

Burbank Water and Power Fiscal Year 2024-25 Proposed Budget Electric Fund Capital Plan

DRAFT
Subject to Review and Change

	2024-25 Proposed	2025-26 Forecast	2026-27 Forecast	2027-28 Forecast	2028-29 Forecast	FY 2024-25 to FY 2028-29 Forecast Total
Power Supply Improvement Projects	10,775,000	10,515,000	16,075,000	16,315,000	20,375,000	74,055,000
Operations Technology	455,947	-	300,000	-	1,350,000	2,105,947
Distribution Expansion Projects	7,306,628	5,652,350	2,792,500	5,380,000	7,226,350	28,357,828
Distribution Replacement Projects	13,443,195	18,939,904	13,588,690	14,457,450	18,879,770	79,309,009
New Customer Projects/AIC	9,680,800	7,153,339	7,203,189	10,438,609	7,717,259	42,193,195
Facility Renovations	1,755,308	370,610	391,300	279,900	165,000	2,962,118
ONE Burbank	560,829	500,000	500,000	500,000	500,000	2,560,829
Finance, Warehouse and Fleet Facility	622,500	-	1,625,000	907,500	-	3,155,000
Customer Service	800,000	-	-	-	-	800,000
Sustainability and Marketing	-	-	50,000	150,000	50,000	250,000
Security	612,128	150,000	200,000	150,000	100,000	1,212,128
Water Fund's share of common projects	(496,277)	(59,870)	(222,375)	(228,801)	(210,725)	(1,218,047) (A)
Total CIP	\$ 45,516,058	\$ 43,221,333	\$ 42,503,304	\$ 48,349,658	\$ 56,152,654	\$ 235,743,007
Capital Outlay	4,100,000	4,182,000	4,265,640	4,350,953	4,437,972	21,336,565
Information Technology	154,875	150,000	121,070	123,491	125,961	675,397
Master Fleet Plan	600,000	6,174,050	2,585,375	2,892,500	3,400,000	15,651,925
Total Capital Outlay	\$ 4,854,875	\$ 10,506,050	\$ 6,972,085	\$ 7,366,944	\$ 7,963,933	\$ 37,663,887
Grand Total for Electric CIP	\$ 50,370,933	\$ 53,727,383	\$ 49,475,389	\$ 55,716,602	\$ 64,116,587	\$ 273,406,894

(A) -Includes 12.5% for Customer Service, 20% for Security, 11.5% for Operations Technology, Facilities, and Finance, and varies for Sustainability when applicable.

**Burbank Water and Power
Fiscal Year 2024-25 Proposed Budget
Electric Fund Capital Improvement Projects (CIP)**

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Subject to Review and Change**

	E	BW	BX	BY	BZ	CA	CG
1	Project	FY 24-25 Proposed	FY 25-26 Forecast	FY 26-27 Forecast	FY 27-28 Forecast	FY 28-29 Forecast	FY 2024-25 to 2028-29 Forecast Total
3							
4	Power Supply Improvement Projects						
9	Cyber & Physical Security Systems (ECC)		40,000		40,000		80,000
14	SCADA Hardware			600,000			600,000
22	Backup Control Center (ECC)			50,000			50,000
24	Energy Trading Risk Management Software Replacement			150,000	1,000,000		1,150,000
35	Transmission Distribution Management System	300,000	200,000			100,000	600,000
48	Unidentified ECC Hardware and Software	75,000	75,000	75,000	75,000	75,000	375,000
52	Citywide Solar and Storage	10,000,000	10,000,000	15,000,000	15,000,000	20,000,000	70,000,000
55	Pacific Northwest DC Intertie	400,000	200,000	200,000	200,000	200,000	1,200,000
56	Sub-Total	10,775,000	10,515,000	16,075,000	16,315,000	20,375,000	74,055,000
57							
58	Operations Technology						
59	Operational Reliability	150,460					150,460
60	Networking Infrastructure	157,578		200,000			357,578
62	Data Center Hardware	147,909				1,250,000	1,397,909
68	Enterprise Data and Information Architecture Implementation			100,000		100,000	200,000
69	Sub-Total	455,947	-	300,000	-	1,350,000	2,105,947
70							
71	Distribution Expansion Projects						
78	Upgrade 34.5 kV Lines				200,000		200,000
80	Install 34kV PTs for Metering and Protection					200,000	200,000
81	Upgrade 34kV Line & Cap Bank Relays TBD	260,000			260,000	260,000	780,000
82	Replace 34kV GE Relays	150,000	210,000	210,000			570,000
88	Upgrade 69 kV Line & Cap Bank Relays TBD (Dept)				225,000	225,000	450,000
89	69kV Line Metering and Protection Upgrades	169,200					169,200
90	Replace GE Relays on 69kV Lines TBD (Dept Share)		642,750				642,750
91	VAR Balancing		25,000	25,000	175,000	175,000	400,000
108	Breaker Fail Program	150,000	150,000	150,000	150,000	150,000	750,000
110	Customer Meter Voltage Monitoring				50,000	250,000	300,000
124	Install Transformer Bushing Monitoring				50,000	300,000	350,000
125	Install Transformer Gas Monitor at RSE & Switching Stations (Dept Share)					299,950	299,950
132	Install Transformer Gas Monitor at BWP Stations-TBD	125,000	125,000				250,000
133	Install Transformer Temperature Monitors-TBD	115,000	115,000				230,000
134	Sudden Pressure Relay Replacement	100,000					100,000
146	Station Capacitor Bank Upgrade -TBD	150,000					150,000
147	Upgrade Reactors at Substations-TBD		200,000		200,000	200,000	600,000
150	Standardized Capacitor Bank Control Upgrade				200,000	200,000	400,000
170	Bus Differential Relay Upgrade (34kV)-TBD			200,000	250,000		450,000
171	Bus Differential Relay Upgrade (69kV)-TBD (Dept)		257,100			171,400	428,500
174	Valley Station 34kV bypass to Lincoln after Decommission				300,000		300,000

**Burbank Water and Power
Fiscal Year 2024-25 Proposed Budget
Electric Fund Capital Improvement Projects (CIP)**

**DRAFT
Subject to Review and Change**

	E	BW	BX	BY	BZ	CA	CG
1	Project	FY 24-25 Proposed	FY 25-26 Forecast	FY 26-27 Forecast	FY 27-28 Forecast	FY 28-29 Forecast	FY 2024-25 to 2028-29 Forecast Total
3							
175	Repurpose Clybourn-industrial to Lincoln-Capon 34kV Connection				500,000		500,000
189	Drawing Document System	100,000					100,000
194	Upgrade Work Force Management Software	100,000				150,000	250,000
195	Upgrade Geographic Information System (GIS)	272,948				300,000	572,948
197	Implement New Analytics Modules		50,000				50,000
198	Meter inventory System					100,000	100,000
205	Feeder & Cap Bank Relay Upgrade (4/12kV)-TBD		500,000			350,000	850,000
206	Bus Differential Relay Addition (4/12kV)		350,000	350,000	350,000		1,050,000
209	Station Remote Terminal Unit (RTU) Replacement	423,327	600,000	300,000			1,323,327
214	Seismic Electrical Conections Improvements-TBD	50,000			250,000	250,000	550,000
215	Electric Vehicle Charging Program	380,000	1,565,000	1,135,000	970,000	945,000	4,995,000
216	Electric Distribution Masterplan Update		500,000			500,000	1,000,000
217	DC Panel Upgrades TBD	100,000				100,000	200,000
218	Back-up Service to Energy Control Center				500,000		500,000
219	Station Security	50,000	50,000	50,000	50,000	50,000	250,000
221	Substation Security Enhancements	100,000	100,000	100,000			300,000
224	Wi-Fi Mesh Improvements	50,000		60,000			110,000
227	Application Enhancements	100,000	50,000	50,000	50,000	50,000	300,000
246	Pacific Substation Site Restoration				150,000		150,000
250	Ontario Substation- 3rd Bank and Line	4,173,653					4,173,653
251	Downtown District Capacity Upgrade (Dept Share)				500,000	2,000,000	2,500,000
252	Fiber Optic Infrastructure Expansion	187,500	162,500	162,500			512,500
253	Sub-Total	7,306,628	5,652,350	2,792,500	5,380,000	7,226,350	28,357,828
254							
255	Distribution Replacement Projects						
284	4kV to 12kV Conversions	5,500,000	5,500,000	5,500,000	5,500,000	10,500,000	32,500,000
285	Media District 12kV Capacity		4,710,000				4,710,000
287	Underground Existing Overhead Electric Lines	400,000	400,000	400,000	400,000	400,000	2,000,000
289	Replace Deteriorated Underground Electrical Dist. Lines	821,700	829,320	832,440	836,200	838,520	4,158,180
290	Replace Deteriorated Overhead Electrical Dist. Lines	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	10,000,000
291	Replace Services	560,000	565,000	570,000	575,000	580,000	2,850,000
296	Replace 69 kV and 34.5 kV Lines Due to Deterioration	405,000	405,000	410,000	410,000	415,000	2,045,000
297	Replacement of AMI	2,263,287	1,800,000	1,800,000	1,800,000	1,800,000	9,463,287
298	Performance Meters	20,000	20,000	20,000	20,000	20,000	100,000
300	Fiber Optic Infrastructure Replacement	100,000	100,000	100,000	100,000	100,000	500,000
302	Replace Obsolete Equipment and Minor System Upgrades at Substations	300,000	300,000	300,000	300,000	300,000	1,500,000
304	Replace Station 69kV Equipment at RSE- LADWP TIE-TBD		1,071,250	1,071,250	1,071,250	1,071,250	4,285,000
308	Replace Station Medium Voltage Oil/Air Circuit Breakers with Vacuum Circuit Breakers at TBD	200,000	200,000	200,000	360,000	360,000	1,320,000
311	Replace Station High Voltage Oil Circuit Breakers 34kV - TBD	260,000	260,000	260,000	260,000	260,000	1,300,000
318	Replace Batteries & Charger at TBD					110,000	110,000

**Burbank Water and Power
Fiscal Year 2024-25 Proposed Budget
Electric Fund Capital Improvement Projects (CIP)**

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	E	BW	BX	BY	BZ	CA	CG
1	Project	FY 24-25 Proposed	FY 25-26 Forecast	FY 26-27 Forecast	FY 27-28 Forecast	FY 28-29 Forecast	FY 2024-25 to 2028-29 Forecast Total
3							
320	Ground Grid Improvements	123,208	124,334				247,542
321	Substation Improvements-EHS Safety Recommendations	100,000					100,000
322	Substation Plumbing Upgrades & Safety Shower Replacements	90,000	130,000				220,000
323	Substation Water Flow Backflow Device Addition	50,000					50,000
332	Distribution Substation Transformer Fire Walls Addition	125,000	125,000	125,000	125,000	125,000	625,000
334	Victory Decommissioning				300,000		300,000
336	Replace Station Communication Processors (SEL-2030s)	125,000					125,000
337	Upgrade Transformer to Low Side Breaker Cable		400,000				400,000
338	Upgrade Switchgear Getaway 4 kV Cable				400,000		400,000
359	Sub-Total	13,443,195	18,939,904	13,588,690	14,457,450	18,879,770	79,309,009
360							
361	Aid In Construction (AIC)						
362	Build New Customer Transformer Stations, 750 kVA & Under	1,400,000	1,600,000	1,800,000	2,000,000	2,200,000	9,000,000
367	Build Service to Large Project Over 1 MVA	8,000,000	5,000,000	5,000,000	5,000,000	5,000,000	28,000,000
373	Replace Station 69kV Equipment at RSE- LADWP TIE-TBD (AIC Share)		153,189	153,189	153,189	153,189	612,755
374	Install Transformer Gas Monitor at RSE & Switching Stations (AIC Share)					50,050	50,050
380	Updgrade 69 kV Line & Cap Bank Relays TBD (AIC Share)				35,420	35,420	70,840
381	69 kV Line Metering and Protection Upgrades	30,800					30,800
382	Replace 69kV GE Relays AIC (MPP Share)		107,250				107,250
387	Bus Differential Relay Upgrade (69kV)-TBD (AIC Share)		42,900			28,600	71,500
393	Downtown District Capacity (AIC Share)				3,000,000		3,000,000
394	Provide Fiber Optic Services to Customers City Wide	250,000	250,000	250,000	250,000	250,000	1,250,000
399	Sub-Total	9,680,800	7,153,339	7,203,189	10,438,609	7,717,259	42,193,195
400							
401	Electric Total	29,693,123	31,083,093	22,861,879	29,876,059	33,423,379	146,937,532
402							
403	Facility Renovations						
404	Campus Stormwater Management Program	1,311,408					1,311,408
405	Roof Replacement Program	100,000	100,000	100,000	100,000	100,000	500,000
407	HVAC Upgrade for Campus Buildings	268,900	245,610	266,300	154,900	40,000	975,710
412	BWP Audio and Video Life Cycle Program	25,000	25,000	25,000	25,000	25,000	125,000
413	Assets Management Ticketing System	50,000					50,000
435	Sub-Total	1,755,308	370,610	391,300	279,900	165,000	2,962,118
436							
437	ONE Burbank						
438	ONE Burbank Network Infrastructure Expansion	500,000	500,000	500,000	500,000	500,000	2,500,000
439	Geographic Information System (GIS) Upgrades	60,829					60,829
447	Sub-Total	560,829	500,000	500,000	500,000	500,000	2,560,829
448							

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1	Project	FY 24-25 Proposed	FY 25-26 Forecast	FY 26-27 Forecast	FY 27-28 Forecast	FY 28-29 Forecast	FY 2024-25 to 2028-29 Forecast Total
3							
449	Finance, Warehouse and Fleet Facility						
454	Vertical Lift Modules			800,000			800,000
467	Oracle to Cloud or ERP Replacement *			825,000	907,500		1,732,500
468	Work Order Asset Management System Upgrades	372,500					372,500
473	Capital Planning and Accounting Mgmt Syst/Study	250,000					250,000
476	Sub-Total	622,500	-	1,625,000	907,500	-	3,155,000
477	* Driven by City Finance						
478							
479	Customer Service						
484	Customer Payment Options	800,000					800,000
493	Sub-Total	800,000	-	-	-	-	800,000
494							
495	Sustainability and Marketing						
496	CRM Tool - Free Agent/Responsys				50,000		50,000
497	Enterprise Data Platform - SMS Analytics Use Case			50,000			50,000
499	Website Upgrade (5 year cycle updates)				100,000	50,000	150,000
505	Sub-Total	-	-	50,000	150,000	50,000	250,000
506							
507	Security						
508	OT Cyber Security Protection & Monitoring	562,128	150,000	50,000	150,000		912,128
510	BWP Enterprise Physical Security	50,000		150,000		100,000	300,000
511	Sub-Total	612,128	150,000	200,000	150,000	100,000	1,212,128
522							
523	Water Fund's Share of Common Projects	(496,277)	(59,870)	(222,375)	(228,801)	(210,725)	(1,218,047)
526							
527	Grand Total Electric Fund CIP Projects	45,516,058	43,221,333	42,503,304	48,349,658	56,152,654	235,743,007