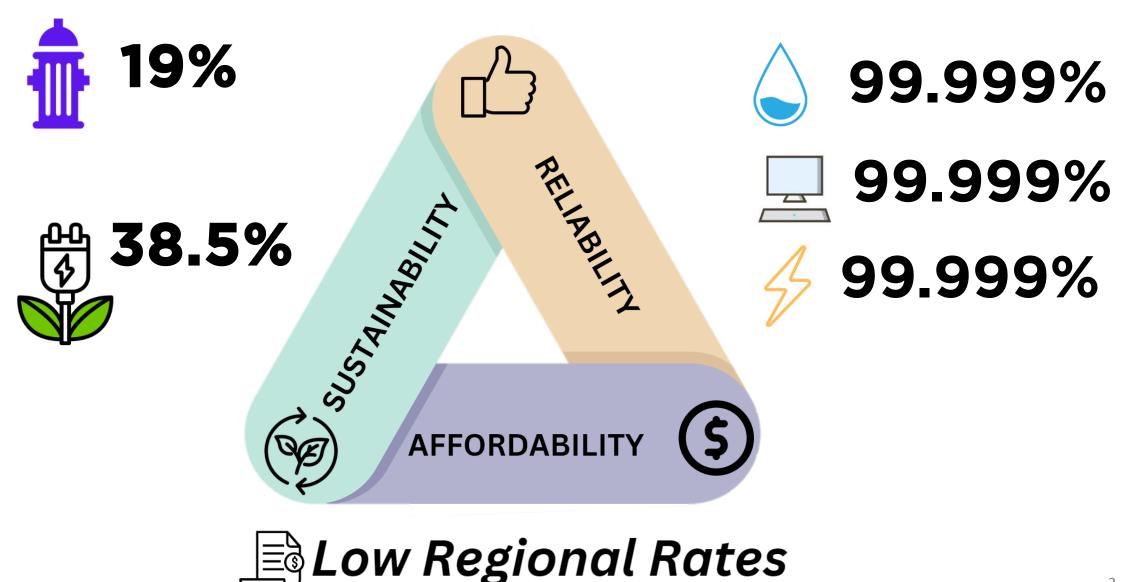
FY 2023-24 & FY 2024-25 Proposed Budget



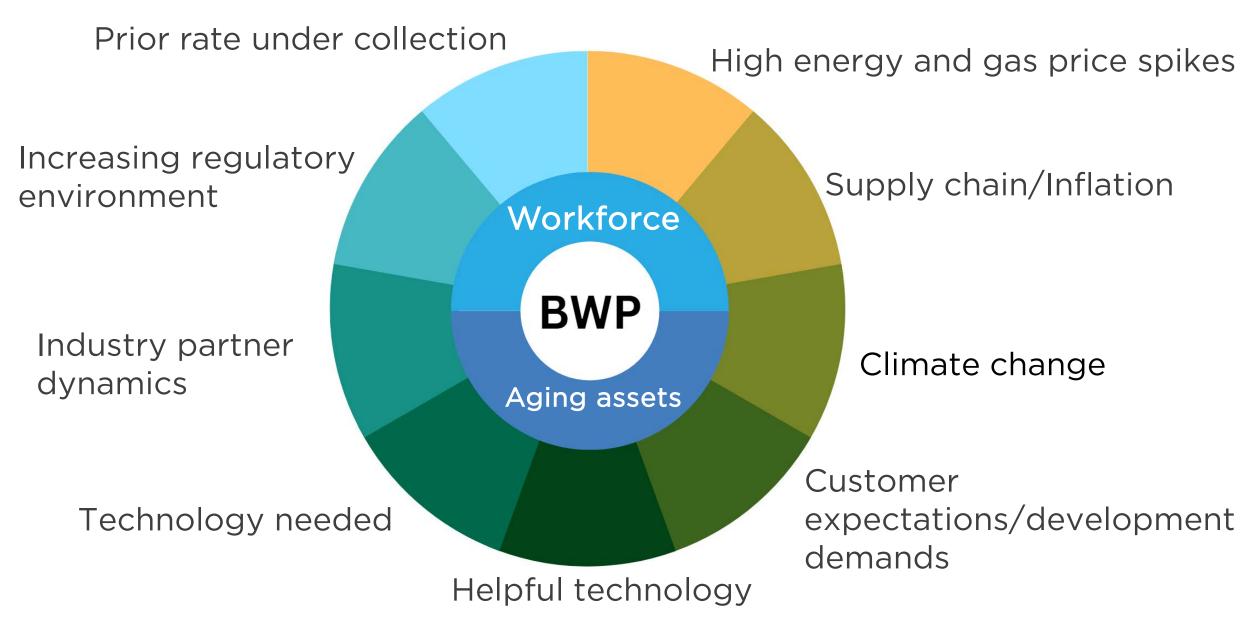
WATER AND POWER

BWP Board April 6, 2023

BWP Performance



BWP Challenges



Inflation		w substation uildout up 47%	Fiber optic cable up	Chlorine 205%
	wables X – 3X Transformer up 100%	Copper for wa	20% coils ter lines	Water meter boxes up 59% Fire hydrants up 41%
		Substation rebuild up 67%	Ductile iro pipe up 52-79%	

Historical Natural Gas and Energy Prices

	Natural Gas Prices (\$/MMBTU)	Energy Prices (\$/MWH)
2020	\$3.00	\$47.61
2021	\$7.10	\$61.81
2022	\$9.20	\$96.28
2023	\$15.30	\$100.16

BWP Cost Savings and Avoidance



Total	\$ 27,117,336
Other	\$1,423,187
Termination of gas contract	\$444,000
Prepayment of gas	\$989,176
Use of IPP	\$2,339,682
Wholesale margin	\$2,360,000
IPP STS Transmission Losses	\$5,578,291
Early bond and loan redemptions	\$6,983,000
TDMS database	\$7,000,000

Revenue Resources Offsetting Rate Increases



- Aid-in-construction
- Capacity charge
- Grants
- Investing
- Low Carbon Fuel Standard Credits
- OneBurbank
- Recycled water sales to LA
- Wholesale trading

Pension Cost Reduction Strategies

- Pay down liability to CalPERs
 - Use one-time funds to pay down the unfunded liability
 - Improve long-term cash flow by reducing future payment amounts
 - Generate significant interest expense savings

	Electric	Water
Total 2-Year Commitment	\$2,062,200	\$330,000
FY 2023-24	\$1,031,100	\$165,000
FY 2024-25	\$1,031,100	\$165,000
Interest Savings	\$660,935	\$105,765
Pay-off Period	21 years	21 years

Proposed Budget Authority

			23-24 vs 22-23		24-25 vs 23-24
	FY 2022-23	FY 2023-24	Decr / (Incr) in	FY 2024-25	Decr / (Incr) in
(\$ in 000's)	Adopted	Proposed	Budget	Proposed	Budget
Electric Fund	\$313,086	322,324	(\$9,238)	\$330,799	(\$8,475)
Water Fund	\$60,666	54,354	\$6,312	51,294	\$3,060
MPP Operating Fund	\$24,151	\$27,809	(\$3,658)	\$29,591	(\$1,781)
Tieton Hydro Operating	\$2,082	\$1,880	\$202	\$1,917	(\$38)
Street Lighting Fund	\$3,437	\$3,919	(\$482)	\$5,920	(\$2,000)
Communications Fund	\$4,417	\$5,112	(\$695)	\$4,408	\$704
Total Authority	\$407,839	\$415,398	(\$7,559)	\$423,928	(\$8,530)

Electric Fund

Under-Collection

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	FY 24-25
Customer Rate Increase %	2.1%	0.0%	0.0%	1.0%	0.0%	2.5%	6.0%	8.5%	8.0%
Under-Collection from Prior Year	4,738	1,055	1,223	1,737	8,939	9,687	7,091	15,597	16,498
New Drivers	4,591	2,058	1,136	8,848	7,999	6,608	19,257	25,560	12,314
New Reductions	(4,500)	1,890	(622)		(7,251)	(7,992)	(550)	(10,234)	(4,095)
Rate Increase	(3,774)	-	-	(1,646)	-	(1,212)	(10,201)	(13,925)	(15,429)
Under-Collection (\$000)	1,055	1,223	1,737	8,939	9,687	7,091	15,597	16,498	9,288



Rate Drivers FY 23-24

(\$ in 000's)	\$	Rate Requirement
Under-collection from prior years	\$15,597	9.52%
Increased fuel and power costs	\$18,650	11.33%
Capital financing	\$6,500	3.97%
2023-24 rate requirement	\$40,657	24.82%
2023-24 rate increase	(\$13 <i>,</i> 925)	(8.50%)
ONE Burbank revenues	(\$400)	(0.24%)
Revenue from higher retail load	(\$618)	(0.38%)
Financing of IPP demolition	(\$2 <i>,</i> 000)	(1.22%)
Operational efficiencies	(\$1,386)	(0.85%)
Reduced pension funding plan	(\$1,664)	(1.02%)
Interest and other income	(\$4,166)	(2.54%)
Projected under-collection	\$16,498	10.07%

Rate Drivers FY 24-25

(\$ in 000's)	\$	Rate Requirement
Under-collection from prior years	\$16,498	8.55%
Fuel and power supply	\$6,202	3.22%
Operations and maintenance	\$3,829	1.99%
Interest and other income	\$2,283	1.18%
2024-25 rate requirement	\$28,812	14.94%
2024-25 rate increase	(\$15,429)	(8.00%)
Revenue from higher retail load	(\$3,895)	(2.02%)
ONE Burbank revenues	(\$200)	(0.10%)
Projected under-collection	\$9,288	4.82%

13



Highlights and Assumptions

- 0.43% and 2.48% higher demand
- 4.1% and 3.0% general inflation
- Utility costs rising @ 2 2.6x general inflation
- Higher energy prices
- IPP coal issues
- Investments in a sustainable future
- 42.5% and 45% renewables
- 8.5% and 8% rate increase
- Utilizing energy cost adjustment charge (ECAC) and reserves to stabilize rates



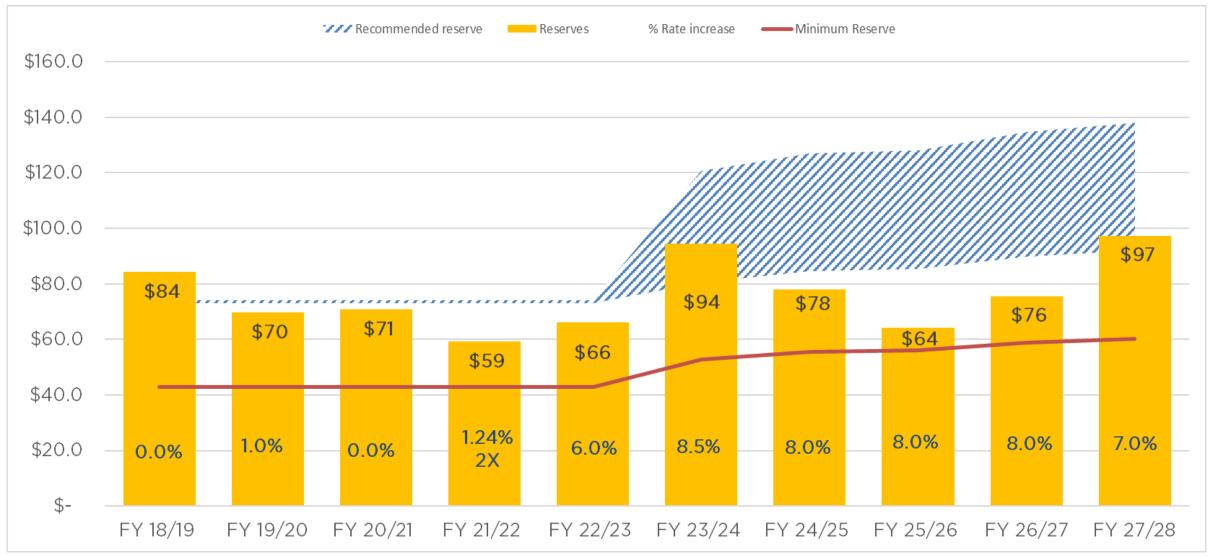
Forecast Assumptions for Years 3-5

- 53% renewables
- IPP demolition
- New transmission planning
- Studies for hydrogen and carbon capture at MPP
- Investments in a sustainable future
- Increase in substation capacity
- Work force modernization
- Continue rate plan toward full cost recovery

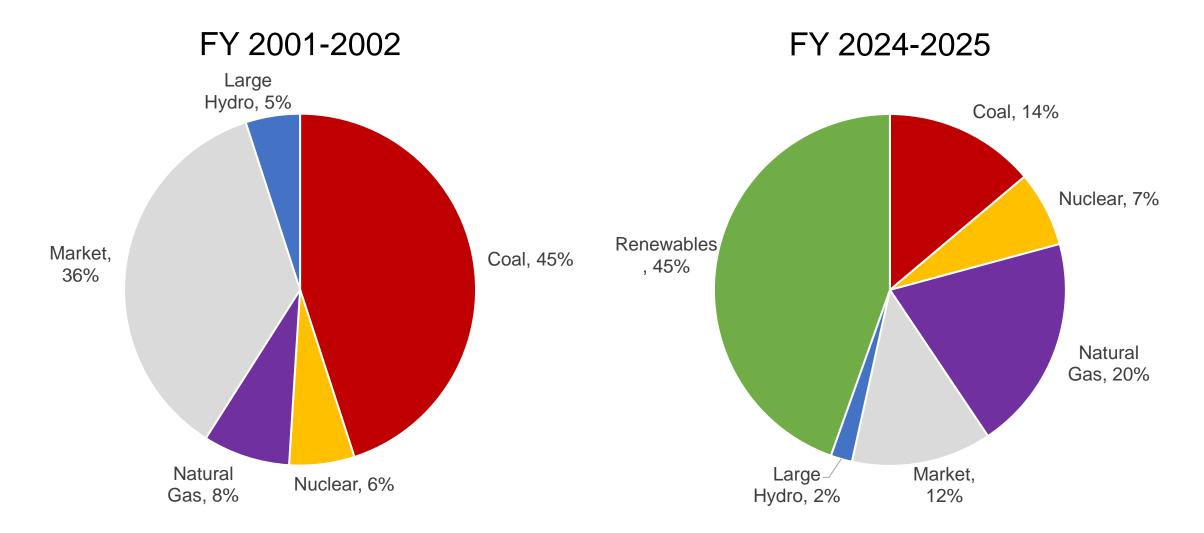
Future Costs Not Included in the 5-year Forecast

- Future staffing needs
- Transmission buildout
- Olive replacement with renewable peak generation units
- Additional pension liability prepayment
- IPP decommissioning costs
- Carbon capture & green hydrogen implementation
- Additional renewable price increases

Cash Reserves in Millions \$

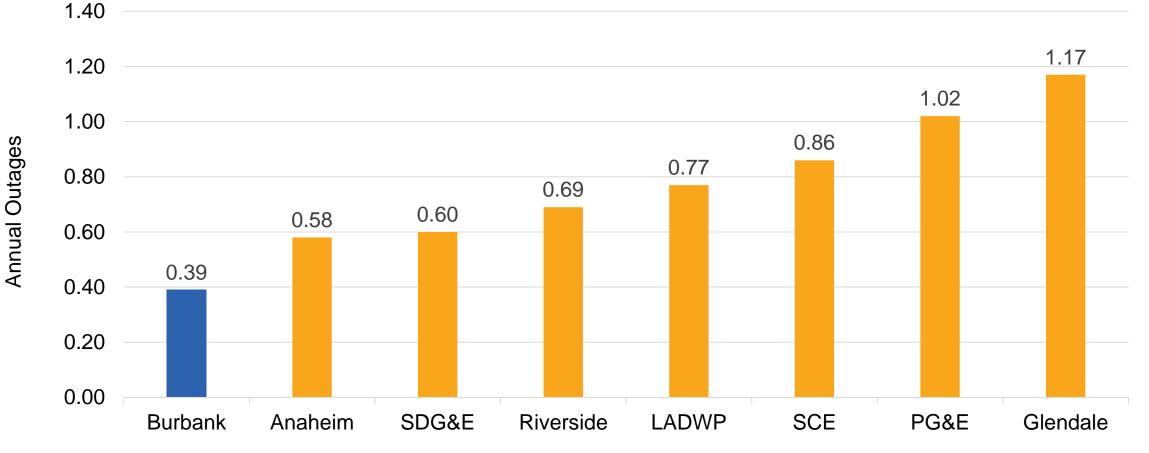


Power Mix



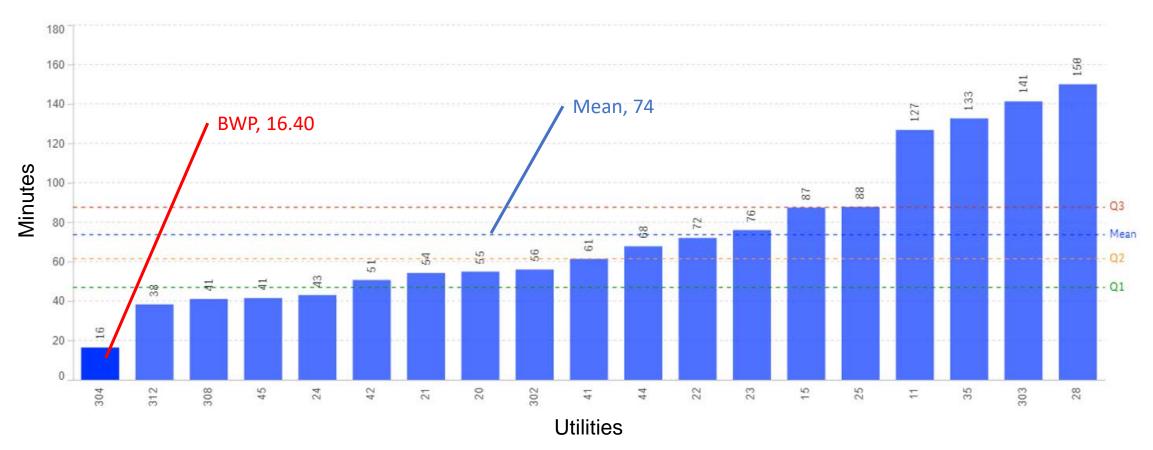
Annual Outages

System Average Interruption Frequency Index (SAIFI) 5 Year Average 2017-2021



Reliability





Q2

61

Q1

47

Q3

88

Residential Bill for Average Single-Family Monthly Consumption



Income Statement

\$ in 000's	Ado	opted Budget FY 22-23	Pro	posed Budget FY 23-24	Pro	posed Budget FY 24-25
Total Operating Revenues	\$	229,600	\$	244,123	\$	264,077
Total Power Expenses	\$	172,267	\$	192,325	\$	197,856
Gross Margin	\$	57,333	\$	51,798	\$	66,221
Total Operating Expenses (incl						
Depreciation)	\$	65,448	\$	65,184	\$	72,416
Operating Income/(Loss)	\$	<mark>(</mark> 8,116)	\$	(13,386)	\$	(6,195)
Other Income / (Expense)	\$	(6,261)	\$	(3,125)	\$	(5,278)
Net Income (before AIC)	\$	(14,376)	\$	(16,511)	\$	(11,473)
Capital Contributions (AIC)		7,213		16,981		9,681
Change in Net Assets	\$	(7,163)	\$	469	\$	(1,792)

Electric Capital Improvements

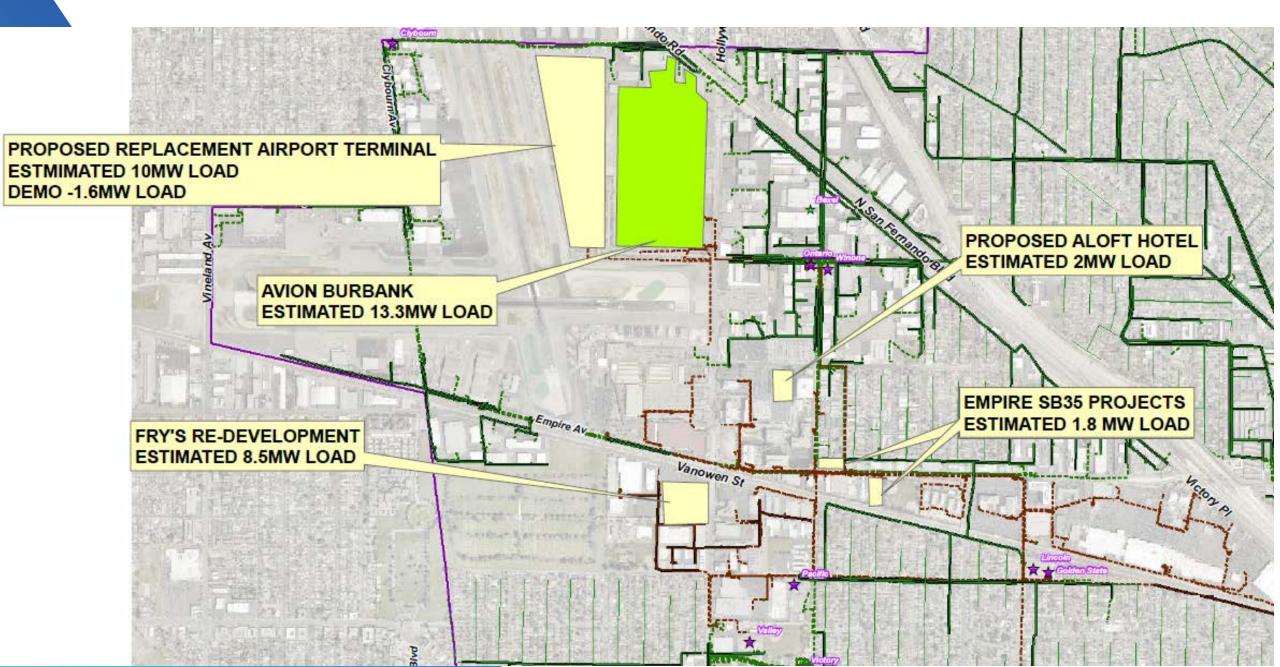
Project (In 000's)	FY 23-24 Proposed	FY 24-25 Proposed
4kV to 12kV Conversions	\$5,500	\$5,500
Media District 12kV Capacity	\$4,600	
Replace Deteriorated Overhead/Underground Electrical Dist. Lines	\$2,750	\$2,822
Campus Stormwater Management Program	\$1,967	\$1,311
Regional Intermodal Transportation Center (RITC) Solar and Battery	\$1,700	
Meter Data Management System Replacement/Upgrade	\$1,500	
ECC GIS Integration to Utility Network Model	\$750	
EcoCampus Solar and Storage	\$750	
Citywide Solar and Storage	\$700	\$10,000
Ontario Substation- 3rd Bank and Line		\$4,174
Replacement of AMI	\$183	\$2,263
Customer Payment Options		\$800
Other Remaining Projects	\$12,414	\$8,964
Total Electric Fund CIP Projects	\$32,814	\$35,834



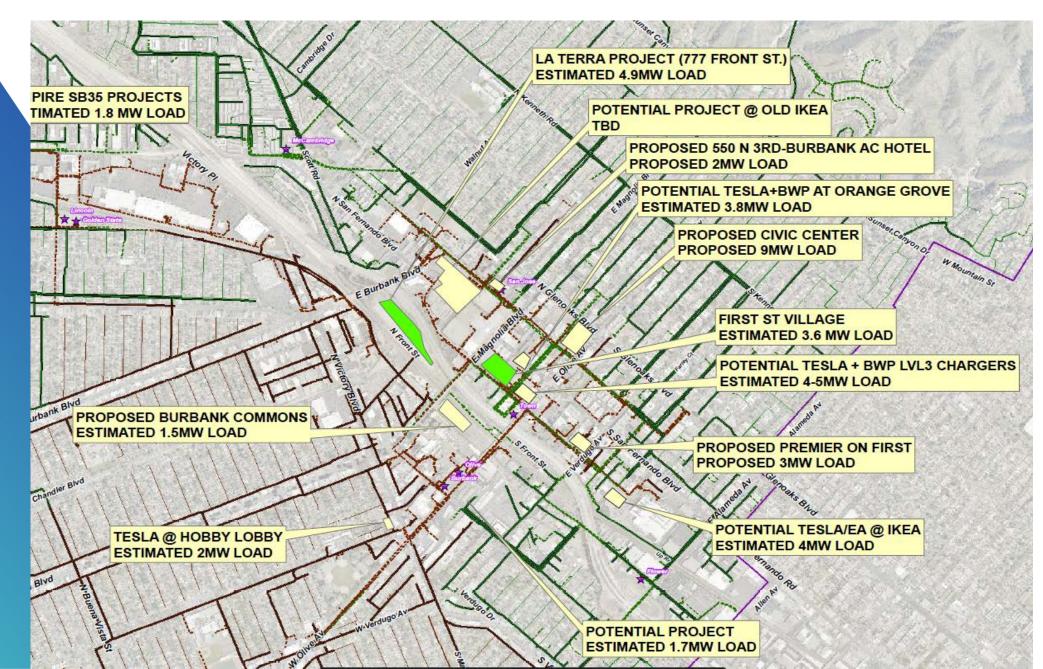
Electric Aid-in-Construction

Project (In 000's)	FY 23-24 Proposed	FY 24-25 Proposed
Build Service to Large Project Over 1 MVA	\$8,000	\$8,000
Media District 12kV Capacity (AIC Share)	\$5,500	
Ontario Substation- 3rd Bank and Line (AIC Share)	\$2,000	
Build New Customer Transformer Stations, 750 kVA & Under	\$1,200	\$1,400
Provide Fiber Optic Services to Business Customers City Wide	\$250	\$250
69kV Line Metering and Protection Upgrades	\$31	\$31
Total Electric Fund AIC Projects	\$16,981	\$9,681

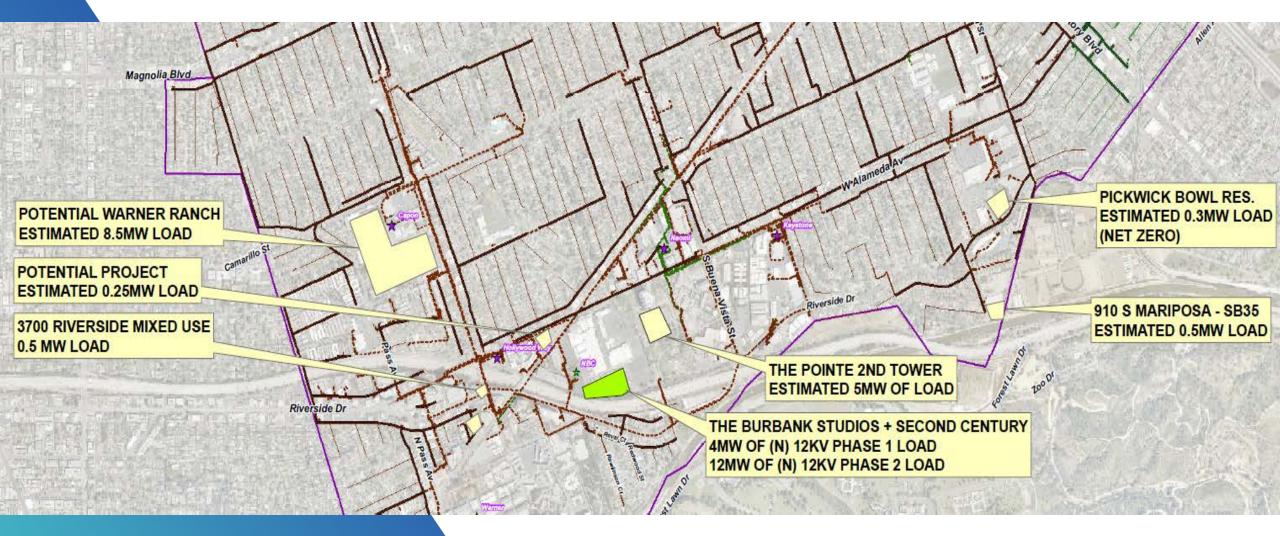
Golden State Developments



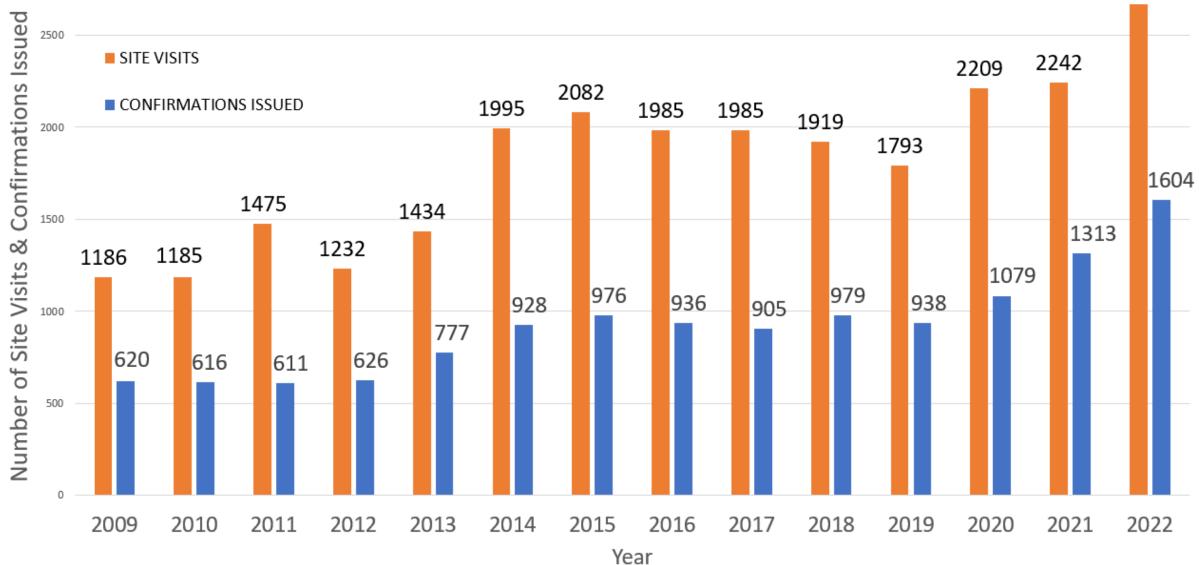
Downtown Developments



Media District Developments



Site Visits and Confirmations







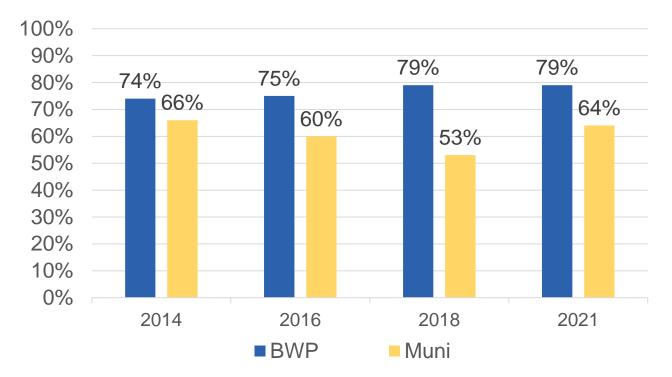
Up to 356 employees including

- 3.5 new positions
- 8 upgrades



Residential Customer Satisfaction

2021 Independent Survey of Residential Customer Satisfaction – *Very Satisfied*



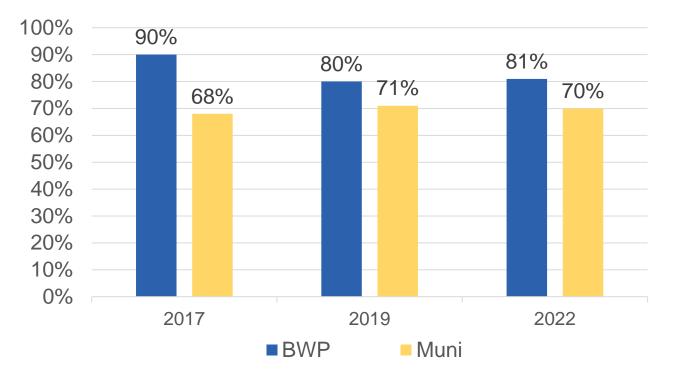
"Top 3 Box" = 8, 9, 10 on 0 = Dissatisfied to 10 = Very Satisfied scale. Base is customers contacting utility. (C-3a)

30



Commercial Customer Satisfaction

2022 Independent Survey of Commercial Customer Satisfaction



Sustainability Programs FY 2021-2022



Investments: \$1.2M in electric \$116k in water

\$758k in LCFS

Over 6.8 million kWh of energy saved Over 34.5 million gallons of water saved

Community Benefits

FY 2021-2022

Over \$865k in customer energy and water bill savings

EE programs avoided 4,709 metric tons of GHG emissions EV public charging sessions reduced 290 metric tons of GHG emissions

FY 2021-2022

\$2.3M in Utility Assistance





1,711 households active on Lifeline Rate

115 COVID Job-loss bill credits

80+ refrigerators replaced

\$1.2M CA Arrearage Payment

\$0.3M CA Water Arrearage Payment

\$0.2M CA Water-Waste Arrearage Payment

FY 2022-2023 YTD





\$0.6M California Arrearage Payment

\$0.4M in Lifeline, BUSS, Project Share



205 Residential payment arrangements for \$0.4M



FY 23/24 Assistance Programs

	Benefit	Income Qualification (family of 4)	Other Requirements
Lifeline Rate Assistance	40% off electricity No 7% UUTax	\$59,550	62+ or disabled household member
Federal Home Energy Assistance Program (HEAP)	Utility assistance + weatherization and energy efficiency	\$59,187	-
Life Support Rate	No 7% UUTax	None	In-home life- support equipment

FY 23/24 Assistance Programs (con't)

	Benefit	Income Qualification (family of 4)	Other Requirements
Burbank Utility Service Subsidy	12% electric rate discount	\$92,600	-
Project Share	\$100 bill credit for water or electric	\$92,600 or	Job Loss
Payment Arrangements	Up to 24 months	None	-



Making a Difference

Via email, phone or in person.

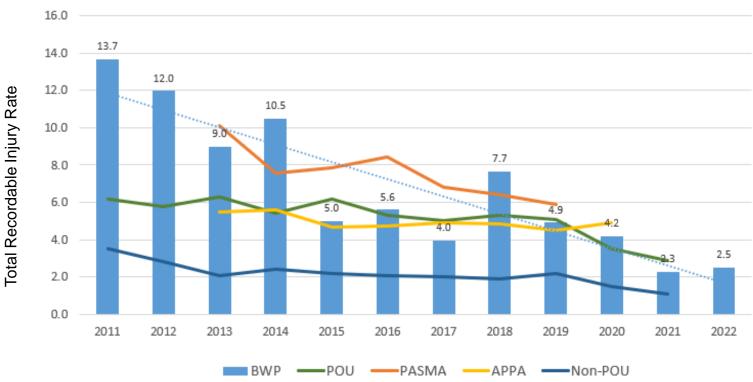
Payment arrangements available for every income level.

"Always there for you!"



Safety

OSHA Total Recordable Injury Rate (TRIR)



OSHA Recordable Injury Rate – Recordable cases per 100 full time employees. **POU** – Publicly Owned Utilities – Bureau of Labor Statistics **PASMA** – Public Agency Safety Management Association (Utilities only data) APPA – American Public Power Authority – Avg. recordable injury rate, all respondents **Non-POU** – Not a Publicly Owned Utility 39

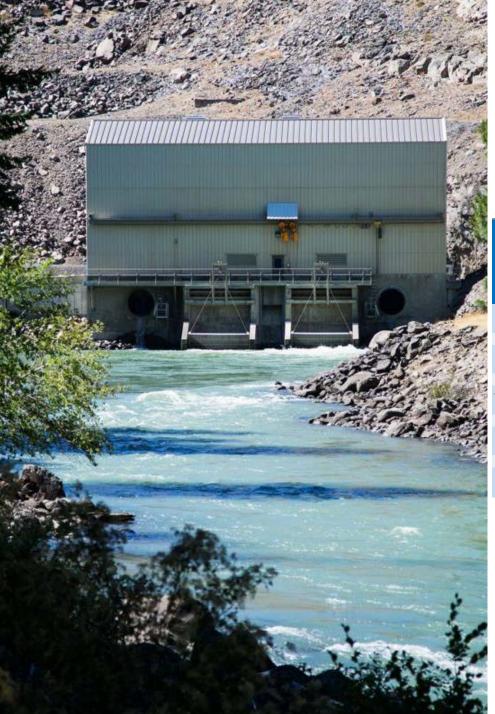
MPP Joint Power Authority



Proposed Budget

	(\$ in 000's)	FY 22-23 Adopted	FY 23-24 Proposed	FY 24-25 Proposed
	Description	Budget	Budget	Budget
- Arit	Est. Net Generation in MWh	1,320,480	1,459,523	1,261,955
Ell .	Operating and Maintenance Expenses	\$ 23,593	\$ 26,620	\$ 28,473
	Capital Expenditures	\$ 558	\$1,190	\$1,118
1	Operating Agent Budget (Fund 483)	\$ 24,151	\$ 27,809	\$ 29,591

Tieton Joint Power Authority

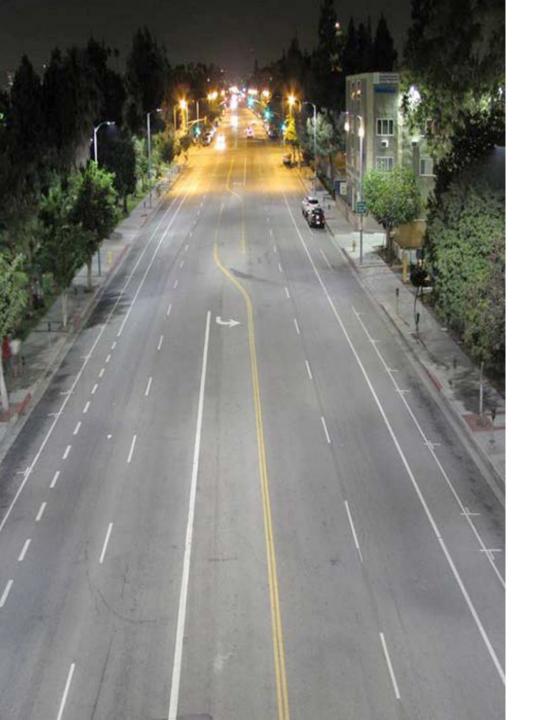


Proposed Budget

n h	(\$ in 000's)	F١	(22-23	FY	23-24	F	(24-25
2.3		A	dopted	Pro	posed	Pr	oposed
	Description	В	udget	В	udget	В	udget
	Est. Generation in MWh		47,299		47,704		47,704
	Operating and Maintenance Expenses	\$	1,826	\$	1,734	\$	1,770
にため	Transmission Expenses	\$	95	\$	95	\$	95
12.19	Capital Expenditures	\$	161	\$	51	\$	52
LA NO	Operating Agent Budget (Fund 133)	\$	2,082	\$	1,880	\$	1,917

Street Lighting Fund

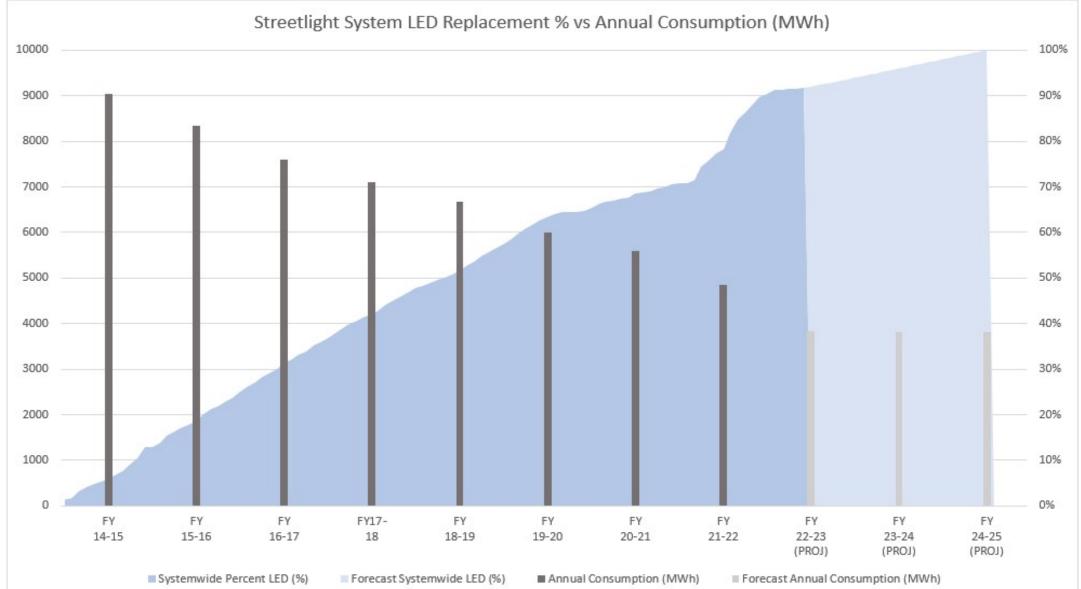




Proposed Budget

(\$ in 000's)						
	F	22-23	F١	23-24	F١	(24-25
	Ac	lopted	Pro	oposed	Pro	oposed
Description		udget	В	udget	В	udget
Transfers	\$	2,660		2,884		3,182
Operating Expenses						
Utilities	\$	674	\$	610	\$	659
Street Lighting Maintenance	\$	337	\$	842	\$	867
Other Operating Expenses	\$	284	\$	458	\$	250
Total Operating Expenses	\$	1,295	\$	1,910	\$	1,776
Net Income	\$	1,365	\$	974	\$	1,406
Other Income						
Interest/Other Income and (Expense)	\$	81	\$	262	\$	72
Aid-in-Construction	\$	625	\$	800	\$	1,560
Total Other Income	\$	706	\$	1,062	\$	1,632
Net Change in Net Assets (Net Income)	\$	2,070		2,036		3,038
Capital Expenditures	\$	2,142	\$	2,009	\$	4,144
Cash Balance at June 30	\$	1,449		1,476		370

LED Conversions



ONEBurbank

Customers keyc•de DISNEY nickelodeon. **NBCUniversal**

PARTNERS PARTNERS deluxe FOTOKEM







- Animation Guild
- Buddy's All Stars
- Burbank Studios
- BUSD
- Cast & Crew
- Catalina Media
- CBS
- Century Link
- Critical Content
- Deluxe
- Digital Preservation Labs
- Disney •
- Entertainment Partners
- Estrella Media
- FotoKem
- Hasbro

- Keycode Media
- Mobeon Media •
- Moviola •
- Music Express •
- NBC Universal •
- New Wave Entertainment •
- MSG Entertainment •
- Pixelogic Media •
- Producers/Writers Guild
- SAG
- Sohonet
- Burbank YMCA •
- Viacom Inc. (Nickelodeon)
- Warner Brothers
- Worthe Real Estate

ONEBurbank Revenues





Annual Broadband Benefits

- \$586k BWP cost savings
- \$659k City departments cost

savings

• \$373k BUSD cost savings

Communications Fund



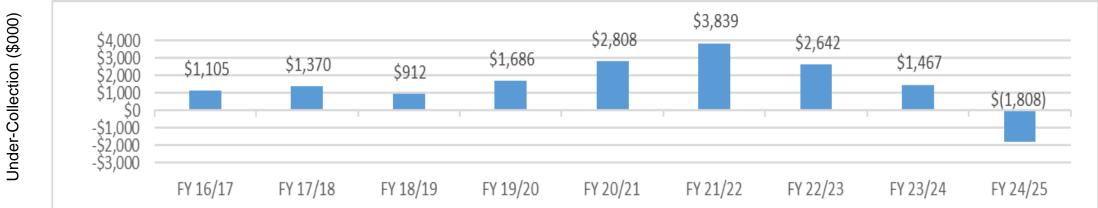
Proposed Budget

	(\$ in 000's)	А	FY 22-23 Adopted Budget	Pr	Y 23-24 oposed Budget	Pr	7 24-25 oposed Judget
	Revenues						
	Charges for Services	\$	3,069	\$	3,234	\$	3,297
	Total Operating Revenues	\$	3,069	\$	3,234	\$	3,297
	Operating Expenses						
	Operations and Maintenance	\$	2,533	\$	2,882	\$	3,248
ALC: NO	Depreciation	\$	819	\$	844	\$	827
	Total Operating Expenses	\$	3,352	\$	3,726	\$	4,075
Contraction of the local distribution of the	Operating Income (Loss)	\$	(283)	\$	(492)	\$	(778)
	Interest & Other Income	\$	69	\$	135	\$	111
	Total Operating Income (Loss)	\$	(214)	\$	(357)	\$	(668)
	Extraordinary Expenses						
	Pension Repayment Plan	\$	(56)	\$	(21)	\$	(18)
	Net Change in Net Assets (Net Income)	\$	(270)	\$	(378)	\$	(685)
X	Capital Expenditures	\$	1,009	\$	1,365	\$	315
	Ending Cash at June 30	\$	5,414	\$	4,515	\$	4,342

Water Fund

Under-Collection

	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	FY 24-25
Customer Rate Increase %	3.4%	3.4%	4.9%	4.9%	0.0%	6.0%	9.0%	9.0%	9.0%
Under-Collection from Prior Year	\$551	\$1,105	\$1,370	\$912	\$1,686	\$2,808	\$3,839	\$2,642	\$1,467
New Drivers	\$3,506	\$2,318	\$1,618	\$2,342	\$1,554	\$2,145	\$4,443	\$3,428	\$469
New Reductions	(\$2,202)	(\$1,267)	(\$861)	(\$325)	(\$432)	(\$117)	(\$1,318)	(\$1,925)	(\$683)
Rate Increase	(\$750)	(\$786)	(\$1,215)	(\$1,243)	-	(\$997)	(\$4,322)	(\$2,678)	(\$3,060)
Projected Under- Collection	\$1,105	\$1,370	\$912	\$1,686	\$2,808	\$3,839	\$2,642	\$1,467	(\$1,808)



Rate Drivers FY 23-24

(\$ in 000's)	\$	Rate Requirement
Under-collection from prior years	\$2,642	8.88%
Higher operating expenses	\$2,121	7.13%
Higher water supply expenses	\$1,307	4.39%
2023-24 rate requirement	\$6,070	20.40%
2023-24 potable rate increase	(\$2 <i>,</i> 678)	(9.00%)
Recycled revenues	(\$458)	(1.54%)
Higher sales volume	(\$928)	(3.12%)
Reduced pension funding plan	(\$367)	(1.23%)
Fee adjustments	(\$172)	(0.58%)
Projected Under-collection	\$1,467	4.93%

Rate Drivers FY 24-25

(\$ in 000's)	\$	Rate Requirement
Under-collection from Prior Years	\$1,467	4.31%
Operation and Maintenance	\$469	1.38%
2024-25 rate requirement	\$2,936	5.69%
2024-25 Potable rate increase	(\$3,060)	(9.00%)
Recycled revenues	(\$342)	(1.01%)
Higher sales volume	(\$249)	(0.73%)
Fee adjustments	(\$92)	(0.27%)
Additional Reserve Replenishment	(\$1,808)	(5.32%)

Highlights and Assumptions

- 9% rate increases in both years
- 5% and 7% increased water costs from MWD
- Lower sales compared to pre-COVID
- Must modernize infrastructure
- 6% system losses
- Water conservation continues
- Matching funds for potential grants

Continued Price Increases

- High inflation for specialty products in FY 22:
 - > 205% for chlorine gas
 - > 14% for paving materials
 - > 59% for water meter boxes
 - > 52% to 79% for ductile iron pipe
- Continued high inflation for specialty products:

Chlorine gas:
>60% FY 23/24
>30% FY 24/25
>Ductile iron pipe: 15% per year



Forecast Assumptions for Years 3-5

- Rate plan that balances affordability, reliability, and sustainability
- Maintain a sustainable work force
- Higher water supply costs
- Higher water sales from development
- Continued emphasis on water conservation
- Investments in modernizing infrastructure
- Replenish cash reserves
- Continue rate plan toward full cost recovery

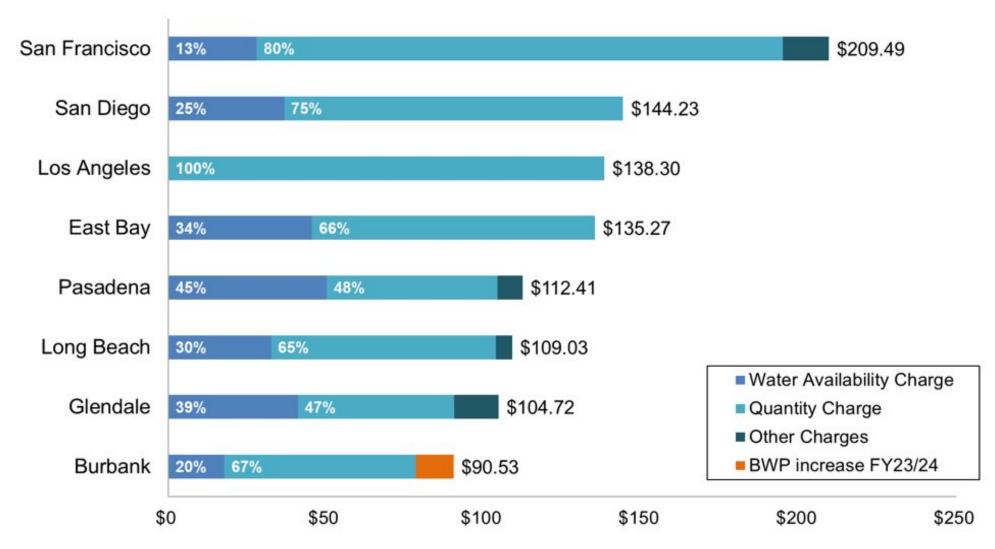


Future Costs Not Included in the 5-year Forecast

- Future staffing needs
- Increase in pipeline replacement rate
- Revenue loss due to uncertain and highly variable climatic conditions
- MWD rate increases to construct the delta conveyance project and other regional water supply projects not yet approved by their board
- Future regulations and permit requirements to treat new and emerging contaminants

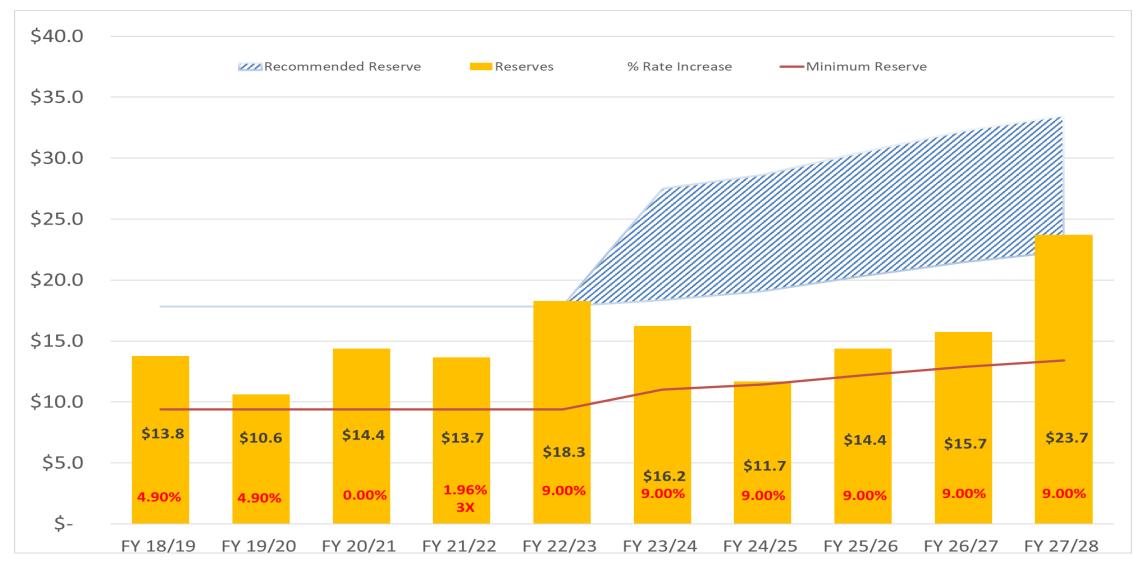
Residential Bill Comparison

Medium home: 12,000 gallons with a 1" connection



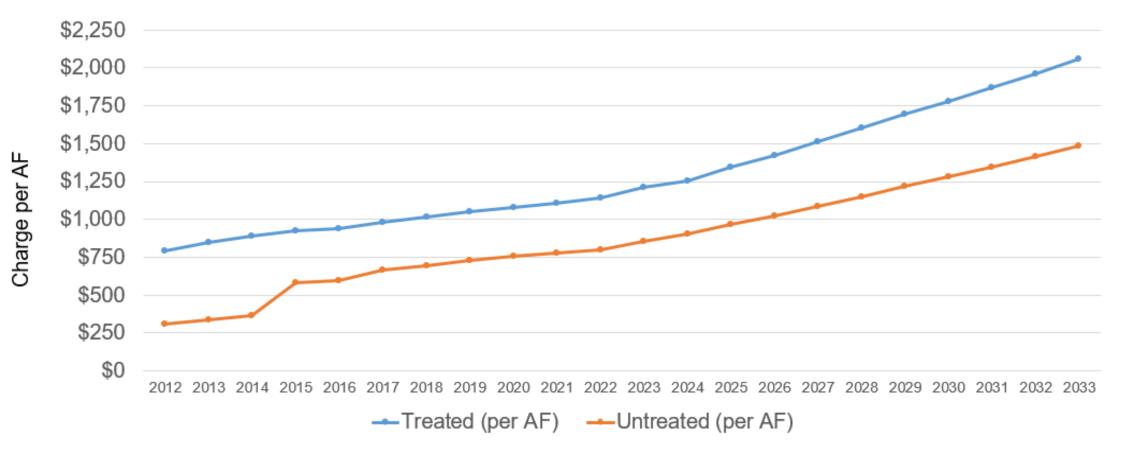
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Cash Reserves in Millions \$



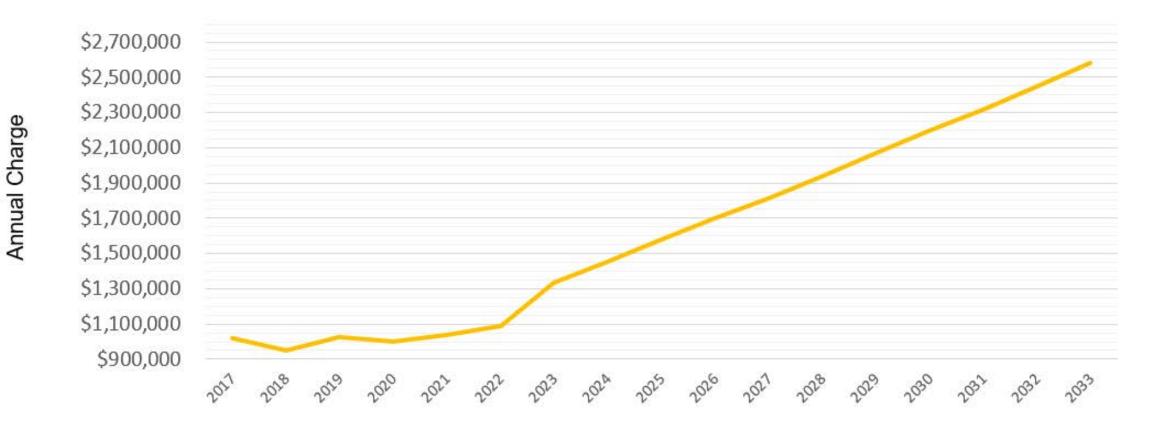


MWD Variable Charges Rate Outlook



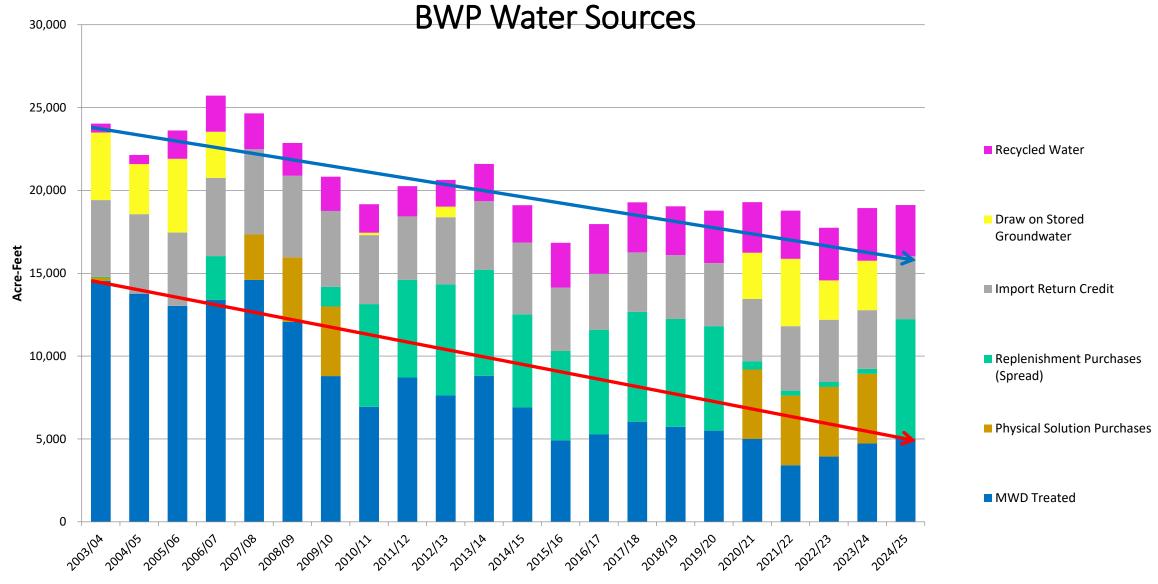


MWD Fixed Charges Rate Outlook

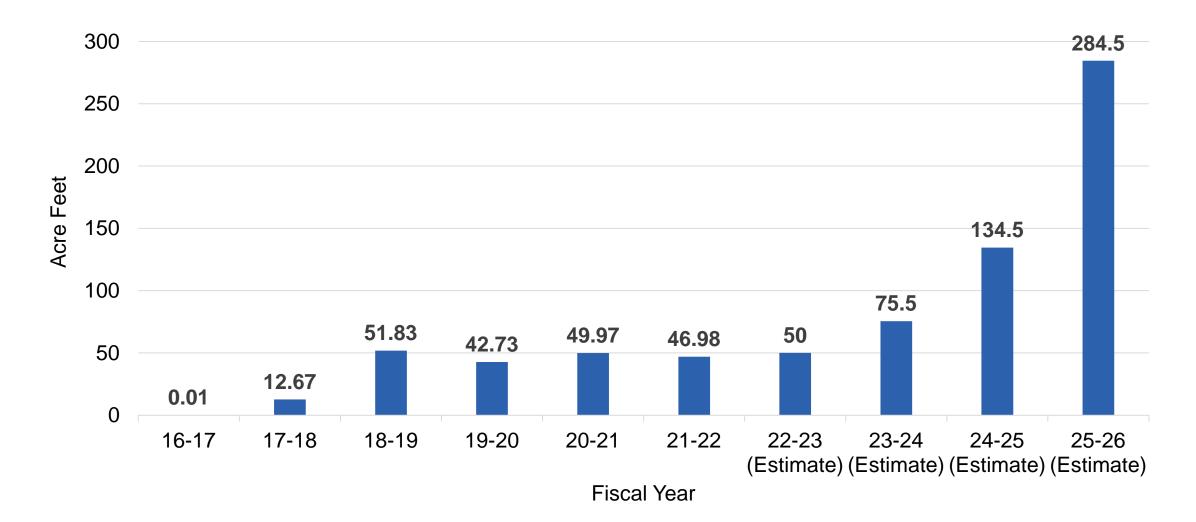


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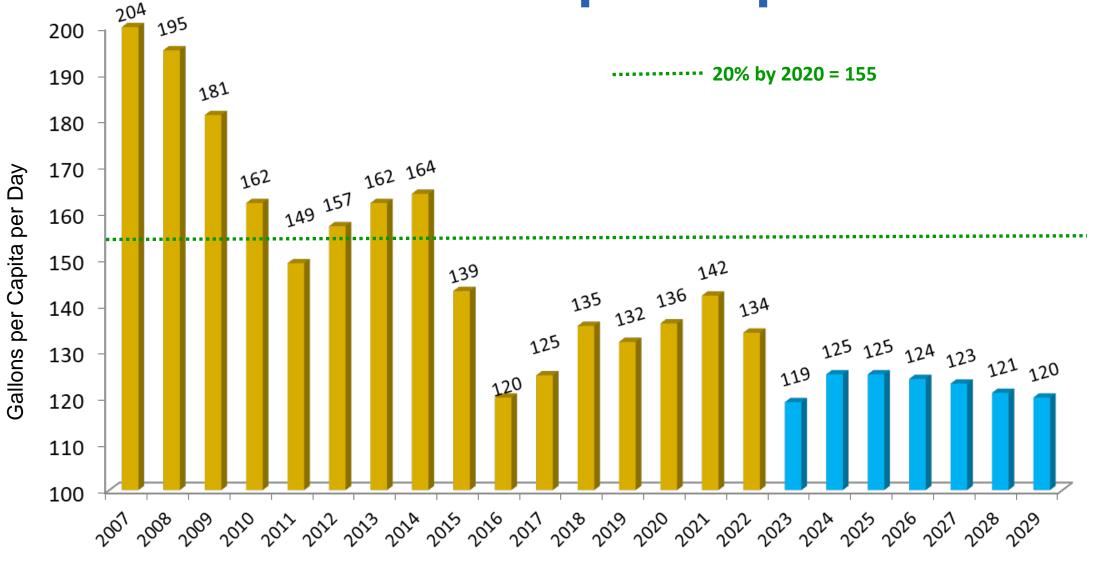
Water Planning



LA Exchange



Water Use per Capita



Gallons per day for fiscal years ending June 30th

Income Statement

\$ in 000's	FY 22-23 Adopted Budget		FY 23-24 Proposed Budget	FY 24-25 Proposed Budget		
Total Operating Revenues	Ş	35,996	\$ 40,868	Ş	44,861	
WCAC Expense	\$	12,732	\$ 15,230	\$	15,485	
Gross Margin	Ş	23,264	\$ 25,638	\$	29,376	
Total Operating Expenses						
(incl Depreciation)	\$	21,831	\$ 23,767	\$	24,115	
Operating Income/(Loss)	Ş	1,433	\$ 1,871	\$	5,261	
Other Income / (Expense)	Ş	(2,418)	\$ (2,050)	Ş	(2,034)	
Net Income (before AIC)	\$	(985)	\$ (179)	\$	3,228	
Capital Contributions (AIC)		684	634		634	
Change in Net Assets	\$	(301)	\$ 455	\$	3,862	

Potable Capital Improvements

Project (In 000's)	FY 23-24 Proposed	FY 24-25 Proposed
Potable Water Mains	\$2,605	\$2,970
Upper Zones Disinfection Residual Improvement/Upper Zones CL2 Booster	\$1,938	\$1,791
Design-Build Pipeline Project	\$1,690	
FEMA Seismic Pipeline Retrofit Grant	\$1,607	
System Expansion Services (AIC)	\$550	\$550
Meter Replacements	\$369	\$377
Pipeline Condition Assessment (various technologies)	\$250	
VPP Disinfection System		\$250
Valve Replacements	\$150	\$150
Other Remaining Projects	\$865	\$818
Total for Potable Water System	\$10,024	\$6,905
Water Fund's Shared Projects	\$945	\$496



Recycled Capital Improvements

Project (In 000's)	FY 23-24 Proposed	FY 24-25 Proposed
RW Interior Tank Coating	\$270	\$107
Potable Reuse - Study/Program	\$200	\$200
Meters - Recycled Water	\$36	\$37
SCADA Software Upgrade		\$35
Other Remaining Projects	\$88	\$69
Total for Recycled Water	\$594	\$448



2		
	Year	Break/ Leak
	2012	23
	2013	27
「「「「「「「」」	2014	27
あったのでした	2015	13
	2016	16
A CONTRACT	2017	23
	2018	25
	2019	16
	2020	17
674	2021	17
	2022	14

Pipe Age and Break History

- 278 miles of pipe in Burbank
- 30 miles of pipe that are 100+ years old
- Aged pipe is cast iron
- Break history calendar year
- Reliability exceeded 99.999% consistently over the last five years



Water Main Monitoring & Condition Assessment

- Statistical Study/Machine Learning:
 - Pipeline risk assessment using artificial intelligence to determine:

≻Likelihood of Failure (LoF)

➤Consequence of Failure (CoF)

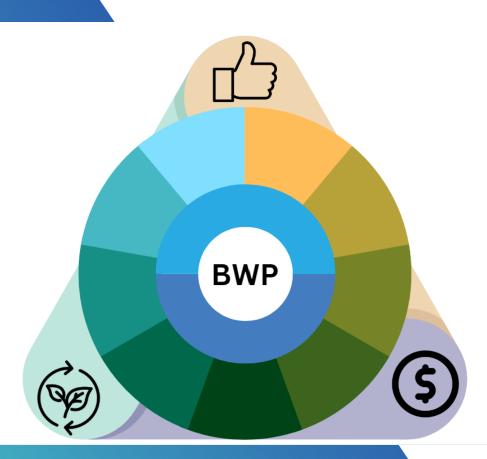
- Satellite Leak Detection
 - Images of our water system
 - ≽34 potential leaks were investigated
 - ▶13 locations were actual leaks that were immediately repaired



Water Main Monitoring & Condition Assessment

- Automated Leak Detection:
 - 40 devices installed on critical pipelines
 Detects leaks when they are small
 One leak was identified and repaired
- Acoustic Signal Processing:
 - ➢Predicts life-span of pipe
 - Approximately 10,000 feet of pipeline was surveyed

BWP Budget Summary



- Extreme climate variability
- Increased focus on sustainability
- Balance affordability with prudent financial planning to reduce past revenue shortfalls
- Continue investments to maintain reliability
- Invest in our employees who continue to rise to the challenge

Questions?



WATER AND POWER