



Advanced Metering Infrastructure (AMI) Project Update

City Council Work Session
January 21, 2020



City of Greensboro
North Carolina



History and Current Operation 90-30-1

- City was an early adopter of Automated Meter Reading (AMR) technology since 2004
- City drought management objectives and desire to move from quarterly to monthly bill practice key drivers
- City installed Itron Encoder Receiver Transmitters (ERTs) to read meters with their mobile drive-by system which now are at end-of-life
- City will need to either replace the ERTs with new AMR transmitters or upgrade system to Advanced Metering Infrastructure (AMI) technology to provide near real time daily reads
- AMI is the next step in the City's technology progression of meter reading and already part of the its long-range planning activities
- Over the last 10 years Capital funds have been appropriated for this effort within the Water Resources capital budget (appr. \$30M)



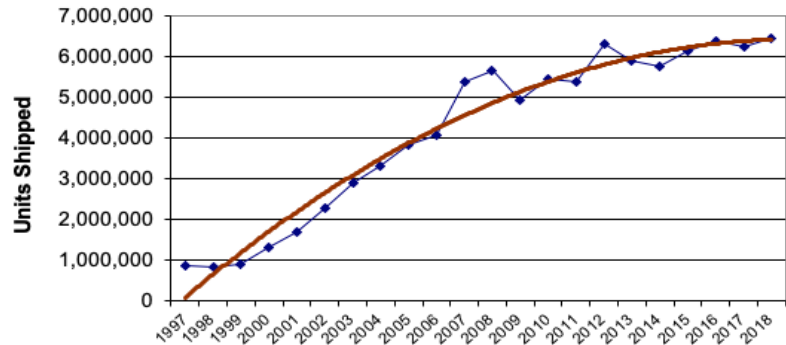
How AMI Works



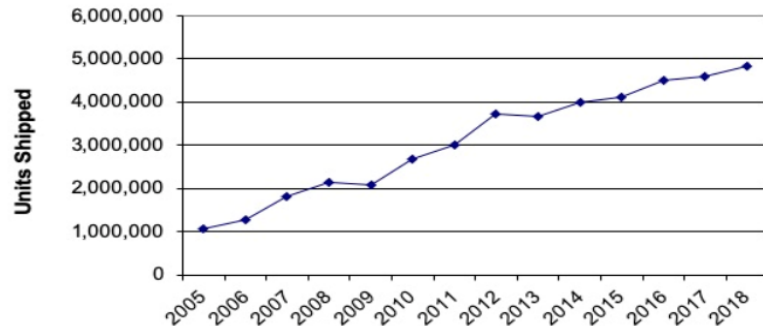
Industry Trends

- Water sector trends to AMI
- No longer cutting edge technology
- Itron, Sensus, Badger, Aclara, Mueller, Neptune

Total Water Shipments (CAGR 10.0%)



Water Fixed Capable Shipments (CAGR 12.3%)



AMI Benefits Support City's Strategic Focus



Organizational Strategic Planning

Greensboro's City Goals

City Council has identified these five goal areas as a strategic focus to achieve the community's vision. Council also identified the priorities within these goal areas. AMI technology can achieve the City's strategic goals in the following ways:



Create an Environment to Promote Economic Development
Opportunities and Job Creation



Maintain Infrastructure and Provide Sustainable
Growth Opportunities



Promote Public Safety & Reduce Crime
(Safe Community)



Exceptional Customer Service and
Diverse City Government Workforce



Ensure Fiscal Stewardship, Transparency &
Accountability

- Promote Smart City initiatives
- Sustainable and resilient community
- A culture of innovation
- Prioritize and project needs
- Take care of what you got
- Engage all of the public
- Maintains Infrastructure
- Provides water and flow pressure
- Reduces traffic accidents
- Technology enhancements to improve customer service
- Making customer service training a priority
- Consistency in service from all levels of the organization
- Reduce duplication of effort, software, use of resources
- Efficient use of resources
- Timely, accurate, and useful information to stakeholders
- Risk management

Purpose Driven ... People Centered ... Data Informed

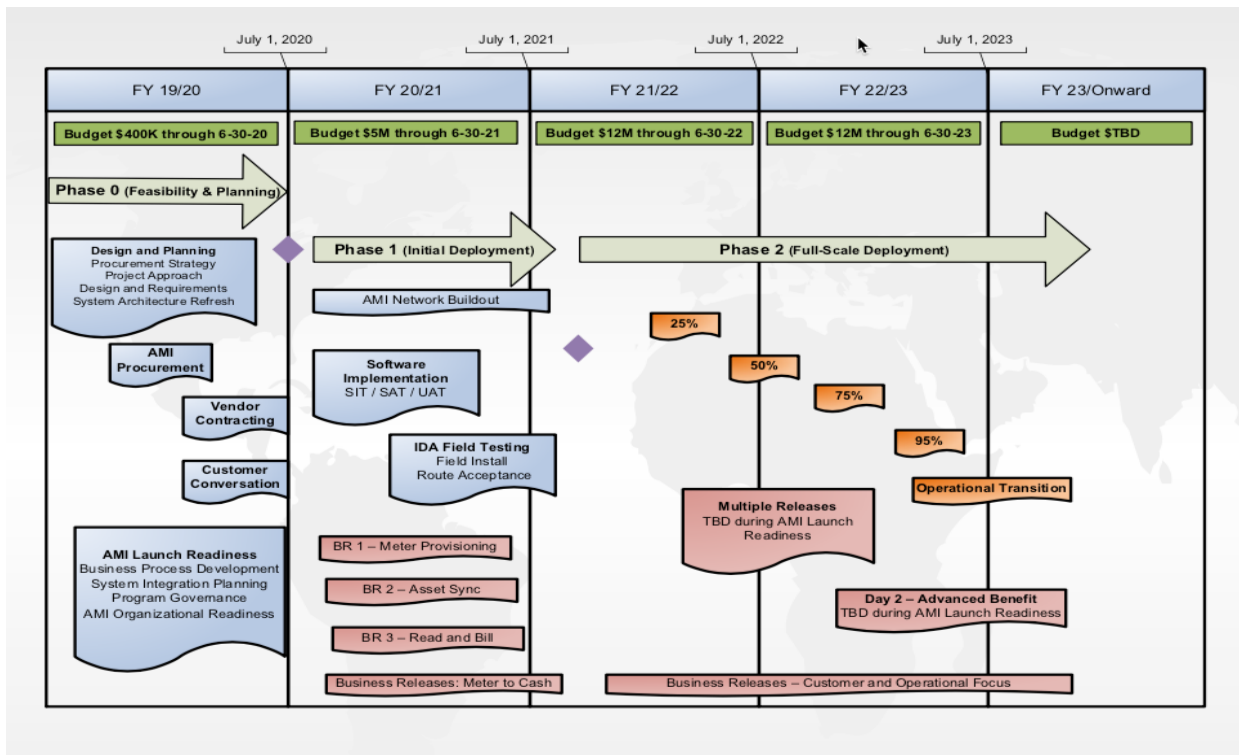
Recommendations

- **Deploy AMI technology and infrastructure**
- **Anticipated cost - \$29M**
- **No anticipated rate increases associated with AMI deployment**
- **Proceed with developing RFP to procure services**
- **Update Council/CMO on implementation timeline**

Q&A



Projected Costs and Potential Schedule



Procurement

Services Contract – Estimate \$30M

- 74% Meters and Transmitters
- 13% Network
- 13% Installation
- Partnership with the MWBE office for outreach and selection/evaluation of proposals