

PLACER COUNTY WATER AGENCY

RWEPAC HOST PRESENTATION

NOVEMBER 12, 2024



OVERVIEW

PCWA-AT-A-GLANCE

OVERVIEW OF WATER EFFICIENCY

DIVISION ROLES

PCWA METERS

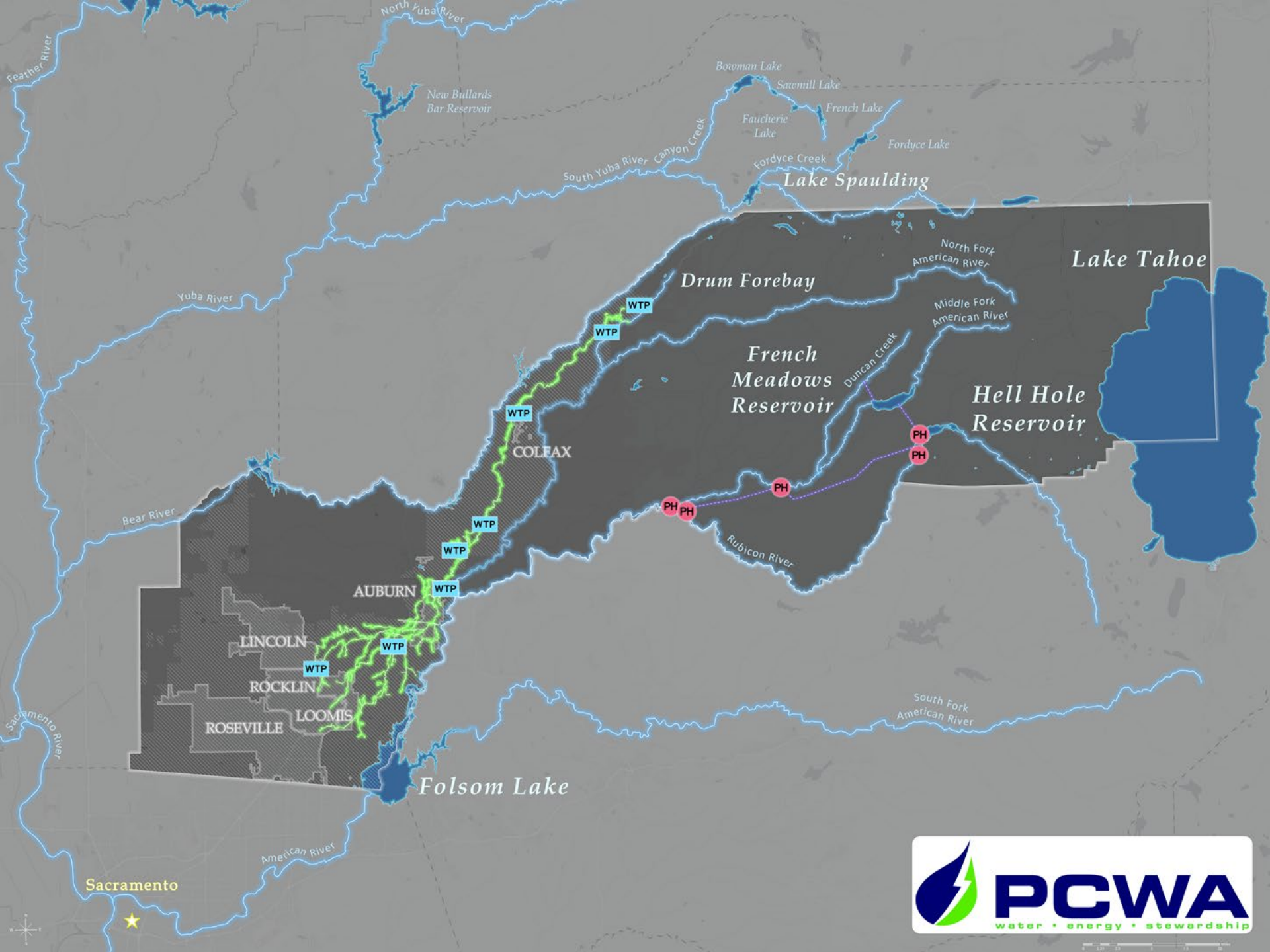
METER REPLACEMENT STUDY FINDINGS

ENDPOINT FAILURE

REBATES OVERVIEW

LOOMIS DEMONSTRATION GARDEN

PARTNERSHIP



Sacramento





PCWA AT-A-GLANCE



343,000
acre-feet of reservoir
storage capacity



236,900
acre-feet of water delivery
capacity



44,000+
customers provided with
water service



1957
the year the Agency was
created



1,500
square miles of
service area



646
miles of treated water
pipeline



223.75
megawatts of installed
generation capacity



170
miles of canal



9
water treatment plants
delivering safe drinking water

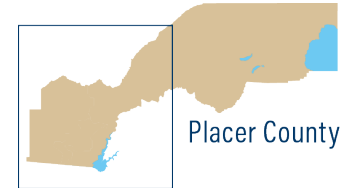
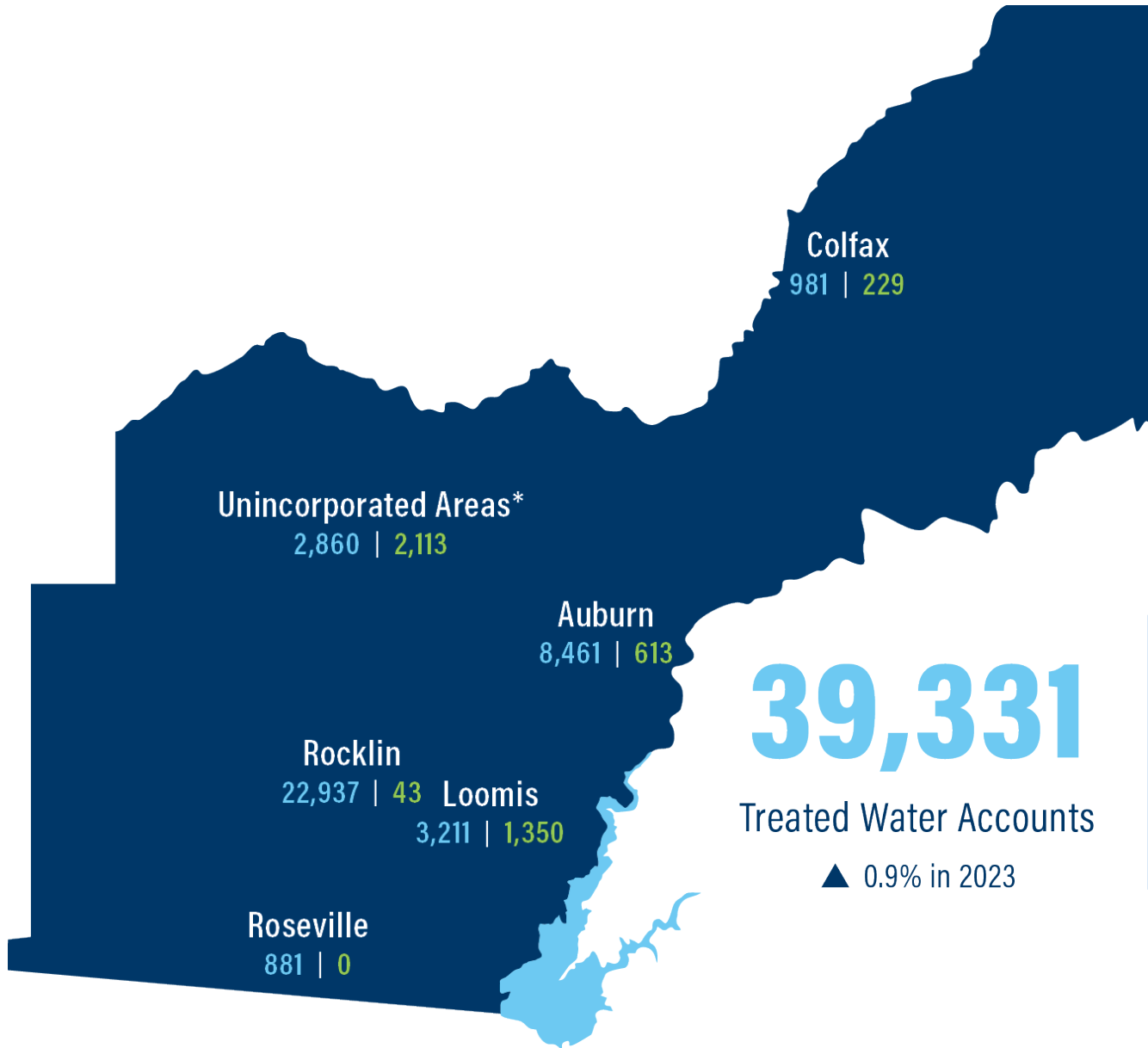


5
powerhouses supplying clean
hydroelectric energy to the CA grid



5
member Board of Directors, elected by the people
of Placer County, and serving 4-year terms

PCWA-AT-A- GLANCE



***Unincorporated Areas include:**

- Alta
- Applegate
- Dutch Flat
- Gold Run
- Granite Bay
- Lincoln
- Meadow Vista
- Newcastle
- Penryn
- Weimar

39,331
Treated Water Accounts
▲ 0.9% in 2023

4,348
Untreated Water Accounts
▼ -0.7% in 2023



Agency Meters

Nearly **40,000** treated water meters

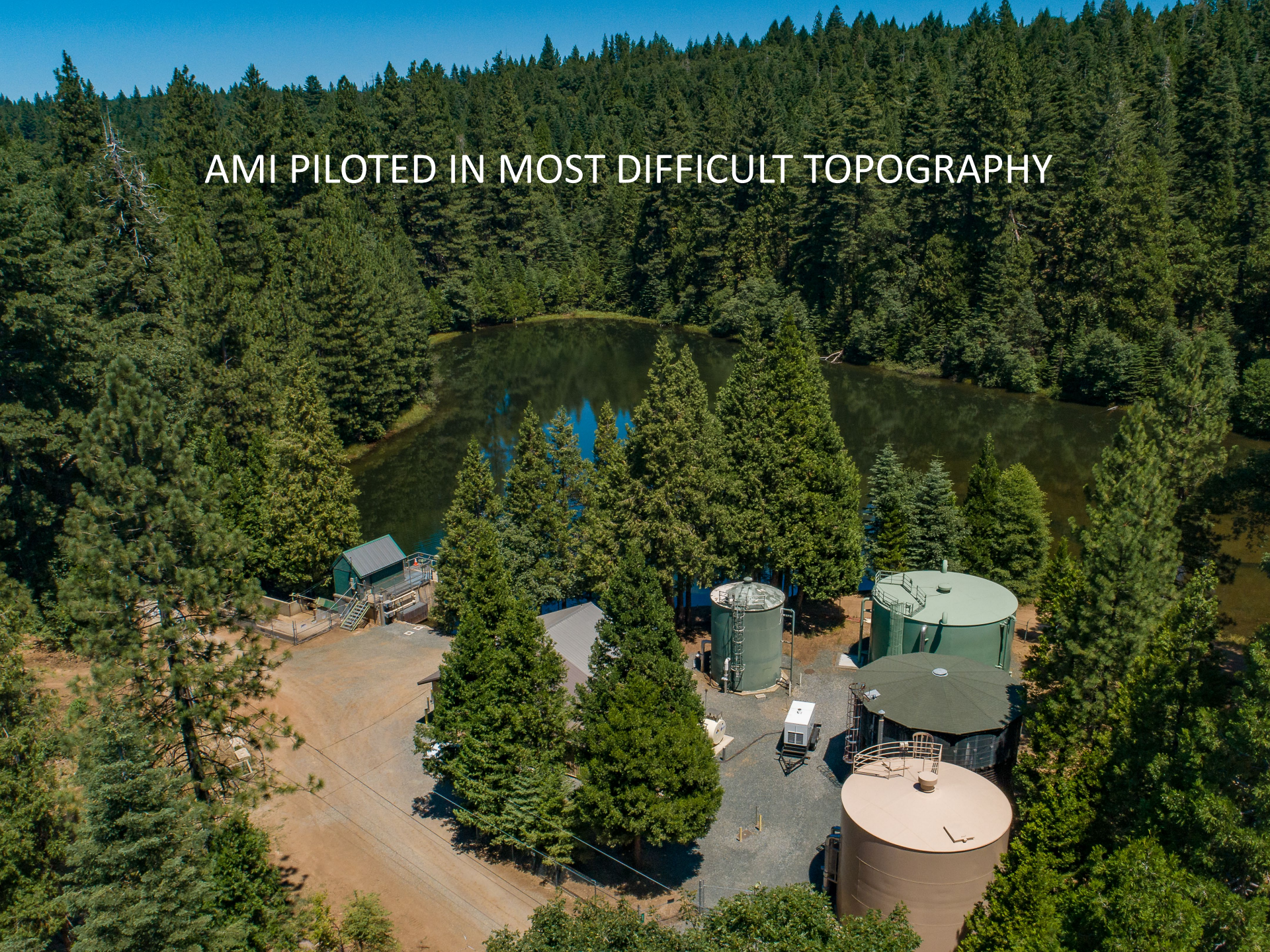


97% of meters are small meters (sizes 5/8", 3/4", 1")



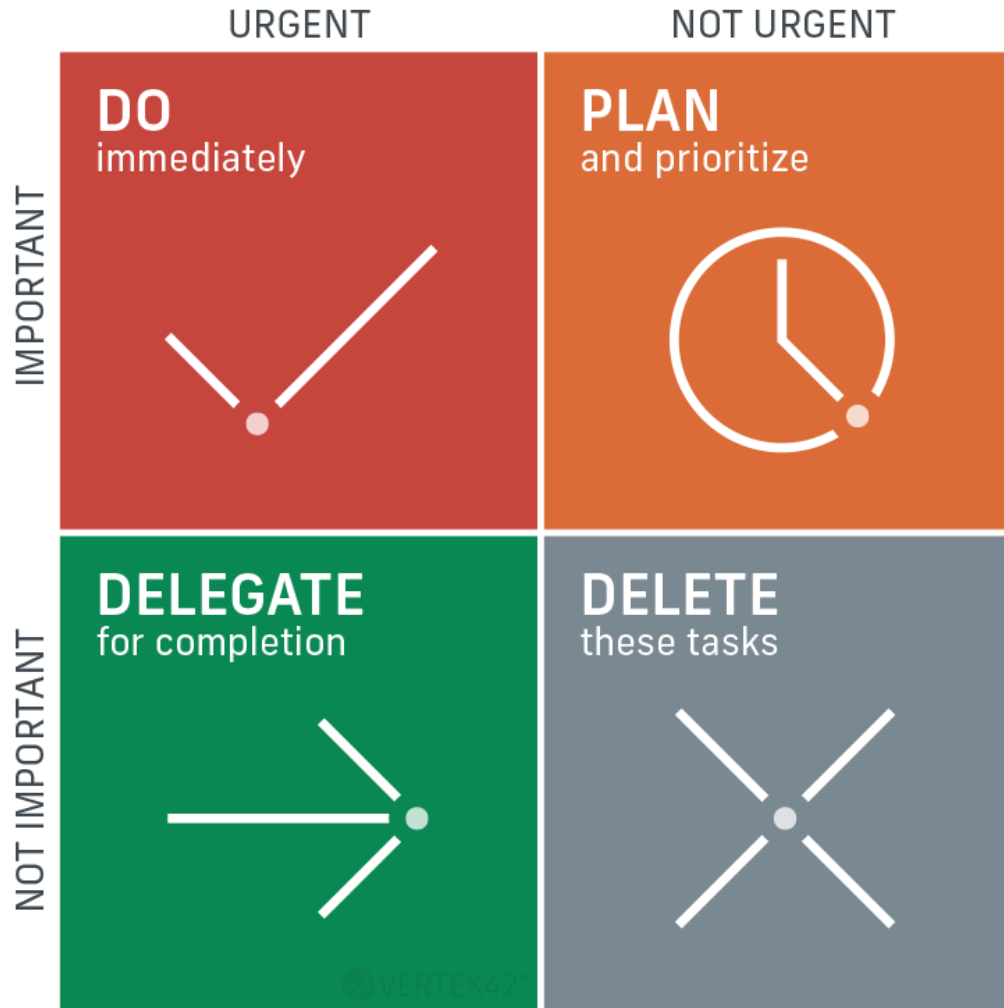
3% Intermediate/large meters are tested and rebuilt on scheduled intervals (sizes 1 1/2", 2" and 3", 4", 6", 8")

AMI PILOTED IN MOST DIFFICULT TOPOGRAPHY



OUR JOURNEY ON ADDRESSING METER REPLACEMENT

THE EISENHOWER MATRIX



WHEN IS OPTIMAL FOR METER REPLACEMENT

Depends on cost of replacement and potential revenue loss due to inaccurate reads

Data we have:

- Age of meters
- Consumption of water through the meter
- Amount billed by consumption
- Meter reading Cycle and routes
- Meter costs
- Customer category

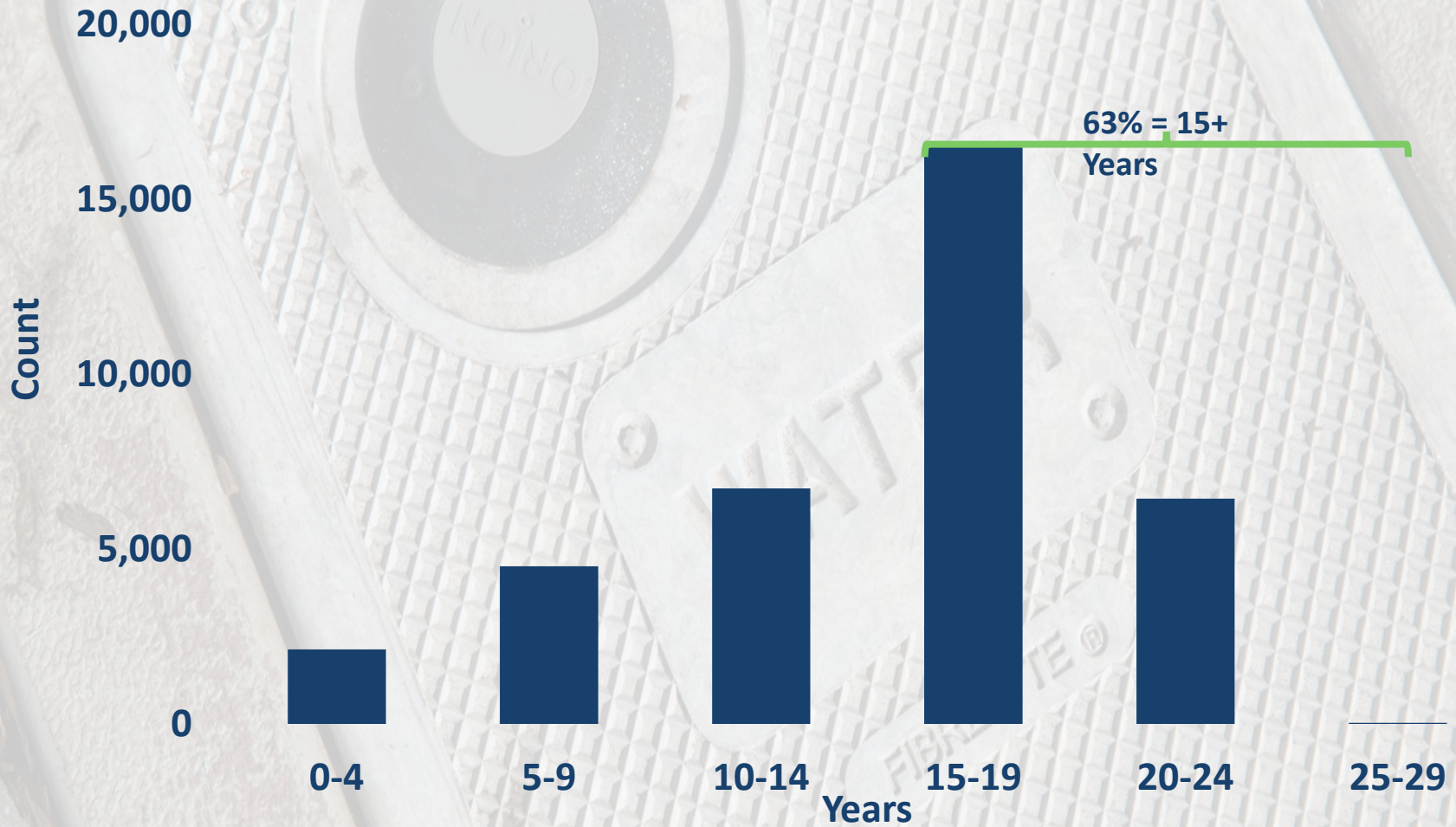
Data we need (identified in this analysis):

- Accuracy information of random sample of small meters
- More accuracy information of tested large meters based on revenue profile



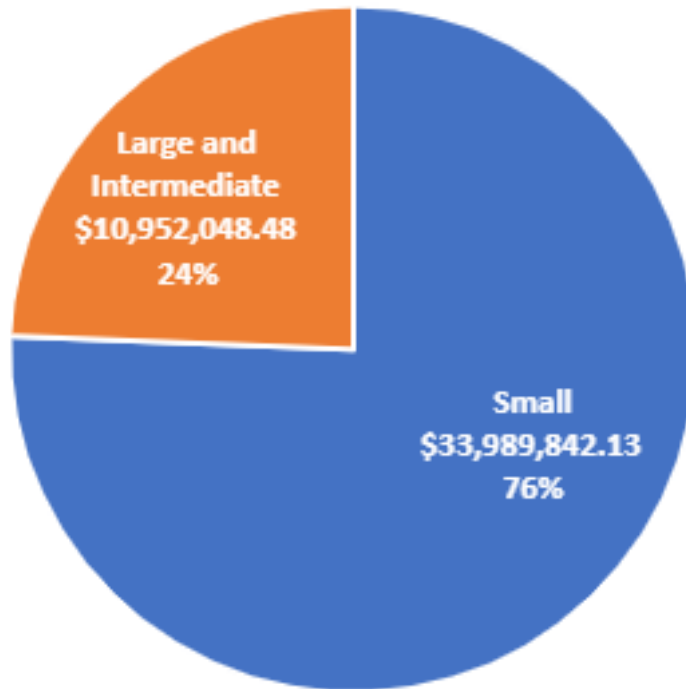
Treated Water Meter Age

Small, Intermediate, and Large Meters



REVENUE OF SMALL AND LARGE METERS

2022 Revenue Comparison by Meter Size
(Small Meters vs. Large/Intermediate Meters)



Of \$44 million

- More than \$33 million from 36,000 small meters
- More than \$10 million from 1,100 larger meters

QUADRANT 1: URGENT IMPORTANT CRISIS HITS

END POINT FAILURE – 5 YEAR AVERAGE WAS 90 PER MONTH

2024 Crisis Building

Month	Failed Endpoint Count	Total Failed Endpoints
Jan	264	264
Feb	256	520
Mar	202	722
Apr	266	988
May	272	1,260
Jun	267	1,527
Jul	493	2,020
Aug	417	2,437
Sep	298	2,735
Oct 17	290	3,025
Average	304	

Challenges/Actions Taken

- Endpoint connectors and Register Connectors – not matching up – Nicor vs Itron
- More failures than capacity to keep up
- Maximized use of Reading Software
- Increased people reading
- Utilizing temporary staff to manually read
- Pivoted Meter Retrofit CIP \$\$ to AMI endpoints

LAWN REPLACEMENT REBATE

Before



After



WATER EFFICIENCY REBATES 2021-2023

Rebate Type	Amount Rebated to Customers			% change 2023 to 2022
	2021	2022	2023	
High Efficiency Toilet (HET)/Urinal Rebate	\$14,611	\$9,657	\$2,750	-72%
High Efficiency Clothes Washing (HEW) Machine Rebate	\$15,900	\$11,250	\$10,950	-3%
Lawn replacement Rebate	\$67,127	\$86,665	\$53,244	-39%
Irrigation Efficiencies Rebate	\$37,677	\$23,855	\$12,572	-47%
Pool Cover Rebate	\$700	\$700	\$300	-57%
Smart Controller Rebate	\$13,557	\$32,019	\$26,194	-18%
Untreated Water Tank Rebate		\$2,500	\$14,747	490%
Water Leak Rebate – <i>Prop 1 funded</i>			\$17,528	New in 2023
Total:	\$149,572	\$166,646	\$138,285	-17%

LAWN REPLACEMENT REBATE

Before



After



LAWN REPLACEMENT REBATE

Before



After



Reflection 2022 & 2023

	<i>2022 (pilot)</i>	<i>2023</i>
Applications	26	53
Completed Rebates	10	19
Average Property Size	6 acres	8 acres
Average Tank Cost	\$1,800	\$1,605
Average cost per/gal (Tank)	\$0.96	\$0.74



QUESTIONS?