

ameresco.com

# City of Rollingwood

Meter Replacements & Automated Metering Infrastructure

September 2023

# **Current Challenges**

Aging Infrastructure

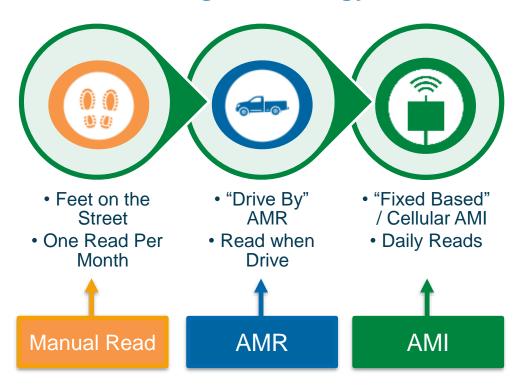
Manual Meter Reading

Operational Inefficiencies

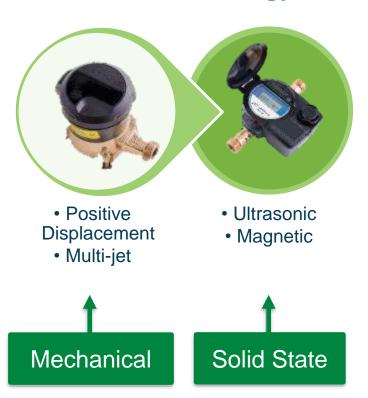
Lack of Data Transparency

# Water Meter History

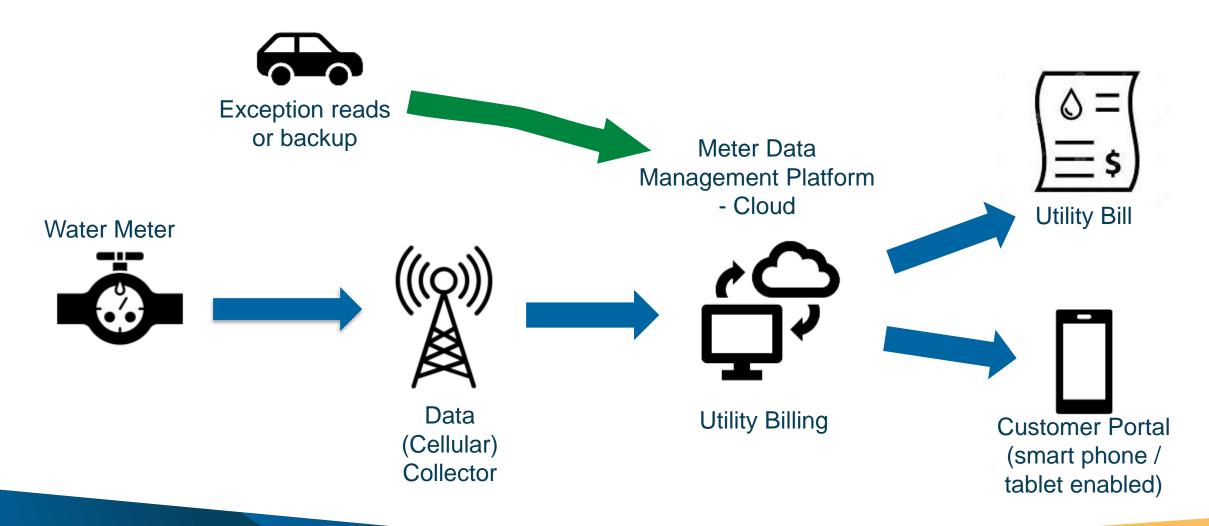
#### **Reading Technology**



#### **Meter Technology**



## Potential Solution = Advanced Metering Infrastructure



Goal = Enhance Customer Experience

**Allow Citizens to** have transparent access to consumption information, leak detection, high usage alerts, historical patterns, and bill predictions all using a web portal or mobile device.



Customer Portal provides personalized water use information and tips



Alerts can be sent in all channels (print, email, voice, text)





Water Reports, Customer Letters, & Print Leak Alerts drive customers to the Portal



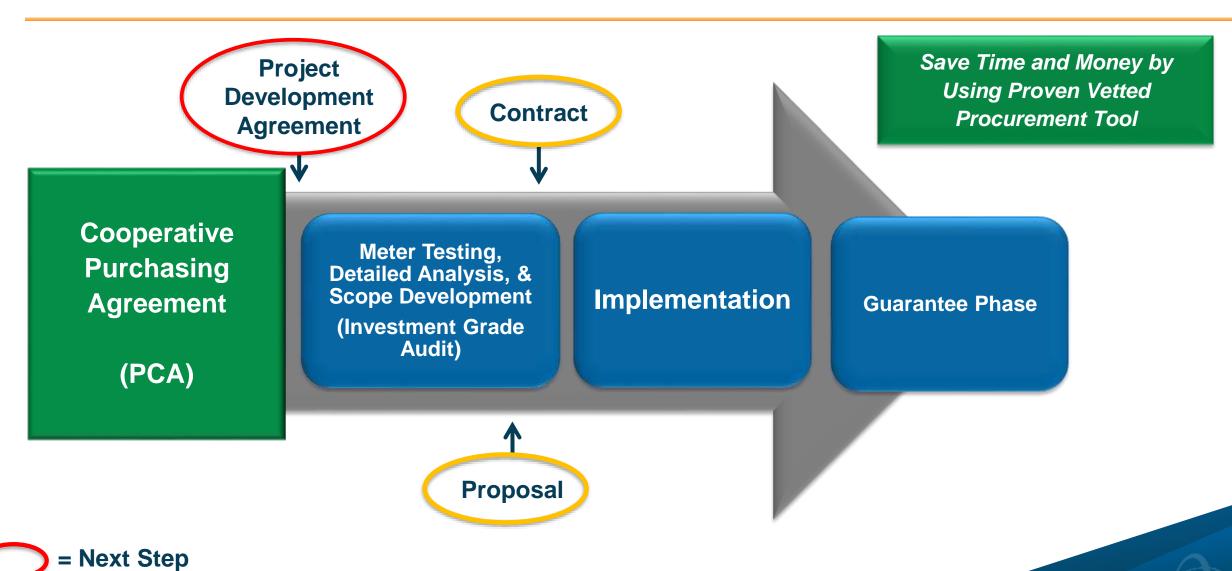
Leak Resolution & Bill Explainer help customers to resolve common issues online



Solution for Procurement & Implementation

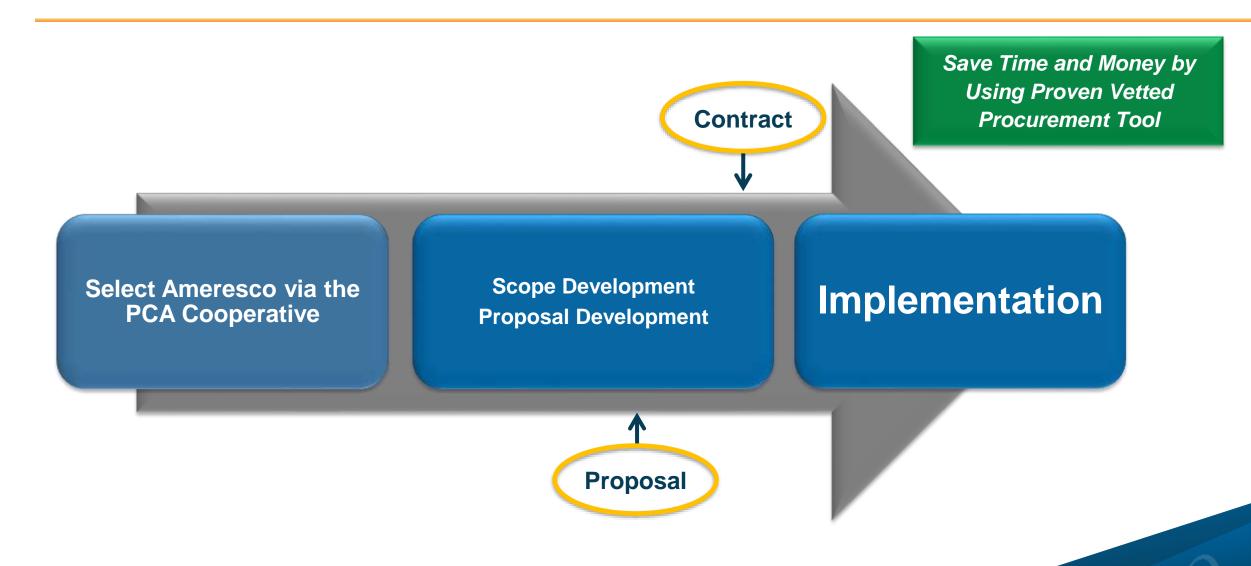


### Process – Local Govt Code 302



= Future Decision Step

### Process – CO-OP Selection



# Project Deliverables from Ameresco

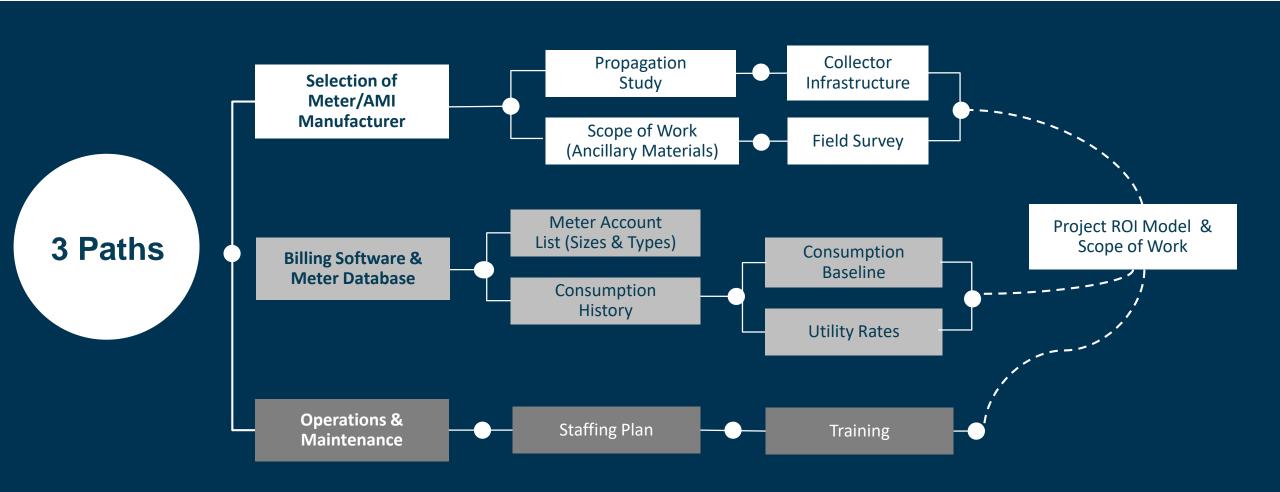
Assist in Selecting
Best Value
Equipment &
Technology

Provide Turn-Key Firm Fixed Project Price Accurate & Complete Scope of Work

Create Citizen Engagement Strategy Minimize Day to Day Operations & Service Disruptions Onsite Project
Management for
Implementation &
Data Integration

And its Guaranteed!

#### Development Process – Meters/AMI





# Review of Data Analysis

- Reconciliation of Missing Data Points (Size, Account #)
- Duplicate Accounts / Inactive Accounts
- Zero Read Accounts
- Largest Consumers
- Data Anomalies (Excessive Usage)
- Monthly Consumption Comparison with Weather Data
- Consumption Analysis by Meter Size
- Meter Size and Rate Analysis

Acct_Num	Serv_Loc	Fee_Desc	Meter_Num	Transponder_Num	Meter_Siz
1-000978-00	1300 LEE ST (YACHT BASIN)	Readiness to Serve Sewer	06567411H	B1429743	6
1-000978-00	1300 LEE ST (YACHT BASIN)	Non-Containenzed Refuse	06567411L	81429504	6
1-001255-00	2442 DR MARTIN LUTHER KING BLVD	Readiness to Serve Sewer	09060737H	82297180	3
1-001255-00	2442 DR MARTIN LUTHER KING BLVD	Utility Tax	09060737L	82290712	3
1-001475-00	2210 WIDMAN WAY	Readiness to Seive Sewer	08187889H	81436642	3
1-001475-00	2210 WIDMAN WAY	Readiness to Serve Water - Inside	08187889L	81436643	3
1-001560-00	4003 CLEVELAND AVE	Readiness to Serve Sewer	08000993H	80632614	4
1-001560-00	4003 CLEVELAND AVE	Utility Tax	08000993L	80905294	4
1-002046-00	1915 HALGRIM AVE	Readiness to Serve Sewer	08000997L	80724786	4
-002046-00	1915 HALGRIM AVE	Readiness to Serve Water - Inside	08000997H	80676589	4
1-002125-00	3850 FOWLER ST	Dumpster 6 yd	0B187547H	81436648	3
1-002125-00	3850 FOWLER ST	Readiness to Serve Sewer	08187547L	81151234	3
1-002161-04	4400 FOWLER ST	Readiness to Serve Sewer	08032295H	80815555	3
1-002161-04	4400 FOWLER ST	Utility Tax	08032295L	80815545	3
-002368-05	4040 PRINCETON ST	Readiness to Serve Sewer	08188515H	81375115	3
-002368-05	4040 PRINCETON ST	Utility Tax	08188515L	81435583	3
1-002483-00	5200 CEDARBEND DR	Dumpster 6 yd	08034996L	80980292	8
1-002483-00	5200 CEDARBEND DR	Utility Tax	08034996H	80980308	8
1-003212-02	4125 CLEVELAND AVE STE 905	Readiness to Serve Sewer	08000982L	80919949	3
1-003212-02	4125 CLEVELAND AVE STE 905	Utility Tax	08000982H	80848902	3
1-003322-02	6317 SUMMERLIN RD	Readiness to Seive Sewer	08000815L	80632599	3
1-003322-02	6317 SUMMERLIN RD	Utility Tax	08000615H	80632609	3
1-003326-02	6305 SUMMERLIN RD	Readiness to Serve Sewer	08000814H	80632561	3
1-003326-02	5305 SUMMERUN RD	Utility Tax	08000814L	80623416	3
1-003333-01	501 VAN BUREN ST	fee code converted	08187888H	81436677	3
1-003333-01	501 VAN BUREN ST	Readiness to Serve Sewer	08187B88L	81436656	3
1-003374-00	1501 RALEIGH ST	Readiness to Serie Water - Inside	08184339H	85462759	6
1-003374-00	1501 RALEIGH ST	Compactor Dumpster 2 yd	08184339L	85409716	6
1-003633-02	4212 DESOTO AVE	Readiness to Serve Sewer	08000966H	80632544	3
1-003633-03	4212 DESOTO AVE	Readiness to Serve Water - Inside	080009561	80632585	3
1-003765-02	4703 4785 BARKLEY CIR	Readiness to Serve Sewer	08187890H	81435550	3
-003765-04	4703 4785 BARKLEY CIR	Readiness to Serve Sewer	08187890L	81436652	3
1-005455-02	4400 FORD STREET EXT	fee code converted	08032302H	80815114	3
1-005455-03	4400 FORD STREET EXT	Readiness to Serve Sewer	08032302L	80815553	3
1-005980-00	0 UNION/VICTORIA/JACKSON	Readiness to Serve Sewer	09050228H	81894404	4
-005980-00	0 UNION/VICTORIA/JACKSON	Readiness to Serve Water - Inside	090502281	81894414	4
1-005986-00	2980 EDISON AVE	Readiness to Serve Water - Inside	08000805H	80676128	4
1-005986-00	2980 EDISON AVE	Billed elsewhere	08000805L	80676135	4

Data Management is the Key to Success!

# Field Survey/Meter Audit

- Replacement or Retrofit?
  - Based on Data/Testing
- Random Field Survey
  - Right Type & Right Size
  - Right Application
- Field Survey of Meters
  - 3" and Larger Water Meters
- Field Survey for Ancillary Materials
  - Boxes/Lids/Vaults
  - Curb Stops/Valves/Pipes
  - Pipe Types





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# Ameresco Texas Experience in AMI/AMR









































# Thank You!

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