

2024 Budget and the Reliability & Resiliency Roadmap



MLGW Board of Commissioners
October 4, 2023

** All dollars in thousands unless otherwise noted.*

*** Numbers presented exclude all non-cash Pension and OPEB expense related to GASB 68 and GASB 75.*

2024 Budget Context

- Inflation eroding buying power, upward pressure on wages and cost of materials. Ex: tree trimming \$100M now \$228M
- Industry trend – Utilities are answering demand from electrification, moving to grid modernization, making investments paid for by rate hikes to be future ready
- MLGW Needs:
 - More people to do the work
 - Permanent and contracted
 - More funding to do the work – capital and O&M



2024 Electric Overview

FY 24 Electric Division Overview

- The MLGW reliability and resilience roadmap anticipates expenditure of \$1.2B through FY28 to build an electric distribution system that is more reliable today and can meet the challenges of tomorrow
- To date, MLGW has expended \$172M toward that goal
- In the FY24 Budget, you will see that MLGW will invest an additional \$229M to advance the reliability and resilience roadmap.
- Some of the significant improvements and initiatives that are proposed to be funded by this budget in FY24 include:
 - Continued replacement of aging Substation Transformers and Circuit Breakers, \$7.7 million
 - Continued replacement of wooden poles, \$5.0 million,
 - Continued replacement of underground cable, \$9.0 million
 - Continued installation of Distribution Automation Switches, \$11.3 million
 - Build out of PLTE infrastructure, \$10.0 million
 - Build out of ADMS w/FLISR, \$4.0 million
 - Build out of new SCADA/SysOps/USC, \$11.0 million
 - Architectural and engineering and procurement for Generation/Storage initiatives (Solar, Batteries Aeroderivatives), \$120.5 million

Electric Reliability & Resiliency Budget Roadmap								
Action		Description	Outcome	2020-2022	2023 Projected	2024	2025-2028	Total
				\$ in Millions				
1. Tree Trimming		Trees are the leading cause of MLGW outages.	Reduced Vegetation/Tree limb-caused outages.	\$25.4	\$13.0	\$32.0	\$196.0	\$266.4
2. Replace Outdated Infrastructure	Add Manpower	MLGW Staff	More engineers to design the work			\$3.4	\$13.5	\$16.9
		Contracted Capacity	More crews to complete the work			\$15.5	\$62.0	\$77.5
	Replace Substation Transformers	Substation equipment needs to be maintained and components need to be replaced periodically to extend asset life.	Preventing long duration outages because of transformer failures.	\$20.6	\$6.7	\$4.9	\$34.1	\$66.3
	Replace Substation Circuit Breakers	Substation equipment needs to be maintained and components need to be replaced periodically to extend asset life.	Preventing long duration outages because of circuit breaker failures.	\$10.1	\$3.9	\$2.8	\$12.9	\$29.7
	Wood pole replacement	Inspect, rate and replace rotted or end of life poles	Less outages because of pole failures	\$10.6	\$4.5	\$5.0	\$15.0	\$35.1
	Replace Underground cable	Replace 1960-1980 vintage UG cable.	Prevent long duration outages because of cable failures.	\$12.4	\$6.2	\$9.0	\$36.0	\$63.6
3. Grid Modernization	Install DA Switches & Other Related	Enable distribution automation and segment the system	Distribution automation reduces customers impacted by each outage, speeds up restoration time after an outage, and gives more options for balancing the system.	\$21.6	\$10.0	\$11.3	\$179.9	\$222.8
	PLTE	Radio spectrum and radio system equipment to control modern grid systems	Enables Communications with all DA Switches, crews, dispatch, comms systems		\$27.0	\$10.0	\$21.0	\$58.0
	ADMS w/FLISR	Advanced system operations hardware and software to manage modern grid	Automatic load balancing, switch operation, power rerouting and fault location and isolation			\$4.0	\$12.0	\$16.0
	Upgrade SysOps/USC	Modernize system operations to incorporate capability for ADMS, DES and generation	Supports modern Grid operation, back up capability			\$11.0		\$11.0
	Batteries/Storage	Distribution level energy storage assets	Peak shaving capability, resilience, continued economic development			\$0.5	\$105.0	\$105.5
	Generation: Solar, AD	Electric Generation assets to meet short and long term energy demands	Continued economic and community development, resilience			\$120.0	\$85.5	\$205.5
Value	Significantly improved reliability, clean energy, peak shaving, resilience in the face of increased demand			\$100.8	\$71.3	\$229.3	\$772.9	\$1,174.4

Grid Modernization

- Four Components – significant investments in all areas needed
 - Distribution Automation and other devices installed throughout the distribution system – approximately 3000 total at full build out
 - A communications system to control the devices – hardware, software and spectrum make up the system
 - An advanced distribution management system (ADMS) - the software platform that supports the full suite of distribution management and optimization. An ADMS includes functions that automate outage restoration and optimize the performance of the distribution grid.
 - A modern supervisory control and data acquisition (SCADA) - a control system architecture comprising computers, networked data communications and graphical user interfaces for high-level supervision of machines and processes.

Capacity and Load Growth Challenge

- Accelerated economic growth challenges the BES ability to balance supply with pace of demand
- On shoring of manufacturing and electrification are demand drivers
- Decarbonization, supply chain and pace of new generation are supply side drivers
- Peak reserve margins are challenged
- TVA has 3800MW of new generation under construction (in service in 2024) and their board recently approved investing another \$15 Billion over the next 3 years for additional generation and upgrades to their existing system. One of those projects is in Memphis involving a \$350 Million investment to install cleaner more efficient aeroderivative generation in place of combustion turbines that are more than 40 years old.
- Reliable Growth Plan implemented by TVA for new projects larger than 5MW through 2031 when additional assets come online.
- MLGW is proactively in discussion with TVA and other Local Power Companies for solutions.

Aero Derivatives

- MLGW Proposed Solution: Add AeroDerivative Turbine Generators as Bridge to 2031
- MLGW must be in position to catalyze Economic development
 - Proposing to acquire and deploy LM/TM2500 AeroDerivative turbines that generate 30MW of peak load power
 - Individually or together with other local power companies explore other options for a power pool.
 - Working with TVA on a plan that allows MLGW to own and install generation that can be provided to the TVA system as a backup to these new loads so they will not be subject to interruptions.
 - Each 5MW of new generation allows for new >5MW large electric loads without the RGP
 - Synchronous Condensing function – unlocks ability to add significant intermittent/renewables even in an unfired state
 - We have allocated \$120M in FY24 budget for the purpose. Will be funded with bond proceeds.

Battery Storage

- MLGW Proposed Solution: Add 100MW Battery Storage
- MLGW must be in position to catalyze Economic development
 - Proposing to acquire and install up to 100MW of Battery Storage
 - Will be charged and discharged daily during peak demand as a “peak shaving” asset
 - Will provide 4 hrs of additional power during peaks
 - Each 5MW of new Battery Storage allows for new >5MW large electric loads without the RGP
 - We have allocated \$500K in FY24 budget for engineering necessary to integrate batteries
 - Expect first capital expenditure in FY25
 - Pursuing Federal Funding to complement MLGW investment in Battery Storage

Solar

- MLGW has as a priority to add additional renewable energy for our customers
 - Utility scale solar, community solar uses
 - We have allocated \$500K in FY24 budget for engineering necessary to integrate solar into the system
 - Expect first capital expenditure in FY25
 - Pursuing Federal funding to complement MLGW investment in Solar

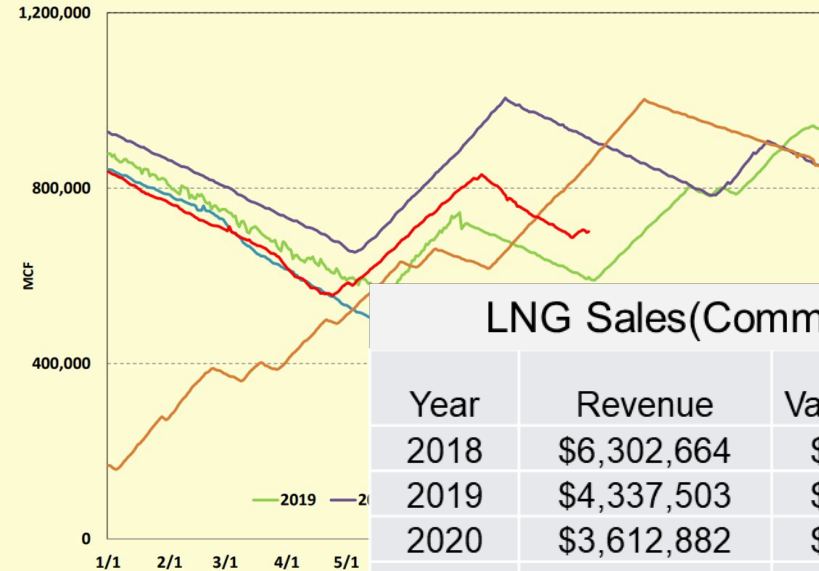


2024 Gas Overview

How we are positioned in the Gas Division

- No rate increase proposed for FY24
- MLGW Bulk Storage and LNG storage on target to be full by December 2023 ensuring continued access to gas for the winter
- Hedges and Call Options in place to bring some predictability to winter gas prices and reduce to reduce customer gas bill volatility
- In 2022, Gas Purchase strategy yielded **\$44M** in value for MLGW. **~\$32M** was used in Winter 22/23 to reduce gas costs passed on to customers. **~\$12M** will be used in winter 23/24 to reduce gas costs passed on to customers.
- LNG Plant continues to provide gas system resilience and produces value for gas customers

LNG Storage Tank Level



LNG Sales(Commercial Truckloads)

Year	Revenue	Variable Costs	Margin
2018	\$6,302,664	\$3,096,863	\$3,205,801
2019	\$4,337,503	\$2,164,645	\$2,172,858
2020	\$3,612,882	\$1,742,855	\$1,870,027
2021	\$4,864,610	\$2,209,770	\$2,654,841
2022	\$5,257,028	\$3,661,678	\$1,595,350
2023	\$3,767,897	\$3,332,529	\$435,368
Total	\$28,142,586	\$16,208,339	\$11,934,246

Average margin (profit) \$2.3M per year

Value for residential and commercial natural gas customers

FY 24 Gas Division Overview

- **Gas highlights:** In the FY24 Budget, you will see that MLGW will invest an additional \$47.1M to advance system improvements and compliance of the MLGW Gas System. These investments add value for our customers and are focused on reliability and continuous safe delivery of gas to MLGW customers.
- Some of the significant improvements and initiatives that are proposed to be funded by this budget in FY24 include:
 - Regulatory Compliance, \$9.2 M
 - Distribution Integrity Management (DIMP) \$7.7 M
 - Gas Main/Steel Tap Replacements
 - Casing Mitigation
 - Corrosion Control
 - Risk Assessment
 - Transmission Integrity Management (TIMP) \$1.5 M
 - Pressure Testing
 - Reclassification of Pipeline
 - System Improvements & Reliability, \$4.3 M
 - System & Planning - \$0.3 M
 - LNG Plant - \$2.4 M (*Fire Hazard Panel; VFD Replacement; Re-Gen Heater Installation; Gas Chromatograph, MRL Compressor Replacement*)
 - Regulator Stations - \$0.7 M
 - Gate Stations - \$1.0 M



2024 Water Overview

How we are positioned in the Water Division

- **MLGW produces the cleanest drinking water of 70 large American Cities** (June 2023 study)
- MLGW received a score of ninety-eight percent (98%) following TDEC's biennial sanitary survey of the MLGW Water System
- All 10 Pumping stations online, 12 new production wells and 4 new VFD controllers online
- Phase I of Aquifer Study complete. Public report out Thursday Sept 21, Central Library, 5PM.



MLGW @MLGW · Sep 6

Memphis is THE PLACE for water, and that's according to the @EPA. The agency ranks Memphis as the #1 City in the U.S. for clean drinking water. Read more: bit.ly/45XuZCp. #MLGW #MLGWNews #ServingYouWhatWeDo



26 268 430 89.6K

FY 24 Water Division Overview

- **Water highlights:** In the FY24 Budget, you will see that MLGW will invest an additional \$59.6M to advance the reliability and continuous safe drinking water of the MLGW Water System.
- These investments add value for our customers and are focused on reliability and continuous safe drinking water.
- Some of the significant improvements and initiatives that are proposed to be funded by this budget in FY24 include:
 - Pumping Station Upgrades, \$21.2 M
 - American Rescue Plan Filter Rehabilitations and Station Rehabilitations - \$15.8M (Allen PS - \$8.2 M)
 - Variable Frequency Drive & Transformer Replacements - \$2.3 M
 - Other Pumping Facilities Projects - \$1.8 M
 - Aerator Rehabilitation & Distributed Processing Control Systems Installations - \$1.M
 - Medium Voltage Breaker & Switchgear Replacements for Underground Reservoirs - \$0.3M
 - Production Well Construction, \$7.8 M
 - Well Replacements - \$5.2 M
 - Well Abandonments - \$0.3 M
 - Well Failure Prevention - \$1.7 M
 - Well Generators - \$0.5 M



2024 Budget Details

Budget Overview

- Focus on improving reliability and resiliency:
 - Tree trimming additional cost (\$228M vs \$100M over 5 years).
 - Continued replacement of infrastructure
 - Moving to a modernization of the electric grid
- Wage increases of 5.0% and 3.5% for Non-Bargaining Unit and Bargaining Unit respectively to maintain a competitive workforce, \$11.5 million
- Addition of 116 new Positions (114.5 FTE) to accomplish goals and initiatives set forth in the plan, \$10.8 million
- Modest multi-year electric rate increases proposed
- No rate increases proposed for gas and water for FY24.

Total Regular Labor increases to last year's Budget

- Total Regular Labor increase of \$22.3 million over the 2023 Budget or ~10%.
 - Wage and premium increases, \$11.5 million
 - Net new positions, \$10.8 million

Electric O&M Details

	2023 Budget	2024 Budget	Variance	% Variance
Labor	\$ 100,782,291	\$ 114,126,517	\$ 13,344,226	13.2%
Material	\$ 2,886,011	\$ 2,689,526	\$ (196,485)	-6.8%
Equipment	\$ 6,829,638	\$ 9,046,330	\$ 2,216,692	32.5%
Other	\$ 143,502,893	\$ 192,351,172	\$ 48,848,279	34.0%
Total	\$ 254,000,833	\$ 318,213,545	\$ 64,212,712	25.3%

Key Drivers of "Other O&M":	2023 Budget	2024 Budget	Variance
Line Clearance	\$ 20,882,618	\$ 42,499,992	\$ 21,617,374
Distribution Contracts	\$ 7,208,975	\$ 15,299,938	\$ 8,090,963
Pension	\$ 11,260,569	\$ 15,778,257	\$ 4,517,688
Reliability Contract	\$ 3,115,000	\$ 6,275,000	\$ 3,160,000
Facilities Upgrades	\$ 744,000	\$ 3,782,004	\$ 3,038,004
Arc Flash	\$ -	\$ 999,996	\$ 999,996
Customer Engagement	\$ -	\$ 910,392	\$ 910,392
Defective Cable Replacemen	\$ 3,849,983	\$ 4,729,978	\$ 879,995
Attachments	\$ -	\$ 800,000	\$ 800,000
Transformer Shop	\$ 658,012	\$ 1,419,661	\$ 761,649
Standby Pay	\$ 1,360,000	\$ 2,020,000	\$ 660,000
Outside Service IT	\$ 1,360,070	\$ 2,019,728	\$ 659,658
Communications	\$ -	\$ 600,014	\$ 600,014
Outside Service - Engr	\$ 500,000	\$ 1,000,000	\$ 500,000
Furniture Upgrades	\$ 447,218	\$ 807,423	\$ 360,205
Transmission Inspection	\$ 200,004	\$ 510,000	\$ 309,996
Outside Service CC	\$ -	\$ 150,014	\$ 150,014
Total			\$ 48,015,948

Gas O&M Details

	2023 Budget	2024 Budget	Variance	% Variance	Key Drivers of "Other O&M":	2023 Budget	2024 Budget	Variance
Labor	\$ 43,336,963	\$ 46,377,567	\$ 3,040,604	7.0%	Gas Indexes	\$ 134,279	\$ 3,902,724	\$ 3,768,445
Material	\$ 1,762,830	\$ 1,816,581	\$ 53,751	3.0%	Gas Modules	\$ -	\$ 3,319,239	\$ 3,319,239
Equipment	\$ 3,043,335	\$ 2,933,390	\$ (109,945)	-3.6%	LNG Tank Painting	\$ 249,996	\$ 3,300,000	\$ 3,050,004
Other	\$ 56,573,889	\$ 78,845,622	\$ 22,271,733	39.4%	Leak Survey	\$ 1,250,000	\$ 3,225,000	\$ 1,975,000
					Pension	\$ 4,708,947	\$ 6,598,158	\$ 1,889,211
Total	\$ 104,717,017	\$ 129,973,160	\$ 25,256,143	24.1%	Asphalt Purchase	\$ 366,026	\$ 2,071,464	\$ 1,705,438
					Environmental	\$ 1,800,500	\$ 3,215,000	\$ 1,414,500
					Facilities Upgrades	\$ 264,000	\$ 1,341,996	\$ 1,077,996
					Customer Service Programs	\$ 1,139	\$ 436,778	\$ 435,639
					Temp Contract	\$ 6,008	\$ 393,132	\$ 387,124
					Outside Service IT	\$ 808,559	\$ 1,168,773	\$ 360,214
					Temp Employees	\$ 135,588	\$ 466,547	\$ 330,959
					Corporate Security	\$ 223,472	\$ 443,532	\$ 220,060
					Furniture Upgrades	\$ 158,677	\$ 286,497	\$ 127,820
					Total			\$ 20,061,649

Water O&M Details

	2023 Budget	2024 Budget	Variance	% Variance
Labor	\$ 33,906,881	\$ 36,009,180	\$ 2,102,299	6.2%
Material	\$ 1,337,450	\$ 1,259,338	\$ (78,112)	-5.8%
Equipment	\$ 3,145,342	\$ 3,984,986	\$ 839,644	26.7%
Other	\$ 57,207,336	\$ 74,950,460	\$ 17,743,124	31.0%
Total	\$ 95,597,009	\$ 116,203,964	\$ 20,606,955	21.6%

Key Drivers of "Other O&M":	2023 Budget	2024 Budget	Variance
Water Meter Repairs	\$ -	\$ 4,754,261	\$ 4,754,261
Environmental	\$ 4,337,500	\$ 7,827,500	\$ 3,490,000
Valve Survey	\$ -	\$ 2,129,056	\$ 2,129,056
Pension	\$ 3,480,525	\$ 4,876,896	\$ 1,396,371
Water Treatment Chemicals	\$ 1,688,184	\$ 3,001,100	\$ 1,312,916
Asphalt	\$ -	\$ 1,297,948	\$ 1,297,948
Facilities Upgrades	\$ 192,000	\$ 975,996	\$ 783,996
Water Fees	\$ 1,445,004	\$ 1,969,000	\$ 523,996
Generator Rental	\$ 13,000	\$ 344,235	\$ 331,235
Outside Contracting	\$ 4,532	\$ 297,228	\$ 292,696
Customer Engagement	\$ -	\$ 278,256	\$ 278,256
Sanitary Survey	\$ -	\$ 200,000	\$ 200,000
Delayed Billing	\$ 105,924	\$ 239,496	\$ 133,572
Outside Service IT	\$ 622,571	\$ 898,139	\$ 275,568
Furniture Upgrades	\$ 115,404	\$ 208,363	\$ 92,959
Total			\$ 17,292,830

All Divisions Summary

Category (\$ in Thousands)	Electric	Gas	Water	Total
Operating Revenue	\$1,498,390	\$287,586	\$129,424	\$1,915,400
Purchased Power and Gas	\$1,105,352	\$141,602	\$0	\$1,246,954
O&M Expense	\$318,214	\$129,973	\$116,204	\$564,391
Depreciation & Amortization	\$60,843	\$24,228	\$11,953	\$97,024
PILOT & Taxes	\$44,889	\$17,486	\$5,213	\$67,587
Total Operating Expense	\$1,529,297	\$313,289	\$133,370	\$1,975,955
Total Capital Expenditures	\$272,762	\$35,994	\$27,463	\$336,219
Total Operating & Capital Budgets	\$1,802,059	\$349,283	\$160,833	\$2,312,174
Change in Net Position	\$14,692	(\$19,850)	(\$2,827)	(\$7,985)

Electric Division Summary

Operating margin is \$51.1 million higher than last year's budget due primarily to the proposed 4% rate action.

Power costs are projected to be flat due to decreasing TVA fuel cost offset by TVA rate increase actions.

The Change in Net Position Variance (net income) is \$2.3 million higher than last year's budget primarily driven by the higher other income offset by higher operating expense relative to operating margin.

Capital Expenditures are \$41 million higher than last year.

Category	2022 Actual	2023 Proj	2023 Budget	2024 Budget
Operating Revenue	\$1,491,580	\$1,411,000	\$1,438,242	\$1,498,390
Power Cost	\$1,151,829	\$1,090,000	\$1,096,347	\$1,105,352
Operating Margin	\$339,752	\$321,000	\$341,895	\$393,039
Operating Margin Variance			\$51,143	Increase
O&M	\$222,522	\$247,000	\$254,001	\$318,214
Depreciation & Amortization	\$60,294	\$62,000	\$62,437	\$60,843
PILOT & Taxes	\$49,007	\$41,000	\$47,031	\$44,889
Total Operating Expense	\$331,822	\$350,000	\$363,468	\$423,945
Expense Variance			\$60,477	Increase
Other Income	\$42,548	\$53,000	\$42,608	\$53,823
Debt Expense	\$9,476	\$8,700	\$8,634	\$8,224
Change in Net Position	\$41,001	\$15,300	\$12,401	\$14,692
Change in Net Position Variance			\$2,291	Increase
Capital Expenditures	\$92,811	\$175,000	\$231,923	\$272,762
Total Operating & Capital	\$1,576,462	\$1,615,000	\$1,691,738	\$1,802,059

Gas Division Summary

Operating margin is \$1.2 million higher than last year's budget. There are no MLGW rate increases proposed for 2024.

The Change in Net Position Variance (net income) is \$12.2 million lower than last year's budget due primarily to the increase in operating expenses offset relative to the increase in operating margin and other income.

Capital Expenditures are \$11.7 million higher than last year's budget.

Category	2022 Actual	2023 Proj	2023 Budget	2024 Budget
Operating Revenue	\$346,264	\$307,000	\$341,481	\$287,586
Gas Cost	\$197,956	\$166,000	\$196,719	\$141,602
Operating Margin	\$148,308	\$141,000	\$144,762	\$145,984
Operating Margin Variance			\$1,222	Increase
O&M	\$96,253	\$103,000	\$104,717	\$129,973
Depreciation & Amortization	\$23,511	\$24,000	\$23,930	\$24,228
PILOT & Taxes	\$19,424	\$18,000	\$19,969	\$17,486
Total Operating Expense	\$139,189	\$145,000	\$148,616	\$171,687
Expense Variance			\$23,071	Increase
Other Income	(\$1,293)	\$9,000	(\$32)	\$9,500
Debt Expense	\$3,921	\$3,800	\$3,798	\$3,647
Change in Net Position	\$3,905	\$1,200	(\$7,684)	(\$19,850)
Change in Net Position Variance			(\$12,165)	Decrease
Capital Expenditures	\$17,998	\$51,100	\$24,281	\$35,994
Total Operating & Capital	\$355,143	\$362,100	\$369,616	\$349,283

Water Division Summary

Operating margin is \$1.2 million lower than last year's budget.

The Change in Net Position Variance (net income) is \$18.7 million lower than last year's budget primarily due to the higher operating expenses, lower operating revenue offset by higher other income.

Capital Expenditures are \$15.1 million lower than last year's budget.

Category	2022 Actual	2023 Proj	2023 Budget	2024 Budget
Operating Revenue	\$134,854	\$130,000	\$130,626	\$129,424
Operating Revenue Variance			(\$1,202)	Decrease
O&M	\$86,975	\$94,000	\$95,597	\$116,204
Depreciation & Amortization	\$11,583	\$12,000	\$11,649	\$11,953
PILOT & Taxes	\$5,047	\$5,100	\$5,115	\$5,213
Total Operating Expense	\$103,606	\$111,100	\$112,361	\$133,370
Expense Variance			\$21,009	Increase
Other Income	\$1,803	\$5,000	\$1,094	\$4,750
Debt Expense	\$3,555	\$3,500	\$3,450	\$3,631
Change in Net Position	\$29,497	\$20,400	\$15,909	(\$2,827)
Change in Net Position Variance			(\$18,737)	Decrease
Capital Expenditures	\$27,239	\$28,000	\$42,532	\$27,463
Total Operating & Capital	\$130,845	\$139,100	\$154,893	\$160,833

Total Capital Expenditures By Division

Electric Division

2023 Budget	\$231,923
2024 Budget	\$272,762
\$ Change	\$40,839
% Change	17.6%

Gas Division

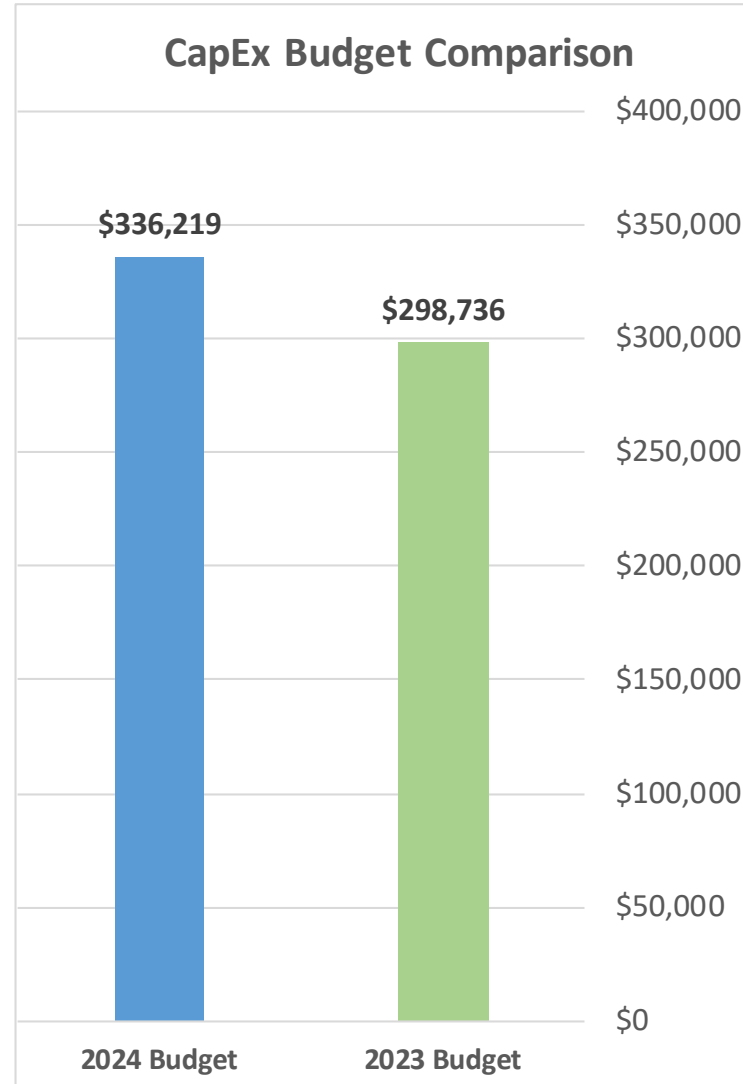
2023 Budget	\$24,281
2024 Budget	\$35,994
\$ Change	\$11,713
% Change	48.2%

Water Division

2023 Budget	\$42,532
2024 Budget	\$27,463
\$ Change	(\$15,069)
% Change	-35.4%

All Divisions

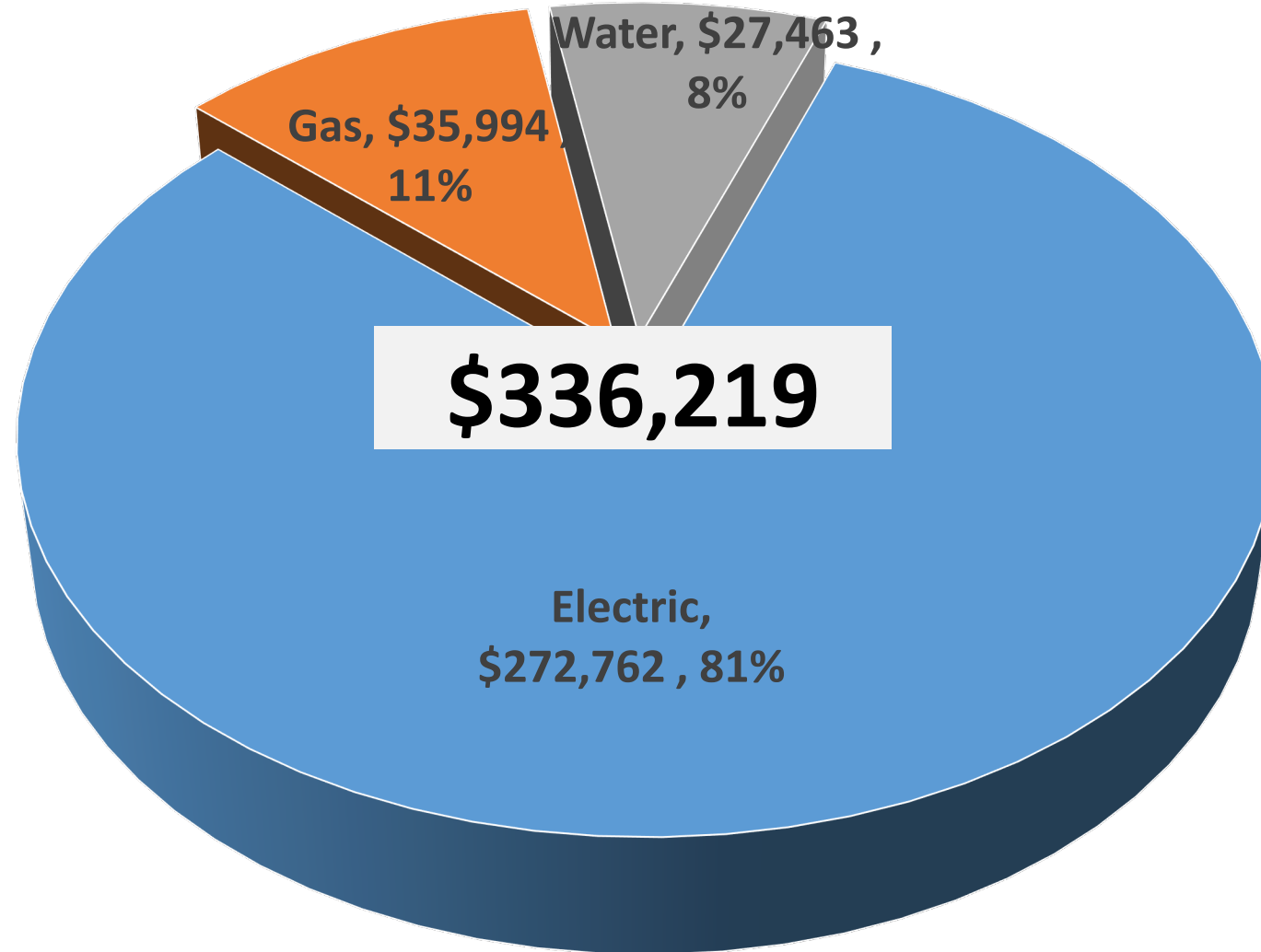
2023 Budget	\$298,736
2024 Budget	\$336,219
\$ Change	\$37,483
% Change	12.5%



This 2024 Budget includes anticipated Grant Contributions of:

- Electric, \$21.8 million
- Gas, \$7.7 million
- Water, \$11.8 million

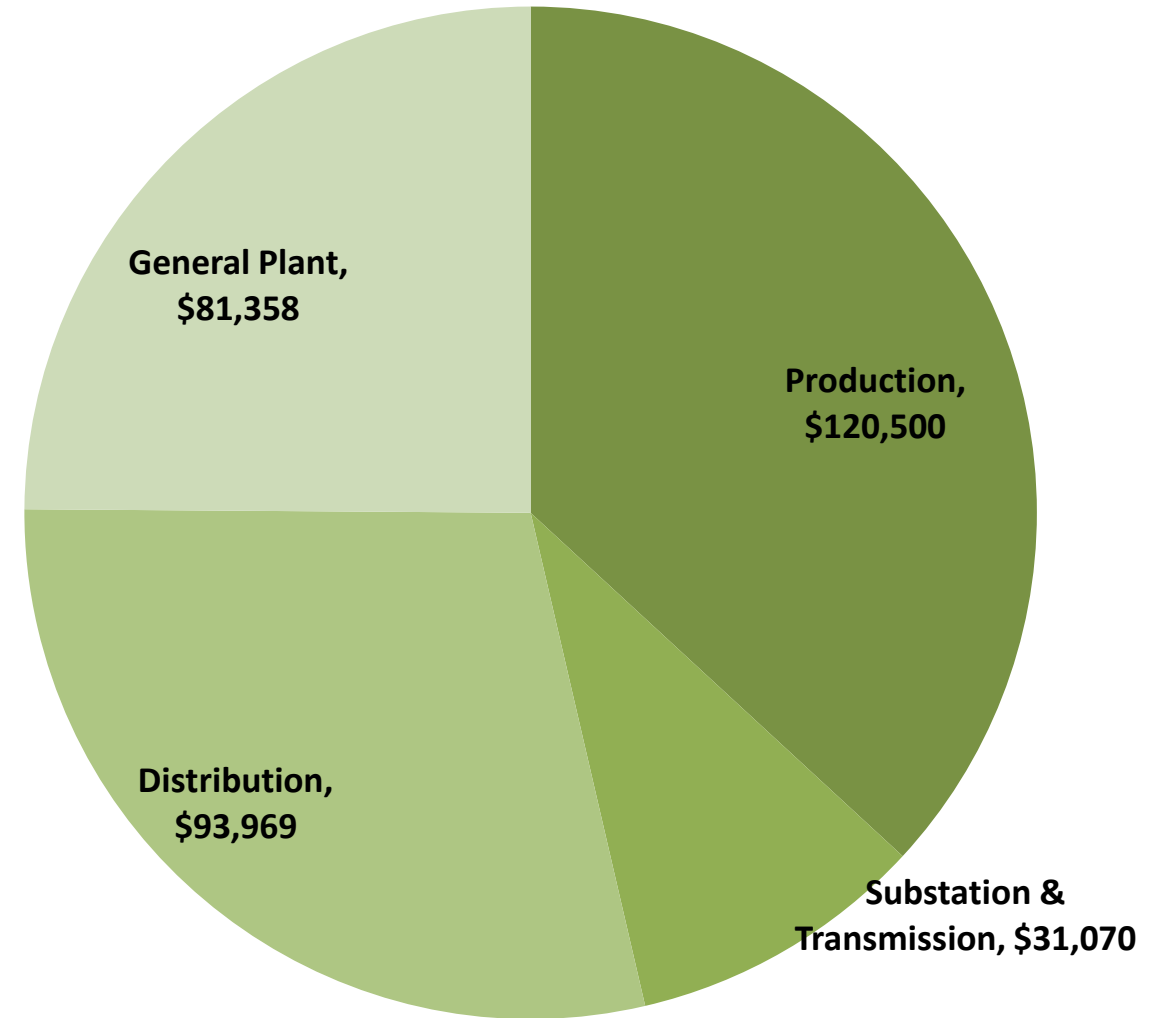
Total 2024 Budgeted Capital By Division



Electric Capital Highlights

Electric Capital Highlights

Generation/Solar/Aeroderivative	\$120,000
Information Systems and Technology Upgrades	\$31,509
Extensions to Serve New Customers - UG Apts. & Commercial	\$30,932
Substation Upgrades	\$25,096
New Electric Circuits	\$15,300
Purchase of Trans. & Power Operated Equipment	\$15,188
Communication Towers & Telecommunication Network	\$14,197
Replacement of Distribution Transformers	\$11,000
Replacement of Feeder Circuit & Defective Cable	\$10,800
Distribution Automation	\$10,500
Distribution Automation Management System	\$6,135
Replacement of Defective Poles	\$5,000

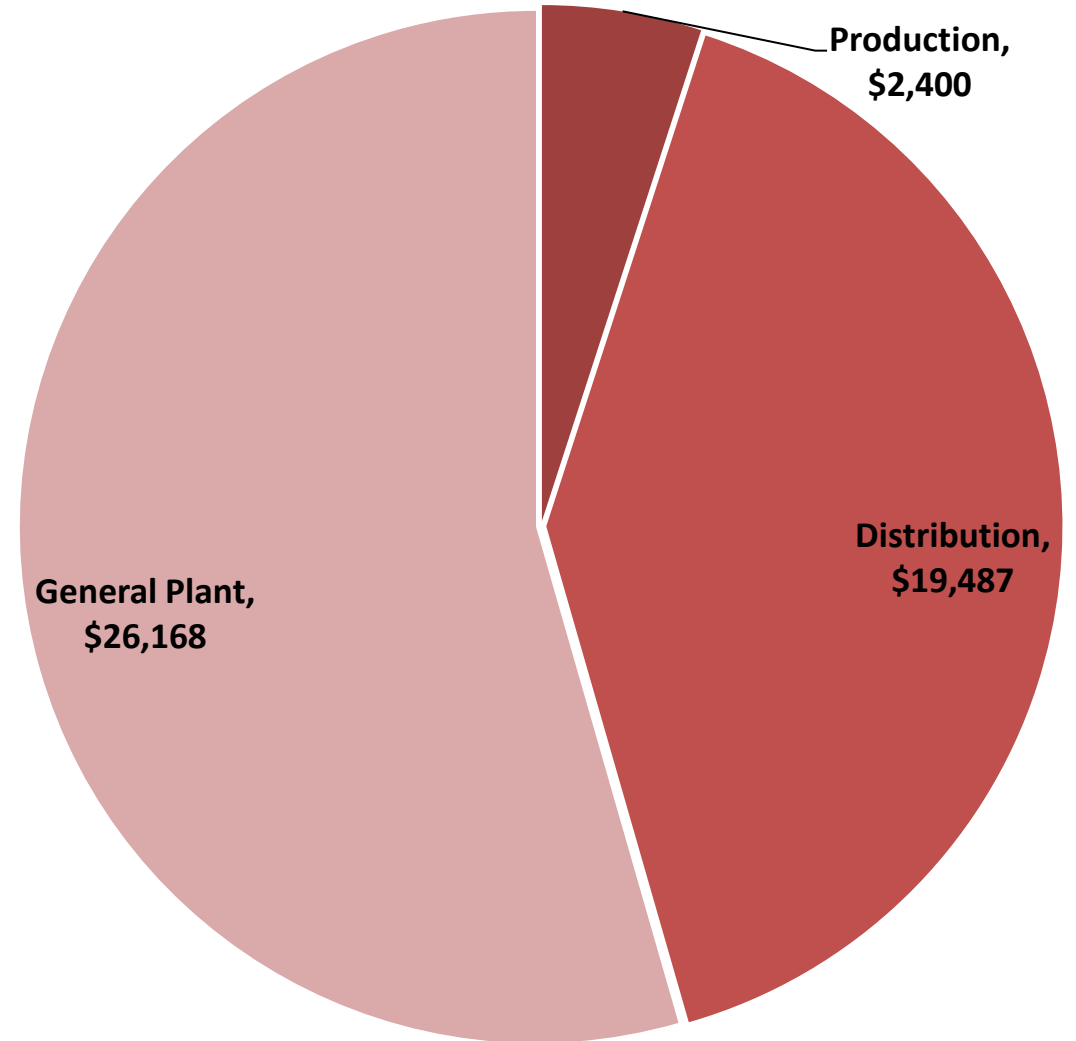


** Excludes reductions for delays or anticipated carryovers.*

Gas Capital Highlights

Gas Capital Highlights

New Gas Main & Gas Main Service Replacement	\$8,979
Purch. of Trans. Equip. & Power Operated	\$8,626
Extensions to Serve New Customers	\$8,386
Building Upgrades	\$6,080
Relocations of Mains - Street Improvements	\$4,694
LNG Processing Facilities	\$2,400
Pipeline Integrity Management	\$2,000
Purchase of Meters & Metering Equipment	\$1,664

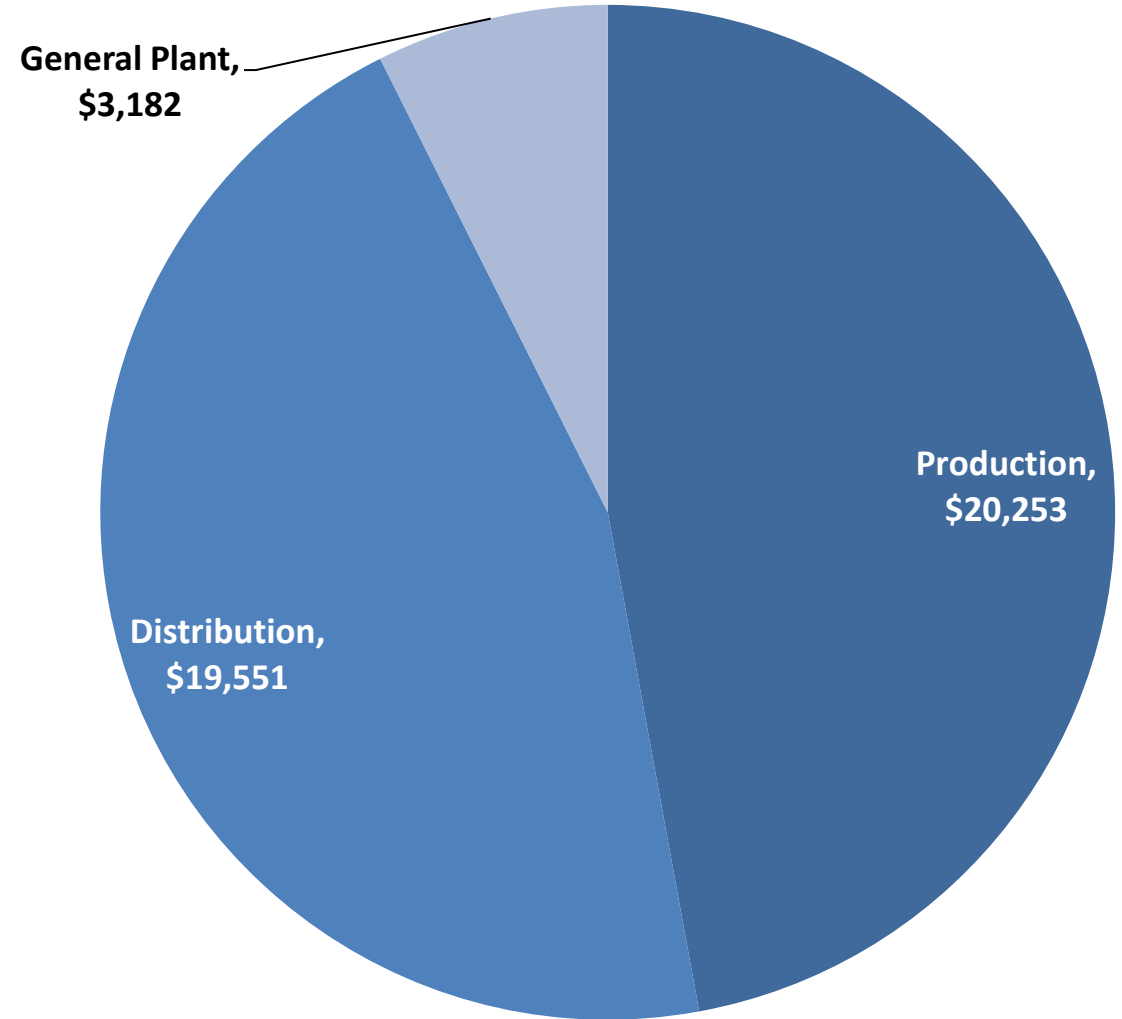


** Excludes reductions for delays or anticipated carryovers.*

Water Capital Highlights

Water Capital Highlights

Various Pumping Station Upgrades	\$21,195
Various Production Well Upgrades	\$7,789
Extensions to Serve New Customers	\$5,259
Relocations of Mains - Street Improvements	\$4,250
Purch. of Trans. Equip. & Power Operated	\$2,938
Water Main Replacement	\$2,800
Purchase of Meters	\$2,641
New Water Main	\$2,469
Various Underground Storage Reservoir Upgrades	\$300



** Excludes reductions for delays or anticipated carryovers.*

5 Year Capex Plan Summary

- MLGW plans to invest significant capital into each division.
- The total projected five-year investment for 2024 through 2028 is \$1.5 billion.

<i>Dollars in Thousands</i>								
	2023	2023		2025	2026	2027	2028	2024-2028
Electric	Estimate	Budget	2024 Budget	Projection	Projection	Projection	Projection	Total
Production	\$ -	\$ -	\$ 120,500	\$ 47,625	\$ 47,625	\$ 47,625	\$ 47,625	\$ 311,000
Substation/Transmission	\$ 29,920	\$ 33,679	\$ 31,070	\$ 56,187	\$ 43,971	\$ 30,495	\$ 28,230	\$ 189,953
Distribution	\$ 177,780	\$ 165,459	\$ 93,969	\$ 81,432	\$ 102,762	\$ 91,866	\$ 92,866	\$ 462,895
General Plant	\$ 35,967	\$ 90,766	\$ 81,358	\$ 90,546	\$ 71,533	\$ 44,179	\$ 39,679	\$ 327,294
Sub-total	\$ 243,667	\$ 289,904	\$ 326,897	\$ 275,790	\$ 265,891	\$ 214,164	\$ 208,400	\$ 1,291,142
<i>Allowance for Late Deliveries (Transportation)</i>			\$ (10,873)	\$ (11,352)	\$ (11,844)	\$ (12,346)	\$ (12,856)	\$ (59,271)
<i>Street Improvements Adjustment</i>			\$ (1,983)	\$ (1,314)	\$ (270)	\$ (365)	\$ (270)	\$ (4,202)
<i>Delayed Cost Allocations</i>		\$ (57,981)	\$ (41,279)	\$ (45,633)	\$ (43,653)	\$ (33,308)	\$ (32,155)	\$ (196,028)
Total Electric	\$ 243,667	\$ 231,923	\$ 272,762	\$ 217,491	\$ 210,124	\$ 168,146	\$ 163,118	\$ 1,031,641
	2023	2023		2025	2026	2027	2028	2024-2028
Gas	Estimate	Budget	2024 Budget	Projection	Projection	Projection	Projection	Total
Production	\$ 273	\$ 894	\$ 2,400	\$ 2,650	\$ 8,550	\$ 380	\$ 500	\$ 14,480
Distribution	\$ 16,421	\$ 13,673	\$ 19,487	\$ 42,026	\$ 12,786	\$ 10,987	\$ 11,021	\$ 96,308
General Plant	\$ 6,200	\$ 15,796	\$ 26,168	\$ 14,716	\$ 13,316	\$ 11,175	\$ 11,162	\$ 76,537
Sub-total	\$ 22,894	\$ 30,363	\$ 48,055	\$ 59,392	\$ 34,652	\$ 22,543	\$ 22,683	\$ 187,324
<i>Allowance for Late Deliveries (Transportation)</i>	\$ -	\$ -	\$ (4,000)	\$ (4,055)	\$ (4,095)	\$ (4,117)	\$ (4,117)	\$ (20,384)
<i>Street Improvements Adjustment</i>	\$ -	\$ -	\$ (1,666)	\$ (738)	\$ (336)	\$ (336)	\$ (336)	\$ (3,411)
<i>Delayed Cost Allocations</i>	\$ -	\$ (6,082)	\$ (6,396)	\$ (8,544)	\$ (4,658)	\$ (2,716)	\$ (2,739)	\$ (25,053)
Total Gas	\$ 22,894	\$ 24,281	\$ 35,994	\$ 46,055	\$ 25,563	\$ 15,374	\$ 15,491	\$ 138,477
	2023	2023		2025	2026	2027	2028	2024-2028
Water	Estimate	Budget	2024 Budget	Projection	Projection	Projection	Projection	Total
Production	\$ 1,471	\$ 29,805	\$ 20,253	\$ 73,586	\$ 67,636	\$ 55,223	\$ 66,989	\$ 283,688
Distribution	\$ 13,631	\$ 21,036	\$ 19,551	\$ 20,533	\$ 18,037	\$ 20,378	\$ 20,644	\$ 99,144
General Plant	\$ 788	\$ 2,578	\$ 3,182	\$ 4,326	\$ 3,601	\$ 4,149	\$ 3,909	\$ 19,169
Sub-total	\$ 15,890	\$ 53,419	\$ 42,987	\$ 98,446	\$ 89,275	\$ 79,751	\$ 91,543	\$ 402,000
<i>Allowance for Late Deliveries (Transportation)</i>	\$ -	\$ -	\$ (2,071)	\$ (2,161)	\$ (2,252)	\$ (2,345)	\$ (2,440)	\$ (11,269)
<i>Street Improvements Adjustment</i>	\$ -	\$ -	\$ (1,947)	\$ (1,200)	\$ (990)	\$ (994)	\$ (998)	\$ (6,128)
<i>Delayed Cost Allocations</i>	\$ -	\$ (10,886)	\$ (11,507)	\$ (21,140)	\$ (19,135)	\$ (14,819)	\$ (17,130)	\$ 32 (83,731)
Total Water	\$ 15,890	\$ 42,533	\$ 27,463	\$ 73,944	\$ 66,898	\$ 61,592	\$ 70,976	\$ 300,873



Cash Flows

Financial Metric Targets

- Days of cash
 - Target minimum of 45 days
 - Government Finance Officers Association (GFOA) best practice recommendation target minimum is 90 days
- Change in net position
 - Target is to have positive change in net position
 - State law prohibits two consecutive years of negative net position for both the gas and water divisions
- Debt Service Coverage
 - Minimum per debt covenants for senior lien is 1.2x
 - Both S&P and Moody's have developed a more stringent coverage calculation when evaluating utilities

Electric Division Cash Flow Projection

	Electric Division - Budget 2024	2022	2023	2024	2025	2026
22	Ending Cash & Investments	334,366	257,749	245,839	295,097	223,088
23	Days Cash of OpExp	86	68	61	73	57
24	Debt Service Coverage	6.75	5.38	3.68	3.75	4.92
25	Change in Net Assets (Net Income)	41,002	15,355	6,557	37,688	86,457
26	Capital Expenditures	\$92,811	\$175,000	\$251,233	\$210,500	\$203,022
27	O&M Expenditures	\$224,453	\$248,801	\$320,102	\$332,951	\$348,706
28	Rate Increase %	1.5%		4.0%	4.0%	4.0%
29	Rate Increase Revenue	\$20,073		\$56,712	\$59,256	\$61,914
30	Debt Issuance			\$180,000	\$180,000	
31	Average Residential Bill Impact	\$1.92		\$4.83	\$5.03	\$5.23
			\$120.80	\$125.63	\$130.66	\$135.88

Gas Division Cash Flow Projection

	Gas Division - Budget 2024	2022	2023	2024	2025	2026
21	Ending Cash & Investments	157,664	184,728	171,332	144,623	131,082
22	Days Cash of OpExp	183	263	234	193	171
23	Debt Service Coverage	5.15	7.89	4.82	4.54	3.98
24	Change in Net Assets (Net Income)*	3,907	1,218	(19,795)	(24,290)	(31,734)
25	Capital Expenditures	\$17,999	\$48,400	\$33,911	\$43,679	\$24,177
26	O&M Expenditures	\$96,993	\$103,817	\$130,773	\$136,028	\$142,679
27	Rate Increase %	2.0%				
28	Rate Increase Revenue	\$4,354				
29	Debt Issuance					
30	Average Residential Bill Impact	\$0.74				
	<i>* May need to obtain exemption from State Comptroller as cash is depleted.</i>					

Water Division Cash Flow Projection

	Water Division - Budget 2024	2022	2023	2024	2025	2026
21	Ending Cash & Investments	106,954	124,089	100,678	21,592	30,085
22	Days Cash of OpExp	424	457	302	63	84
23	Debt Service Coverage	5.64	4.64	1.99	1.20	1.78
24	Change in Net Assets (Net Income)	29,497	20,386	(2,537)	(9,924)	3,321
25	Capital Expenditures	\$27,240	\$28,000	\$27,463	\$76,068	\$68,826
26	O&M Expenditures	\$79,006	\$86,097	\$109,304	\$113,691	\$119,042
27	Rate Increase %	5.0%				19.0%
28	Rate Increase Revenue	\$5,790				\$24,033
29	Debt Issuance					\$135,000
30	Average Residential Bill Impact (W1)	\$0.91				\$3.64
		\$19.17	\$19.17	\$19.17	\$19.17	\$22.82

Budget Schedule

- Preliminary presentation to MLGW Board, 10/4
- MLGW Board vote, 10/18
- MLGW City Council Committee, 11/7
- Full Council Meetings remaining for 2023 thereafter:
 - 11/21
 - 12/5
 - 12/19

Budget Summary

- Affordable, necessary electric rate increase plan proposed to support the Reliability and Resiliency Roadmap
 - Tree Trimming, Replacing Infrastructure and Modernizing the Grid
- Adding personnel in strategic areas to support the plan
 - Adding engineering and technical personnel to execute the plan
 - Adding customer service personnel
- No proposed rate increases for Gas or Water Divisions for FY2024



Questions