

Advanced Metering Program

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Agenda

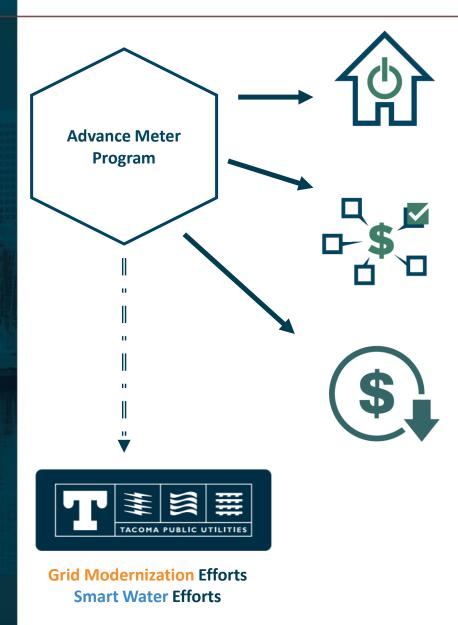
- Program Overview
- Quick Updates
- Deployment Progress
- MIV Lids Request





Advanced Metering: A Strategic Initiative





Foundational for Utility Modernization

- An essential building block of TPU
- A strategic focus for the past few years
- Will modernize TPU services

Delivers and Enables Benefits

- Monthly billing
- Automated meter reading
- Customer and TPU access to usage data
- Quicker outage and leak detection
- Data collection and input enabler
- PrePay residential electric customers

Low Customer Cost

The cost to individual customers remains relatively low, and is spread over ten years. Costs are already factored into current rates.

Beginning in 2019, the additional cost increase each year for the next ten years is about \$2.28/year for the average City of Tacoma residential power and water customer.

What is AMI?



Communications Network



Milestones and Highlights





\$2 million in Federal Grant Funding Awarded to TPU



53,959 Customers Converted to Monthly Billing



7,361 leaks identified and notifications sent to customers



49.7%

All Meters (P&W)
Installations Complete
≈145K of 293K Installed



12,900 + Remote Power Reconnects

13 Remote Disconnects for Fire Events (2023)



88.9%

Phase I & Phase III Radio Base Stations Installed

Macro Environment Disruptions



- 1. COVID-19 Pandemic
- 2. Meter Supply Chain Disruptions
- 3. Staffing Changes



Program Impacts

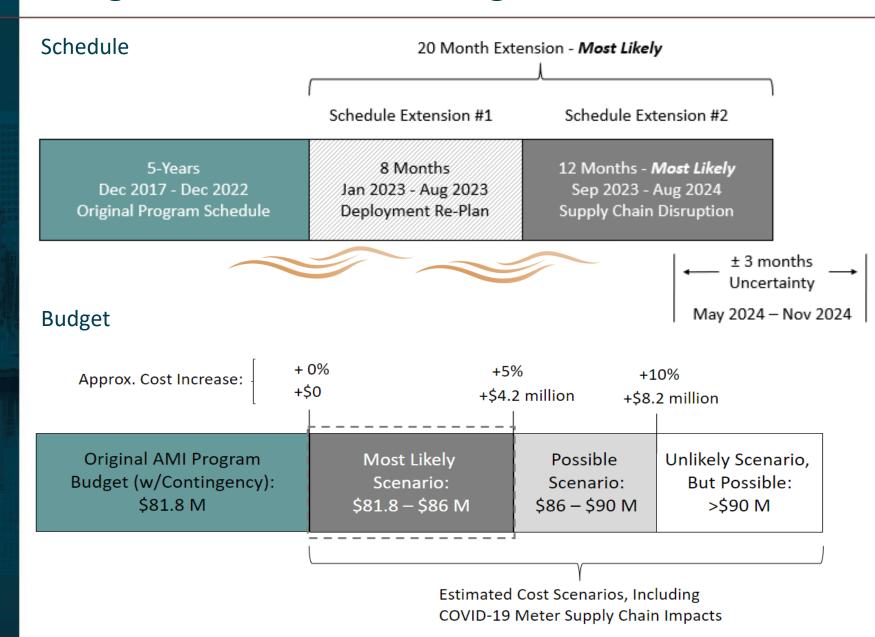
- Schedule extension
- Potential cost increase
- Customer communications plan modifications
- Resolution and agreement updates

Mitigation Strategy

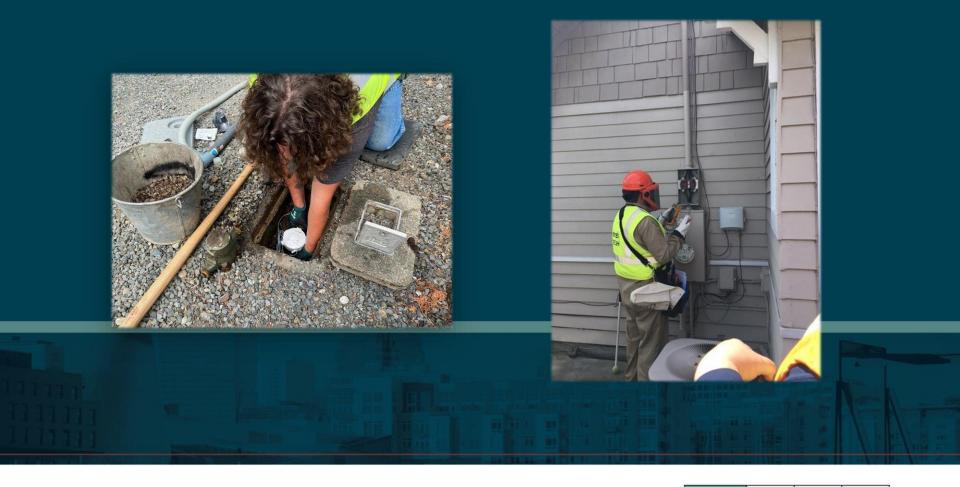
- Agile, optimized meter deployment planning
- Detailed inventory management
- Deliver customer benefits as soon as possible
- Pursue least cost alternatives

Program Schedule and Budget - 04/22





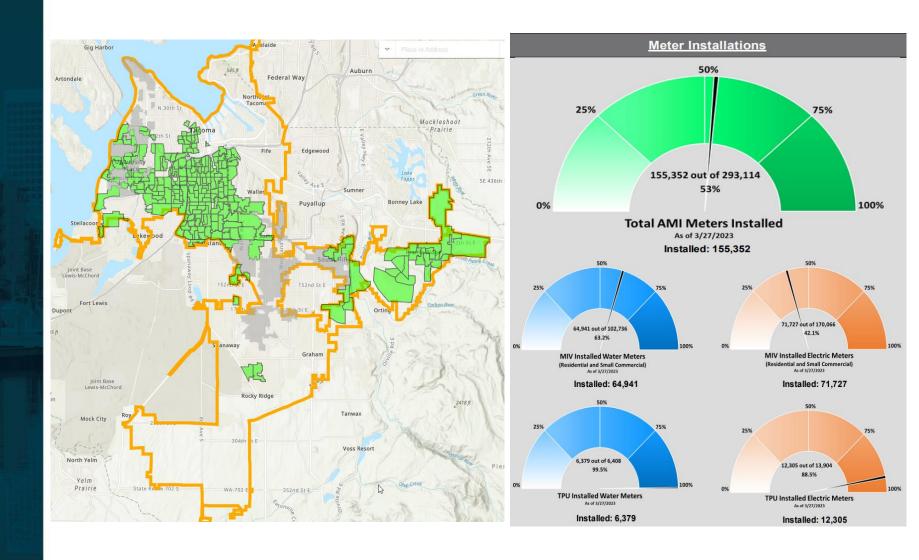
Deployment Progress





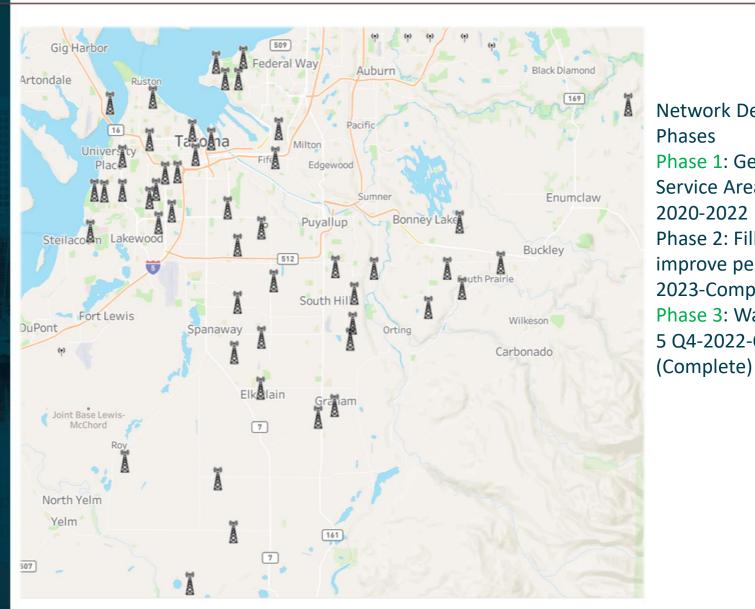
MIV Meter Deployment Progress





AMI Network Deployment

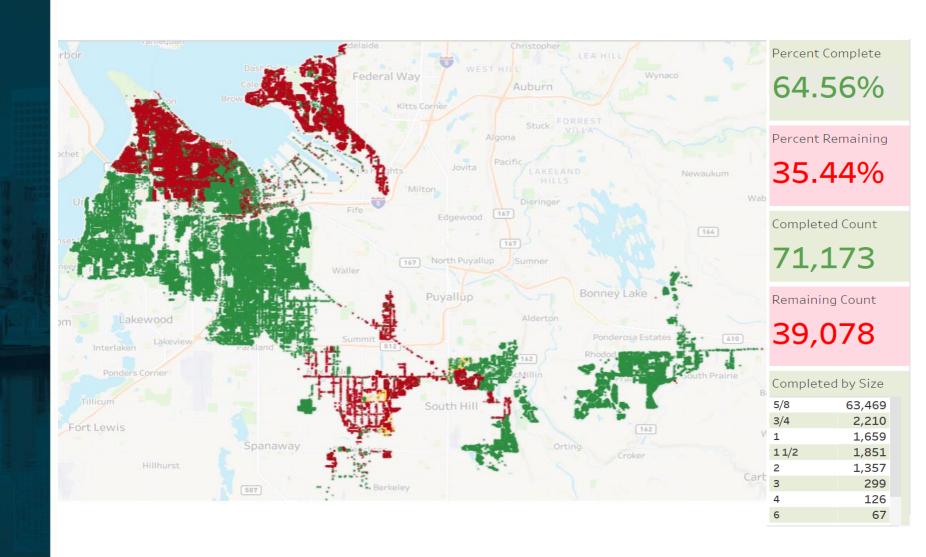




Network Deployment
Phases
Phase 1: General
Service Area coverage
2020-2022 (Complete)
Phase 2: Fill in to
improve performance
2023-Completion
Phase 3: Water Pipeline
5 Q4-2022-Q1-2023

Water AMI Deployment Progress Map





Water Service Line Grant & Loan Program



Number of Repairs Funded

16

Number of Grant Repairs

8

Average Repair Project Total

\$6,985

Appx. Feet of Main Replaced

730

Calculated Water Saved (GAL)

21,726,552

Total Repair Assistance Issued

\$107,490

Total Grant Funds Awarded

\$39,081

Total Deferred Loan Assistance

\$11,251

Total Standard Loan Assistance

\$57,157

New LIF Enrollments

4

New BCAP Enrollments

3

Total BCAP Savings to Customers

\$1,185

Number of Repairs by Zip Code



Total LIE Savings to Customers

\$2,184

Water Lid Amendment #2 Request



Request:

Requested Increase: \$189k **Quantity of Lids:** 4,500

Schedule: lead times increased from 6-8 to 35-38 weeks

Budgeted: Yes

Impact on AMI project: neutral/already included in forecast





Reason for amendment request: Procurement of final required quantities and material price increase allowed by Tacoma boiler plate contract. The pre-deployment water meter box survey returned ~10% of lid types as unknown/other. The final procurement quantities account for the unknown lid types to complete the project.

Risk if not approved: Pause to water AMI deployment near the end of the project, since the AMI lid houses the AMI module. Running out of lids would result in negative schedule and cost impacts to the project.

Water Lid Amendment # 2 Request		AMI Meter Box Lids Budget & Forecast	
Original Contract Value	\$1,988,182	Original AMI Project Lids Budget	\$4.17 M
Amendment # - Total Value	\$2,173,912	Current AMI Project Lids Forecast	\$3.06 M
Amendment #2 – Total Value	\$2,363,649	Total AMI Project Lids Forecast at project completion including Amendment #2	\$2.90 M

Questions?



Additional Information

- MyTPU.org/AdvancedMeters
 - Installation Video
 - Deployment Map
 - Program Fact Sheets
 - Program Timeline
 - FAQs Frequently Asked Questions
 - Public Process
 - Advanced Meter Policies







