



## ADVANCED METER PROGRAM: CELLULAR MODEMS

Riverside Public Utilities

Board of Public Utilities  
February 10, 2020

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## BACKGROUND

1. January 28, 2019 – RPU Board approved Agreements with Tantalus Systems and SmartWorks for Electric Advanced Meter System and Meter Data Management System respectively and the first phase of AMI project
2. October 28, 2019 – RPU Board approved the second phase of AMI project, the Beta Proof-of-Concept

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## DISCUSSION

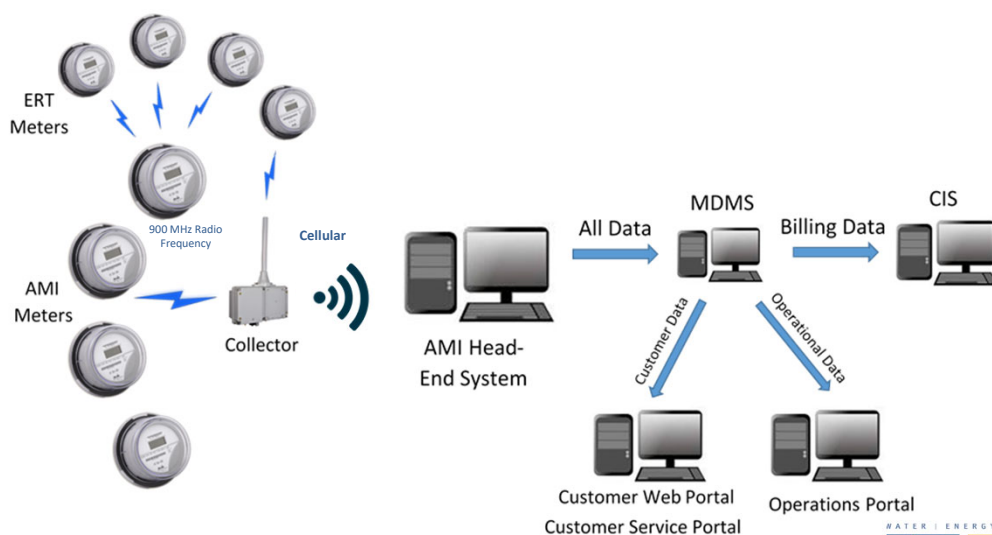
1. First steps in Beta Proof-of-Concept are:
  - a) Install all remaining communication devices (collectors and repeaters) throughout RPU's service area
  - b) Install approximately 1,000 additional AMI meters
2. AMI meters communicate to collectors through 900 MHz radio frequency, and from collector to AMI HES through AT&T PCN
3. Cellular modems and antennas are installed in collectors to facilitate communication between collector and HES

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## HIGH-LEVEL SYSTEM DIAGRAM



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## CELLULAR MODEMS

1. Based on propagation study, project requires 84 collectors to cover RPU's service territory
2. Board approval is requested for purchase of 90 cellular modems from AT&T, which includes:
  - a) Six (6) spares to hold in inventory
  - b) Associated equipment
  - c) Monthly service fee for the 84 active modems for a term of one year

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## PROCUREMENT

1. Recommendations is to purchase from AT&T through NASPO ValuePoint Cooperative Purchasing Agreement MA149-1
2. NASPO multi-state cooperative purchasing program provides pre-negotiated discounts to participating agencies
3. City Purchasing Manager concurs that the recommendation is in compliance with Purchasing Resolution No. 23256, Section 702 (e)

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## FISCAL IMPACT

1. Fiscal impact of purchase from AT&T is \$116,962.21
2. Funds were approved in project budget and are available in Public Utilities Advanced Metering Infrastructure Account No. 6130200-470823
3. Sufficient funds for annual service fee will be included during budget preparation for future budget cycles

## RECOMMENDATION

That the Board of Public Utilities approve the purchase of 90 Cradlepoint cellular modems, associated equipment, and monthly cellular service fees for one year, with AT&T for Advanced Meter Infrastructure collectors, in the amount of \$116,962.21.