-site chlorine generation, the system will realize a full round of maintenance and simplify pool operations, reducing O&M costs.

Impacted Equipment

Ives Pool: (1) On-Site Chlorine Generator

Mechanical

- Remove and properly dispose of existing on-site generation system, in accordance with all applicable codes
- Provide, install and start up new NEX-GENpH Generator
- Include all electrical disconnect and reconnect
- Include all chemical connections to feedstock and injection ports
- Provide necessary engineering and project management for complete turnkey system
- Provide as built line-by-line implementation audit, cut sheets/submittal package, O&M manual
- Provide owner/operator training
- Provide M&V in accordance with the stated plan

3.0 – Lighting ECMs

ECM 3.01 – Lighting Efficiency & Controls Update

General Intent

The existing lighting systems in the city buildings are generally a mix of original linear T8 fluorescent tubes, recessed can lights with 2 and 3 lamp CFL pin lamps and LED lighting. There are (16) sixteen city owned streetlights that are not LED. This measure will replace the existing lighting systems identified in the lighting audit with new LED lamps or fixtures as recommended. Additional controls will be integrated where identified.

ECM Benefits

By replacing the exiting lighting systems with LED a full round of maintenance will be realized as well as longer lamp life with reduced energy consumption and increased light production.

Impacted Equipment

City Hall, Community Center, Corporate Yard, Fire Department, Ives Pool Complex, Police Department, Sebastopol Library, Senior Center, Youth Annex, Libby Park / Garzot Building, Streetlights: Lighting systems identified in the line by line audit

Building Lighting

- Project per ECM Holdings line by line audit
- Disconnect and reconnect line voltage
- Coordinate working periods to minimize occupant impact
- Clean all work areas of debris and dust after lighting work is completed
- Dry wipe all new and remaining lighting surfaces to be free of dust and debris
- Provide necessary engineering and project management for complete turnkey system
- Provide as built line-by-line audit, cut sheets/submittal package, O&M manual
- Provide owner/operator training
- Provide M&V in accordance with the stated plan

Street Lighting

- Project per City provided GIS and streetlight line by line data
- Remove and properly dispose of existing fixture head
- Provide and install new LED cobra head in accordance with City of Sebastopol requirements
- Includes all crew, trucks, rigging, deployment equipment needed for installation
- Dry wipe all new and remaining lighting surfaces to be free of dust and debris
- Update any GIS or other data tracking required by City of Sebastopol to fully document update
- Ensure that all fixtures are working properly and turning off and on based on daylight
- Assist City with submission of documentation of fixture change to PG&E for rate tariff update
- Provide necessary engineering and project management for complete turnkey system
- Provide as built line-by-line audit, updated GIS or other tracking, cut sheets/submittal package, O&M manual
- Provide owner/operator training
- Provide M&V in accordance with the stated plan

4.0 – Water ECMs

ECM 4.01 – City Water Meter Replacement

General Intent

The existing domestic water meter system employed by the city for water use and billing is aging. All Residential meters that are 5/8"x3/4" and are 11 years or older will be replaced with new Badger E-Series ultrasonic meters. The balance of the existing water meter fleet will be retrofit with new digital dial registers. All meters, city-wide, will be fit with a cellular radio for consumption reporting. This meter consumption data transfer will occur periodically throughout the day, reporting back to the billing system for logging. This will allow the city to monitor for leaks and be proactive in water management as well as to reallocate manpower from reading meters to other city projects. This will also allow the city to bill Customers monthly.

ECM Benefits

By replacing the exiting domestic water meters and fitting them with radios the city will be able to monitor for water leaks proactively and increase billing frequency from bi-monthly to monthly.

Impacted Equipment

City-wide water meters

Water

- Perform city-wide pit / meter / lid survey and pit cleaning
- Provide and install 1,650 new 5/8"x3/4" Badger E-Series ultrasonic meters to replace existing meters 11 years and older across the city, with armor cable and twist lock connector
- Provide and install 1,352 retrofit register head from Badger with wired connection with armored cable and twist lock connector for radio connection on all meters not replaced
- Provide and install 3,002 new cellular radio connections to all meters, city-wide
- Provide and install new Badger approved radio transparent pit lids or accessory box and lids for all meter pits as required
- Coordinate new meter data transfer into billing system
- Coordinate working periods to minimize occupant impact
- Assume that all water shut off valves are functional
- Provide necessary engineering and project management for complete turnkey system
- Provide as built line-by-line audit, cut sheets/submittal package, O&M manual
- Provide Operator training

ECM 4.02 – Water & Wastewater Pumping Efficiency

General Intent

The city produces and sells water to the residents via four (4) water production wells and a distribution network connecting reservoirs to the end consumers. There are two (2) wastewater lift stations that pump wastewater over hills and ultimately to the treatment facility located in Santa Rosa. The pumps at the Morris lift station are showing signs of decreased efficiency to move material from the wet well to the pipeline. This measure will replace the three (3) pumps with new and relocate to them to the pump room, removing the 2-story drive shaft system currently in place. Wells 6 and 8 are showing signs of reduced efficiency. By redeveloping and replacing well components the production efficiency may be increased.

ECM Benefits

By replacing equipment and redeveloping wells, pumping efficiency may be increased to reduce the cost to produce water and remove wastewater. This will also realize a significant maintenance improvement at the sites.

Impacted Equipment

Morris Lift station, Well #6, Well #8

Morris Lift

- Coordinate working periods to minimize occupant impact
- Assume that all water shut off valves are functional
- Remove existing drive shaft pumps, drive shafts and motors
- Retain existing valves for reuse
- Provide and install (3) new Flygt dry-submersible pump set with serrated impeller blades
- Provide and install new power and control conductor wiring from VFD/line reactors to new pump housings through existing drive shaft floor openings in waterproof conduit
- Include factory start up of motors and calibration of VFDs
- Excluded backup pumping or bypass pumping
- Provide necessary engineering and project management for complete turnkey system
- Provide as built engineered drawings, test reports, cut sheets/submittal package, O&M manual
- Provide operator training

Well #6

- Coordinate working periods to minimize occupant impact
- Assume that all water shut off valves are functional
- Pull pump/motor and video inspect well casing and pump for needed rehab/develop well and/or repairs to pump/motor
- Rehab/develop well to clean screens
- Remove and replace existing 75 HP pump with new, inspect existing motors for repair
- Remove existing 6" blending intake, distribution and mixing piping
- Install new 8" intake from zone 1 system to pump house
- Install new distribution piping to each pump and mixing water to well discharge to prevent cavitation
- Provide and install new 125 HP 460V 3Ph submersible pump with check valve
- Provide necessary engineering and project management for complete turnkey system
- Provide as built engineered drawings, test reports, cut sheets/submittal package, O&M manual

- Provide operator training

Well #8

- Coordinate working periods to minimize occupant impact
- Assume that all water shut off valves are functional
- Pull pump/motor and video inspect well casing and pump for needed rehab/develop well and/or repairs to pump/motor
- Rehab/develop well to clean screens
- Provide and install new 125 HP 460V 3Ph submersible pump with check valve
- Provide necessary engineering and project management for complete turnkey system
- Provide as-built engineered drawings, test reports, cut sheets/submittal package, O&M manual
- Provide operator training

ECM 4.03 – Low Flow Water Devices

General Intent

The existing domestic water systems in the city buildings are generally original to the construction. These fixtures have higher water flow rates than are needed or recommended. This results in excessive water use by the buildings. This measure will replace/retro-commission existing toilets, urinal flush valves, sink aerators, showerheads and kitchen sprayer with new high efficiency equipment.

ECM Benefits

By replacing the exiting domestic water systems with low flow devices, a full round of maintenance will be realized as well as longer equipment life with reduced water and energy consumption.

Impacted Equipment

City Hall, Community Center, Corporate Yard, Fire Department, Ives Pool Complex, Police Department, Sebastopol Library, Senior Center, Youth Annex, Libby Park / Garzot Building: Water systems identified in the water audit

Water

- Per water audit
- Disconnect and reconnect water
- Coordinate working periods to minimize occupant impact
- Assume that all water shut off valves are functional
- Clean all work areas of debris and dust after domestic water work is completed
- Provide necessary engineering and project management for complete turnkey system
- Provide as built line-by-line audit, cut sheets/submittal package, O&M manual
- Provide District/operator training

5.0 – Renewable ECMs

ECM 5.01 –Install New Solar PV

General Intent

There currently is no solar photovoltaic system installed at the Sebastopol Library. This measure will install new solar PV on the roof of the library to generate electricity behind the meter. This will offset the amount of energy that the library pays to PG&E for electricity with the cost of purchased electricity from the solar PV system.

ECM Benefits

By utilizing behind the meter solar PV the library will be able to more effectively manage the cost of electricity for the next 30 years.

Funding

This measure shall be funded separately, under a Power Purchase Agreement (PPA). The Cost of this measure is not included in Total Project Price, as outlined on Page 2 of this report.

Impacted Equipment

Sebastopol Library: Roof

Solar

- Size, design and coordinate permits for proposed solar PV installation on the roof of the library
- Provide, install roof stanchions for anchoring system racking to roof
- Provide, install solar PV racking system, modules and electrical conductors
- install new electrical conduit to combine and route generated power back to building Main Electric Switchboard
- provide and install new solar electrical disconnect and circuit breaker
- coordinate installation of new PG& smart meter
- Coordinate inspections for permits and execute any items needed to complete the permit
- Provide necessary engineering and project management for complete turnkey system
- Provide cut sheets/submittal package, O&M manual, pre and post photo documentation
- Provide M&V in accordance with the stated plan
- Provide owner/operator training

Design

- As required for electrical and structural permits

7.0 – Envelope ECM's

ECM 7.01 – Repair / Replace Door Sweeps and Seals

General Intent

The exterior doors and exit stair well doors have missing or damaged door sweeps and seals. This allows for air, water and pest infiltration to the buildings. By repairing or replacing the door sweeps and seals of the exterior doors, the amount of infiltration will be reduced. By installing door sweeps on the interior exit doors the occupied spaces will be able to be conditioned better.

ECM Benefits

Reduced infiltration and conditioned air migration will reduce the amount of energy needed to condition the occupied spaces.

Impacted Equipment

Exterior doors for City Hall, Corporate Yard, Sebastopol Library, Police Department and Senior Center

Envelope

- Provide and install appropriate door sweeps and seals for all exterior exit doors
- Provide necessary engineering and project management for complete turnkey system
- Provide cut sheets/submittal package, O&M manual
- Provide owner/operator training
- Provide replacement stock for equipment as needed

ECM 7.02 – Install Window Film

General Intent

The windows on the East, South and Western exposures have windows that let in a significant amount of solar heat and UV radiation. There are manual shades to reduce the amount of solar glare entering the building but are typically left closed. The intent of this measure is to install window film directly on the interior surface of the glazing to reduce glare, UV and heat gain in the spaces.

ECM Benefits

By reducing the amount of heat gain to the spaces the air conditioning will not have to work as hard to cool the spaces. Additionally, by reducing the amount of UV incidence in the spaces, the interior finishes will not be worn as quickly.

Impacted Equipment

City Hall, Corporate Yard, Senior Center, Youth Annex: East, South and Western windows

Envelope

- Provide and install window film on East, South and West exposure windows
 - Final approval will be provided by Facility personnel
- Includes any rigging, lifts needed to provide a complete install
- Special care is to be made in selecting and installing film to not bubble and warp or damage any glazing
- Provide necessary engineering and project management for complete turnkey system
- Provide cut sheets/submittal package, O&M manual
- Provide owner/operator training

ECM 7.03 – Roof Replacement

General Intent

The existing roof on the library is past the end of its useful life. The existing roof is bubbling and showing signs of wear, however, there are no leaks. There is known to be lead and/or other hazardous materials under the roof. The proposed roof will be a spray on urethane foam approximately 1” thick covered with silicone and sand for traction. This foam will be structural and will go over the existing without removal. New drip cap will be installed. There will be significant coordination with the HVAC replacement and solar PV installation scopes.

ECM Benefits

This measure will provide a new leak free roof system increasing the thermal efficiency of the roof. The main benefit will be the reduced cost of installation without having to mitigate hazardous material under the roof. Additionally, the white roof color will make cooling the building easier.

Funding

This measure shall be funded separately, under a Power Purchase Agreement (PPA). The Cost of this measure is not included in Total Project Price, as outlined on Page 2 of this report.

Impacted Equipment

Sebastopol Library Roof

Envelope

- Remove existing drip cap and properly dispose of
- Prepare roof for new installation by cleaning and removing any bubbles
- Coordinate and install stanchions for new solar PV array anchor points
- Coordinate with HVAC mechanical work to include mechanical well in scope
- Install new foam roof 1” thick and cover with 20-year warranty coating of silicone and sand
- Provide necessary engineering and project management for complete turnkey system
- Provide cut sheets/submittal package, O&M manual
- Provide owner/operator training

SECTION 3 – PROJECT FINANCIALS

3.1 FIRM-FIXED PROJECT COST

Costs presented in this proposal are valid for 60 days from the date of publication. If the Notice to Proceed is issued after 60 days from publication, SES reserves the right to re-evaluate the project and make necessary modifications to the construction cost. Other factors that SES does not have direct control may affect the ability to complete the project in the time proposed or at the price presented. In the event of delay that SES could not control, we reserve the right to request schedule extensions and reasonable adjustments to Project Costs to cover additional costs associated with the delay.

3.2 ITEMS INCLUDED IN PROJECT COST

Project costs include the following:

1. Engineering audit / Project Development, including the cost for preparation of this proposal.
2. Engineering design.
3. Construction management services.
4. Installation of Syserco Energy Solutions equipment including the following as specified in the scope of work
 - a. All costs paid by SES for the installation of the equipment. This includes costs paid to subcontractors or directly to Syserco personnel, when related to installation or system verification of equipment.
 - b. The portion of reasonable travel, lodging, and meal expenses of officers or employees incurred while traveling in discharge of duties connected with the Work.
 - c. Cost of all equipment, materials, supplies, and equipment incorporated in the Work, including costs of transportation thereof.
 - d. Cost or rental charges, including transportation and maintenance, of all materials, supplies, equipment, temporary facilities, and hand tools not owned by the workers.
 - e. Cost of premiums for all bonds and insurance, which SES is required to purchase and maintain.
 - f. Permit fees, royalties, and deposits lost for causes other than the SES negligence.
 - g. Losses and expenses not compensated by insurance or otherwise, sustained by SES in connection with the Work, provided they have resulted from causes other than the fault or neglect of SES. Such losses shall include settlements made with the written consent and approval of the owner. If, however such loss requires reconstruction and SES is placed in charge thereof, they shall be paid for their services a fee.
 - h. Demolition cost and cost of removal of all debris.
 - i. Costs incurred due to an emergency affecting the safety of persons and property.
 - j. Other costs incurred in the performance of the Work if and to the extent approved in advance in writing by the Owner.
 - k. Cost of equipment startup, training, system verification and balancing performed by SES.
5. Construction Bonds (including Performance & Payment), if required.
6. SES shall provide a Schedule of Values. The schedule of values will include all costs related to the installation of the equipment. Upon execution of Energy Services Agreement, SES Construction Manager shall prepare and present Schedule of Values at Construction Kickoff meeting.

3.3 ONGOING SERVICES / WARRANTY

Project includes 1-year warranty for material and labor. Additional warranty services may be available by product manufacturers and shall be “passed on” to City. Extended warranty beyond 1-year is not included in this proposal.

3.4 SES COMPENSATION

1. **Terms:** Net 30 days from the date of invoice, monthly billing as the job progresses.
2. **Payments:** At a minimum, payments will be made in the amount of 100%, less retention of five percent (5%) per the contract, at the completion and implementation of any individual Energy Conservation Measure (ECM) in the amount of that ECM as delineated in the contract. If more than one ECM is completed in a monthly period, all of those ECM’s will be paid.
3. **Mobilization / Project Development / Engineering Fee:** invoice will be presented upon mutual execution of the Contract and will be in the amount of 25% of the Project’s total value.
4. **Finance Charges on Unpaid Balances:** Payments due and unpaid shall be subject to interest charges per contract terms and conditions.

3.5 TERMS AND CONDITIONS

3.5.1 TERMS OF AGREEMENT

The Contract shall be effective and binding upon the parties immediately upon its execution and the period from contract execution until the Commencement Date shall be known as the "Interim Period". All energy savings achieved during the interim period will be fully credited to Owner as mutually agreed to by the Owner and SES.

3.5.2 INSURANCE AND BONDING

If required, SES shall provide a Payment and Performance bond.

1. The bond amount consists of Labor and Materials and State Sales Tax.
2. This bond does not include any construction contingencies.
3. Certificates of General Liability Insurance will be provided prior to Contract Signing

Syserco Energy Solutions shall provide a payment and performance bond in the amount of 100% of the construction cost. The amount shall include state sales tax.

The Bond shall specifically exclude coverage for those portions of the Energy Services Agreement and/or Energy Services Agreement Addendum pertaining to design services, maintenance, utility incentives, and any other clauses which do not relate specifically to construction management and supervision of work for purchasing and installing of SES Equipment, or for work to be accomplished by the Owner. The Bond shall be with a Surety or Bonding Company that is registered with the State of California Insurance Commissioner’s Office.

Syserco Energy Solutions shall provide proof of insurance naming the City of Sebastopol as additionally insured under the General Liability Policy. Insurance will comply with the City of Sebastopol requirements and be shown as exhibit to Energy Services Agreement.

Exhibit 1

City of Sebastopol: Cash Flow Analysis

Annual Escalator	Year 0	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20	Year 21	Year 22	Year 23	Year 24	Year 25
	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047
Utility Savings	\$ 120,911	\$ 241,821	\$ 251,494	\$ 261,554	\$ 272,016	\$ 282,896	\$ 294,212	\$ 305,981	\$ 318,220	\$ 330,949	\$ 344,187	\$ 357,954	\$ 372,272	\$ 387,163	\$ 402,650	\$ 418,756	\$ 435,506	\$ 452,926	\$ 471,043	\$ 489,885	\$ 509,480	\$ 529,860	\$ 551,054	\$ 573,096	\$ 596,020	\$ 619,861
Operational Savings	\$	\$ 74,533	\$ 77,514	\$ 80,615	\$ 83,839	\$ 87,193	\$ 90,681	\$ 94,308	\$ 98,080	\$ 102,004	\$ 106,084	\$ 110,327	\$ 114,740	\$ 119,330	\$ 124,103	\$ 129,067	\$ 134,230	\$ 139,599	\$ 145,183	\$ 150,990	\$ 157,030	\$ 163,311	\$ 169,843	\$ 176,637	\$ 183,703	\$ 191,051
Capital Contribution from Ives Pool	\$ 30,000																									
Project Cost	\$ (4,968,891)																									
Tax Exempt Muni Lease	\$ 4,968,891																									
Estimated Annual Lease Payment @ 2.8%		(\$407,848)	(\$407,848)	(\$407,848)	(\$407,848)	(\$407,848)	(\$407,848)	(\$407,848)	(\$407,848)	(\$407,848)	(\$407,848)	(\$407,848)	(\$407,848)	(\$407,848)	(\$407,848)	(\$407,848)										
Annual Savings	\$ 150,911	\$ (91,494)	\$ (78,840)	\$ (65,680)	\$ (51,993)	\$ (37,759)	\$ (22,955)	\$ (7,559)	\$ 8,452	\$ 25,104	\$ 42,422	\$ 60,433	\$ 79,164	\$ 98,645	\$ 118,905	\$ 139,975	\$ 162,736	\$ 187,226	\$ 213,506	\$ 240,645	\$ 268,605	\$ 297,455	\$ 327,255	\$ 358,055	\$ 389,915	\$ 422,895
Net Savings	\$ 150,911	\$ 59,417	\$ (19,423)	\$ (85,103)	\$ (137,096)	\$ (174,854)	\$ (197,809)	\$ (205,368)	\$ (196,916)	\$ (171,812)	\$ (129,389)	\$ (68,956)	\$ 10,208	\$ 108,853	\$ 227,758	\$ 367,733	\$ 529,993	\$ 707,226	\$ 899,726	\$ 1,107,271	\$ 1,330,876	\$ 1,570,481	\$ 1,827,136	\$ 2,099,891	\$ 2,387,786	\$ 2,690,871

↑
Project Payback / Break



Sebastopol Water Meter Survey Results

With water conservation a top priority, the City of Sebastopol is exploring ways to give its water customers tools to gain greater control over their own usage and to be alerted to leaks in real time. Many other water providers in our region have found success with cellular water meters and an accompanying app where customers will have instant access to this information.

We are conducting a short survey of water customers to gather input on whether or not they feel that such a program would be of value.

Survey results will be shared with the City Council to help inform their decision-making process about the cellular water meter program.

This survey will end on October 1, 2021.

Visit <https://bit.ly/2YMX3Lp> for a list of Water Meter Survey FAQs

ADDITIONAL INFORMATION FOR YOUR REFERENCE

If you would like additional information about the product and app before filling out the survey:

Product: <https://www.badgermeter.com/products/endpoints/>
For an interactive demo of what the app looks like, click this link:
<https://eyeonwater.com/dashboard/demo>

Email: demo (You do not need to enter your email address.)

Password: demo

Note that the demo shows a sample address in Los Gatos.

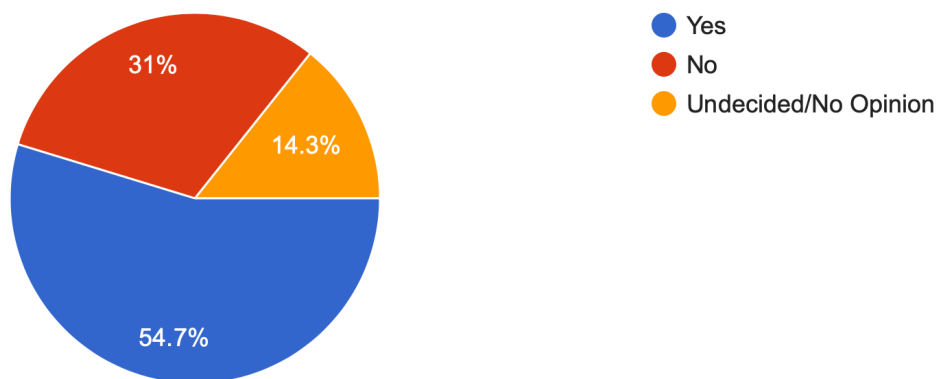
329 Total Responses

229 Online Responses

100 Mailed Responses

Are you in favor of the City of Sebastopol adopting a cellular water meter system?

329 responses





Use this space to indicate why or why not:

250 responses

1. Make it very easy to know what your water usage is.
2. The current water bills provide next-to-no information. The usage graphs are good, but the bill lists the amount used in "units" that mean nothing to your customers. Talk to us in gallons (like the app does). Also, I get the bill periodically, but it doesn't raise my awareness often enough to be a useful feedback mechanism about how much water I'm using. I can see my bill online, but logging into the cruffy billpaying site is a pain, and more important, it doesn't offer real-time information. The app presents usage information in useful context, plus it's real-time.
3. Every 2 months is inadequate to spot issues
4. This technology is long overdue.
5. It will help with water saving/conservation - I'd like to know if I have a leak, usage for various things (irrigation, etc.).
6. I prefer the KISS method....let's keep our systems as simple as possible. The cellular systems are far too complicated for many in our community. I have neighbors who do not use any form of technology.
7. It would be a lot easier to monitor my water use if I knew exactly how much I was using.
8. The City may use it for micromanagement. ("twice a week") instead of as a way to monitor total usage - and as a tool for the consumer
9. I would like to track water usage more closely. This would enable me to find out if there are leaks.
10. Seeing your actual usage will help you save water. Billing would be more accurate .
11. Always helpful to be able to monitor real time data to moderate usage
12. So we can better monitor our usage plus identify any possible leaks or problems in our irrigation system.
13. Am trying hard to conserve water. But I need data! Bill arriving every other month just isn't all that helpful, when attempting to fine tune water usage.
14. The part of the bill based on actual water consumed is so small. About 90% of my bill stays the same whether water use goes up or down.



<p>15. We strongly oppose the change out of water meters that use cellular frequencies (RFR or EMF), sonic waves and batteries. Although it would be interesting to see our water usage in detail, please consider the environmental effects. Our environment is already overburdened with RFR from cell towers, cell phones, smart meters, and wi-fi etc. Independent studies show birds, bees, plants are harmed by RFR and children are especially vulnerable. There's a new independent peer reviewed study that calls for EMF regulation to protect wildlife. "Effects of non-ionizing electromagnetic fields on flora and fauna, part 1. Rising ambient EMF levels in the environment," by Blake Levitt, Henry Lai and Albert Manville. https://pubmed.ncbi.nlm.nih.gov/34047144/ They write: "It is time to recognize ambient EMF as a novel form of pollution and develop rules at regulatory agencies that designate air as 'habitat' so EMF can be regulated like other pollutants. Wildlife loss is often unseen and undocumented until tipping points are reached. Long-term chronic low-level EMF exposure standards, which do not now exist, should be set accordingly for wildlife, and environmental laws should be strictly enforced."While the technology would help the city mandate water cutbacks and rationing, I don't think people will use the tools more than a few times. That's the case with smart electric and gas meters. Most people in Sebastopol comply with requests to cut back and the water meters we currently have are working.If it ain't broke, don't fix it. Reduce, reuse, recycle, make do, do without...Thank you</p>
<p>16. Better data leads to better conservation of water practices.</p>
<p>17. Not enough research or information</p>
<p>18. Oppose use of EMF Emitting meters that may cause health hazard</p>
<p>19. Enough RF in town</p>
<p>20. particularly for knowing about leaks. I often see water running down a neighboring street--makes me crazy.</p>
<p>21. I believe with the infrastructure is already there then yes we can use it but if it requires new cellular towers to be placed up then I oppose such an idea.</p>
<p>22. dont know what it is</p>
<p>23. I don't know, sounds good</p>
<p>24. So we can actually track our daily water usage, hopefully in gallons per day.</p>
<p>25. I marked "yes" but would have preferred "maybe". I'd be concerned about how robust the meters the cost to rate payers. I would support the ability for residents to better track their usage. This could also be a useful feature for rapidly identifying leaks.</p>
<p>26. Saves labor</p>
<p>27. Absolutely would want more detailed monitoring of useage to catch problems early.</p>
<p>28. I like to be able to monitor in real time.</p>



<p>29. Knowing water usage immediately instead of waiting for the bi-monthly bill would be very useful for meaningful water management. We are a small dance hall with renters (Wischemann Hall), and it would also help us determine who among the renters is using the most water so we could speak to them.</p>
<p>30. Better tracking systems can help users understand their own consumption, how they are using water compared to others in the community (vs. average), and with better knowledge save more water</p>
<p>31. While being sold as a way for customers tools to gain greater control over their own usage, this would be one more point for government (or hackers) to access personal information. It is not necessary and the risk/dangers outweigh any benefit. I am happy to pay for my water use, but object to government monitoring my usage in real time.</p>
<p>32. Makes it easy to check water consumption</p>
<p>33. If I know in real time what our water use is we can be more effective in conserving.</p>
<p>34. I discourage use of cellular radio frequencies</p>
<p>35. Visibility is always a good thing</p>
<p>36. Easy info and leak detection</p>
<p>37. It is really impossible to give an informed opinion. With power outages and having to tie people to cell phones... it might be premature. Kind of like this survey!</p>
<p>38. It would help me conserve water if I actually had an app or I could see how much water I was using</p>
<p>39. So I can see in real time what my water usage is</p>
<p>40. Being able to access both real-time and historical information about actual water use would really help understand our use and would be especially helpful in assessing whether there may/may not be leaks.</p>
<p>41. Understand alot of folks are anti-frequency stuff but .. SF had this installed years ago and it will works. It was awesome to log in and actually see you usage and how you could judge changes to your usage as you changed your use pattern. Bring it on!!</p>
<p>42. I would like real time data to spot potential leaks and monitor usage</p>
<p>43. Better to have knowledge and know if you a leak or excess usage in real time.</p>
<p>44. Anything is better than manual meter reading. Cellular, Lora, whatever. Why use a 20 year battery? Aren't there generators powered by water flow? Real question is how are you going to convince Linda Berg.</p>



<p>45. It's a great way to monitor water use in real time. It's very motivating to see exactly how much water you're using for your lawn, for example. And then to track the impact immediately of reduced use is even more motivating. For the City it would allow a way to know if water conservation policies are making a difference, and it might provide necessary data to support grant applications.</p>
<p>46. Spending money in wrong area of city system</p>
<p>47. I want to be able to monitor my usage in real-time so I can figure out better ways to save on water</p>
<p>48. Not enough information. How would it work for us as the homeowner?</p>
<p>49. More accurate measurement. self monitor usage.</p>
<p>50. If like to know more precisely my water usage.</p>
<p>51. There is no guarantee that the cellular system will save enough water to warrant its expense. I am not in favor of what will probably be expensive, paid for by the water user. Other communities that have saved a lot of water ended up with higher bills as the water department is largely fixed cost. I just don't think it is a justified expense. I am in favor of saving our groundwater, but I believe that the money could be spent better elsewhere-- education for high users, actually payment to users for reducing use, etc. It seems to be another way of pretending to care about the environment/water, but mostly to waste money for unsure benefit</p>
<p>52. I recently found a leak in my drip irrigation that had clearly been there for a long time - but I did not know about it until recently. I hate to think how much water was wasted (and the cost!) because of that. I would have known MUCH sooner if I had some sort of monitor/alert.</p>
<p>53. Radiation kills so lets eliminate as much radiation from our lives as we can.</p>
<p>54. More immediate information</p>
<p>55. Immediate feedback on water usage will be valuable</p>
<p>56. Waste of money. No one will care. People will use water responsibly or they won't. This will not make ant difference to them. Additional EMF's. I don't have any apps on my phone. I can read my own meter. It this a set-up for opression?</p>
<p>57. I don't have enough information to make an informed response.</p>
<p>58. Currently I can't see water use until two months later. Immediate access is good to help conserve.</p>
<p>59. I like the idea of being able to monitor my water use daily.</p>



60. Not sure how often it is read, if it helps identify leaks then that might be useful. For instance seeing water use after midnight.
61. It seems like a good idea, but I don't have enough to go on to answer yes or no. There is no information about the cost, who pays the cost, how effective it would be, and when the program would begin.
62. I'm not opposed to it, but not sure it would be of value to me.
63. Unclear what risks/advantages are
64. great to have leak detection!
65. I think they should do it for vineyards
66. EMF for my principal reason an cost
67. Helps end wasting accidents earlier, like if the irrigating drip goes wacky.
68. Job loss, more data in digital format, open for hacking.
69. I want more information defining a "cellular water meter". I do NOT have a scanning device.
70. Not needed; marginal utility.
71. Unknowns: Cost to city/citizens; Privacy
72. Should be on the honor system. Not in favor of regulations at this level.
73. I don't even know what that is :(
74. I would like continuous and immediate access to my water usage so I can monitor it and adjust as needed.
75. I'm favor of the cost is reasonable. How much? General fund?
76. Lower your rate increases with fewer staff and greater information for customers. Reduce reading errors.
77. I would like to have real time water usage data.
78. our water bill is too large and so anything that can be done to monitor usage would be great
79. I am super electrical sensitive and my health is severely impacted by wireless tech like these meters. My water meter is outside just a couple feet away from where I sit at my home business desk all day long - the only place in my house where a desk fits..
80. The demo was very instructive. I'd like to have this level of usage granularity available to me
81. We all need to conserve as droughts continue
82. Real-time information of a problem allows opportunity to correct -- not later regret.
83. There is no mention of cost. While the information would be helpful and similar to PG&E usage meters, it seems the increase or reduction of cost to implement should be publicly known.
84. I want to track water usage.



85. We have both a PG&E gas & electricity smart meter and are very pleased with the reliable and consistent readings. Doing this for our water meter will reduce staff overhead and lead to more consistent and accurate readings.
86. COST: New water meters, Cellular Data, Lifecycle the Tech in the future, Increased Radio Frequency usage in the City. Water Costs are already high! EMPLOYMENT and Reliability: One person reads all the meters and this keeps someone employed and visually inspecting the system every read cycle. If someone is interested in seeing their water usage then they can install Home monitoring themselves. I do not need an increased water bill which is what this translates to in the future.
87. The 5G is going to melt our brains.
88. Lots of advantages: no surprises when the water bill comes, can check for leaks, can get immediate feedback on water conservation efforts or experiments, easier to meet usage goals, etc.
89. Let's make our water use visible.
90. Makes us more aware of our water usage and can help identify leaks earlier
91. Makes us more aware of our water usage and can help identify leaks earlier
92. Because it will help me monitor my water usages in real time!!! Who wouldn't want this service??
93. I've used it before and found it to be very useful. It gives alerts when there might be a water leak.
94. what is it?
95. My current water usage is all over the place. I'd like to have info to help me conserve .
96. It would help us decrease our water usage.
97. Better able to know of leaks.
98. In order to conserve, water users need to know and understand their use through data from their meters. Please let those of us who want access to this data have that option.
99. on the one hand, it would be great to detect water leaks immediately. On the other hand, I don't want the app because I always have lower my usage to 1 to 2 units a bill, and I all ready deal with too many apps, to be going on line.
100. More up to date information on individual households use of water. know you have a leak sooner than waiting to see your water bill.
101. I use the smart meter from PGE and change my use accordingly.
102. I used the link for badgermeter but it made no sense. It was odd. The interactive demo wasn't so great either. It wasn't interactive & it didn't allow me to enlarge the page, so I really couldn't see details.
103. What is the cost?
104. Sounds more efficient and accurate



105.I don't utilize a cell phone extensively per current lifestyle - I don't think it would be helpful to me . .
106.While I am interested in knowing my real time usage, I would like to know the cost first.
107.I feel that adapting this water metering system is a waste of money. The elderly people will probably not know how to use the app and I think most people will not be looking at this app. As a landlord I have no control over how much water my tenant uses. This could also be used against people if they impose water restrictions.
108.It will be great to have daily looks at our usage and to watch for leaks.
109.I need to know more about the cords involved and the projections for community water savings.
110.I want to keep better track of my water usage
111.Convenience, real-time data. Helpful to monitor own use, maybe even detect leaks.
112.I am concerned about security & presume this is all secure. Is it?
113.Don't want to be monitored
114.I don't see any advatage over the present meter.
115.It sounds lie on of those "Smart Meters" that pin off cellular towers I rejected the gas smart meter, so I don not want a water smart meter bringing EMF's into my home!!!
116.We need accurate, timely data. This is the cheapest way to get it long term
117.Good to keep track of useage-great way to see any leas early before wasting 1000's of gallons! Good to get idea just how much a bath/shower/ laundry etc uses in stead of wild guesses.
118.Understand when water is used, find leaks
119.What is the Cost?
120.I want to be part of the solution to save water.
121.Cost of Implementation
122.Don't want it!! Don't need it!
123.Not sure why we need this-It would likely add more EMF's around us.
124.Need more info.
125.I believe it will help residents more easily and accurately gauge water use.
126.Sounds like a good idea
127.Don't want any smart meters that plug int the new technocracy. No wifi, here and no vore EMF desired. Prefer doing without amenities that might harm any creatures of the earth
128.Don't know enough about it. Don't like extra noise on cell phone.
129.I need more information about security on the meter.



<p>130.I currently do not use any 'Smart' devices other than my iPhone. I turn that off at night. Do not want more EMF's or cellular activity near my house if I can help it. Neighbors put in PG&E Smart meters that face our bedrooms 15' away. Not happy about that. We opted out of the PG&E Smart meter. Plus, we're very conservative with water usage and only 2 people.</p>
<p>131.I don't know what a cellular water meter system is</p>
<p>132.We would use it to track our water use. It would be helpful to note leaks in the drip system, which operates infrequently at 4:30 a.m.</p>
<p>133.easier feedback on usage would be informative</p>
<p>134.You are willing to spend money right and left to advertise and enforce water conservation, but what about increasing the supply? Folks were canoeing on Hwy 12 not too long ago and not one teaspoon of that water was added to our supply. Every year there is some excess runoff from our streams, but none of that water is saved. The city does not actively promote systems to save gutter runoff from houses. You are not thinking straight.</p>
<p>135.It's not clear How this will help save water, which is a desirable goal, and whether the costs involved are a worthy investment. Surely you can come up with a brief 1 to 2 page summary of the costs, advantages and disadvantages, description of how the average homeowner will use it, etc. It's impossible to form an opinion with the information provided!</p>
<p>136.provides a direct means for assessing the impact of household water conservation efforts</p>
<p>137.We already have too much exposure to microwave radiation.</p>
<p>138.Would help people control water use.</p>
<p>139.It will be more accurate for both water usage and billing</p>
<p>140.I don't see the need. To alert for leaks only?</p>
<p>141.I think we all have a sense that we are doing our best to conserve water but any additional information and feedback we could get in real time about that would be helpful.</p>
<p>142.We don't get enough granularity in the system. I cannot tell when my water usage is occurring.</p>
<p>143.I prefer the old school way. Change is terrifying and we should avoid it at all costs, especially when deciding whether to add bike lanes to our city streets.</p>
<p>144.Don't understand concept</p>
<p>145.like being notified if there is a leak!</p>
<p>146.I simply don't know enough about the pros and cons of this system</p>
<p>147.So we can monitor our usage in real time instead of waiting for the bill which is 60 days old.</p>



148. We definitely need to be able to monitor our usage in real time! It will make such a difference in being able to pay attention, show it to kids and other family members etc. It's so important!
149. Allow users to monitor use real time
150. The cost is probably very high
151. To know water usage earlier than when bill arrives every 2 months
152. It is a good way to make people more aware of water usage.
153. We are saving water already an app is not going to be looked at in our daily routine
154. Good intentions, bad idea. This is one more potential point of failure at each and every residence. We don't need 10,000 more EMF emitting devices throughout the city transmitting every 15 minutes.
155. Giving everything its own app trivializes apps. Also, putting data into an app increases risk of data mining (for commercial interests) or data theft.
156. Data provides the information needed to conserve this precious resource. Those who oppose this are senselessly worried about control and secrecy. Water is a shared resource and requires transparency.
157. I believe that the current report comparing monthly water usage for this year and the previous year is all the information we need
158. notify leaks in real time
159. more accurate real time water usage monitoring
160. What is wrong with the current system? Is it inaccurate? I would like to know more often how much water I'm using. Now, one waits 2 months.
161. I think it is important to see the data real time.
162. I have compromised immune system, avoided EMFs and all other 'waves' if possible.
163. My husband and I pay close attention to our water use and take extensive efforts to conserve. We monitor our water use through our Seb water bills, and we watch for leaks, occasionally looking at our meter next to the street to see if it's moving even with everything's turned off. We prefer this low-tech method and don't want more cell-phone, wifi based technology in our lives.
164. I really like the ability to check for leaks and consumption at any time.
165. I'd like to be able to monitor my water usage.
166. More expence to the city, when street improvement is more important
167. The data may help me figure out where it all goes!
168. Provides more info about water usage
169. Early awareness of leaks sounds great



<p>170.This would be another "Smart Meter" in the style of the device PGE has tried to put on every property, and which many of us have -- thankfully -- had the privilege of paying to opt out of. The reasons for rejecting additional Cellular Devices on our properties are many and varied. Some of us are physically sensitive to these Wireless ElectroMagnetic Frequencies in the range of 200 MegaHerz to 8 GigaHerz, such as cell phones, streaming devices, Wifi routers, that communicate with cell phone towers and antennas. Some of us understand that as additional devices and antennas are installed and established as norms, the ElectroSmog Pollution with its harms to the environmental, animal, insect, and human health grows exponentially in aggregate, and causes more risk of cancer and other biological health harms. Some are concerned that this is yet another instance of the "Surveillance Industrial Complex" monitoring our lives.</p>
<p>171.I do not want to be tracked or measured electronically in any way. I do not believe that this is purely for My benefit.</p>
<p>172.Undecided b/c I would want to know where the unit will be installed and the power of the the transmitter. I was opposed the PGE smart reader b/c it would be installed on an outside wall where right inside my young son slept. And I heard it was a high powered transmitter so didn't think it was worth it. However, if this water meter is installed at the water mains on the sidewalk (50 feet from front door) i would be ok with it.</p>
<p>173.To better monitor my water usage.</p>
<p>174.I don't really know what it is</p>
<p>175.bad health effects</p>
<p>176.It is the only practical way to check our water usage</p>
<p>177.Additional cellular products in my neighborhood and in our community may increase health problems for those with EMF sensitivities . I choose not to have wireless services or products in my home.</p>
<p>178.We will have pay to for this system everything the city does increases the monthly bill. STOP!</p>
<p>179.I would need to do more research.</p>
<p>180.We really need to understand our water usage and take steps to reduce it.</p>
<p>181.I don't understand the true cost of the system. Will I be charges a small fee over time to pay for the new meter? How much? I</p>
<p>182.I have had major leaks before that I didn't know about until significant waste</p>
<p>183.What evidence is there that this is a cost effective way to save water? It seems like another boondoggle that some fancy consultants are pushing to collect more data.</p>
<p>184.Value doesn't justify the cost.</p>
<p>185.Looks like a system that allows me real time awareness of my water use.</p>
<p>186.I don't have enough information to make an informal decision.</p>
<p>187.Current meter works great! And my landline is not connected to the internet</p>
<p>188.I looked at Demo and it appears to be an easy way to compare water use.</p>



189. Why?
190. I would prefer the city uses its funds to maintain the aging water pipes. You could teach people how to check their water meters!
191. I can monitor my water usage without another app or device
192. Any way to improve monitoring water usage is a good idea
193. Too much cellular in our lives. Concerned about health Risk
194. Data is not knowledge or understanding. Having everyone obsess over a 1 in 1000 chance of pipes leaking doesn't help change behaviors.
195. Our cellphones are "flip phones" and do not have the capability to do this
196. Ok if not required. Some of us seniors wouldn't be capable of using
197. If it will save me \$, I'm for using the system
198. Unclear as to additional cost to customer
199. I couldn't access Demo A/P? Need more info. Cost to City or Water User(me)
200. I do not understand the implications
201. We need to conserve water.
202. Better Records & accurate!
203. I would like more information about thw this system would work.
204. Better to keep track of what we use
205. Happy with the way it is.
206. I don't want to have to use my computer to get information on what is going on. Just do it the way it has been done always.
207. Individuals should be alert on water consumption in West County/California USA and global scale under this climate crisis.
208. Commercial Bld have no control over how much they use
209. I do not feel that this is an expense the city needs to take on for the few cell phone addicted
210. Don't use a smart phone.
211. Not Needed
212. Don't use cell service for anything
213. Whatever it takes to help us CONSERVE.
214. Don't need instant information monthly is sufficient
215. To give us a more accurate knowledge of our water use.
216. I think many people will use it. Sounds like a great tool!
217. Lack of information on product site. Demo won't open. Therefore don't have info on how it works.
218. More money higher rates and probably needs a computer or cell phone.



219.If I want to know my H2o usage I read the meter. I can detect leaks also. Cellular system just adds unnecessary redundancy.
220.I think so.. Not very well explained here.
221.Don't need any more information. Not helpful for monitoring usage.
222.No more Wi-Fi
223.I do not use a smart phone
224.We have underground irrigation pipes that can leak
225.Cannot afford an iPhone
226.I will not support or fund the use of cellular antennas, Emitters or Receivers (which are a threat to human, animal and plant bio-systems) In or around my home, neighbors or community
227.I don't do online or use apps generally
228.The current ones are fine. Asking us to conser is not enough? More Control over our lives? Use that money for new meters to find more storage options build new dam's etc!
229.Will help me track water use
230.Will require new equipment that you will want to charge for that will only last 20 .
231.Absolutely NOT. I have had my PG&E "smart meter" removed because I do not want electromagnetic radiation causes me real pain.
232.I definitely need more information.
233.I especially like the idea of real-time leak detection as a way to reduce water wastage.
234.We are against increasing the concentration of low-level celluler emmisions in our environment.
235.Yes a good idea, only if there are safeguards in place to prevent hacking and or fraud! If not, then no!!
236.too much cellular activity already
237.How much will it cost the city?
238.This meter is a clear violation of our home privacy. Consistently tracking and storing information on when we use water could allow someone other than the homeowner to know when we are home and when we are not. When we take long showers or do our laundry. This information can and will be used for more than letting a home owner know that they have a leaking pipe. Besides being invasive, I do not like the idea of having "Smart" meters lining our sidewalks. It was a shame that PG&E was allowed to install their "Smart" meters on the side of our homes and now we are thinking of lining the sidewalks our children walk on with water "Smart" meters. It may sound good on the surface, but I really, really, really do not like this.
239.Want Service!
240.One thing will lead to another and higher rates



241. At 70 yrs old "apps" are beyond my "last century" mentality. I am very conservative with my water usage, but will go with the "flow".
242. We are not a computerized house
243. It is the only way to accurately self monitor H2O use. Thank you!
244. Depending on how much it cost of the system. Adds to water bill compared to possible savings from using add info to reduce usage.
245. I do not want more wifi going on in our neighborhoods
246. Expense! I want to spend \$ on Streets Repaving
247. So residents can see in "real time" their water consumption
248. Helps me to conserve Water
249. This product will undoubtedly end up costing water users more money. Our water bills in West County are high due to sewer fees
250. We don't look at smart meter now. Why waste the money on meters, apps, and installation labor that won't be looked at. An incentive to re-landscape would be money better spent.

Use this space to ask questions or make any additional comments:

180 responses

1. I have feedback on the water surveys...I learned when working in marketing and conducting surveys that sometimes , 'yes' and 'no' questions are acceptable. Often, though, it is important to give a third option, and in the case of the water survey in the week's newsletter, asking the question, "Are you in favor of the City of Sebastopol adopting a cellular water meter system? ", it deserves not only a 'Yes' a 'No' but also a 'don't know at this time' answer.
2. will the information go to my computer or phone?
3. If the City swears to not use it to enforce TOTAL water usage restrictions ONLY I would vote for it.
4. I would like to know our regular water usage not just every two months when the water bill comes. I calculate usage when the bill comes and compare it to a year ago. That is the only way I have to compare. Also how much per person per household is expected under the Stage 2 restrictions? Maybe I am already doing my part. I don't know. According to our last bill we used 110 gals per day for two people and our garden. Is this good or too much under Stage 2. This is why I would like to meter our usage.



<p>5. System looks clear and easy to make use of. Hope it isn't grossly expensive for city to obtain!!! Will anti WIFI "tin hat" citizens be vocal enough to quash this attempt to be water wise? I sure hope not.</p>
<p>6. Focus on getting more rain water to infiltrate into the ground water. Build Lynn Deedler's proposed Lake Sebastopol by removing sediment from the Laguna.</p>
<p>7. We are cutting back on our water use. I would like to be kept apprised on this issue</p>
<p>8. Also the anti-wifi/cellular anit-science tinfoil-hat crowd has tried to ruin this town long enough. I live in a place where if I needed emergency services, my cell coverage makes it a 50-50 chance that the call would connect. I live inside city limits.</p>
<p>9. Not convinced it the right thing to do</p>
<p>10. go after business that waste water. Eye center doc when they wash hands they should turn off water while rubbing hands together then turn back on to rinse</p>
<p>11. What would be the cost per meter, for the city as a whole, and impacts on rates over the next 1 to 10 years.</p>
<p>12. Residential water use is literally a drop in the bucket state-wide (https://www.ppic.org/publication/water-use-in-california/). Focus city conservation efforts on agriculture and industrial use, not forcing homeowners and business owners to kill off expensive, mature landscaping. Also, policies that force consumers to cut back by a certain percentage punish those who have always conserved water.</p>
<p>13. I purchased my own water meter monitor and I've found it incredibly helpful</p>
<p>14. How is the city going to pay for this system? And will the bill increase due the cost of this system?</p>
<p>15. How much water is in the underground ?</p>
<p>16. No need for more apps</p>
<p>17. How much will this cost users</p>
<p>18. Would it only serve as an enforcer, or motivator? "More tips on saving water" is not available to a computer. What a waste of opportunity.</p>
<p>19. Make it possible to measure landscape vs household use.</p>
<p>20. I don't want you to use this info for creating infractions or punishments.</p>
<p>21. To my knowledge there has been no information about cellular meters in the community. Cost, cost benefit, likely water savings, purported need other that the State of California demands and the arbitrary 25% mandatory reduction passed by the Council.</p>
<p>22. Read the book Radiation & Human Health by Dr. John Gofman</p>
<p>23. Figuring out how to install and use the app might be the problem</p>
<p>24. I might look at it occasionally, but I have a feeling over time, I would lose interest.</p>
<p>25. Cost?</p>



26. Why don't we restrict agriculture use of water or have them contribute financially to improve the situation. It's not fair to expect homeowners/renters pay more for more restrictions all the while businesses continue to have minimal restrictions and no need to improve things
27. Split yard use from house use.
28. will the information from the cellular water meter be used to penalize the customer?
29. A moratorium on new construction should be implemented to help save water.
30. Again, please ensure that you show that rate increases are not going to be needed with the reduction in staff.
31. Does the app work with iPhones?
32. am assuming that this is based on real time usage
33. Please consider all the other electrosensitive people in Sebastopol. Most have already opted out of PG&E smart meters.
34. I assume one an Internet capable computer is adequate and one does not need a smartphone to access the application
35. What is the price of these cellular water meters? Is there an initial cost plus monthly increase?
36. Will it tell me if water is currently running?
37. I hope Sebastopol does not bend to the few that argue against wifi as in the past with PG&E meters. Most people here have wifi so another instrument using it will make little if any difference. Sebastopol needs to move forward, not backward. (resident for 30+ years).
38. Why would you consider this when the sidewalks are in disrepair and full of weeds and deferred maintenance. What about the roads? What about taking better care of the public spaces in the City limits.
39. Really, it just seems like a lot of money and effort for something that won't be of very much benefit.
40. Hopefully this device does not appreciably reduce water flow or pressure. Also, it would be great if the app reported the usage in something we could all relate to, like gallons, instead of 'water units', which is pretty meaningless to most of us.
41. Will there be any additional costs for homeowners for installation and maintenance of the system?
42. Will there be any additional costs to homeowners for installation and maintenance of the system?
43. Will there be a direct cost to the customer for the service?
44. If we are the progressive city we like to think we are, we need to move forward in really addressing our water usage. We are not in a temporary drought this is the the new normal.
45. I have issue for the City to install radio meters.... outside. No apps..... I would probably not use the app. I do like the city would be notified of any leaks.



46. Does having gopher pushing dirt into the meter box effect the cellular service? What happens if the cellular service is lost? Who repair it?
47. Is there a cost that will be added to the water bill? Do you have to replace the current meters?
48. It looks potentially beneficial.
49. What is the cost?
50. Hopefully rates do not go up to cover cost of installation
51. I like the information made available to the customer. I would like to know my actual water usage as a result of changes I have made.
52. I would think it could also reduce City costs for reading the meter. Is that correct?
53. Mailed Response - Entered 8/23 - MR
54. I do harvest water off of my roof. Save shower & Dish Water. Water is always precious. Mailed Response - Entered 8/23 - MR
55. Mailed Response - Entered 8/23 - MR
56. Mailed Response - Entered 8/23 - MR
57. I keep my cell phone on "airplane mode", my computer is plugged into a modem and I use an old fashioned LAND line phone to make & receive calls to keep the EMF at a min. Mailed Response - Entered 8/23 - MR
58. Mailed Response - Entered 8/23 - MR
59. Mailed Response - Entered 8/23 - MR
60. Mailed Response - Entered 8/23 - MR
61. Mailed Response - Entered 8/23 - MR
62. Mailed Response - Entered 8/23 - MR
63. Mailed Response - Entered 8/23 - MR
64. Mailed Response - Entered 8/23 - MR
65. Mailed Response - Entered 8/23 - MR
66. Mailed Response - Entered 8/23 - MR
67. Mailed Response - Entered 8/23 - MR
68. Mailed Response - Entered 8/23 - MR
69. Mailed Response - Entered 8/23 - MR
70. Mailed Response - Entered 8/23 - MR
71. This sheet doesn't explain in detail what this is exactly. Will this cost extra, how does it work, how does it track leaks? Mailed Response - Entered 8/23 - MR
72. Mailed Response - Entered 8/23 - MR
73. Mailed Response - Entered 8/23 - MR
74. Mailed Response - Entered 8/23 - MR



75. Already have lights at Parkside School making it unusable to sleep in front bedrooms. Harmful LED light radiating all night long effecting circadium rythms for all living things nearby.
76. If it makes people SaveWater should be implemented.
77. It would be great to know how I'm doing with conservation in real time.
78. What is a cellular water system?
79. My "yes" depends on the cost of the system. Friends in Santa Rosa appreciate having it.
80. My only concern is for those of us that have been conserving water all along. It may be difficult for us to decrease our use by much if we're already conserving.
81. Do not install "smart" water meters.
82. The City should get serious about a low flow toilet replacement program for businesses and commercial establishments. The City has always focused on residential users. Drought is serious time to get the commercial establishments all outfitted with low flow toilets and urinals.
83. Sounds good, but will there be a cost to customers or will our water bill go up?
84. Thank you for presenting this option and for looking out for customer's best interest
85. I don't understand the technology. Where will the cellular signal be set up?
86. Bike lanes on 116 to Petaluma. More bus service to Santa Rosa from Seb.
87. It its ridiculous that we are not able to have PG&E Smart meters to do similar monitoring. We should all be paying close attention to our power and water usage .
88. I have read about one city that had large cost overruns installing smart water meters
89. Why spend money on something that will not be looked at. A re-landscape incentive would be a better use on the funds.
90. Does Sebastopol currently estimate or does it actually measure usage for each household? Will cellular water meters be available to households on an opt-in basis? Will there be added costs to all households or to households that implement cellular water meters?
91. What would the city pay for this service? If it's free or cheap, the app developer is making money selling user data.
92. I am for the water meter real-time program as long as it does NOT increase my water bill.
93. Great idea
94. Saves time and less Human Resource dollars
95. You should offer a billing discount for anyone who has one installed
96. We do not need to monitor our water by additional devices. We know how to manually turn off the taps, keep our lawns dry, and fix our leaky faucets. This is an additional profit-seeking appliance being sold to our city and citizens for no good reason, and possibly bad ones.



97. Where would it be installed? How close to where people sleep? How strong is the Cell transmitter?
98. Educate people before you ask their opinion
99. Would this be used to change people's billing? Would it apply to well users?
100.If we could come up with a see-through meter cover, I would be willing to enter my own data into some sort of spreadsheet that could be used to more accurately estimate my usage. Maybe a true-up reading once a year would provide verification of my usage.
101.Why doesn't the Sebastopol city government address real concerns of residents like safe and separate bike trails and a better pedestrian infrastructure? If there is a water shortage why are so many public facilities irrigated like the police, High School Fields, parks, etc.?
102.Mailed Response - Entered 9/20 - MR
103.What are the pro's & cons of such system Mailed Response - Entered 9/20 - MR
104.Jobs are important and reading a meter provides one (meter reader) Mailed Response - Entered 9/20 - MR
105.So far the rain forecast are predicting less rain again this winter. I support water rationing/restrictions but not just mandating a percentage reduction. I've already reduced water usage by 40% but also allowing 74 gals per person per day. I think this is a good idea because people who have already reduced their usage can't reduce much more unlike people who are still wasting water Mailed Response - Entered 9/20 - MR
106.The people from the water/sewer service NEVER showed up! Mailed Response - Entered 9/20 - MR
107.Mailed Response - Entered 9/20 - MR
108.I took out my lawn in 2016-17 and replaced it with native and drought resistant plants Mailed Response - Entered 9/20 - MR
109.Tried to log in to Fyr on water but it did not accept my acct. # Mailed Response - Entered 9/20 - MR
110.But with email option Mailed Response - Entered 9/20 - MR
111.Mailed Response - Entered 9/20 - MR
112.Mailed Response - Entered 9/20 - MR
113.Mailed Response - Entered 9/20 - MR
114.Mailed Response - Entered 9/20 - MR
115.Mailed Response - Entered 9/20 - MR
116.Mailed Response - Entered 9/20 - MR



117.First Question not marked on mailed survey - Undecided/No Opinion selected Mailed Response - Entered 9/20 - MR
118.Cost to me Mailed Response - Entered 9/20 - MR
119.Mailed Response - Entered 9/20 - MR
120.Mailed Response - Entered 9/20 - MR
121.I'd like to see other users feedback Mailed Response - Entered 9/20 - MR
122.First question not answered on mailed survey - Undecided/No Opinion Selected Mailed Response - Entered 9/20 - MR
123.Mailed Response - Entered 9/20 - MR
124.Mailed Response - Entered 9/20 - MR
125.Mailed Response - Entered 9/20 - MR
126.Mailed Response - Entered 9/20 - MR
127.Mailed Response - Entered 9/20 - MR
128.Mailed Response - Entered 9/20 - MR
129.Mailed Response - Entered 9/20 - MR
130.Bill me the same way as has always been done. This modern stuff bothers and annoys me and I'm too old to figure stuff out. Mailed Response - Entered 9/20 - MR
131.Really think each living unit should have a separate water meter so that tenants can see & suffer if they use excessive water. Otherwise why should they care about the cost, they don't pay it. Mailed Response - Entered 9/20 - MR
132.I haven't picked up the bucket yet. But keep alerting this community. Mailed Response - Entered 9/20 - MR
133.Smart Meters that can be read by driving down the street would cut down on labor and save the city money in the long run Mailed Response - Entered 9/20 - MR
134.Mailed Response - Entered 9/20 - MR
135.Is there a cost for installation of water meter? Mailed Response - Entered 9/20 - MR
136.Mailed Response - Entered 9/20 - MR
137.Mailed Response - Entered 9/20 - MR
138.Mailed Response - Entered 9/20 - MR
139.Mailed Response - Entered 9/20 - MR



140.Mailed Response - Entered 9/20 - MR
141.Mailed Response - Entered 9/20 - MR
142.Mailed Response - Entered 9/20 - MR
143.Will all customers and a mobile phone to use app? Many seniors may have difficulty accessing info. Cost to customer? Financial savings for city and customers? Mailed Response - Entered 9/20 - MR
144.Mailed Response - Entered 9/20 - MR
145.Mailed Response - Entered 9/20 - MR
146.A more thorough explanation would have been helpful. What is entailed, how does it work: Does City have landscapers who could advise on fixing leaks in garden or contractors for household problems? Mailed Response - Entered 9/20 - MR
147.Mailed Response - Entered 9/20 - MR
148.Mailed Response - Entered 9/20 - MR
149.Mailed Response - Entered 9/20 - MR
150.Mailed Response - Entered 9/20 - MR
151.Mailed Response - Entered 9/20 - MR
152.Via Cellular lte endpoints or gateway transceivers with LTE Backhaul. These technologies are damaging to health/life and there are too many already operating of similar nature! Mailed Response - Entered 9/20 - MR
153.Mailed Response - Entered 9/20 - MR
154.Mailed Response - Entered 9/20 - MR
155.Mailed Response - Entered 9/20 - MR
156.Mailed Response - Entered 9/20 - MR
157.If you want to update something make it possible to pay bill with a check over the phone. Current meters work fine Mailed Response - Entered 9/20 - MR
158.Not needed. For people who can't use cell phones because it causes pain, headaches, chest pain, I don't want a signal comin off the water meter as I walk down the streets!Mailed Response - Entered 9/20 - MR
159.The likn to info about the product was bried and mostly a sales pitch. I want to know what neutral sources say about this system, not the manufactor itself. Mailed Response - Entered 9/20 - MR
160.Mailed Response - Entered 9/20 - MR
161.Mailed Response - Entered 9/20 - MR
162.The cost will determine my yes or no
163.Sebastopol should look at making treated wastewater available to customers for landscape purposes, like Healdsburg has done,



164. Will this ever offset the water supply? If the system is hacked will my water shut off? If it is hackable ever, I am opposed to a system that could turn off my water digitally. Mailed Response - Entered 10/4 - MR (Both Undecided and No were marked on the mailed response)
165. Mailed Response - Entered 10/4 - MR
166. Mailed Response - Entered 10/4 - MR
167. Mailed Response - Entered 10/4 - MR
168. Mailed Response - Entered 10/4 - MR
169. I did do the survey online, but never received an email confirmation Mailed Response - Entered 10/4 - MR
170. I assume you are currently measuring our usage. Is it going down? I notice more brown lawns. Leak detection is a great idea Mailed Response - Entered 10/4 - MR
171. If it is wifi-free or 5G free, I would welcome it. Mailed Response - Entered 10/4 - MR
172. Mailed Response - Entered 10/4 - MR
173. Mailed Response - Entered 10/4 - MR
174. Mailed Response - Entered 10/4 - MR
175. Mailed Response - Entered 10/4 - MR
176. Mailed Response - Entered 10/4 - MR
177. Mailed Response - Entered 10/4 - MR
178. Mailed Response - Entered 10/4 - MR
179. Mailed Response - Entered 10/4 - MR
180. Mailed Response - Entered 10/4 - MR



Timestamp	Are you in favor of the City of Sebastopol adopting a cellular water meter system?	Use this space to indicate why or why not:	Use this space to ask questions or make any additional comments:
2021/07/16 4:21:26 PM MDT	Yes	Make it very easy to know what your water usage is.	
2021/07/16 4:26:58 PM MDT	Yes	The current water bills provide next-to-no information. The usage graphs are good, but the bill lists the amount used in "units" that mean nothing to your customers. Talk to us in gallons (like the app does). Also, I get the bill periodically, but it doesn't raise my awareness often enough to be a useful feedback mechanism about how much water I'm using. I can see my bill online, but logging into the crufty billpaying site is a pain, and more important, it doesn't offer real-time information. The app presents usage information in useful context, plus it's real-time.	
2021/07/16 4:27:27 PM MDT	Yes		
2021/07/16 4:33:51 PM MDT	Yes	Every 2 months is inadequate to spot issues	
2021/07/16 4:44:44 PM MDT	Yes	This technology is long overdue.	
2021/07/16 6:04:45 PM MDT	Yes	It will help with water saving/conservation - I'd like to know if I have a leak, usage for various things (irrigation, etc.).	
2021/07/16 6:06:24 PM MDT	No	I prefer the KISS method....let's keep our systems as simple as possible. The cellular systems are far too complicated for many in our community. I have neighbors who do not use any form of technology.	I have feedback on the water surveys...I learned when working in marketing and conducting surveys that sometimes 'yes' and 'no' questions are acceptable. Often, though, it is important to give a third option, and in the case of the water survey in the week's newsletter, asking the question, "Are you in favor of the City of Sebastopol adopting a cellular water meter system? *,"ü deserves not only a 'Yes' a 'No' but also a 'don't know at this time' answer.
2021/07/16 6:07:53 PM MDT	Yes	It would be a lot easier to monitor my water use if I knew exactly how much I was using.	will the information go to my computer or phone?
2021/07/16 6:56:03 PM MDT	No	The City may use it for micromanagement. ("twice a week") instead of as a way to monitor total usage - and as a tool for the consumer	If the City swears to not use it to enforce TOTAL water usage restrictions ONLY I would vote for it.
2021/07/16 7:23:24 PM MDT	Yes	I would like to track water usage more closely. This would enable me to find out if there are leaks.	
2021/07/17 5:28:39 AM MDT	Yes	Seeing your actual usage will help you save water. Billing would be more accurate .	
2021/07/17 7:52:17 AM MDT	Yes	Always helpful to be able to monitor real time data to moderate usage	
2021/07/17 8:36:44 AM MDT	Yes	So we can better monitor our usage plus identify any possible leaks or problems in our irrigation system.	I would like to know our regular water usage not just every two months when the water bill comes. I calculate usage when the bill comes and compare it to a year ago. That is the only way I have to compare. Also how much per person per household is expected under the Stage 2 restrictions? Maybe I am already doing my part. I don't know. According to our last bill we used 110 gals per day for two people and our garden. Is this good or too much under Stage 2. This is why I would like to meter our usage.
2021/07/17 9:45:03 AM MDT	Yes	Am trying hard to conserve water. But I need data! Bill arriving every other month just isn't all that helpful, when attempting to fine tune water usage.	System looks clear and easy to make use of. Hope it isn't grossly expensive for city to obtain!!! Will anti WIFI "tin hat" citizens be vocal enough to quash this attempt to be water wise? I sure hope not.
2021/07/17 9:49:16 AM MDT	No	The part of the bill based on actual water consumed is so small. About 90% of my bill stays the same whether water use goes up or down.	Focus on getting more rain water to infiltrate into the ground water. Build Lynn Deedler's proposed Lake Sebastopol by removing sediment from the Laguna.
2021/07/18 8:10:36 AM MDT	Yes		



Timestamp	Are you in favor of the City of Sebastopol adopting a cellular water meter system?	Use this space to indicate why or why not:	Use this space to ask questions or make any additional comments:
2021/07/18 9:17:05 AM MDT	No	<p>We strongly oppose the change out of water meters that use cellular frequencies (RFR or EMF), sonic waves and batteries. Although it would be interesting to see our water usage in detail, please consider the environmental effects. Our environment is already overburdened with RFR from cell towers, cell phones, smart meters, and wi-fi etc.</p> <p>Independent studies show birds, bees, plants are harmed by RFR and children are especially vulnerable. There's a new independent peer reviewed study that calls for EMF regulation to protect wildlife. "Effects of non-ionizing electromagnetic fields on flora and fauna, part 1. Rising ambient EMF levels in the environment," by Blake Levitt, Henry Lai and Albert Manville. https://pubmed.ncbi.nlm.nih.gov/34047144/ They write: "It is time to recognize ambient EMF as a novel form of pollution and develop rules at regulatory agencies that designate air as 'habitat' so EMF can be regulated like other pollutants. Wildlife loss is often unseen and undocumented until tipping points are reached. Long-term chronic low-level EMF exposure standards, which do not now exist, should be set accordingly for wildlife, and environmental laws should be strictly enforced."</p> <p>While the technology would help the city mandate water cutbacks and rationing, I don't think people will use the tools more than a few times. That's the case with smart electric and gas meters. Most people in Sebastopol comply with requests to cut back and the water meters we currently have are working.</p> <p>If it ain't broke, don't fix it. Reduce, reuse, recycle, make do, do without...</p> <p>Thank you</p>	<p>We are cutting back on our water use. I would like to be kept apprised on this issue</p>
2021/07/18 11:34:56 AM MDT	Yes	Better data leads to better conservation of water practices.	Also the anti-wifi/cellular anit-science tinfoil-hat crowd has tried to ruin this town long enough. I live in a place where if I needed emergency services, my cell coverage makes it a 50-50 chance that the call would connect. I live inside city limits.
2021/07/18 3:12:28 PM MDT	No	Not enough research or information	Not convinced it the right thing to do
2021/07/18 9:29:37 PM MDT	No	Oppose use of EMF Emitting meters that may cause health hazard	
2021/07/18 10:07:07 PM MDT	No	Enough RF in town	
2021/07/19 12:35:05 PM MDT	Yes	particularly for knowing about leaks. I often see water running down a neighboring street-- makes me crazy.	
2021/07/19 12:50:54 PM MDT	No		
2021/07/19 1:01:46 PM MDT	No	I believe with the infrastructure is already there then yes we can use it but if it requires new cellular towers to be placed up then I oppose such an idea.	
2021/07/19 1:11:49 PM MDT	No	dont know what it is	go after business that waste water. Eye center doc when they wash hands they should turn off water while rubbing hands together then turn back on to rinse
2021/07/19 1:19:05 PM MDT	Yes	I don't know, sounds good	
2021/07/19 1:43:29 PM MDT	Yes	So we can actually track our daily water usage, hopefully in gallons per day.	
2021/07/19 2:15:52 PM MDT	Yes	I marked "yes" but would have preferred "maybe". I'd be concerned about how robust the meters the cost to rate payers. I would support the ability for residents to better track their usage. This could also be a useful feature for rapidly identifying leaks.	What would be the cost per meter, for the city as a whole, and impacts on rates over the next 1 to 10 years.
2021/07/19 2:26:59 PM MDT	Yes	Saves labor	



Timestamp	Are you in favor of the City of Sebastopol adopting a cellular water meter system?	Use this space to indicate why or why not:	Use this space to ask questions or make any additional comments:
2021/07/19 2:29:06 PM MDT	Yes	Absolutely would want more detailed monitoring of useage to catch problems early.	
2021/07/19 2:31:57 PM MDT	Yes	I like to be able to monitor in real time.	
2021/07/19 3:11:15 PM MDT	Yes		
2021/07/19 3:11:25 PM MDT	Yes	Knowing water usage immediately instead of waiting for the bi-monthly bill would be very useful for meaningful water management. We are a small dance hall with renters (Wischemann Hall), and it would also help us determine who among the renters is using the most water so we could speak to them.	
2021/07/19 3:20:35 PM MDT	Yes	Better tracking systems can help users understand their own consumption, how they are using water compared to others in the community (vs. average), and with better knowledge save more water	
2021/07/19 3:45:08 PM MDT	No	While being sold as a way for customers tools to gain greater control over their own usage, this would be one more point for government (or hackers) to access personal information. It is not necessary and the risk/dangers outweigh any benefit. I am happy to pay for my water use, but object to government monitoring my usage in real time.	Residential water use is literally a drop in the bucket state-wide (https://www.ppic.org/publication/water-use-in-california/). Focus city conservation efforts on agriculture and industrial use, not forcing homeowners and business owners to kill off expensive, mature landscaping. Also, policies that force consumers to cut back by a certain percentage punish those who have always conserved water.
2021/07/19 3:50:14 PM MDT	Yes	Makes it easy to check water consumption	
2021/07/19 3:52:20 PM MDT	Yes		
2021/07/19 3:52:47 PM MDT	Yes	if I know in real time what our water use is we can be more effective in conserving.	
2021/07/19 3:54:32 PM MDT	Yes		
2021/07/19 3:59:53 PM MDT	No	I discourage use of cellular radio frequencies	
2021/07/19 4:00:06 PM MDT	No		
2021/07/19 4:22:41 PM MDT	Yes	Visibility is always a good thing	I purchased my own water meter monitor and I,Ãdve found it incredibly helpful
2021/07/19 4:37:54 PM MDT	Yes	Easy info and leak detection	
2021/07/19 5:00:06 PM MDT	No	It is really impossible to give an informed opinion. With power outages and having to tie people to cell phones... it might be premature. Kind of like this survey!	
2021/07/19 5:02:57 PM MDT	Yes		How is the city going to pay for this system? And will the bill increase due the cost of this system?
2021/07/19 5:26:50 PM MDT	Yes	It would help me conserve water if I actually had an app or I could see how much water I was using	
2021/07/19 5:51:00 PM MDT	Yes	So I can see in real time what my water usage is	How much water is in the underground ?
2021/07/19 6:04:28 PM MDT	Yes	Being able to access both real-time and historical information about actual water use would really help understand our use and would be especially helpful in assessing whether there may/may not be leaks.	
2021/07/19 6:23:32 PM MDT	Yes	Understand alot of folks are anti-frequency stuff but .. SF had this installed years ago and it will works. It was awesome to log in and actually see you usage and how you could judge changes to your usage as you changed your use pattern. Bring it on!!	
2021/07/19 6:32:53 PM MDT	Yes		
2021/07/19 9:02:53 PM MDT	Yes	I would like real time data to spot potential leaks and monitor usage	
2021/07/19 10:13:20 PM MDT	Yes	Better to have knowledge and know if you a leak or excess usage in real time.	
2021/07/19 10:21:21 PM MDT	Yes	Anything is better than manual meter reading. Cellular, Lora, whatever. Why use a 20 year battery? Aren't there generators powered by water flow? Real question is how are you going to convince Linda Berg.	



Timestamp	Are you in favor of the City of Sebastopol adopting a cellular water meter system?	Use this space to indicate why or why not:	Use this space to ask questions or make any additional comments:
2021/07/19 10:59:54 PM MDT	No		
2021/07/19 11:03:36 PM MDT	Yes	It's a great way to monitor water use in real time. It's very motivating to see exactly how much water you're using for your lawn, for example. And then to track the impact immediately of reduced use is even more motivating. For the City it would allow a way to know if water conservation policies are making a difference, and it might provide necessary data to support grant applications.	
2021/07/20 12:34:05 AM MDT	No	Spending money in wrong area of city system	No need for more apps
2021/07/20 4:56:52 AM MDT	Yes	I want to be able to monitor my usage in real-time so I can figure out better ways to save on water	How much will this cost users
2021/07/20 8:46:21 AM MDT	No	Not enough information. How would it work for us as the homeowner?	Would it only serve as an enforcer, or motivator? "More tips on saving water" is not available to a computer. What a waste of opportunity.
2021/07/20 8:47:45 AM MDT	Yes	More accurate measurement. self monitor usage.	Make it possible to measure landscape vs household use.
2021/07/20 9:44:49 AM MDT	Yes		
2021/07/20 3:19:48 PM MDT	Yes		
2021/07/20 4:12:27 PM MDT	Yes	If like to know more precisely my water usage.	I don't want you to use this info for creating infractions or punishments.
2021/07/21 1:27:44 AM MDT	No	There is no guarantee that the cellular system will save enough water to warrant its expense. I am not in favor of what will probably be expensive, paid for by the water user. Other communities that have saved a lot of water ended up with higher bills as the water department is largely fixed cost. I just don't think it is a justified expense. I am in favor of saving our groundwater, but I believe that the money could be spent better elsewhere-- education for high users, actually payment to users for reducing use, etc. It seems to be another way of pretending to care about the environment/water, but mostly to waste money for unsure benefit	To my knowledge there has been no information about cellular meters in the community. Cost, cost benefit, likely water savings, purported need other than the State of California demands and the arbitrary 25% mandatory reduction passed by the Council.
2021/07/21 7:45:52 AM MDT	Yes		
2021/07/21 9:42:50 AM MDT	Yes	I recently found a leak in my drip irrigation that had clearly been there for a long time - but I did not know about it until recently. I hate to think how much water was wasted (and the cost!) because of that. I would have known MUCH sooner if I had some sort of monitor/alert.	
2021/07/21 1:22:12 PM MDT	No	Radiation kills so lets eliminate as much radiation from our lives as we can.	Read the book Radiation & Human Health by Dr. John Gofman
2021/07/21 4:23:41 PM MDT	Yes	More immediate information	Figuring out how to install and use the app might be the problem
2021/07/21 5:33:56 PM MDT	Yes	Immediate feedback on water usage will be valuable	
2021/07/21 8:12:37 PM MDT	No	Waste of money. No one will care. People will use water responsibly or they won't. This will not make ant difference to them. Additional EMF's. I don't have any apps on my phone. I can read my own meter. It this a set-up for oppression?	
2021/07/22 8:50:08 AM MDT	Undecided/No Opinion	I don't have enough information to make an informed response.	
2021/07/22 12:47:40 PM MDT	Yes	Currently I can't see water use until two months later. Immediate access is good to help conserve.	
2021/07/22 1:20:38 PM MDT	Yes	I like the idea of being able to monitor my water use daily.	
2021/07/23 8:29:38 AM MDT	Undecided/No Opinion	Not sure how often it is read, if it helps identify leaks then that might be useful. For instance seeing water use after midnight.	



Timestamp	Are you in favor of the City of Sebastopol adopting a cellular water meter system?	Use this space to indicate why or why not:	Use this space to ask questions or make any additional comments:
2021/07/23 1:05:27 PM MDT	Undecided/No Opinion	It seems like a good idea, but I don't have enough to go on to answer yes or no. There is no information about the cost, who pays the cost, how effective it would be, and when the program would begin.	
2021/07/23 3:18:10 PM MDT	Undecided/No Opinion	I'm not opposed to it, but not sure it would be of value to me.	I might look at it occasionally, but I have a feeling over time, I would lose interest.
2021/07/23 4:30:15 PM MDT	Undecided/No Opinion	Unclear what risks/advantages are	Cost?
2021/07/23 7:12:03 PM MDT	Yes	great to have leak detection!	
2021/07/25 4:56:58 PM MDT	No	I think they should do it for vineyards	Why don't we restrict agriculture use of water or have them contribute financially to improve the situation. It's not fair to expect homeowners/renters pay more for more restrictions all the while businesses continue to have minimal restrictions and no need to improve things
2021/07/29 5:35:57 PM MDT	No	EMF for my principal reason an cost	
2021/07/30 2:58:51 PM MDT	Yes	Helps end wasting accidents earlier, like if the irrigating drip goes wacky.	Split yard use from house use.
2021/07/30 3:12:41 PM MDT	No	Job loss, more data in digital format, open for hacking.	
2021/07/30 4:40:19 PM MDT	Yes	I want more information defining a "cellular water meter". I do NOT have a scanning device.	will the information from the cellular water meter be used to penalize the customer?
2021/07/30 6:22:51 PM MDT	No	Not needed; marginal utility.	
2021/08/03 9:40:35 AM MDT	Undecided/No Opinion	Unknowns: Cost to city/citizens; Privacy	
2021/08/03 3:20:02 PM MDT	No	Should be on the honor system. Not in favor of regulations at this level.	A moratorium on new construction should be implemented to help save water.
2021/08/03 3:39:04 PM MDT	Yes		
2021/08/03 6:14:00 PM MDT	Undecided/No Opinion	I don't even know what that is :(
2021/08/03 8:07:13 PM MDT	Yes	I would like continuous and immediate access to my water usage so I can monitor it and adjust as needed.	
2021/08/03 10:35:15 PM MDT	Yes	I,Ãm favor of the cost is reasonable. How much? General fund?	
2021/08/05 11:07:34 AM MDT	Yes	Lower your rate increases with fewer staff and greater information for customers. Reduce reading errors.	Again, please ensure that you show that rate increases are not going to be needed with the reduction in staff.
2021/08/06 3:54:27 PM MDT	Yes	I would like to have real time water usage data.	Does the app work with iPhones?
2021/08/06 4:10:46 PM MDT	Yes	our water bill is too large and so anything that can be done to monitor usage would be great	am assuming that this is based on real time usage
2021/08/07 12:09:09 PM MDT	Yes		
2021/08/07 12:42:12 PM MDT	No	I am super electrical sensitive and my health is severely impacted by wireless tech like these meters. My water meter is outside just a couple feet away from where I sit at my home business desk all day long - the only place in my house where a desk fits..	Please consider all the other electrosensivie people in Sebastopol. Most have already opted out of PG&E smart meters.
2021/08/07 1:19:42 PM MDT	Yes		
2021/08/07 1:51:50 PM MDT	Yes	The demo was very instructive. I'd like to have this level of usage granularity available to me	I assume one an Internet capable computer is adequate and one does not need a smartphone to access the application
2021/08/07 2:05:10 PM MDT	Yes	We all need to conserve as droughts continue	
2021/08/07 5:48:31 PM MDT	Yes	Real-time information of a problem allows opportunity to correct -- not later regret.	
2021/08/07 5:48:38 PM MDT	No	There is no mention of cost. While the information would be helpful and similar to PG&E usage meters, it seems the increase or reduction of cost to implement should be publicly known.	What is the price of these cellular water meters? Is there an initial cost plus monthly increase?
2021/08/07 6:54:38 PM MDT	Yes	I want to track water usage.	Will it tell me if water is currently running?



Timestamp	Are you in favor of the City of Sebastopol adopting a cellular water meter system?	Use this space to indicate why or why not:	Use this space to ask questions or make any additional comments:
2021/08/07 7:34:59 PM MDT	Yes	We have both a PG&E gas & electricity smart meter and are very pleased with the reliable and consistent readings. Doing this for our water meter will reduce staff overhead and lead to more consistent and accurate readings.	I hope Sebastopol does not bend to the few that argue against wifi as in the past with PG&E meters. Most people here have wifi so another instrument using it will make little if any difference. Sebastopol needs to move forward, not backward. (resident for 30+ years).
2021/08/07 8:18:51 PM MDT	Yes		
2021/08/07 8:42:09 PM MDT	No	COST: New water meters, Cellular Data, Lifecycle the Tech in the future, Increased Radio Frequency usage in the City. Water Costs are already high! EMPLOYMENT and Reliability: One person reads all the meters and this keeps someone employed and visually inspecting the system every read cycle. If someone is interested in seeing their water usage then they can install Home monitoring themselves. I do not need an increased water bill which is what this translates to in the future.	Why would you consider this when the sidewalks are in disrepair and full of weeds and deferred maintenance. What about the roads? What about taking better care of the public spaces in the City limits.
2021/08/07 10:23:59 PM MDT	No	The 5G is going to melt our brains.	Really, it just seems like a lot of money and effort for something that won't be of very much benefit.
2021/08/08 10:57:37 AM MDT	Yes	Lots of advantages: no surprises when the water bill comes, can check for leaks, can get immediate feedback on water conservation efforts or experiments, easier to meet usage goals, etc.	Hopefully this device does not appreciably reduce water flow or pressure. Also, it would be great if the app reported the usage in something we could all relate to, like gallons, instead of 'water units', which is pretty meaningless to most of us.
2021/08/08 11:37:52 AM MDT	Yes	Let's make our water use visible.	
2021/08/08 12:46:51 PM MDT	Yes	Makes us more aware of our water usage and can help identify leaks earlier	Will there be any additional costs for homeowners for installation and maintenance of the system?
2021/08/08 12:48:33 PM MDT	Yes	Makes us more aware of our water usage and can help identify leaks earlier	Will there be any additional costs to homeowners for installation and maintenance of the system?
2021/08/08 1:46:41 PM MDT	Yes		
2021/08/08 3:53:22 PM MDT	Yes	Because it will help me monitor my water usages in real time!!! Who wouldn't want this service??	
2021/08/09 10:19:46 AM MDT	Yes	I've used it before and found it to be very useful. It gives alerts when there might be a water leak.	Will there be a direct cost to the customer for the service?
2021/08/09 10:37:19 AM MDT	Undecided/No Opinion	what is it?	
2021/08/09 10:50:41 AM MDT	Yes	My current water usage is all over the place. I'd like to have info to help me conserve .	
2021/08/09 11:20:06 AM MDT	Yes	It would help us decrease our water usage.	
2021/08/09 12:58:11 PM MDT	Yes	Better able to know of leaks.	
2021/08/09 1:55:36 PM MDT	Yes	In order to conserve, water users need to know and understand their use through data from their meters. Please let those of us who want access to this data have that option.	If we are the progressive city we like to think we are, we need to move forward in really addressing our water usage. We are not in a temporary drought this is the the new normal.
2021/08/09 2:49:18 PM MDT	Yes		
2021/08/09 5:15:52 PM MDT	Yes	on the one hand, it would be great detect water leaks immediately. On the other hand, I don't want the app because I always have lower my usage to 1 to 2 units a bill, and I all ready deal with too many apps, to be going on line.	I have issue for the City to install radio meters.... outside. No apps..... I would probably not use the app. I do like the city would be notified of any leaks.
2021/08/09 9:51:26 PM MDT	Yes	More up to date information on individual households use of water. know you have a leak sooner than waiting to see your water bill.	Does having gopher pushing dirt into the meter box effect the cellular service? What happens if the cellular service is lost? Who repair it?
2021/08/10 9:54:21 AM MDT	Yes	I use the smart meter from PGE and change my use accordingly.	
2021/08/10 1:45:41 PM MDT	Yes		Is there a cost that will be added to the water bill? Do you have to replace the current meters?



Timestamp	Are you in favor of the City of Sebastopol adopting a cellular water meter system?	Use this space to indicate why or why not:	Use this space to ask questions or make any additional comments:
2021/08/10 5:25:42 PM MDT	Undecided/No Opinion	I used the link for badgermeter but it made no sense. It was odd. The interactive demo wasn't so great either. It wasn't interactive & it didn't allow me to enlarge the page, so I really couldn't see details.	It looks potentially beneficial.
2021/08/10 7:27:32 PM MDT	Yes		
2021/08/13 3:54:49 PM MDT	Undecided/No Opinion	What is the cost?	What is the cost?
2021/08/13 4:44:52 PM MDT	Yes	Sounds more efficient and accurate	Hopefully rates do not go up to cover cost of installation
2021/08/14 8:55:30 AM MDT	Yes		
2021/08/14 2:45:55 PM MDT	Yes		
2021/08/14 3:22:33 PM MDT	Yes		
2021/08/15 9:05:19 AM MDT	Yes		
2021/08/16 12:44:35 PM MDT	Yes		
2021/08/17 6:45:56 PM MDT	No	I don't utilize a cell phone extensively per current lifestyle - I don't think it would be helpful to me . .	
2021/08/17 8:59:37 PM MDT	Undecided/No Opinion	While I am interested in knowing my real time usage, I would like to know the cost first.	
2021/08/18 11:13:01 PM MDT	No	I feel that adapting this water metering system is a waste of money. The elderly people will probably not know how to use the app and I think most people will not be looking at this app. As a landlord I have no control over how much water my tenant uses. This could also be used against people if they impose water restrictions.	
2021/08/19 10:28:33 AM MDT	Yes	It will be great to have daily looks at our usage and to watch for leaks.	
2021/08/19 4:15:07 PM MDT	Yes		
2021/08/20 5:49:45 PM MDT	Undecided/No Opinion	I need to know more about the costs involved and the projections for community water savings.	I like the information made available to the customer. I would like to know my actual water usage as a result of changes I have made.
2021/08/20 6:00:22 PM MDT	Yes	I want to keep better track of my water usage	
2021/08/21 8:52:19 AM MDT	Yes		
2021/08/21 1:07:03 PM MDT	Yes	Convenience, real-time data. Helpful to monitor own use, maybe even detect leaks.	I would think it could also reduce City costs for reading the meter. Is that correct?
2021/08/23 4:49:09 PM MDT	Yes		Mailed Response - Entered 8/23 - MR
2021/08/23 4:53:08 PM MDT	Yes	I am concerned about security & presume this is all secure. Is it?	I do harvest water off of my roof. Save shower & Dish Water. Water is always precious. Mailed Response - Entered 8/23 - MR
2021/08/23 4:54:34 PM MDT	No	Don't want to be monitored	Mailed Response - Entered 8/23 - MR
2021/08/23 4:56:07 PM MDT	No	I don't see any advantage over the present meter.	Mailed Response - Entered 8/23 - MR
2021/08/23 4:58:00 PM MDT	No	It sounds like one of those "Smart Meters" that pin off cellular towers I rejected the gas smart meter, so I don't want a water smart meter bringing EMF's into my home!!!	I keep my cell phone on "airplane mode", my computer is plugged into a modem and I use an old fashioned LAND line phone to make & receive calls to keep the EMF at a min. Mailed Response - Entered 8/23 - MR
2021/08/23 4:59:10 PM MDT	Yes	We need accurate, timely data. This is the cheapest way to get it long term	Mailed Response - Entered 8/23 - MR
2021/08/23 5:00:04 PM MDT	No		Mailed Response - Entered 8/23 - MR
2021/08/23 5:01:37 PM MDT	Yes	Good to keep track of usage-great way to see any leaks early before wasting 1000's of gallons! Good to get idea just how much a bath/shower/ laundry etc uses in stead of wild guesses.	Mailed Response - Entered 8/23 - MR
2021/08/23 5:04:14 PM MDT	Undecided/No Opinion		Mailed Response - Entered 8/23 - MR
2021/08/23 5:05:29 PM MDT	Yes	Understand when water is used, find leaks	Mailed Response - Entered 8/23 - MR
2021/08/23 5:06:39 PM MDT	No		Mailed Response - Entered 8/23 - MR
2021/08/23 5:07:52 PM MDT	Yes		Mailed Response - Entered 8/23 - MR



Timestamp	Are you in favor of the City of Sebastopol adopting a cellular water meter system?	Use this space to indicate why or why not:	Use this space to ask questions or make any additional comments:
2021/08/23 5:08:59 PM MDT	Yes		Mailed Response - Entered 8/23 - MR
2021/08/23 5:10:20 PM MDT	Yes	What is the Cost?	Mailed Response - Entered 8/23 - MR
2021/08/23 5:11:32 PM MDT	Yes	I want to be part of the solution to save water.	Mailed Response - Entered 8/23 - MR
2021/08/23 5:12:37 PM MDT	No	Cost of Implementation	Mailed Response - Entered 8/23 - MR
2021/08/23 5:13:53 PM MDT	No	Don't want it!! Don't need it!	Mailed Response - Entered 8/23 - MR
2021/08/23 5:15:11 PM MDT	Undecided/No Opinion	Not sure why we need this-it would likely add more EMF's around us.	Mailed Response - Entered 8/23 - MR
2021/08/23 5:17:02 PM MDT	Undecided/No Opinion	Need more info.	This sheet doesn't explain in detail what this is exactly. Will this cost extra, how does it work, how does it track leaks? Mailed Response - Entered 8/23 - MR
2021/08/23 5:18:08 PM MDT	Yes	I believe it will help residents more easily and accurately gauge water use.	Mailed Response - Entered 8/23 - MR
2021/08/23 5:19:03 PM MDT	Undecided/No Opinion		Mailed Response - Entered 8/23 - MR
2021/08/23 5:20:21 PM MDT	Yes	Sounds like a good idea	Mailed Response - Entered 8/23 - MR
2021/08/23 5:22:26 PM MDT	Undecided/No Opinion	Don't want any smart meters that plug int the new technocracy. No wifi, here and no vore EMF desired. Prefer doing without amenities that might harm any creatures of the earth	Already have lights at Parkside School making it unusable to sleep in front bedrooms. Harmful LED light radiating all night long effecting circadium rythms for all living things nearby.
2021/08/23 7:06:59 PM MDT	Undecided/No Opinion	Don't know enough about it. Don't like extra noise on cell phone.	If it makes people Save Water should be implemented.
2021/08/24 8:50:51 PM MDT	Undecided/No Opinion	I need more information about security on the meter.	It would be great to know how I'm doing with conservation in real time.
2021/08/25 8:47:50 AM MDT	No	I currently do not use any 'Smart' devices other than my iPhone. I turn that off at night. Do not want more EMF's or cellular activity near my house if I can help it. Neighbors put in PG&E Smart meters that face our bedrooms 15' away. Not happy about that. We opted out of the PG&E Smart meter. Plus, we're very conservative with water usage and only 2 people.	
2021/08/25 3:27:00 PM MDT	Undecided/No Opinion	I don't know what a cellular water meter system is	What is a cellular water system?
2021/08/25 3:32:19 PM MDT	Yes	We would use it to track our water use. It would be helpful to note leaks in the drip system, which operates infrequently at 4:30 a.m.	My "yes" depends on the cost of the system. Friends in Santa Rosa appreciate having it.
2021/08/25 3:45:42 PM MDT	Yes		My only concern is for those of us that have been conserving water all along. It may be difficult for us to decrease our use by much if we're already conserving.
2021/08/25 4:04:37 PM MDT	Yes	easier feedback on usage would be informative	
2021/08/25 4:26:13 PM MDT	No	You are willing to spend money right and left to advertise and enforce water conservation, but what about increasing the supply? Folks were canoeing on Hwy 12 not too long ago and not one teaspoon of that water was added to our supply. Every year there is some excess runoff from our streams, but none of that water is saved. The city does not actively promote systems to save gutter runoff from houses. You are not thinking straight.	
2021/08/25 4:39:40 PM MDT	Undecided/No Opinion	It's not clear How this will help save water, which is a desirable goal, and whether the costs involved are a worthy investment. Surely you can come up with a brief 1 to 2 page summary of the costs, advantages and disadvantages, description of how the average homeowner will use it, etc. It's impossible to form an opinion with the information provided!	
2021/08/25 4:55:05 PM MDT	Yes	provides a direct means for assessing the impact of household water conservation efforts	
2021/08/25 5:51:40 PM MDT	No	We already have too much exposure to microwave radiation.	Do not install "smart" water meters.
2021/08/25 5:53:56 PM MDT	Yes	Would help people control water use.	



Timestamp	Are you in favor of the City of Sebastopol adopting a cellular water meter system?	Use this space to indicate why or why not:	Use this space to ask questions or make any additional comments:
2021/08/26 12:46:43 AM MDT	Undecided/No Opinion		The City should get serious about a low flow toilet replacement program for businesses and commercial establishments. The City has always focused on residential users. Drought is serious time to get the commercial establishments all outfitted with low flow toilets and urinals.
2021/08/26 7:24:04 AM MDT	Yes		
2021/08/26 1:52:50 PM MDT	Undecided/No Opinion		Sounds good, but will there be a cost to customers or will our water bill go up?
2021/08/26 3:55:12 PM MDT	Yes	It will be more accurate for both water usage and billing	Thank you for presenting this option and for looking out for customer's best interest
2021/08/26 5:58:40 PM MDT	No	I don't see the need. To alert for leaks only?	I don't understand the technology. Where will the cellular signal be set up?
2021/08/27 9:38:08 AM MDT	Yes	I think we all have a sense that we are doing our best to conserve water but any additional information and feedback we could get in real time about that would be helpful.	
2021/08/27 10:03:19 AM MDT	Yes	We don't get enough granularity in the system. I cannot tell when my water usage is occurring.	
2021/08/27 12:52:57 PM MDT	No	I prefer the old school way. Change is terrifying and we should avoid it at all costs, especially when deciding whether to add bike lanes to our city streets.	Bike lanes on 116 to Petaluma. More bus service to Santa Rosa from Seb.
2021/08/27 1:14:41 PM MDT	Undecided/No Opinion	Don't understand concept	
2021/08/27 1:24:30 PM MDT	Yes		
2021/08/27 1:43:52 PM MDT	Undecided/No Opinion		
2021/08/27 2:14:42 PM MDT	Yes		
2021/08/27 3:00:48 PM MDT	Yes	like being notified if there is a leak!	
2021/08/27 7:37:48 PM MDT	Undecided/No Opinion	I simply don't know enough about the pros and cons of this system	
2021/08/29 10:16:51 AM MDT	Yes	So we can monitor our usage in real time instead of waiting for the bill which is 60 days old.	
2021/08/29 8:33:27 PM MDT	Yes	We definitely need to be able to monitor our usage in real time! It will make such a difference in being able to pay attention, show it to kids and other family members etc. It's so important!	It is ridiculous that we are not able to have PG&E Smart meters to do similar monitoring. We should all be paying close attention to our power and water usage.
2021/08/30 9:21:15 AM MDT	Yes		
2021/08/30 11:07:03 AM MDT	Yes	Allow users to monitor use real time	
2021/08/31 11:04:06 AM MDT	No	The cost is probably very high	I have read about one city that had large cost overruns installing smart water meters
2021/08/31 2:07:55 PM MDT	Yes		
2021/09/02 10:44:17 AM MDT	Yes	To know water usage earlier than when bill arrives every 2 months	
2021/09/03 1:30:00 PM MDT	Yes	It is a good way to make people more aware of water usage.	
2021/09/03 1:46:26 PM MDT	No	We are saving water already an app is not going to be looked at in our daily routine	Why spend money on something that will not be looked at. A re-landscape incentive would be a better use on the funds.
2021/09/03 2:05:12 PM MDT	Undecided/No Opinion		Does Sebastopol currently estimate or does it actually measure usage for each household? Will cellular water meters be available to households on an opt-in basis? Will there be added costs to all households or to households that implement cellular water meters?
2021/09/03 5:08:10 PM MDT	No	Good intentions, bad idea. This is one more potential point of failure at each and every residence. We don't need 10,000 more EMF emitting devices throughout the city transmitting every 15 minutes.	
2021/09/04 9:00:08 AM MDT	Undecided/No Opinion		
2021/09/05 12:56:37 PM MDT	No	Giving everything it's own app trivializes apps. Also, putting data into an app increases risk of data mining (for commercial interests) or data theft.	What would the city pay for this service? If it's free or cheap, the app developer is making money selling user data.



Timestamp	Are you in favor of the City of Sebastopol adopting a cellular water meter system?	Use this space to indicate why or why not:	Use this space to ask questions or make any additional comments:
2021/09/07 2:53:28 PM MDT	Yes	Data provides the information needed to conserve this precious resource. Those who oppose this are senselessly worried about control and secrecy. Water is a shared resource and requires transparency.	
2021/09/07 8:40:14 PM MDT	No	I believe that the current report comparing monthly water usage for this year and the previous year is all the information we need	
2021/09/08 11:06:44 AM MDT	Yes	notify leaks in real time	
2021/09/08 1:36:00 PM MDT	Yes		
2021/09/09 6:59:08 PM MDT	Yes	more accurate real time water usage monitoring	
2021/09/10 5:16:50 PM MDT	Undecided/No Opinion	What is wrong with the current system? Is it inaccurate? I would like to know more often how much water I'm using. Now, one waits 2 months.	
2021/09/10 7:48:12 PM MDT	Yes	I think it is important to see the data real time.	I am for the water meter real-time program as long as it does NOT increase my water bill.
2021/09/10 9:50:23 PM MDT	Yes		
2021/09/11 8:34:01 AM MDT	Yes		
2021/09/11 8:44:49 AM MDT	No	I have compromised immune system, avoided EMFs and all other 'waves' if possible.	
2021/09/11 10:12:50 AM MDT	No	My husband and I pay close attention to our water use and take extensive efforts to conserve. We monitor our water use through our Seb water bills, and we watch for leaks, occasionally looking at our meter next to the street to see if it's moving even with everything's turned off. We prefer this low-tech method and don't want more cell-phone, wifi based technology in our lives.	
2021/09/11 12:46:19 PM MDT	Yes	I really like the ability to check for leaks and consumption at any time.	Great idea
2021/09/11 5:39:25 PM MDT	Yes		
2021/09/12 1:41:30 PM MDT	Yes		Saves time and less Human Resource dollars
2021/09/13 5:03:36 AM MDT	Yes		
2021/09/13 10:32:01 AM MDT	Yes	I'd like to be able to monitor my water usage.	
2021/09/13 10:50:26 AM MDT	No	More expence to the city, when street improvement is more important	
2021/09/13 2:05:16 PM MDT	Yes	The data may help me figure out where it all goes!	You should offer a billing discount for anyone who has one installed
2021/09/13 3:40:19 PM MDT	No		
2021/09/13 11:15:57 PM MDT	Yes		
2021/09/14 8:46:17 AM MDT	Yes	Provides more info about water usage	
2021/09/14 1:43:53 PM MDT	Yes	Early awareness of leaks sounds great	
2021/09/14 10:36:02 PM MDT	No	This would be another "Smart Meter" in the style of the device PGE has tried to put on every property, and which many of us have -- thankfully -- had the privilege of paying to opt out of. The reasons for rejecting additional Cellular Devices on our properties are many and varied. Some of us are physically sensitive to these Wireless ElectroMagnetic Frequencies in the range of 200 MegaHerz to 8 GigaHerz, such as cell phones, streaming devices, Wifi routers, that communicate with cell phone towers and antennas. Some of us understand that as additional devices and antennas are installed and established as norms, the ElectroSmog Pollution with its harms to the environmental, animal, insect, and human health grows exponentially in aggregate, and causes more risk of cancer and other biological health harms. Some are concerned that this is yet another instance of the "Surveillance Industrial Complex" monitoring our lives.	We do not need to monitor our water by additional devices. We know how to manually turn off the taps, keep our lawns dry, and fix our leaky faucets. This is an additional profit-seeking appliance being sold to our city and citizens for no good reason, and possibly bad ones.
2021/09/15 12:37:31 PM MDT	No	I do not want to be tracked or measured electronically in any way. I do not believe that this is purely for My benefit.	
2021/09/15 2:31:15 PM MDT	No		



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2021/09/15 3:11:13 PM MDT	Yes		
2021/09/15 6:25:58 PM MDT	Undecided/No Opinion	Undecided b/c I would want to know where the unit will be installed and the power of the the transmitter. I was opposed the PGE smart reader b/c it would be installed on an outside wall where right inside my young son slept. And I heard it was a high powered transmitter so didn't think it was worth it. However, if this water meter is installed at the water mains on the sidewalk (50 feet from front door) i would be ok with it.	Where would it be installed? How close to where people sleep? How strong is the Cell transmitter?
2021/09/15 6:41:54 PM MDT	Yes	To better monitor my water usage.	
2021/09/15 8:43:55 PM MDT	Undecided/No Opinion	I don't really know what it is	Educate people before you ask their opinion
2021/09/15 10:09:56 PM MDT	No		
2021/09/16 8:17:10 AM MDT	No	bad health effects	
2021/09/16 2:43:16 PM MDT	Yes		
2021/09/16 5:13:34 PM MDT	Yes	It is the only practical way to check our water usage	
2021/09/17 9:36:28 AM MDT	No	Additional cellular products in my neighborhood and in our community may increase health problems for those with EMF sensitivities . I choose not to have wireless services or products in my home.	
2021/09/17 2:49:17 PM MDT	No	We will have pay to for this system everything the city does increases the monthly bill. STOP!	
2021/09/17 6:30:40 PM MDT	Undecided/No Opinion	I would need to do more research.	
2021/09/17 7:11:15 PM MDT	Yes		
2021/09/17 7:48:15 PM MDT	No		
2021/09/19 11:34:50 AM MDT	Yes		
2021/09/19 8:21:27 PM MDT	Yes		
2021/09/19 8:30:24 PM MDT	Yes	We really need to understand our water usage and take steps to reduce it.	Would this be used to change people's billing? Would it apply to well users?
2021/09/19 9:46:01 PM MDT	Undecided/No Opinion	I don't understand the true cost of the system. Will I be charges a small fee over time to pay for the new meter? How much? I	If we could come up with a see-through meter cover, I would be willing to enter my own data into some sort of spreadsheet that could be used to more accurately estimate my usage. Maybe a true-up reading once a year would provide verification of my usage.
2021/09/19 11:37:05 PM MDT	Yes	I have had major leaks before that I didn't know about until significant waste	
2021/09/20 8:36:09 AM MDT	No	What evidence is there that this is a cost effective way to save water? It seems like another boondoggle that some fancy consultants are pushing to collect more data.	Why doesn't the Sebastopol city government address real concerns of residents like safe and separate bike trails and a better pedestrian infrastructure? If there is a water shortage why are so many public facilities irrigated like the police, High School Fields, parks, etc.?
2021/09/20 2:36:33 PM MDT	No	Value doesn't justify the cost.	
2021/09/20 4:13:07 PM MDT	Yes	Looks like a system that allows me real time awareness of my water use.	Mailed Response - Entered 9/20 - MR
2021/09/20 4:15:25 PM MDT	Undecided/No Opinion	I don't have enough information to make an informal decision.	What are the pro's & cons of such system Mailed Response - Entered 9/20 - MR
2021/09/20 4:16:37 PM MDT	No	Current meter works great! And my landline is not connected to the internet	Jobs are important and reading a meter provides one (meter reader) Mailed Response - Entered 9/20 - MR



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2021/09/20 4:18:17 PM MDT	Yes	I looked at Demo and it appears to be an easy way to compare water use.	So far the rain forecast are predicting less rain again this winter. I support water rationing/restrictions but not just mandating a percentage reduction. I've already reduced water usage by 40% but also allowing 74 gals per person per day. I think this is a good idea because people who have already reduced their usage can't reduce much more unlike people who are still wasting water Mailed Response - Entered 9/20 - MR
2021/09/20 4:20:23 PM MDT	No	Why?	The people from the water/sewer service NEVER showed up! Mailed Response - Entered 9/20 - MR
2021/09/20 4:21:28 PM MDT	No	I would prefer the city uses its funds to maintain the aging water pipes. You could teach people how to check their water meters!	Mailed Response - Entered 9/20 - MR
2021/09/20 4:23:05 PM MDT	No	I can monitor my water usage without another app or device	I took out my lawn in 2016-17 and replaced it with native and drought resistant plants Mailed Response - Entered 9/20 - MR
2021/09/20 4:24:40 PM MDT	Yes	Any way to improve monitoring water usage is a good idea	Tried to log in to Fyr on water but it did not accept my acct. # Mailed Response - Entered 9/20 - MR
2021/09/20 4:25:44 PM MDT	Yes		But with email option Mailed Response - Entered 9/20 - MR
2021/09/20 4:26:55 PM MDT	Yes		Mailed Response - Entered 9/20 - MR
2021/09/20 4:27:49 PM MDT	No	Too much cellular in our lives. Concerned about health Risk	Mailed Response - Entered 9/20 - MR
2021/09/20 4:29:05 PM MDT	No	Data is not knowledge or understanding. Having everyone obsess over a 1 in 1000 chance of pipes leaking doesn't help change behaviors.	Mailed Response - Entered 9/20 - MR
2021/09/20 4:30:15 PM MDT	Yes		Mailed Response - Entered 9/20 - MR
2021/09/20 4:32:35 PM MDT	No		Mailed Response - Entered 9/20 - MR
2021/09/20 4:33:27 PM MDT	No	Our cellphones are "flip phones" and do not have the capability to do this	Mailed Response - Entered 9/20 - MR
2021/09/20 4:35:33 PM MDT	Undecided/No Opinion	Ok if not required. Some of us seniors wouldn't be capable of using	First Question not marked on mailed survey - Undecided/No Opinion selected Mailed Response - Entered 9/20 - MR
2021/09/20 4:37:26 PM MDT	Yes	If it will save me \$, I'm for using the system	Cost to me Mailed Response - Entered 9/20 - MR
2021/09/20 4:39:08 PM MDT	Undecided/No Opinion	Unclear as to additional cost to customer	Mailed Response - Entered 9/20 - MR
2021/09/20 4:40:05 PM MDT	No		Mailed Response - Entered 9/20 - MR
2021/09/20 4:41:09 PM MDT	Undecided/No Opinion	I couldn't access Demo A/P? Need more info. Cost to City or Water User(me)	I'd like to see other users feedback Mailed Response - Entered 9/20 - MR
2021/09/20 4:43:27 PM MDT	Undecided/No Opinion	I do not understand the implications	First question not answered on mailed survey - Undecided/No Opinion Selected Mailed Response - Entered 9/20 - MR
2021/09/20 4:44:23 PM MDT	Yes	We need to conserve water.	Mailed Response - Entered 9/20 - MR
2021/09/20 4:45:11 PM MDT	Yes	Better Records & accurate!	Mailed Response - Entered 9/20 - MR
2021/09/20 4:45:58 PM MDT	Yes		Mailed Response - Entered 9/20 - MR
2021/09/20 4:46:58 PM MDT	Undecided/No Opinion		Mailed Response - Entered 9/20 - MR
2021/09/20 4:48:17 PM MDT	Undecided/No Opinion	I would like more information about thw this system would work.	Mailed Response - Entered 9/20 - MR
2021/09/20 4:49:04 PM MDT	Yes	Better to keep track of what we use	Mailed Response - Entered 9/20 - MR
2021/09/20 4:49:54 PM MDT	No	Happy with the way it is.	Mailed Response - Entered 9/20 - MR



Timestamp	Are you in favor of the City of Sebastopol adopting a cellular water meter system?	Use this space to indicate why or why not:	Use this space to ask questions or make any additional comments:
2021/09/20 4:51:17 PM MDT	No	I don't want to have to use my computer to get information on what is going on. Just do it the way it has been done always.	Bill me the same way as has always been done. This modern stuff bothers and annoys me and I'm too old to figure stuff out. Mailed Response - Entered 9/20 - MR
2021/09/20 4:52:31 PM MDT	Yes		Really think each living unit should have a separate water meter so that tenants can see & suffer if they use excessive water. Otherwise why should they care about the cost, they don't pay it. Mailed Response - Entered 9/20 - MR
2021/09/20 4:56:54 PM MDT	Yes	Individuals should be alert on water consumption in West County/California USA and global scale under this climate crisis.	I haven't picked up the bucket yet. But keep alerting this community. Mailed Response - Entered 9/20 - MR
2021/09/20 4:59:43 PM MDT	No	Commercial Bld have no control over how much they use	Smart Meters that can be read by driving down the street would cut down on labor and save the city money in the long run Mailed Response - Entered 9/20 - MR
2021/09/20 5:01:24 PM MDT	No	I do not feel that this is an expense the city needs to take on for the few cell phone addicted	Mailed Response - Entered 9/20 - MR
2021/09/20 5:02:25 PM MDT	Undecided/No Opinion		Is there a cost for installation of water meter? Mailed Response - Entered 9/20 - MR
2021/09/20 5:03:27 PM MDT	Undecided/No Opinion	Don't use a smart phone.	Mailed Response - Entered 9/20 - MR
2021/09/20 5:04:18 PM MDT	No	Not Needed	Mailed Response - Entered 9/20 - MR
2021/09/20 5:05:03 PM MDT	No	Don't use cell service for anything	Mailed Response - Entered 9/20 - MR
2021/09/20 5:06:16 PM MDT	Yes	Whatever it takes to help us CONSERVE.	Mailed Response - Entered 9/20 - MR
2021/09/20 5:07:11 PM MDT	No	Don't need instant information monthly is sufficient	Mailed Response - Entered 9/20 - MR
2021/09/20 5:08:07 PM MDT	Yes	To give us a more accurate knowledge of our water use.	Mailed Response - Entered 9/20 - MR
2021/09/20 5:09:03 PM MDT	Yes	I think many people will use it. Sounds like a great tool!	Mailed Response - Entered 9/20 - MR
2021/09/20 5:10:15 PM MDT	Undecided/No Opinion	Lack of information on product site. Demo won't open. Therefore don't have info on how it works.	Will all customers and a mobile phone to use app? Many seniors may have difficulty accessing info. Cost to customer? Financial savings for city and customers? Mailed Response - Entered 9/20 - MR
2021/09/20 5:11:07 PM MDT	No	More money higher rates and probably needs a computer or cell phone.	Mailed Response - Entered 9/20 - MR
2021/09/20 5:12:07 PM MDT	No	If I want to know my H2O usage I read the meter. I can detect leaks also. Cellular system just adds unnecessary redundancy.	Mailed Response - Entered 9/20 - MR
2021/09/20 5:13:17 PM MDT	Yes	I think so.. Not very well explained here.	A more thorough explanation would have been helpful. What is entailed, how does it work: Does City have landscapers who could advise on fixing leaks in garden or contractors for household problems? Mailed Response - Entered 9/20 - MR
2021/09/20 5:14:22 PM MDT	No	Don't need any more information. Not helpful for monitoring usage.	Mailed Response - Entered 9/20 - MR
2021/09/20 5:15:08 PM MDT	No	No more Wi-Fi	Mailed Response - Entered 9/20 - MR
2021/09/20 5:16:12 PM MDT	No	I do not use a smart phone	Mailed Response - Entered 9/20 - MR
2021/09/20 5:17:12 PM MDT	Yes	We have underground irrigation pipes that can leak	Mailed Response - Entered 9/20 - MR
2021/09/20 5:18:23 PM MDT	No	Cannot afford an iPhone	Mailed Response - Entered 9/20 - MR
2021/09/20 5:19:41 PM MDT	No	I will not support or fund the use of cellular antennas, Emitters or Receivers (which are a threat to human, animal and plant bio-systems) In or around my home, neighbors or community	Via Cellular lte endpoints or gateway transceivers with LTE Backhaul. These technologies are damaging to health/life and there are too many already operating of similar nature! Mailed Response - Entered 9/20 - MR
2021/09/20 5:20:35 PM MDT	No	I don't do online or use apps generally	Mailed Response - Entered 9/20 - MR



Timestamp	Are you in favor of the City of Sebastopol adopting a cellular water meter system?	Use this space to indicate why or why not:	Use this space to ask questions or make any additional comments:
2021/09/20 5:21:34 PM MDT	No	The current ones are fine. Asking us to conser is not enough? More Control over our lives? Use that money for new meters to find more storage options build new dam's etc!	Mailed Response - Entered 9/20 - MR
2021/09/20 5:22:24 PM MDT	Yes	Will help me track water use	Mailed Response - Entered 9/20 - MR
2021/09/20 5:23:06 PM MDT	Yes		Mailed Response - Entered 9/20 - MR
2021/09/20 5:25:25 PM MDT	No	Will require new equipment that you will want to charge for that will only last 20 .	If you want to update something make it possible to pay bill with a check over the phone. Current meters work fine Mailed Response - Entered 9/20 - MR
2021/09/20 5:26:31 PM MDT	No	Absolutely NOT. I have had my PG&E "smart meter" removed because I do not want electromagnetic radiation causes me real pain.	Not needed. For peopole who can't use cell phones because it causes pain, headaches, chest pain, I don't want a signal comin off the water meter as I walk down the streets! Mailed Response - Entered 9/20 - MR
2021/09/20 5:27:44 PM MDT	Undecided/No Opinion	I definitely need more information.	The likn to info about the product was bried and mostly a sales pitch. I want to know what neutral sources say about this system, not the manufactor itself. Mailed Response - Entered 9/20 - MR
2021/09/20 5:28:46 PM MDT	Yes	I especially like the idea of real-time leak detection as a way to reduce water wastage.	Mailed Response - Entered 9/20 - MR
2021/09/20 5:30:33 PM MDT	No	We are against increasing the concentration of low-level celluler emmisions in our environment.	Mailed Response - Entered 9/20 - MR
2021/09/21 4:22:44 PM MDT	Yes	Yes a good idea, only if there are safeguards in place to prevent hacking and or fraud! If not, then no!!	
2021/09/24 1:11:58 PM MDT	No	too much cellular activity already	
2021/09/24 5:02:51 PM MDT	Yes	How much will it cost the city?	The cost will determine my yes or no
2021/09/25 10:48:21 AM MDT	Yes		Sebastopol should look at making treated wastewater available to customers for landscape purposes, like Healdsburg has done,
2021/09/28 4:42:19 PM MDT	No		
2021/09/30 10:56:52 PM MDT	No	This meter is a clear violation of our home privacy. Consistently tracking and storing information on when we use water could allow someone other than the homeowner to know when we are home and when we are not. When we take long showers or do our laundry. This information can and will be used for more than letting a home owner know that they have a leaking pipe. Besides being invasive, I do not like the idea of having "Smart" meters lining our sidewalks. It was a shame that PG&E was allowed to install their "Smart" meters on the side of our homes and now we are thinking of lining the sidewalks our children walk on with water "Smart" meters. It may sound good on the surface, but I really, really, really do not like this.	
2021/10/04 1:47:27 PM MDT	Undecided/No Opinion		Will this ever offset the water supply? If the system is hacked will my water shut off? If it is hackable ever, I am opposed to a system that could turn off my water digitally. Mailed Response - Entered 10/4 - MR (Both Undecided and No were marked on the mailed response)
2021/10/04 1:50:37 PM MDT	No	Want Service!	Mailed Response - Entered 10/4 - MR
2021/10/04 1:51:44 PM MDT	No	One thing will lead to another and higher rates	Mailed Response - Entered 10/4 - MR
2021/10/04 1:52:49 PM MDT	Undecided/No Opinion	At 70 yrs old "apps" are beyond my "last century" mentality. I am very conservative with my water usage, but will go with the "flow".	Mailed Response - Entered 10/4 - MR
2021/10/04 1:53:44 PM MDT	No	We are not a computerized house	Mailed Response - Entered 10/4 - MR



Timestamp	Are you in favor of the City of Sebastopol adopting a cellular water meter system?	Use this space to indicate why or why not:	Use this space to ask questions or make any additional comments:
2021/10/04 1:55:24 PM MDT	Yes	It is the only way to accurately self monitor H2o use. Thank you!	I did do the survey online, but never received an email confirmation Mailed Response - Entered 10/4 - MR
2021/10/04 1:56:35 PM MDT	Yes	Depending on how much it cost of the system. Adds to water bill compared to possible savings from using add info to reduce usage.	I assume you are currently measuring our usage. Is it going down? I notice more brown lawns. Leak detection is a great idea Mailed Response - Entered 10/4 - MR
2021/10/04 1:57:48 PM MDT	No	I do not want more wifi going on in our neighborhoods	If it is wifi-free or 5G free, I would welcome it. Mailed Response - Entered 10/4 - MR
2021/10/04 1:58:47 PM MDT	No	Expense! I want to spend \$ on Streets Repaving	Mailed Response - Entered 10/4 - MR
2021/10/04 1:59:41 PM MDT	Yes		Mailed Response - Entered 10/4 - MR
2021/10/04 2:00:28 PM MDT	Yes	So residents can see in "real time" their wter consumption	Mailed Response - Entered 10/4 - MR
2021/10/04 2:01:09 PM MDT	No		Mailed Response - Entered 10/4 - MR
2021/10/04 2:01:54 PM MDT	Undecided/No Opinion		Mailed Response - Entered 10/4 - MR
2021/10/04 2:02:59 PM MDT	No		Mailed Response - Entered 10/4 - MR
2021/10/04 2:03:47 PM MDT	Yes	Helps me to conserve Water	Mailed Response - Entered 10/4 - MR
2021/10/04 2:04:57 PM MDT	No	This product will undoubtedly end up costing water users more money. Our water bills in West County are high due to sewer feesx	Mailed Response - Entered 10/4 - MR
2021/10/04 2:05:52 PM MDT	No	We don't look at smart meter now. Why waste the money on meters, apps, and installation labor that won't be looked at. An incentive to re-landscape would be money better spent.	Mailed Response - Entered 10/4 - MR