

# Meter Upgrade Project Complete

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# Overview

- System Overview
- History of Project Selection
- Project Timeline and Costs
- System Benefits
- Still to Come



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# Meter Upgrade Project Technology



Meter



Meter Interface Unit



Data Collection Unit



Asset Management



GIS



Others

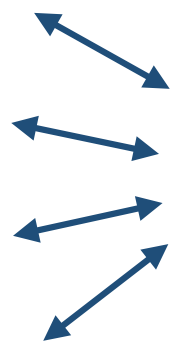


Customer



Water Billing (CIS)

Cloud Databases



# Meter Reading History



**Traditional Reading**  
(manual & touch read)



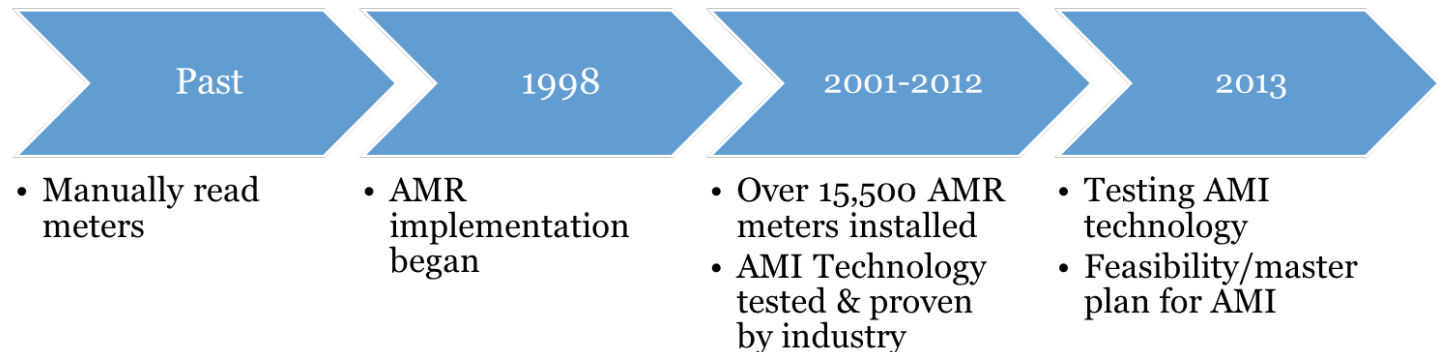
**Automated Reading (AMR)**



**Advanced Metering Infrastructure (AMI)**

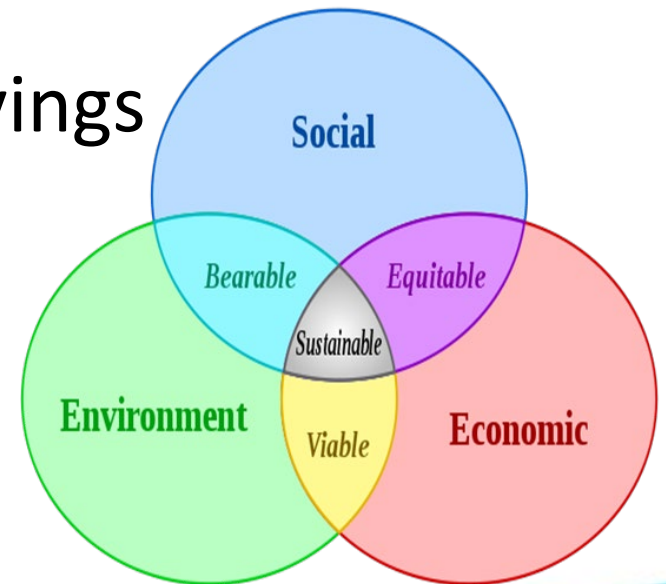
## Available Meter Reading Options

## Santa Rosa History



# Why Advanced Metering Infrastructure (AMI)

- Feasibility study determined best option
- Project would pay for itself before end of useful life
- Considerations beyond financial savings
  - Customer
  - Environmental
  - System efficiencies



# Project Timeline and Final Costs

- Approval of feasibility study - August 2013
- Agreements signed – July 2015
- Software go live – August 2017
- Installation began – September 2017
- Final meter set – January 2021
- Projected costs - \$14.1m
  - Total expenditures - \$13.5m



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# Project Benefits

- Customer service
- Water savings
- Near real-time usage data
- Greenhouse gas reductions
- Using data to improve other SRW core functions



**City of Santa Rosa WATER**  
**My Efficiency Scorecard**  
Generated on 07/07/2017 at 08:45:01 AM

Account: 0188546-036867 - SOSA, SHAWN  
Address: 1200 15TH ST  
Scorecard Date: 12/31/2015  
Number of Occupants: 2

For information on how to read your scorecard visit [www.srcty.org/watersmart](http://www.srcty.org/watersmart).

**Yearly Water Usage**

Period	Last 12 Months	Previous Year	Last 12 Months for Similar Accounts
Irrigation Season (Apr-Oct)	7,063	5,257	5,724
Non-Irrigation Season (Nov-Mar)	2,496	2,502	3,488
Full Year	5,177	4,118	4,803

Above usages in Gallons per Month.

**How Do I Compare?**

**Last 30 Days** (12/01/2015 - 12/30/2015)  
Me: 2,397 Gallons  
Lower Use | Higher Use  
Similar Accounts: 2,803 Gallons

**Prior 30 Days** (11/01/2015 - 11/30/2015)  
Me: 3,657 Gallons  
Lower Use | Higher Use  
Similar Accounts: 3,729 Gallons

**Water Usage Details**

Actual Usage (Gal) | Irrigation Needs (in)

Feb-2015 | Apr-2015 | Jun-2015 | Aug-2015 | Oct-2015 | Dec-2015

■ Actual Usage — Estimated Irrigation Needs

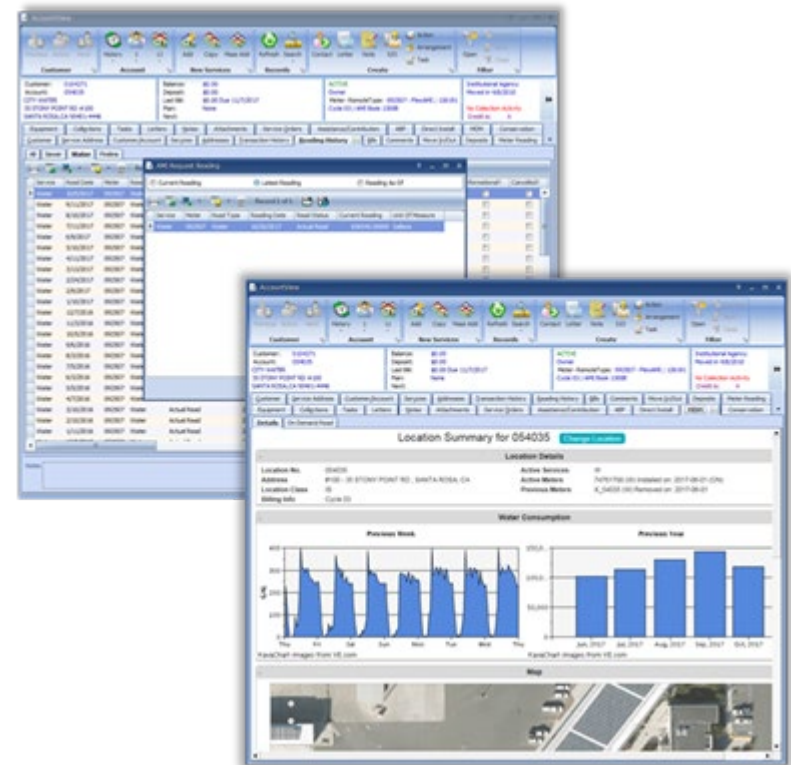
The Estimated Irrigation Needs, shown in inches, are for urban landscapes with moderate watering requirements based on factors such as weather and soil conditions. Some landscaping such as short green turf may require more water. In winter months, Irrigation Needs are typically met by rainfall. The Monthly Water Usages shown are for calendar months rather than billing periods and will not exactly match the values on your bill.



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# Benefits Realized

- Water billing
- System integrations
- Water Use Efficiency
  - Continuous usage
  - Audits
  - Program tracking
- Customer satisfaction



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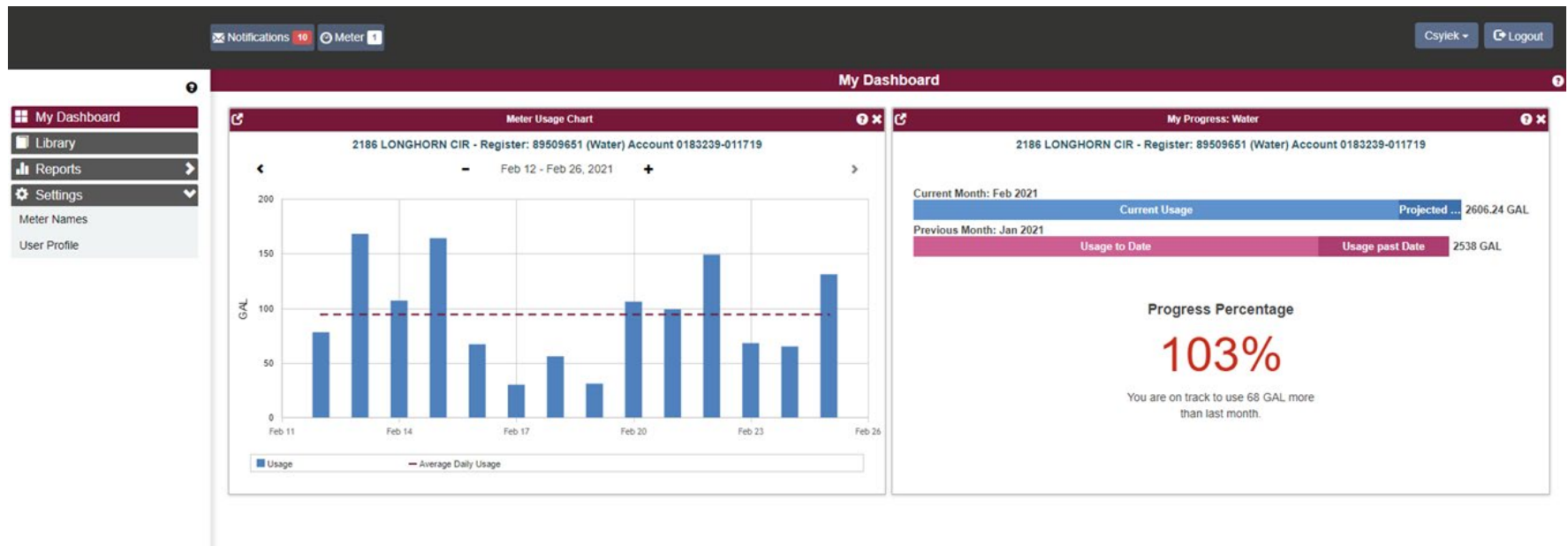
# Unforeseen Benefits

- During the Tubbs Fire
  - 362 upgraded meters
  - Identified five 800 – 1,000 gallon/hour leaks through AMI
  - GPS helped locating meters



# Still to Come

- Expanded water use efficiency program benefits
- Customer portal
- Additional uses for data



# QUESTIONS / COMMENTS



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