City of Salem Water/Wastewater Task Force 2024-2025

> Public Works Department July 11, 2024

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Extension of Emergency Utility Assistance Program

MEETING AGENDA

Resiliency Update

Future Capital Needs

Extension of Emergency Utility Assistance Program

Water/Wastewater Task Force

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Assistance Available to Customers

- Payment Arrangements
 - Utility Customer Care team at 503-588-6099
- Utility Rate Relief Program (on-going monthly)
 - Discount on Wastewater Base Fee
 - Qualified by Mid Willamette Valley Community Action Agency
 - Credit applied to bill
- Emergency Utility Assistance Program (up to \$500 per year)
 - Qualified on site by partner agencies
 - Pre-qualification Criteria

Utility Rate Relief Program

- 60% monthly discount on Wastewater Base Fee
 Elderly (over 60) or Disabled Head of Household
 At or below 60% of Median Income
- Applied to utility bill
 \$18.38 * 0.6 = \$11.03 Inside City
 \$19.99 * 0.6 = \$12.00 Outside City
- 935 Participants Inside and Outside City
- Foregone revenue = \$126,000 annually

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CITY OF Sale	em
	YOUR SERVICE
	700K SERVICE
Utility Bill E	stimator
Account Class:	Residential
Wastewater Volume:	5.5
Stormwater Area	2,800
Water Meter Size:	5/8"
Consumption Units	8
RETAIL	
Bill Estimates	2024
Water	
Volume	\$24.16
Base Fee	\$12.90
Wastewater	
Volume	\$22.50
Base Fee	\$18.38
Stormwater	
Impervious Area	\$7.49
Base Fee	\$13.22
Backflow	93
Franchise Fee	\$4.93

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Emergency Utility Assistance Program

History

- Developed over 14 years ago
- Originally funded entirely with donations
- 2016 \$150 max/account, funded by donations, up to \$10,000 match from utility revenue
- 2020 \$500 max/account, \$500,000 one-time utility revenue allocation and donations
- 2022 \$500 max/account, up to \$300,000 annually from utility revenue and donations
- 2023 Federal program ended after 22 months; average assistance \$300/account

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Emergency Utility Assistance Program Combined Emergency Utility Assistance and Federal Funding

Year		Funding	Customers	Average
2019		\$ 27,013.95	297	\$ 90.96
2020		\$ 71,611.76	495	\$144.67
2021		\$229,393.36	1716	\$133.68
2022	(1)	\$481,566.00	2659	\$181.11
2023	(1)	\$795,879.07	3269	\$243.46
2024	(2)	\$396,015.72	2154	\$183.85

- (1) Includes federal Low Income Housing Water Assistance (LIHWA) Program Funding
- (2) Expended through June 30, 2024
- (3) 1% of Utility Revenue Slope = \$1.1 million

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Emergency Utility Assistance Program

Discussion of Decision Points

- 1. Extend Emergency Utility Assistance Program for two more years concurrent with rate cycle
- 2. Funding Level for Program
- 3. Maximum per account per calendar year

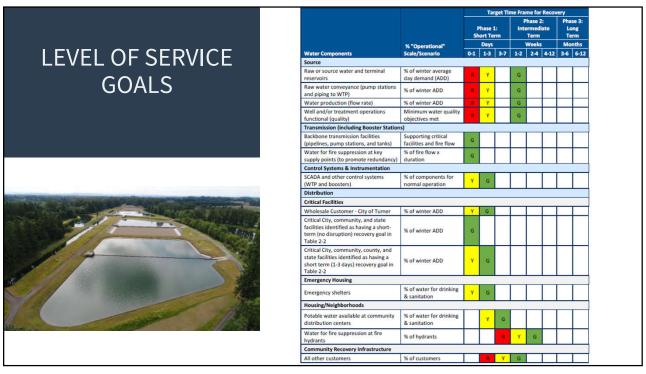
Water System Seismic Resiliency Assessment

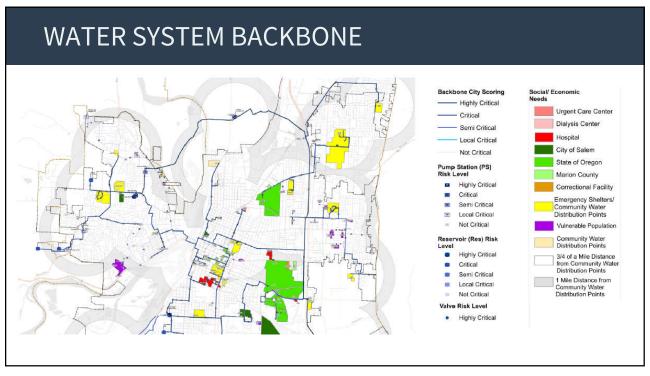
Water/Wastewater Task Force

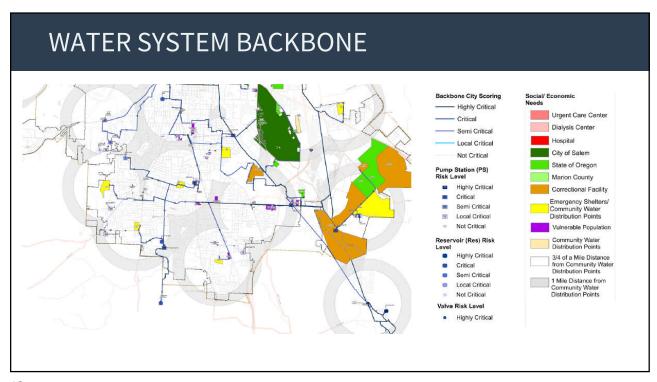
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OBJECTIVES

- 1. Establish level of service (LOS) goals
- 2. Identify infrastructure (both pipelines and facilities) needed to supply water to critical customers and locations after an earthquake– also called the water system backbone;
- 3. Assess seismic hazards and the likelihood of these hazards to impact critical infrastructure;
- 4. Assess the expected seismic performance of the backbone pipelines and selected facilities; and
- 5. Identify preliminary recommendations for system improvements that should be implemented to restore water service more rapidly after a major earthquake to meet social and economic needs.



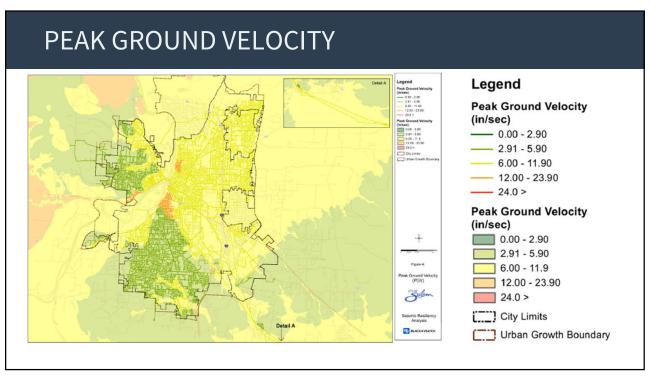


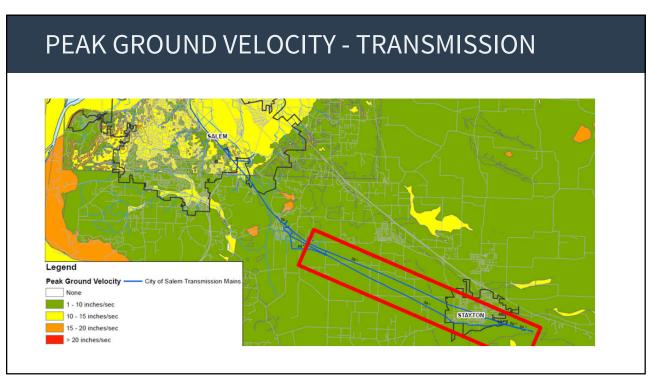


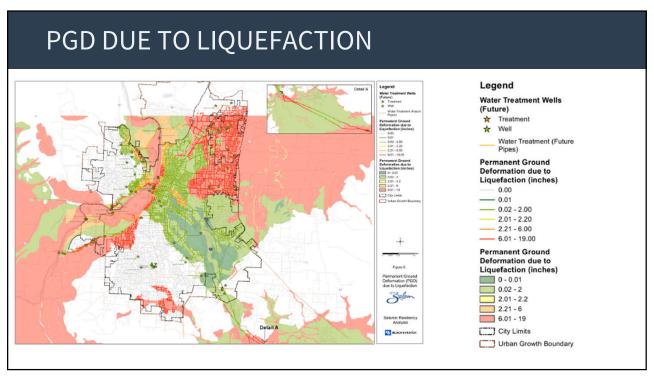
FACILITY CRITICALITY

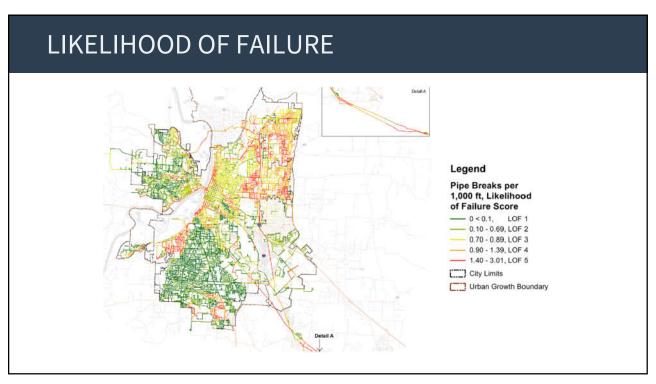
Criticality Level	Name	Service Level
Supply/Valves		•
5 – Highly Critical	Geren Island WTP	G-0
5 – Highly Critical	Turner Control Facility	G-0
4 – Critical	ASR Wells	S-2
2 – Local Critical	Hemlock Well	G-0
Reservoirs		
	Fairmont Reservoir	G-0
5 – Highly Critical	Franzen Reservoir	Franzen
	Mountain View Reservoir	G-0
	Candalaria Reservoir	S-1
	Champion Hill Reservoir	S-3
	Eola #1b Reservoir	W-2
4 - Critical	Eola #2 Reservoir	W-3
	Grice Hill Reservoir	W-1
	Lone Oak Reservoir	S-2
	Mill Creek Reservoir	MCCC S-1
	Glen Creek Reservoir	W-1
3 – Semi Critical	Kurth Reservoir	S-2
2 – Local Critical	Croisan Mt Upper Reservoir	S-2
	Chakarun Reservoir	S-2
	College Reservoir	Т
1 – Not Critical/ Redundant	Mader Reservoir	S-1
neod/loane	Seeger Reservoir	S-2
	Skyline Reservoir	S-3

Criticality Level	Name	Service Level
Pump Stations		
	Boone Pump Station	S-2
	Creekside Pump Station	S-3
4 – Critical	Deer Park Pump Station	S-1
4 – Critical	Edwards S1 Pump Station	S-1
	Keizer Intertie Pump Station	G-0
	Mountain View Pump Station	W-1
	Lower Croisan Pump Station	S-2
3 – Semi Critical	South River Rd Pump Station	S-1
	Davis Road Pump Station	S-4
	Eola #2 Pump Station	W-3
	Limelight Pump Station	W-2
	Mill Creek Pump Station	Т
2 – Local Critical	Rock Ridge Pump Station	S-3
	Skyline #4 Pump Station	S-4
	Upper Croisan Pump Station	S-3
	Whispering Heights Pump Station	W-2
	Chatnicka Pump Station	W-3
	Edwards S2 Pump Station	S-2
1 – Not Critical/	Fairmont Pump Station	S-2
Redundant	Illahe Pump Station (Private)	S-1
	Jefferson Pump Station	W-1
	Skyline Pump Station	S-3









CAPITAL PROGRAM METHODOLOGY

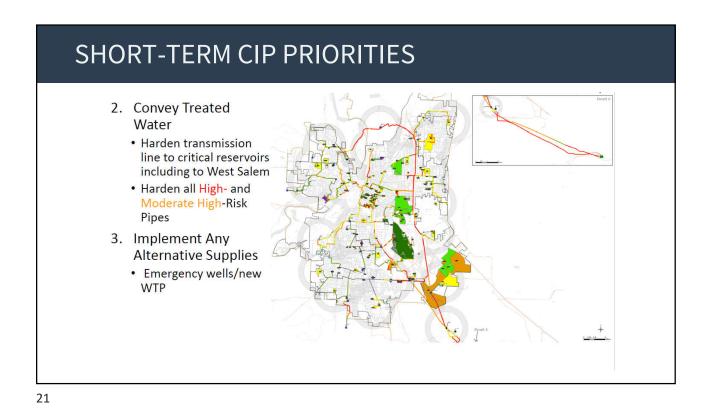
Term	Years	Priority
Short	0-15	 Preserve Water in the System Convey Treated Water Implement Alternative Supplies
Medium	10-25	4. Harden the Rest of the Backbone
Long	20-50	5. Harden Distribution System to Reduce the Number of Repairs

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SHORT-TERM CIP PRIORITIES

- 1. Preserve Water in the System
 - Seismic isolation valves on all reservoirs
 - Seismic upgrades on Very High to Moderate Risk reservoirs and their control buildings, then Pump Stations

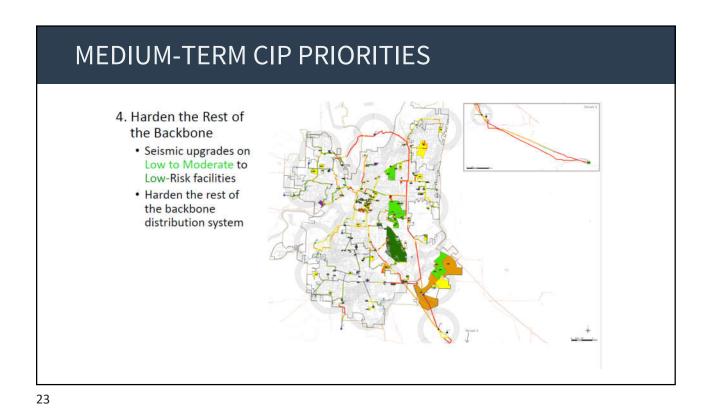
Facility	Service Level	Potential Liquefaction	LOF	COF	Risk	
Fairmount Reservoir	G-0		5	5	25	Very High
Fairmount Pump Station	S-2		5	1	5	Low
Mountain View Reservoir	G-0		4	5	20	High
Mountain View Pump Station	W-1		4	4	16	Moderate to High
Grice Hill Reservoir Control Building	W-1		3	4	12	Moderate
Turner Control Facility	G-0	X	4	5	20	High
ASR #1 and #2 Wells	S-2		4	4	16	Moderate to High
ASR #5 Well	S-2		4	4	16	Moderate to High
Salem/Keizer Intertie #1	G-0	X	4	4	16	Moderate to High
ASR #4 Well	S-2		3	4	12	Moderate
Deer Park Pump Station	S-1		5	4	20	High
Edwards S1 Pump Station	S-1	X	5	4	20	High
Boone Road Pump Station	S-2		4	4	16	Moderate to High
Candalaria Reservoir	S-1		3	4	12	Moderate
Champion Hill Reservoir Control Building	S-3	X	4	4	16	Moderate to High
Champion Hill Reservoir	S-3	X	3	4	12	Moderate
Lone Oak Reservoir Control Building	S-2		3	4	12	Moderate
Mill Creek #1 Reservoir Control Building	MCCC S-1		3	4	12	Moderate
Creekside Pump Station	S-3		3	4	12	Moderate



MEDIUM-TERM CIP PRIORITIES

- 4. Harden the Rest of the Backbone
 - Seismic upgrades on Low to Moderate to Low-Risk facilities

Facility	Service Level	Potential Liquefaction	LOF	COF	Ris	k
Eola #1B Reservoir	W-3		2	4	8	Low to Moderate
Grice Hill Reservoir	W-1		2	4	8	Low to Moderate
Mill Creek #1 Reservoir	MCCC S-1		2	4	8	Low to Moderate
Limelight Pump Station	W-2		3	2	6	Low to Moderate
Edwards S2 Pump Station	S-2	X	5	1	5	Low
Lone Oak Reservoir	S-2		1	4	4	Low



S. Harden low-risk distribution system to reduce the number of repairs

Legend Risk Very Low Low-Allow to Fall Low to Moderate Moderate Moderate Moderate In High High Circle City Limits City Limits

COST PROJECTIONS – HIGH PRIORITY FACILITIES

Facility	Known issues	Additional Studies	Total Base Costs	Contingency	Total Potential Costs
ASR 1&2	\$170,000	\$55,000	\$225,000	\$100,000	\$325,000
ASR 4	\$100,000	\$35,000	\$135,000	\$0	\$135,000
ASR 5	\$70,000	\$46,000	\$116,000	\$160,000	\$276,000
Creekside PS	\$110,000	\$90,000	\$200,000	\$80,000	\$280,000
Deer Park PS	\$120,000	\$57,000	\$177,000	\$180,000	\$357,000
Mountain View PS	\$220,000	\$10,000	\$230,000	\$30,000	\$260,000
Salem Keiser Intertie #1	\$130,000	\$20,000	\$150,000	\$210,000	\$360,000
Turner Control Facility	\$70,000	\$58,000	\$128,000	\$90,000	\$218,000
Candalaria Reservoir	\$10,000	\$94,000	\$104,000	\$220,000	\$324,000
Champion Hill Reservoir	\$100,000	\$50,000	\$150,000	\$0	\$150,000
Champion Hill Reservoir Control Bldg	\$160,000	\$45,000	\$205,000	\$10,000	\$215,000
Fairmount Reservoir	\$2,400,000	\$30,000	\$2,230,000	\$870,000	\$3,100,000
Fairmount Res. Control Bldg	\$50,000	\$15,000	\$65,000	\$20,000	\$85,000
Grice Hill Res Control Bldg	\$130,000	\$0	\$130,000	\$0	\$130,000
Lone Oak Res. Cntrl Bldg	\$30,000	\$40,000	\$70,000	\$10,000	\$80,000
Mill Creek Reservoir	\$40,000	\$10,000	\$50,000	\$840,000	\$890,000
Mill Creek#1 Res. Cntrl. Bldg	\$50,000	\$40,000	\$90,000	\$140,000	\$230,000
Mountain View Reservoir	\$7,570,000	\$0	\$7,370,000	\$70,000	\$7,440,000
Eolia 1B Seismic Valve	\$200,000				\$200,000
Subtotal - High Priority	\$11,730,000	\$695,000	\$11,825,000	\$3,030,000	\$15,055,000

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COST PROJECTIONS – REMAINING FACILITIES

Fac	cility	Known issues	Additional Studies	Total Base Costs	Contingency	Total Potential Costs
Во	one Road PS	\$100,000	\$24,000	\$124,000	\$130,000	\$254,000
Edv	wards PS	\$180,000	\$51,000	\$231,000	\$750,000	\$981,000
Lin	nelight PS	\$100,000	\$62,000	\$162,000	\$280,000	\$442,000
Eol	la #1B Reservoir	\$80,000	\$8,000	\$88,000	\$20,000	\$108,000
Gri	ce Hill Reservoir	\$20,000	\$2,000	\$22,000	\$20,000	\$42,000
Lor	ne Oak Reservoir	\$10,000	\$7,000	\$17,000	\$0	\$17,000
Sul	btotal - Medium Priority	\$490,000	\$154,000	\$644,000	\$1,200,000	\$1,844,000
	tal Program Costs unded)	\$12,220,000	\$850,000	\$12,470,000	\$4,230,000	\$16,900,000

PIPE REPLACEMENT COST SUMMARY

Assumes

- Replacement of pipes with butt welded steel throughout (\$117 per inch-Diameter Foot for large pipes; \$53 per inch-Diameter Foot for small pipes)
- No distinction for highway, creek, or rail crossing (typ. extra cost)
- Includes contingency and engineering

Not Included:

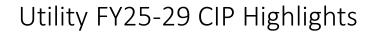
 Very Low and Low - Allow to Fail, which will not be replaced

Risk Category	Total Cost to Replace
High	\$959,440,000
Moderate to High	\$333,660,000
Moderate	\$255,780,000
Low to Moderate	\$268,250,000
Low	\$1,047,480,000
Total Program Costs (rounded)	\$2,864,580,000

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Future Capital Needs

Water/Wastewater Task Force





Projects

Programming

Funding

Grant Applications

Scoring

64 Projects \$191.7 Million Total Project Costs

Federal Grants, System Development Charges, Utility Rates Bennett Dam Complex Geren Island Bridge Equity added to all scoring criteria

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Stormwater Key Projects

- Deerhaven Culvert Replacement
- Mountain View Stormwater Improvements
- Center Street Stormwater Improvements



Wastewater Key Projects

- Willow Lake South Secondary Clarifiers
- Willow Lake North Primary Digester Coatings and Secondary Digester Cover
- Portland Road NE Sanitary Sewer
- Airport Landfill Closure
- Manzanita Way NE SSO Pipe Replacement



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Water Key Projects

- Bennett Dam Complex
- State Street Waterline
- Center Street Bridge Waterline
- Fairmount Reservoir Seismic Upgrades



Allocation by Infrastructure

Category	_	FY 2025		FY 2026		FY 2027		FY 2028		FY 2029	i i	Tota
Stormwater	\$	4,535,120	\$	7,063,340	\$	3,484,000	\$	3,288,120	S	1,915,000	\$	20,285,580
Wastewater		16,196,420		8,104,730		13,368,390		13,283,530		24,452,110		75,405,180
Water	_	20,729,870		19,672,400		31,533,620		16,590,400		7,515,520	_	96,041,810
Total:	\$	41,461,410	\$	34,840,470	\$	48,386,010	\$	33,162,050	\$	33,882,630	\$	191,732,570
Utilities Projects by	Funding	g Source										
30 8	Funding	g Source FY 2025		FY 2026		FY 2027		FY 2028		FY 2029	6	Tota
Funding Source	Funding	5.4.	s	FY 2026	s	FY 2027	\$	FY 2028	s	FY 2029	s	Tota 25,000,000
Funding Source	=	FY 2025			135		\$	347.30,777.300	s		59	
Funding Source NOAA SDC-Stormwater	=	FY 2025 5,000,000			135		\$	347.30,777.300	ş		59	25,000,000
Funding Source NOAA SDC-Stormwater SDC-Wastewater	=	FY 2025 5,000,000 140,000			135		s	347.30,777.300	s		59	25,000,000 140,000 2,340,000
Utilities Projects by Funding Source NOAA SDC-Stormwater SDC-Wastewater SDC-Water Utility Rates	=	FY 2025 5,000,000 140,000 2,340,000		10,000,000	135	10,000,000	s		\$		59	25,000,000 140,000

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Future Utility CIP Issues

- Franzen Reservoir Cover Replacement
- Water Transmission Mains
- Utility System Seismic Resiliency Measures



Future Utility CIP Issues

- Distribution and Collection System Rehabilitation and Replacement
- West Salem Pump Station and Force Main Rehabilitation
- Temperature TMDL Impacts for Stormwater and Wastewater
- Willow Lake Outfall/NPDES Permit Renewal



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Meeting and Public Outreach Schedules

Water/Wastewater Task Force

TASK FORCE SCHEDULE

√Thursday, June 20, 2024

- ✓ Introduction and background
- ✓ Review of Service Areas and Rate Structure

√ Thursday, July 11, 2024

- √ Extension of Utility Assistance Program
- √ Resiliency Update
- √ Future Capital Needs

• Friday, July 26, 2024

- Extension of Service Outside of UGB
- Thursday, August 8, 2024
 - Irrigation Rates and Creekside Proposal
- Thursday, August 29, 2024
 - Utility Revenue Slope Proposal
 - · Hauled and Septic Waste Rates
- Thursday, September 12, 2024
 - Discussion/Recommendation on Utility Revenue Slope and Rate Proposal

OUTREACH, PUBLIC HEARING AND IMPLEMENTATION

Public Outreach

- September 15 30, 2024
 - Rate proposal information published (website)
 - · Post cards mailed to all utility customers

Public Hearing

 November 12, 2024, public hearing before Salem City Council

Effective Dates

January 1, 2025 & January 1, 2026

Customer Bills Reflect New Rates

• February 1, 2025 & February 1, 2026

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