

Attachment #1

Electrical Utility Fund

Draft 2025 – 2029 Financial Plan

Capital Plan

2025 Service Enhancements

**CORPORATION OF THE CITY OF NEW WESTMINSTER
ELECTRICAL FUND BUDGET (DRAFT)**

	2025 Budget	\$ Change	Budget Projections			
			2026	2027	2028	2029
REVENUE						
Utility Rates	\$ 64,119,307	\$ 2,070,665	\$ 66,445,664	\$ 68,849,943	\$ 71,334,872	\$ 73,903,274
Sale of Services	54,061	1,575	55,682	57,353	59,074	60,846
Capital Contributions and DCC's	3,600,000	1,500,000	3,400,000	14,000,000	10,000,000	7,000,000
Other Revenue	302,434	(119,236)	391,706	484,024	595,121	707,327
Total Revenues	68,075,802	3,453,004	70,293,052	83,391,320	81,989,067	81,671,447
EXPENSES						
Salaries, Benefits and Training	5,620,280	393,028	5,852,500	6,052,219	6,248,354	6,662,621
Contracted Services	2,211,530	4,260	2,215,790	2,220,050	2,224,310	2,228,570
Supplies and Materials	584,092	-	584,092	584,092	584,092	584,092
Interest Charges	1,967,300	1	1,967,300	2,514,500	2,879,300	5,387,300
Utility Purchases and Levies	36,155,309	1,753,282	36,464,252	36,611,971	36,992,556	37,384,558
Amortization	4,415,000	656,000	4,629,000	5,580,000	6,261,000	8,364,000
Total Expenses	50,953,511	2,806,570	51,712,934	53,562,833	55,189,612	60,611,141
INCREASE IN TOTAL EQUITY	17,122,291	646,433	18,580,119	29,828,487	26,799,455	21,060,306
Reconciliation to Financial Equity						
Amortization and Accretion Expense	4,415,000	656,000	4,629,000	5,580,000	6,261,000	8,364,000
Capital Expenses	(27,390,124)	7,310,236	(11,035,000)	(33,570,000)	(24,300,000)	(81,135,000)
Debt Retirement	(2,796,976)	(92,009)	(2,917,324)	(3,466,160)	(3,902,604)	(5,899,959)
Proceeds on Debt Issuance	-	-	-	12,000,000	8,000,000	55,000,000
Transfer from/(to) Other Funds	(7,208,562)	(1,080,014)	(7,200,950)	(7,218,431)	(7,241,770)	(7,228,272)
Internal Charges	(1,999,822)	-	(2,026,929)	(2,053,120)	(2,079,909)	(2,079,909)
Internal Recoveries	2,849,179	-	2,915,703	2,981,529	3,046,738	3,046,738
CHANGE IN FINANCIAL EQUITY (Reserves)	(15,009,014)	7,440,647	2,944,618	4,082,305	6,582,909	(8,872,096)
Financial Equity , beginning of year	37,370,963	(5,513,461)	22,361,949	25,306,568	29,388,873	35,971,782
FINANCIAL EQUITY (Reserves), end of year	\$ 22,361,949	\$ 1,927,186	\$ 25,306,568	\$ 29,388,873	\$ 35,971,782	\$ 27,099,686

ELECTRICAL FUND CAPITAL BUDGET

CAPITAL EXPENSES						
Land	\$ 9,868,000	\$ 5,868,000	\$ -	\$ -	\$ -	\$ -
Vehicles/Equipment	2,065,506	90,506	100,000	100,000	200,000	245,000
Other Projects	1,817,800	692,800	2,000,000	1,500,000	750,000	750,000
Electrical Distribution System	13,638,818	(13,961,542)	8,935,000	31,970,000	23,350,000	80,140,000
Total Capital Expenses	\$ 27,390,124	\$ (7,310,236)	\$ 11,035,000	\$ 33,570,000	\$ 24,300,000	\$ 81,135,000
FUNDING SOURCES						
Reserve Funds	\$ 23,790,124	\$ (8,810,236)	\$ 7,635,000	\$ 7,570,000	\$ 6,300,000	\$ 19,135,000
Long Term Debt	\$ -	\$ -	\$ -	\$ 12,000,000	\$ 8,000,000	\$ 55,000,000
Contributions	\$ 3,600,000	\$ 1,500,000	\$ 3,400,000	\$ 14,000,000	\$ 10,000,000	\$ 7,000,000
Total Capital Funding	\$ 27,390,124	\$ (7,310,236)	\$ 11,035,000	\$ 33,570,000	\$ 24,300,000	\$ 81,135,000

DRAFT 2025 - 2029 Capital Plan - Electrical

Item #	BU #	Projects	Dept Name	Project Description	2023-2026 Strategic Priority	Proposed 2025-2029 Capital Program					5 year Total (2025-2029)
						2025 Forecast Spend	2026 Forecast Spend	2027 Forecast Spend	2028 Forecast Spend	2029 Forecast Spend	
1	10181	10181 Electrical Utility Equipment	ELE	Project Scope/Outcome: New equipment needed by the utility including a new cable reel to accommodate the new/bigger cables that are being purchased. We also require new storage material for the operations yard as we start storing more of our parts and materials on-site. Estimated Completion: Ongoing	05 Asset Management and Infrastructure	100,000	100,000	100,000	100,000	100,000	500,000
2	10182	10182 Electrical Meters	ELE	Project Scope/Outcome: Installation of electrical meters (on-going)	05 Asset Management and Infrastructure	300,000	300,000	300,000	300,000	300,000	1,500,000
3	10183	10183 Electrical New Services	ELE	Project Scope/Outcome: New Development services (Bossa, Platform, Salter St, East Columbia, Sixth St, Carnarvon St, Quayside Drive, NWACC, Braid St, Keary St & QS Distribution) and City initiatives for undergrounding utility distributions along Front street for the mews and in Queensborough for Ewen Avenue redevelopments. Estimated Completion: Ongoing	05 Asset Management and Infrastructure	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	15,000,000
4	10184	10184 Royal 2 Substation Upgrades	ELE	Project Scope/Outcome: equipment upgrade program to meet worksafe BC safety standards Estimated Completion: Q4-2025	05 Asset Management and Infrastructure	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000
5	11253	11253 Sapperton District Energy Syst	ELE	Project Scope/Outcome: pending signed agreement(s) with third party/developer(s) and Royal Columbian Hospital, the City will build a new District Energy System to avoid and reduce Greenhouse Gas (GHG's) across the City Estimated Completion: TBD	05 Asset Management and Infrastructure	600,000	1,000,000	23,000,000	15,000,000	4,000,000	43,600,000
6	11439	11439 NWR O&M/Capital Sustainment	ELE	Project Scope/Outcome: Ongoing New Westminster Substation capital and asset replacement needs to maintain condition of Substation as determined in conjunction with and in an agreement with BC Hydro over 10-year increments Estimated Completion: Ongoing	05 Asset Management and Infrastructure	1,198,000	1,225,000	880,000	300,000	500,000	4,103,000
7	11640	11640 Distribution Planning	ELE	Distribution planning consultant support for long term plans, load forecasts, voltage conversion planning. Estimated Completion: TBD	05 Asset Management and Infrastructure	967,800	500,000	500,000	250,000	250,000	2,467,800
8	11989	11989 New Queensborough Substation	ELE	Project Scope/Outcome: identified in the 2015 Electric Utility Distribution System Plan (2015-2040); ongoing capital improvement of new Queensborough substation	05 Asset Management and Infrastructure	-	50,000	-	-	-	50,000
9	11990	11990 NWR Feeders	ELE	Project Scope/Outcome: New Westminster Substation was intended to main supply substation for the future development around the Royal Columbian Hospital/Fraser Health and Sapperton Green Developments. Additional High Voltage Feeders would be required to service these future developments. Timelines to install feeders can be anywhere from 2- 3 years out pending on what equipment is required. However, exploration and planning around a potential 151 Spruce Street Substation, if approved, may replace this capital project. Estimated Completion: TBD	05 Asset Management and Infrastructure	200,000	200,000	200,000	200,000	4,000,000	4,800,000
10	12234	12234 Adv Metering Infrastructure	ELE	Project Scope/Outcome: ~40,000 new "automated" meters to replace existing "manual" meters across the City along with IT upgrades/infrastructure to connect the meters to the City's Financial Systems Estimated Completion: Q4-2025	05 Asset Management and Infrastructure	5,150,000	-	-	-	-	5,150,000
11	12351	12351 Electric Vehicle Infrastructure	ELE	Project Scope/Outcome: new distribution infrastructure/charging stations to serve various locations around the City Estimated Completion: Ongoing	05 Asset Management and Infrastructure	750,000	500,000	500,000	500,000	500,000	2,750,000

DRAFT 2025 - 2029 Capital Plan - Electrical

						Proposed 2025-2029 Capital Program					
Item #	BU #	Projects	Dept Name	Project Description	2023-2026 Strategic Priority	2025 Forecast Spend	2026 Forecast Spend	2027 Forecast Spend	2028 Forecast Spend	2029 Forecast Spend	5 year Total (2025-2029)
12	12442	12442 Elec New Serv-Aff Housing	ELE	Project Scope/Outcome: Over the next 5-year City will support the success of the Affordable Housing program, city will contribute via infrastructure (new electrical services), land, or in-kind/project oversight Estimated Completion: Ongoing	05 Asset Management and Infrastructure	400,000	400,000	400,000	400,000	-	1,600,000
13	12444	12444 rpl Genie pers man-lift 348	ELE	Replacement of Unit #348 A 1999 Genie personal man-lift. It was originally due for replacement in 2019, but has annual services and can be pushed ahead a few more years to 2022; can be deferred further beyond 2024.	05 Asset Management and Infrastructure	30,000	-	-	-	-	30,000
14	12470	12470 rpl Van w/lift Unit 316	ELE	Replacement of Unit #316 a 2009 Ford E350 Van with a manlift boom. This Unit will be 14yrs old and is due for scheduled replacement. QUOTE HAS COME AT OVER \$300K	05 Asset Management and Infrastructure	-	-	-	-	-	-
15	12542	12542 Royal Substation Improvements	ELE	Land purchase for RO3 substation or expansion of RO2 substation.	05 Asset Management and Infrastructure	9,868,000	-	-	-	-	9,868,000
16	12544	12544 Voltage Conversion and System Improvements	ELE	One of the long-term (20-30) strategic initiatives aimed at addressing the increasing load demand on the utility is to convert distribution voltage from 12kv to 25 kv (effectively doubling our capacity per circuit). This would require replacing nearly every piece of infrastructure in our distribution as well as upgrades at NWR and RO2 Substations (no upgrades required at QBS since it was designed for this conversion in mind).	05 Asset Management and Infrastructure	500,000	1,000,000	2,000,000	2,000,000	2,000,000	7,500,000
17	12480	12480 rpl Unit #329	ELE	Replacement of Unit #329 a 2010 International electrical underground custom body with manlift. This unit has had multiple changes and issues during its service and is a very high maintenance vehicle It will have close to 8000 hrs on it by 2023. SHOULD BE INCREASED TO \$500k DUE TO INFLATION	05 Asset Management and Infrastructure	500,000	-	-	-	-	500,000
18	12517	12517 rpl International Giraffe 362	ELE	Unit #362Due to be replaced. SHOULD BE INCREASED TO \$600K DUE TO INFLATION	05 Asset Management and Infrastructure	642,753	-	-	-	-	642,753
19	12580	12580 Replace International Giraffe	ELE	Replacement of Unit #323 a 2009 International 60' Tandem Digger Derrick Truck used by the electrical department. This Unit will be 13yrs old in 2021 and have approximately 8000hrs on the engine. It will be due for lifecycle replacement. SHOULD BE INCREASED TO \$500K DUE TO INFLATION.	05 Asset Management and Infrastructure	542,753	-	-	-	-	542,753
20	12545	12545 New Sapperton Substation	ELE	Project Scope: Site investigations (2024), BCH CIS study, pre-loading (2025), detailed design (2026), supply and construction (2027-2028); I have not included the construction budget since that would likely mean an increase of \$60M or more in 2027-2028.	05 Asset Management and Infrastructure	400,000	-	-	-	-	400,000
21	12546	12546 Customer reporting and billing	ELE	Silverblaze customer reporting solution implementation, customer billing presentment solution implementation, and online payment solution for Electrical Customers	05 Asset Management and Infrastructure	-	1,000,000	500,000	-	-	1,500,000
22	12547	12547 Office Renovation	ELE	The office needs to be renovated in order to accommodate additional staff. This would include the cost for the contractor as well as the new furniture.	05 Asset Management and Infrastructure	50,000	-	-	-	-	50,000
23	12586	12586 Rpl Ford F450 with man-lift Un	ELE	Replacement of Unit #340. This is a 2011 Ford F450 with a man-lift and work body. This unit will be over 13years old and due for replacement in 2024.	05 Asset Management and Infrastructure	-	-	-	-	-	-
24	A0487	A0487 Rpl Chevy Pickup Unit #303	ELE	Replacement of Unit #303. This is a 2017 Chevy Pickup used by the electrical managers and driven home daily. This vehicle will be repositioned in 2025 to extend its life	05 Asset Management and Infrastructure	50,000	-	-	-	-	50,000
25	A0488	A0488 Rpl Chevy Pickup Unit #304	ELE	Replacement of Unit #304 This is a 2017 Chevy Pickup used by the electrical managers and driven home daily. This vehicle will be repositioned in 2025 to extend its life.	05 Asset Management and Infrastructure	50,000	-	-	-	-	50,000
26	A0489	A0489 Rpl Reel Trailer Unit #328	ELE	Replacement of Unit #328. This is a 2009 Brindle reel trailer used for transporting reels of cable. It will be 15 years old and scheduled for replacement in 2028.	05 Asset Management and Infrastructure	-	-	-	50,000	-	50,000
27	A0609	A0609 Rpl Pole Trailer Unit #347	ELE	Replacement of Unit #347. This is a 2010 Brindle pole trailer used for transporting electrical poles. It will be 15 years old and scheduled for replacement in 2028.	05 Asset Management and Infrastructure	-	-	-	50,000	-	50,000
28	NEW-189	Queensborough N-1 Supply	ELE	Upgrades to B.C. Hydro transmission lines feeding Queensborough Substation. These upgrades will be needed to obtain the full 50MVA of capacity at the substation and to have N-1 reliability on each transmission line. Some upgrades will be required in Queensborough substation to enable this.	05 Asset Management and Infrastructure	200,000	200,000	500,000	500,000	20,000,000	21,400,000

DRAFT 2025 - 2029 Capital Plan - Electrical

						Proposed 2025-2029 Capital Program					
Item #	BU #	Projects	Dept Name	Project Description	2023-2026 Strategic Priority	2025 Forecast Spend	2026 Forecast Spend	2027 Forecast Spend	2028 Forecast Spend	2029 Forecast Spend	5 year Total (2025-2029)
29	NEW-190	Transmission System Upgrades for RO3 Substation	ELE	System upgrades required to upgrade or construct new transmission line capacity from B.C. Hydro's system to RO3 substation in 2034. Costs based on approximation of new underground transmission line constructed from Newel substation to RO3 Substation. No information has been provided from B.C. Hydro, these numbers are guesses only.	05 Asset Management and Infrastructure	-	-	200,000	200,000	200,000	600,000
30	NEW-191	New RO3 Substation	ELE	New 25kV RO3 Substation, built across from RO2 Substation, needed to support load growth in the downtown area. These costs do not include land or transmission line and distribution system connections. Costs represent engineering project management equipment and constructions costs. Costs based on 2024 Sapperton Substation feasibility study and are approximate only. Future studies needed to refine this cost.	05 Asset Management and Infrastructure	300,000	300,000	300,000	300,000	45,000,000	46,200,000
31	NEW-192	New Pickup for Towing	ELE	F350 or equivalent for towing cable equipment	05 Asset Management and Infrastructure	150,000	-	-	-	-	150,000
32	NEW-54	Unit 370 2019 Ford Transit Connect (EV)	ELE	Replacement of Unit #370. Vehicle will be 10 years old and parts will be obsolete as vehicle make is no longer manufactured	05 Asset Management and Infrastructure	-	-	-	-	80,000	80,000
Total						26,949,306	10,775,000	33,380,000	24,150,000	80,930,000	176,184,306

DRAFT 2025 - 2029 Capital Plan - BridgeNet

Item #	BU #	Projects	Dept Name	Project Description	2023-2026 Strategic Priority	Proposed 2025-2029 Capital Program					5 year Total (2025-2029)
						2025 Forecast Spend	2026 Forecast Spend	2027 Forecast Spend	2028 Forecast Spend	2029 Forecast Spend	
1	11041	11041 BridgeNet Infrastructure	BRI	Project Scope/Outcome: Completion of the municipality owned open access dark fibre network; project commenced in 2015 and remaining scope includes Harbour Centre (internet exchange) and a new co-location point at City Hall and formal agreements with internet providers/telcos over time. Estimated Completion: 2026	05 Asset Management and Infrastructure	250,000	220,000	190,000	150,000	140,000	950,000
2	12343	12343 Pattullo Bridge Fibre	BRI	Project Scope/Outcome: Fiber connection to the Ministry of Transportation and Infrastructure (MOTI) Fiber Network crossing Patullo Bridge to Surrey Estimated Completion: 2024	05 Asset Management and Infrastructure	60,818					
3	12179	12179 Feasibility Works	BRI	Project Scope/Outcome: feasibility study on 5G technology along with new wireless initiative opportunities through out the City and explore third party grant funding opportunities Estimated Completion: Ongoing	05 Asset Management and Infrastructure	50,000		-	-	-	50,000
4	12407	12407 Aff Housing Fibre Infrastruc	BRI	Project Scope/Outcome: As projects are identified, installation of fibre will be installed Estimated Completion: On-going	02 Homes and Housing Options	80,000	40,000	-	-	-	120,000
5	NEW-43	Unit 305 2019 Nissan Frontier (EV)	BRI	Replacement EV for unit 305	05 Asset Management and Infrastructure	-	-	-	-	65,000	65,000
Total						440,818	260,000	190,000	150,000	205,000	1,185,000

2025 Operating Budget Service Enhancement Requests and Funding Opportunities

Department: Electric Utility

Funding Sources													
Dept	Division	Requester	Business Unit	Object Account	Description	Background and Explanation of Funding	Permanent Funding (Yes / No)	Funding Source	Total Additional Funding in Business Unit	Estimated Budget Start Quarter	2025 Net Funding	Notes	
Energy and Climate Action	Capital Projects and Program Delivery	Marc Rutishauser	11253		Manager for major projects and strategic corporate priorities	The Sapperton District energy project has several grants and funding sources including \$18 million from Metro Vancouver, and \$1 million from the Federal Government. These grants will only come into effect if the project progresses to an implementation phase.	No	Capital Project	\$ -	Q2	\$ 1	Grants will be paid once project is implemented.	
									\$ -		\$ 1		

Operating Service Enhancement Requests																					
Dept	Division	Requester	Business Unit	Object Account	Description	Background and Explanation of Need	Strategic Priority	Council Endorsement (Yes / No)	Permanent Request (Yes / No)	Employee Position Type	# of FTE Addition	Salary Compensation	Salary Related Costs	Consulting or Contracted Services	Supplies & Materials / Other Costs	Employee Benefits Cost (\$/FTE)	Total Operating Enhancement Request in Business Unit	Estimated Budget Start Quarter	2025 Net Impact	Notes	
Energy and Climate Action	Capital Projects and Program Delivery	Marc Rutishauser	11253		Manager for major projects and strategic corporate priorities	This position is needed to provide project management and strategic direction to major projects that have a corporate focus. This position will support the Sapperton District Energy project.	Asset Management and Infrastructure	No	Yes	BFT	1.00	\$160,124.13				\$ 45,235	\$ 205,359	Q2	\$ 1		
												1.00	\$ 160,124	\$ -	\$ -	\$ -	\$ 45,235	\$ 205,359		\$ 1	