



# Miami-Dade Water and Sewer Department Capital Improvement Program

Presolicitation Meeting Turn-Key Implementation Advanced Metering Infrastructure **August 26, 2022**



# Goals

- ✓ Successful **Water AMI** Implementation – We Succeed or Fail Together!
- ✓ Improved Customer Experience
- ✓ Seamless Integration
- ✓ Improved Cashflow
- ✓ Real Time (or close to) Data
- ✓ Partnership – AMI is a long-term commitment



# A few differentiators from other AMI's

- ✓ Turn-Key
- ✓ NaaS & SaaS
- ✓ Meter Agnostic
- ✓ Collect 99% of reads over 72 hours
- ✓ Greater than 2:1 endpoint over entire system & minimum of 2:1 endpoint on every single endpoint
- ✓ No Force Majeure related to supply chain or pandemic issues
- ✓ Proof of Concept – Minimum Two Billing Cycles (6 Months)

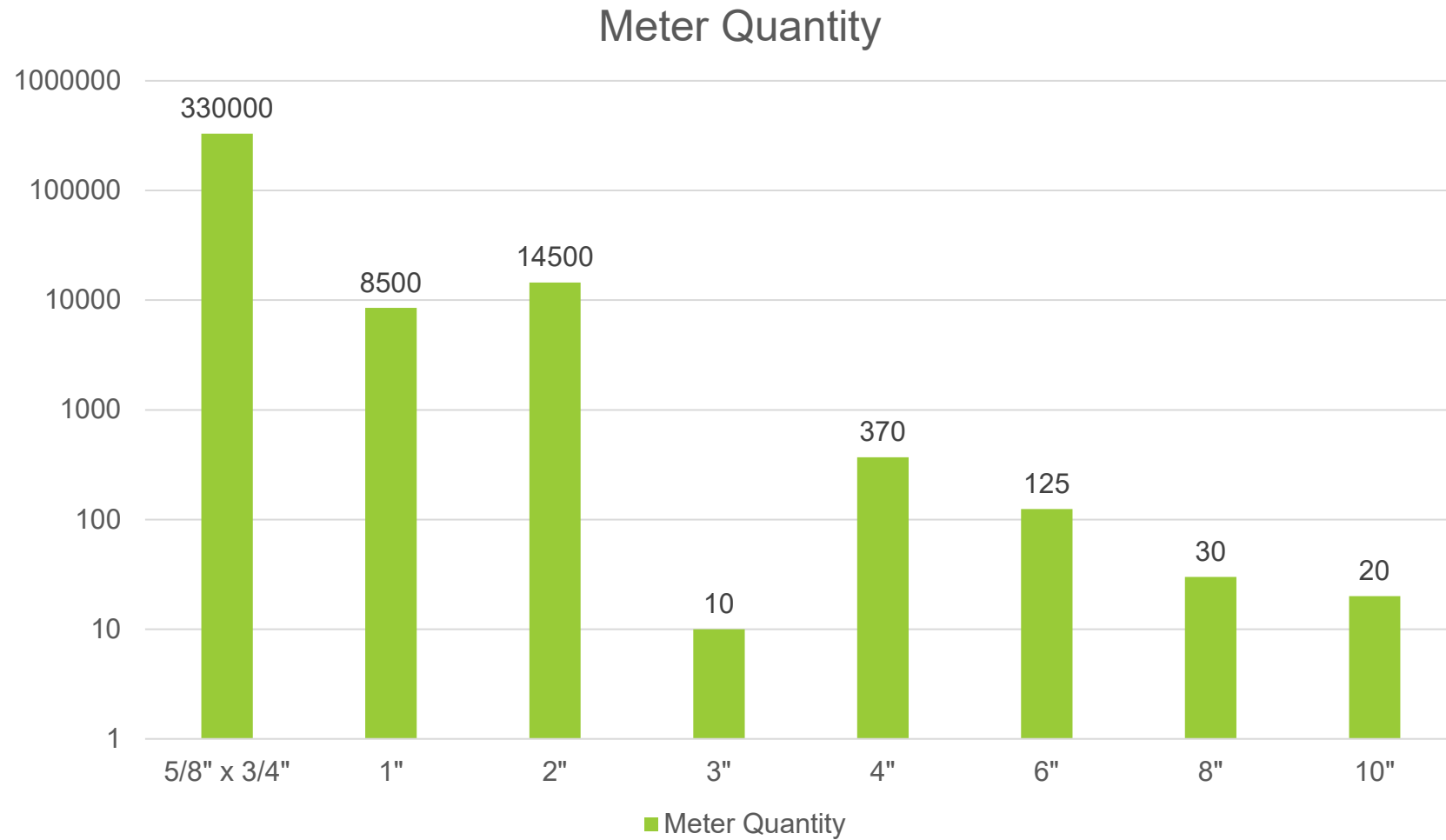


# Approved Meters

Manufacturer	Model	Sizes
Badger	E-Series	5/8"x3/4" – 10"
Honeywell (Elster)	EvoQ4	2" – 10"
Master Meter	Sonata	5/8"x3/4" – 1"
	Octave	2" – 10"
Neptune	Mach10	5/8"x3/4" – 10"
Sensus	iPERL	5/8"x3/4" – 1"
	Omni C2/T2	2" – 10"
Zenner	Stealth (ZSU)	5/8x3/4" – 10"



# Meter Distribution



# Register Interoperability

- ✓ Estimated Registers to be Retrofit:
  - ✓ Badger Recordall M-25 HRE Register (5/8x3/4"): 115,000
  - ✓ Badger Recordall M-55 HRE Register (1"): 5,000
  - ✓ Badger Recordall M-120 HRE Register (1.5"): 3,000
  - ✓ Badger Recordall M-160 HRE Register (2"): 4,000



Register Interoperability	
Manufacturer	Register model
Badger	ADE
Badger	E-Series
Badger	HRE
Hersey	Translator
Kamstrup	FlowIQ
Master Meter	AccuLinx
Metron	OER
Neptune	E-coder
Neptune	Pro-read
Performance	ETR
Sensus	E-Register+
Sensus	iPerl



# End Points & Network

- ✓ Two-Way Communication
  - ✓ Tamper Alert or Meter disconnected
  - ✓ Bad Read or Communications Failure
  - ✓ Leak (Continuous Usage) Detected
  - ✓ Reverse Flow/Backflow
  - ✓ High Flow Rate Detected – Specifics set in host software
  - ✓ Battery Health
- ✓ Be capable of changing read interval sampling or have standard 15 - minute interval sampling



# Installation

- ✓ Field Service Software & Utility Portal
- ✓ Coordination with Owner's Representative
- ✓ Data Integrity
- ✓ Inventory Management
- ✓ Public Relations
- ✓ Acceptance Testing





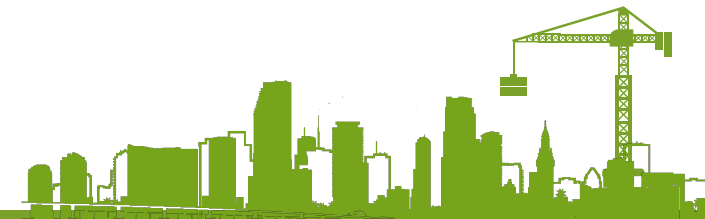
# Deployment Timeline

Phase	Duration	Description
0	Six Months	<ul style="list-style-type: none"><li>• Project start-up</li><li>• AMI network installation</li><li>• Billing and other system integrations</li><li>• Employee training</li><li>• 10,000 endpoint initial deployment</li><li>• Preliminary acceptance</li></ul>
1	1 Year	<ul style="list-style-type: none"><li>• Deploy 100,000 endpoint</li></ul>
2	1 Year	<ul style="list-style-type: none"><li>• Deploy 100,000 endpoint</li></ul>
3	1 Year	<ul style="list-style-type: none"><li>• Deploy 100,000 endpoint</li></ul>
4	1 Year	<ul style="list-style-type: none"><li>• Deploy 100,000 endpoint</li></ul>
5	1 ½ Years	<ul style="list-style-type: none"><li>• Deploy remaining meters</li><li>• Project close-out and final acceptance</li></ul>



# NaaS & SaaS

- ✓ Explain specific Network Backhaul for this deployment
- ✓ Point to Multipoint & Cellular Options Only
- ✓ Provide experience with Emergency Response
- ✓ Disclose SaaS uptime guarantee
- ✓ Disclose SaaS Provider (AWS vs AWS Gov; Private Data Center, etc.)





# Approach & Understanding

- ✓ Answer the Mail – Respond to the items in the RFP section
- ✓ Discuss Emergency Response Strategy
- ✓ Provide a Cellular Coverage or Propagation Study – Showing 2:1 minimum redundancy for each endpoint & greater than 2:1 on average over the network.
- ✓ Discuss Warranty terms
- ✓ Provide Integration Plan, QA/QC Plan, Public Communications Plan, and Discuss Change Management



# Customer Focus

- ✓ Get Customer Buy-In is a Must!
- ✓ Strict Storage Policy – Minimum one (1) billing cycle
- ✓ Robust Field Service Platform Required
- ✓ Customer Engagement Portal Must be Part of Proposal



# Experience & Quals

- ✓ 2 million units of proposed technology deployed and in use
- ✓ Three (3) contracts within past five (5) years of 100,000 endpoints for the same solution proposed for this solicitation
- ✓ Three (3) contracts within past five (5) years of 50,000 endpoints for the same solution proposed for this solicitation in a coastal, high urban density, high heat, pit-set, and humid environment
- ✓ Three (3) contracts within past five (5) years of 50,000 endpoints for the same solution proposed for this solicitation of a Turn-Key AMI



# Owner's Representative

- ✓ Serve as Owner's Representative
- ✓ Provide Field Observations & Oversight
- ✓ Coordinate Change Management Effort
- ✓ Facilitate Public Information
- ✓ Supervise Implementation & ensure adequacy



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Questions?

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**Thank You!**

