



City of Palo Alto
Utilities Advisory Commission Staff Report

(ID # 11085)

Report Type:

Meeting Date: 3/5/2020

Summary Title: AMI and Fiber Planning Update and Discussion

Title: Discussion and Update of Advanced Metering Infrastructure (AMI) and Fiber Network Expansion Planning

From: City Manager

Lead Department: Utilities

Attached for UAC discussion is a PowerPoint presentation summarizing the high level scope of work and tentative timeline of the advanced metering infrastructure (AMI) and fiber network expansion projects.

Attachments:

- Attachment A: Presentation

Update and Discussion of AMI and Fiber Planning

Utilities Advisory Commission

March 5, 2020

AMI RFP Outline

- COMPONENT 1: AMI Network, electric meters, gas/water meter radios
- COMPONENT 2: Water Meters: Up to 8,600 replacements > 20 years old
- COMPONENT 3: Gas Meters: Up to 11,900 replacement > 30 years old
- COMPONENT 4: Installation Services (Electric, Gas and Water)
- COMPONENT 5: MDM software and interfaces to CIS, GIS, MyCPAU

AMI Tentative Timeline*

- Issue RFP: March 2020
- Proposal Deadline: June 2020
- Vendor Interviews: July - Sept 2020
- Contract Negotiations: Oct – Dec 2020
- Council Approval: Q1 2021
- Initial Installation and Software Interface Testing: 2021 - 2022
- Full Deployment: 2022 – 2024

*AMI Implementation timeline is highly dependent on CIS Implementation timeline.

Fiber Network Expansion

Scope of Work

- Phase 1: Planning and High Level Design for AMI, SCADA and internal Wireless Network
- Phase 2: Detailed Aerial and Underground Design; Construction Standards and Bid Package
- Phase 3: Fiber-to-the-Premise Business Case; Market and Needs Assessment; Financial Planning; Partnership Opportunities
- Phase 4: Detailed Aerial and Underground Design for FTTP; Construction Standards and Bid Package

Fiber Tentative Timeline*

- Contract Negotiations: Feb/Mar 2020
- Council Approval: Mar/Apr 2020
- Phase 1 (AMI, SCADA and Wireless Design): May-Aug 2020
- Phase 2 (AMI, SCADA and Wireless Construction Package): Sept 2020 – Mar 2021
- Phase 3 (FTTP Business Case, Market Assessment, Financial Plan, Partnership): Apr 2021 – Sep 2021
- Phase 4 (FTTP Design and Construction Package): Oct 2021 – Sep 2022

* Each phase must be approved by Council before City proceeds with the next phase.