Meter Upgrade Project – Advanced Metering Infrastructure Amendment to N. Harris Agreements

Board of Public Utilities Meeting July 20, 2017



Agenda

- What is AMI?
- Why Upgrade Meters?
- Benefits
- Solution Providers
- Project Timeline
- Communication



What is the Meter Upgrade Project?

- It is the installation of Advanced Metering Infrastructure (AMI)
- This technology impacts the way we do business related to water use.
- It involves multiple groups at Santa Rosa to implement.
- It is an integrated system of meters, communications networks, and data management systems that enables two-way communication between Santa Rosa and it's water meters.



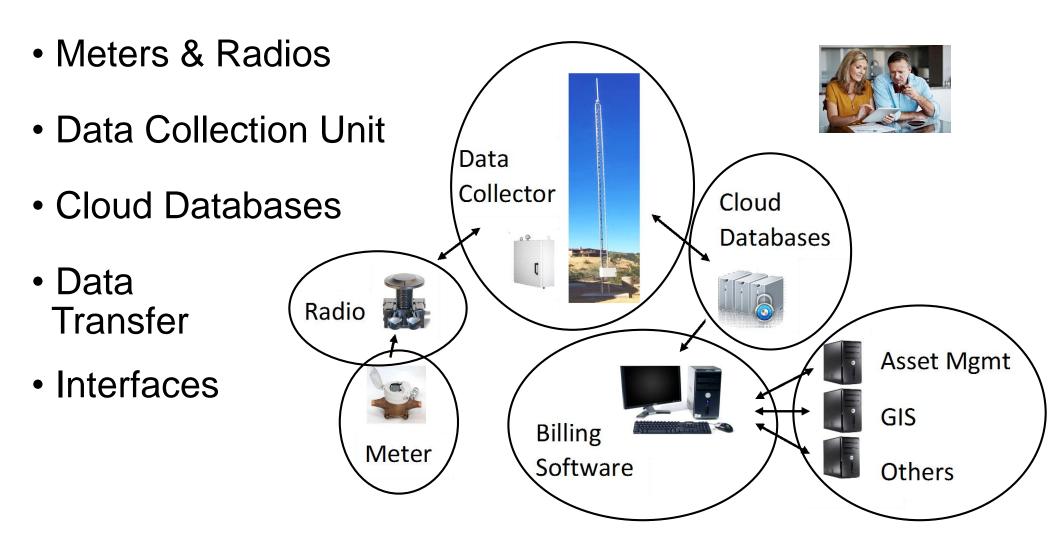
Why Upgrade Meters?

- Aging Meters with Various Reading Methods
- Water Savings
- Leak Detection
- Improved Customer Service
- CIP Planning and Design





AMI Technology



AMI Project Benefits

- Enhancing Customer Service: The upgraded meters will allow customers to view and track daily water usage, detect leaks faster, provide consistent billing dates, and expedite service starts.
- Improving Water Savings: A future online customer portal will identify water saving opportunities with personalized recommendations, tracking, and alerts.
- Providing Near Real-Time Water Usage Data: The ability to access near real time data not only allows customers to track and manage usage, but has the added benefit of providing critical data to Water Department staff responsible water use efficiency and for assessing infrastructure replacement needs for water mains, pipes, and meters.
- Reducing Greenhouse Gas Emissions: The capability to transmit water use data wirelessly eliminates the need for vehicular travel to read water meters. In addition, faster leak detection means water and energy savings.



Solution Providers

- AMI Meters & Network Sensus/Xylem
- Meter Data Management System (MDMS) SmartWorks Compass and MeterSense by Harris Utilities
- Equipment Installation Utility Partners of America (UPA) and City Staff
- Implementation Management UtiliWorks Consulting, LLC.



Sensus/Xylem Inc. — AMI and Meters

- Over 500 AMI Projects
- More than 40 million Sensus/Xylem Inc. meters installed
- FCC-licensed spectrum for the FlexNet Network
- Development of next generation technologies



UPA – Meter Installation

- Provider of large-scale meter installation services
- More than 15 million installation work orders complete and 175 utility projects
- Staff of more than 400 professionals





Installer Identification











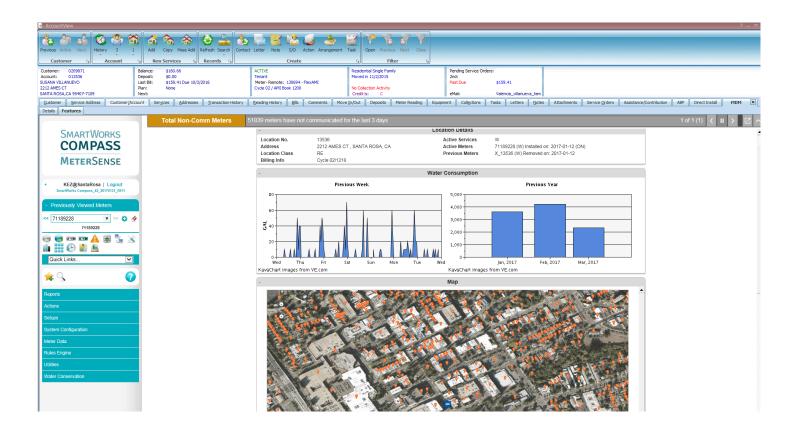
Harris SmartWorks- MDMS

- Harris is a leader in MDMS for municipal utilities with over 35 years experience in software solutions.
- Provides analytical evaluation tools for staff and integrates customer consumption with the CIS and customer web-portals.





Harris MeterSense- MDMS







Leveraging Data

- Using the MDM platform
- Water Use Efficiency
 - Water Conservation Module
 - Water Conservation Manager
- Electrical Data
 - Overlay of Use Patterns







OUR FUTURE IN EVERY DROP



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

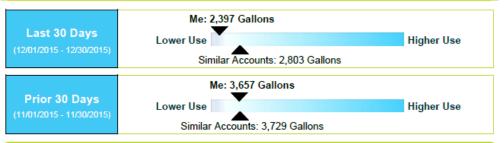
For information on how to read your scorecard visit www.srcity.org/watersmart.

Yearly Water Usage

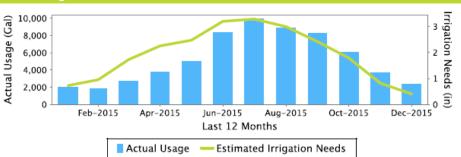
Period	Last 12 Months	Previous Year	Last 12 Months for Similar Accounts
Irrigation Season (Apr-Oct)	7,063	5,257	5,724
Non-Irrigation Season (Nov-Mar)	2,496	2,502	3,488
Full Year	5,177	4,118	4,803

Above usages in Gallons per Month.

How Do I Compare?



Water Usage Details



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.

Proposed Contract Amendments

- Implementation
 - SOW for Water Conservation Manager
 - Additional Training
- Support and Maintenance
 - Water Conservation Manager
- Negotiated Pricing



Timeline

- Alpha Testing
 - Completed
- Beta Testing
 - Meter reprogramming began in June 2017
 - 250 Meter +/-
- Full Deployment
 - Beginning in August/September 2017

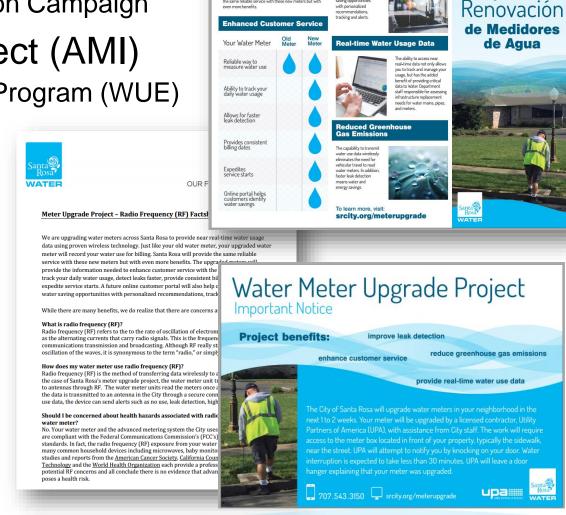


Communication

- AEC
 - Awareness and Education Campaign
- Meter Upgrade Project (AMI)
 - Under the Water Smart Program (WUE)
- Types of out reach
 - Postcards
 - Inserts
 - Press Releases
 - Web Pages
 - Brochures
 - FAQs



OUR FUTURE IN EVERY DROP



old water meter, your upgraded water meter will record

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Recommendation

It is recommended by the Water Department and the Board of Public Utilities Contract Subcommittee that the Board of Public Utilities, by motion, approve amendments for the Support and Maintenance and the Software Implementation Services Agreements with N. Harris Computer Corporation and authorize the Chair to sign the contracts.



Questions?

Thank You!

