Advanced Meter Infrastructure Update

Council Update June 23, 2020

Sudbury Grand















Agenda

- 1. Project Overview
- 2. Review of Business Drivers
- 3. Revised Project Schedule
- 4. Upcoming Significant Project Components
- 5. AMI Network Deployment
- 6. Public Engagement
- 7. Impacts due to COVID

















Project Overview

Sudbury Grand















Project Overview



Owner











Consultant & Subject Matter Expert

Sensus AMI Technology Installation Services **Water Meters**

Water Billing

Meter Reading



















Review of Business Drivers

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- Enhanced Customer Experience
- Operational Efficiencies and Savings
- Revenue Protection
- Improved Distribution Management
- Conservation

















Enhanced Customer Service



- Eliminate estimated bills
- Monthly billing cycle based on actual reads
- Customer web access to consumption data and alerts
- Ability to monitor/alert frozen water services
- Quicker notice of high bill issues and leak alerts
- Improved move in/out services

















Operational Efficiency



- Eliminate manual reading costs
- Reduce reading exceptions and reliability issues
- Expedites same day special reads
- Minimize high/low field visits
- Monitor and detect backflow events

















Revenue Protection



- Detect water meter damage sooner
- Improved water meter accuracy
- Improved financial reporting with fair financial accountability amongst rate payers

















IT City Applications



- AMI is a type of project defined in IT's Strategic Pillars
- Customer Portal
- Improve Service Quality and Efficiency

















Improving Distribution Systems



- Better understand water loss and where to prioritize investment
- Improvements based on system water loss
- Improved consumption recognition











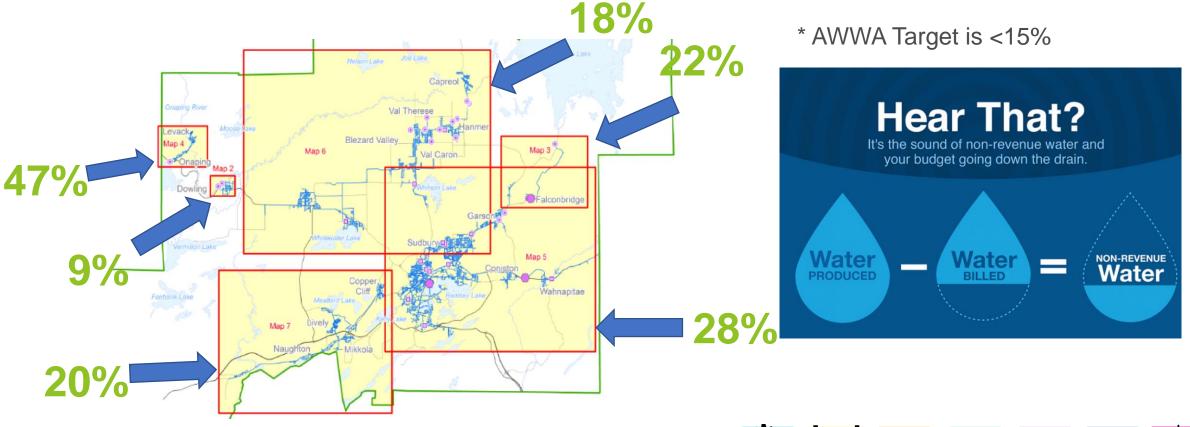






Improving Distribution Systems

Leakage Rates Per Community

















Conservation



- Reduce chemical and energy use for water and wastewater treatment
- Ability to embark on innovative conservation efforts

















Revised Project Schedule

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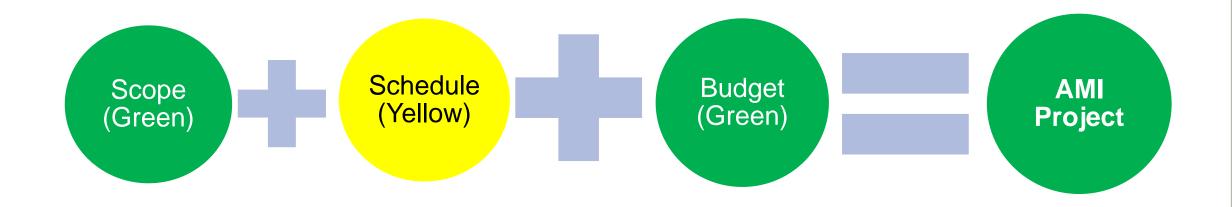








Project Health Indicators



Overall Project Indicator is Green









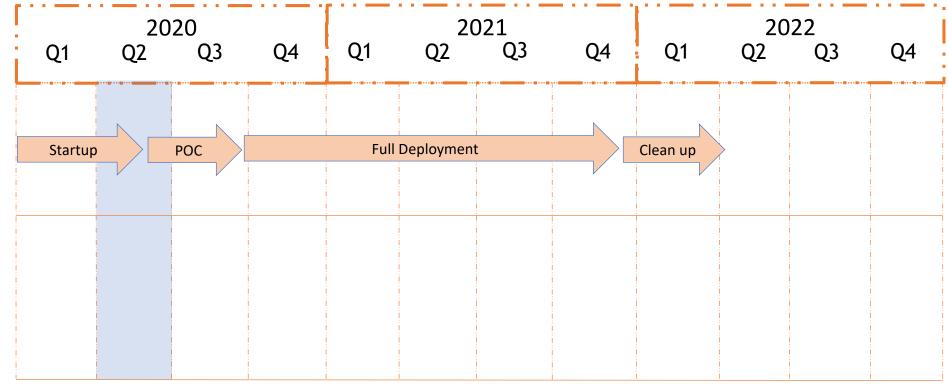








Original-Install was to start in May



*POC = Proof of Concept







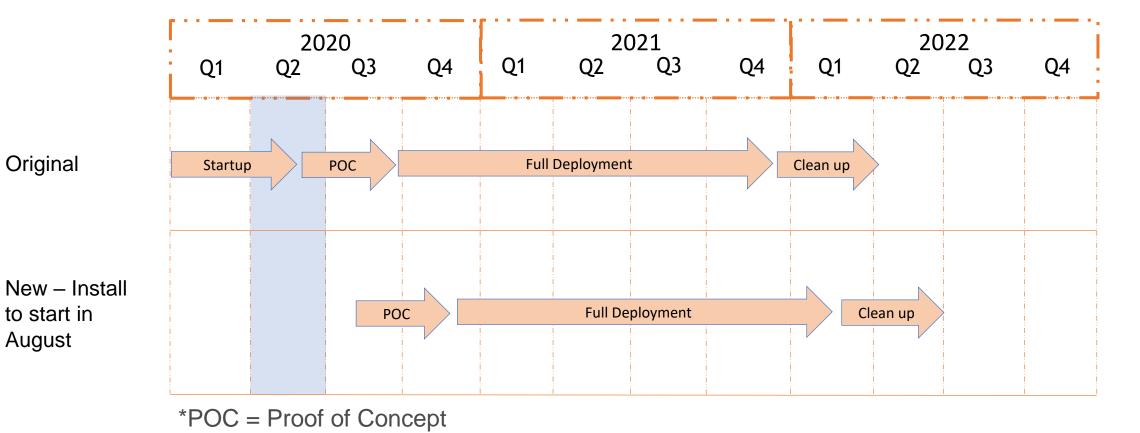














Original

to start in

August















Project Delays

- Northstar availability
- Multiple Integrations between KTI, Northstar and Sensus
- Final testing in preparation for initial installs
- Continue to work on CGS/GSU Service Level Agreement

















Project Spending to date

Component

- Water Meter Supply
- Installation/AMISystem
- Consulting
- Contingency

Contract Reference

- ISD19-18
- ISD19-2
- ISD19-3
- None

Spent

- 15%
- 0.5%
- 20%
- 12%

















Upcoming Significant Project Components

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Component Date
Initial Communications Release Mid July
Initial Open House Adjusted to virtual Open House
First Installations and POC Mid August

















AMI Network Deployment

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Network

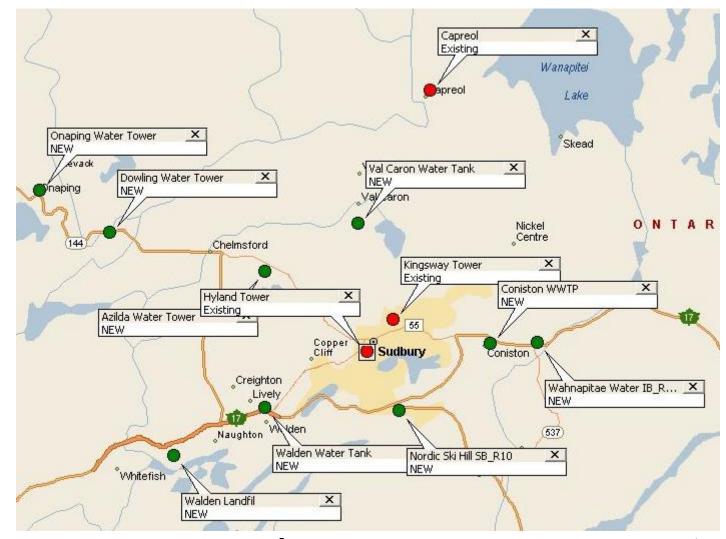
- 1. 3-5 Existing GSU Data Collectors
- 9 New CGS Data Collectors

Key Activities – (March – June)

- CGS to approve site Installation plans In Progress
 - 0 of 9 Installations plans approved
- 2. Submit for Industry Canada License

Key Activities – (July - August)

- 1. Network Deployment
- 2. System Monitoring













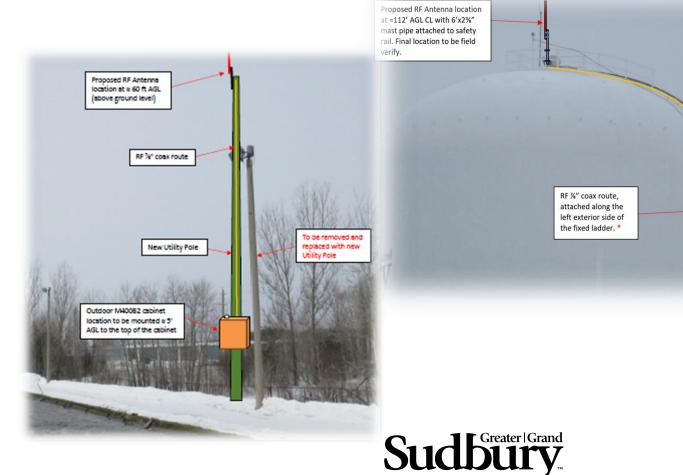


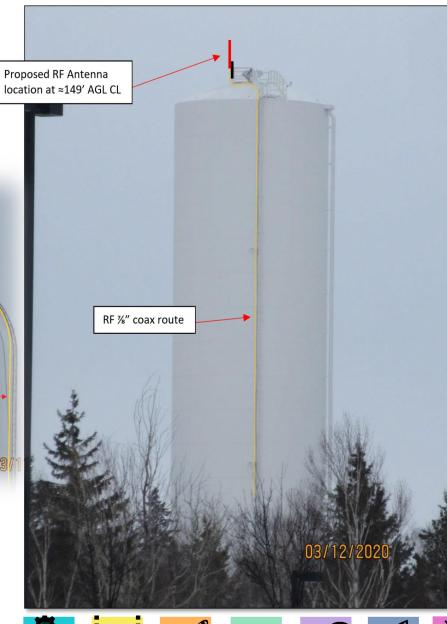




Data Collector Sites

Proposed Radio Frequency (RF) Antenna















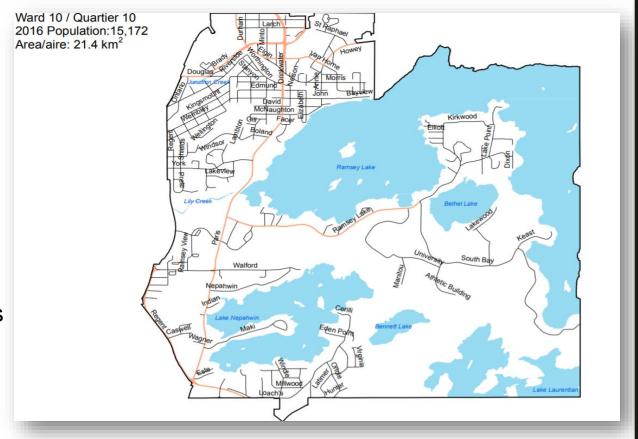




Proof of Concept

KTI has selected Ward 10:

- 1. AMI Network is already 100% deployed mitigates delay in areas where network is not available
- 2. Central location and contains a good cross section of property types, meter sizes and types of work that is representative of the total meter population
- 3. Close proximity to key support personnel to allow for close monitoring during key phase of the project roll-out



Ward	5/8"x3/4"	3/4"	1"	1.5"	2"	3"	4"	6"	8"	(blank)	Grand Total
10	3423		118	50	123	10	4	3		26	3757
Replace	3146		5		1					26	3178
Retrofit	127		74	17	49	6	3	2			278
Upgrade	150		39	33	73	4	1	1			301

















Public Engagement

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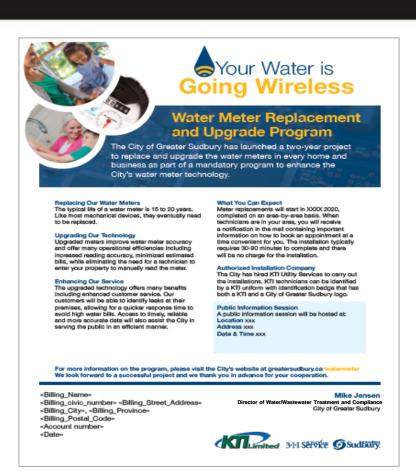




Public Engagement Components:

- Introductory Flyer
- Appointment Booklet
- Reminder Letter
- Door Tag
- Outbound Calls
- Final Notice
- Virtual Open House
- Social Media
- Website

























Impacts due to Covid

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COVID-19 Impacts

- 1. Project Scope
 - Additional Safety Requirements for Residential Entry
 - Virtual Open House for Public Outreach
- 2. Project Schedule
 - Project Completion end date may be impacted

















Project Scope – Safety Requirements



Before Entering

- Verifying wellness of homeowner
- Sanitation (hand washing, PPE, equipment)
- Strategies for minimizing time inside
- Donning PPE

Inside the Home

- Social distancing measures
- Surfaces encountered (light switches, handrails)
- Sanitation of workspace (pre/post)
- Signatures

Post

- Contact card left with H/O
- Doffing PPE
- Safe PPE Disposal

Appointment Scheduling

Wellness survey

Project Office

- Entry protocols and tracking
- Delivery protocols
- Office sanitation
- Field interaction protocols
- Monitoring wellness (start/end of day)
- Compliance monitoring
- **Safety Meetings**
- Inventory Distribution / Staggered times

Start of Day

- Health monitoring
- Pick up Inventory

Between Appointments

- Rest stops
- **Fueling**
- Vehicle sanitation

End of Day

- Verify health of technician
- Sanitation (PPE, equipment)
- Vehicle sanitation
- Clothing washing protocols

Emergency Preparedness

- Isolation measures
- Contact tracking



















Project Scope – Public Engagement to Assist with Covid Plan

- Inclusion of COVID-19 letter with introductory flyer mail-out
- Open House Adjustment to virtual format
- Social Media Strategy / Messaging
- Website

















Questions?

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