CITY OF KETCHIKAN, ALASKA 2025 - 2029 KETCHIKAN PUBLIC UTILITIES CAPITAL IMPROVEMENT PROGRAM

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Ketchikan Public Utilities 2025 - 2029 Capital Improvement Program 2025 Capital Budget

	Revenues/			Revenue	2025
Department/Division/Project	Reserves	Grants	Other	Bonds	Total
Administration					
Financial & Accounting Information System	20,000				20,000
Administration Division Total	20,000				20,000
Sales, Marketing & Customer Service					
None					
Electric Division					
Silvis Road Repair	810,000				810,000
Ketchikan Lakes Project Relicensing	250,000				250,000
Whitman Dam Crack Repair	120,000				120,000
Whitman Tailrace Modification	1,500,000				1,500,000
Whitman Incubation Pipe Flow Meter	50,000				50,000
Ketchikan Lake Utilities	50,000				50,000
Beaver Falls Powerhouse Exterior	50,000				50,000
Transmission & Distribution Line Maintenance	500,000				500,000
Transformer Purchases	200,000				200,000
Beaver Falls Relicensing	50,000				50,000
Bailey Generator No. 4 Wartsila PLC Upgrade	140,000				140,000
Battery Systems & Chargers	50,000				50,000
Vehicles & Moving Equipment	60,000				60,000
Operating Equipment	300,000				300,000
AMI, Meters and Meter Replacement Parts	100,000				100,000
Additional Projects	164,000				164,000
Electric Division Total	4,394,000				4,394,000

Ketchikan Public Utilities 2025 - 2029 Capital Improvement Program 2025 Capital Budget

	Revenues/			Revenue	2025
Department/Division/Project	Reserves	Grants	Other	Bonds	Total
Telecommunications Division					
Normal Growth and Repair - Buildings	100,000				100,000
Normal Growth and Repair - CO Switching	50,000				50,000
Normal Growth and Repair - Copper Cable	20,000				20,000
Normal Growth and Repair - Fiber Cable	300,000				300,000
Normal Growth and Repair - CO Transmission	250,000				250,000
Normal Growth and Repair - Expansion	10,000				10,000
Normal Growth and Repair - Provisioning	20,000				20,000
Fiber to the Home	300,000				300,000
Remote Cabinets for Advanced Services	50,000				50,000
Core Network Upgrade	150,000				150,000
Server Environment	600,000				600,000
Multi-Dwelling Unit Project	75,000				75,000
Operating Equipment	100,000				100,000
PC Hardware & Software	75,000				75,000
Power Expansion/Reclamation	50,000				50,000
Visual Mapping Software	10,000				10,000
Network Monitoring	50,000				50,000
Security	60,000				60,000
4G/LTE	200,000				200,000
Hosted	80,000				80,000
Wi-Fi	50,000				50,000
Internet Expansion	150,000				150,000
KetchCan1 Subsea Cable Repair	676,500				676,500
Telecommunications Division Total	3,426,500				3,426,500

Ketchikan Public Utilities 2025 - 2029 Capital Improvement Program 2025 Capital Budget

	Revenues/			Revenue	2025
Department/Division/Project	Reserves	Grants	Other	Bonds	Total
Water Division					
Filtration Facility - Preliminary Preparation Tasks	390,000				390,000
Water Meters - Business & Commercial Customers				813,281	813,281
Replace Tongass Ave. Suspended Water Main	407,228				407,228
Replace Water St. Suspended Water Main	412,000				412,000
Valve Boxes - Repair of Surrounding Pavement	50,000				50,000
Water Distribution Grid Improvements	30,000				30,000
Water Service Upgrade Program	21,000				21,000
Backflow Prevention Program	15,000				15,000
Second Avenue Main Replacement	225,000				225,000
SCADA PLC Controllers	360,000				360,000
Water Division Total	1,910,228			813,281	2,723,509
GRAND TOTAL	9,750,728			813,281	10,564,009

Ketchikan Public Utilities 2025 - 2029 Capital Improvement Program Summary of Projects by Division - All Years

	Prior						Five Year	Project
Division/Project	Years	2025	2026	2027	2028	2029	Total	Total
Administration								
Financial & Accounting Information System Implementation	460,354	20,000					20,000	480,354
Administration Total	460,354	20,000					20,000	480,354
	400,004	20,000					20,000	400,004
Sales, Marketing & Customer Service								
None								
Electric Division								
Silvis Road Repair	22,150	810,000					810,000	832,150
Ketchikan Lakes Project Relicensing	300,000	250,000	600,000	600,000	250,000	50,000	1,750,000	2,050,000
Whitman Dam Crack Repair	-	120,000				•	120,000	120,000
Whitman Tailrace Modification	126,182	1,500,000					1,500,000	1,626,182
Whitman Incubation Pipe Flow Meter		50,000					50,000	50,000
Ketchikan Lakes Utilities	129,017	50,000	4,079,607				4,129,607	4,258,624
Beaver Falls Powerhouse Exterior	36,070	50,000	750,000				800,000	836,070
Transmission & Distribution Line Maintenance		500,000	1,000,000	1,000,000	100,000	500,000	3,100,000	3,100,000
Transformer Purchase		200,000	400,000	400,000	400,000	400,000	1,800,000	1,800,000
Beaver Falls Relicensing	670,000	50,000					50,000	720,000
Bailey Generator No. 4 Wartsilia PLC Upgrade		140,000					140,000	140,000
Battery Systems & Chargers	172,000	50,000	50,500	50,500	50,500	50,500	252,000	424,000
Vehicles & Moving Equipment		60,000	100,000	200,000	350,000	125,000	835,000	835,000
Operating Equipment		300,000	300,000	300,000	300,000	300,000	1,500,000	1,500,000
AMI, Meters and Meter Replacement Parts		100,000	125,000	125,000	125,000	125,000	600,000	600,000
Additional Projects		164,000	164,000	164,000	164,000	164,000	820,000	820,000
Watershed LiDAR Survey			250,000				250,000	250,000
Beaver Falls Switch Gear Replacement	105,000		1,375,000				1,375,000	1,480,000
Ketchikan International Airport & Pennock Island Upgrade	225,977		1,175,000				1,175,000	1,400,977
Bailey Mooring Dolphin Replacement			200,000				200,000	200,000
Port West Substation Reconfiguration & Site Mod.			175,000	950,000			1,125,000	1,125,000
Penstock Inspections			100,000				100,000	100,000
Feeder Protective Relay Upgrades	50,000		150,000	50,000	50,000	50,000	300,000	350,000
System Sectionalizers			100,000	100,000	100,000		300,000	300,000
Digital Radio Replacement	6,000		120,000				120,000	126,000
Spare Substation Class Transformer Refurbishment			65,000				65,000	65,000
Security Fencing and Gates			45,000				45,000	45,000
ESRI Trouble Ticket Solution			40,000	000 000			40,000	40,000
Bailey Generator Radiator Replacement			40,000	300,000			340,000	340,000
Bailey Fuel Tank Painting Reimbursable Projects			100,000 25,000	25 000	25.000	25.000	100,000 100,000	100,000 100,000
			125,000	25,000	25,000	25,000	125,000	100,000
Bailey Exhaust Stack Re-Coating Electric Division Service Center				E00.000	E 100 000			
			2,000,000	500,000	5,100,000		7,600,000	7,600,000
Silvis Tunnel Valve Replacement			440,000	650,000			440,000	440,000
Generator Rewind & Repair			650,000	650,000			1,300,000	1,300,000

Ketchikan Public Utilities 2025 - 2029 Capital Improvement Program Summary of Projects by Division - All Years

	Prior					Five Year	Project	
Division/Project	Years	2025	2026	2027	2028	2029	Total	Total
Electric Division (continued)			405.000				405.000	105 000
34.5 kV Breaker and Relay Spares			105,000				105,000	105,000
Beaver Falls Governor Rehabilitation Silvis Shaft & Turbine Overhaul			250,000				250,000	250,000 750.000
	44.004		750,000	050 000			750,000	
Bailey Unit No. 1 Rehabilitation Clam Cove 3-Phase Upgrade	11,921		500,000	850,000 2,475,000			850,000 2,975,000	861,921 2,975,000
Mountain Point Substation Replacement			750.000	7,600,000			8,350,000	8,350,000
Bailey Substation Replacement			750,000	1,500,000	15.300.000		16.800.000	16.800.000
Ward Cove Substation				1,500,000	800,000	8,100,000	8,900,000	8,900,000
Diesel Generator Replacement				4,125,000	40,750,000	6,100,000	44,875,000	44,875,000
Whitman Powerhouse Domestic Water Re-Plumb			50,000	4,125,000	40,750,000		50,000	50,000
Whitman Part 12 Comprehensive Assessment			200.000				200.000	200,000
Lower Silvis Lake Submarine Cable Replacement			50,000				50,000	50,000
Electric Division Total	1,854,317	4,394,000	17,399,107	21,964,500	63,864,500	9,889,500	117,511,607	119,365,924
Electric Division Total	1,054,517	4,394,000	17,599,107	21,904,500	03,004,300	9,009,300	117,511,007	119,303,924
Telecommunications Division								
Normal Growth and Repair - Buildings		100,000	100,000	100,000	100,000	100,000	500,000	500,000
Normal Growth and Repair - CO Switching		50,000	50,000	50,000	50,000	50,000	250,000	250,000
Normal Growth and Repair - Copper Cable		20,000	25,000	25,000	25,000	25,000	120,000	120,000
Normal Growth and Repair - Fiber Cable		300,000	250,000	300,000	325,000	350,000	1,525,000	1,525,000
Normal Growth and Repair - CO Transmission		250,000	275,000	300,000	325,000	350,000	1,500,000	1,500,000
Normal Growth and Repair - Expansion		10,000	15,000	15,000	15,000	20,000	75,000	75,000
Normal Growth and Repair - Provisioning		20,000	20,000	20,000	20,000	20,000	100,000	100,000
Fiber to the Home		300,000	250,000	300,000	325,000	300,000	1,475,000	1,475,000
Remote Cabinets for Advanced Services		50,000	75,000	75,000	50,000	50,000	300,000	300,000
Core Network Upgrade		150,000	1,000,000	1,000,000	750,000	500,000	3,400,000	3,400,000
Server Environment		600,000	100,000	100,000	100,000	200,000	1,100,000	1,100,000
Multi-Dwelling Unit Project		75,000	100,000	100,000	100,000	100,000	475,000	475,000
Operating Equipment		100,000	100,000	100,000	125,000	150,000	575,000	575,000
PC Hardware & Software		75,000	75,000	75,000	75,000	100,000	400,000	400,000
Power Expansion/Reclamation		50,000	100,000	100,000	100,000	100,000	450,000	450,000
Visual Mapping Software		10,000	20,000	20,000	20,000	20,000	90,000	90,000
Network Monitoring		50,000	100,000	100,000	100,000	150,000	500,000	500,000
Vehicle Acquisition			100,000	100,000	200,000	250,000	650,000	650,000
Security		60,000	75,000	100,000	125,000	125,000	485,000	485,000
4G/LTE		200,000	200,000	200,000	150,000	150,000	900,000	900,000
Hosted		80,000	100,000	100,000	200,000	400,000	880,000	880,000
Wi-Fi		50,000	75,000	100,000	100,000	125,000	450,000	450,000
Internet Expansion		150,000	100,000	150,000	600,000	150,000	1,150,000	1,150,000

Ketchikan Public Utilities 2025 - 2029 Capital Improvement Program Summary of Projects by Division - All Years

	Prior						Five Year	Project
Division/Project	Years	2025	2026	2027	2028	2029	Total	Total
Telecommunications Division (continued)								
KetchCan1 Subsea Cable Repair		676.500					676.500	676,500
Telecommunications Division Total		3,426,500	3,305,000	3,530,000	3,980,000	3,785,000	18,026,500	18,026,500
Tologonimumoutione Division Total		0,120,000	0,000,000	0,000,000	0,000,000	0,700,000	10,020,000	10,020,000
Water Division								
Filtration Facility - Preliminary Preparation Tasks	1,047,666	390,000		5,113,000			5,503,000	6,550,666
Water Meters - Business & Commercial Customers	436,719	813,281	150,000	-, ,			963,281	1,400,000
Replace Tongass Ave. Suspended Water Main		407,228	,				407,228	407,228
Replace Water St. Suspended Water Main		412,000					412,000	412,000
Valve Boxes - Repair of Surrounding Pavement		50,000	100,000	100,000	100,000	100,000	450,000	450,000
Water Distribution Grid Improvements		30,000	30,000	30,000	30,000	30,000	150,000	150,000
Water Service Upgrade Program		21,000	21,000	21,000	21,000	21,000	105,000	105,000
Backflow Prevention Program		15,000	15,000	15,000	15,000	15,000	75,000	75,000
Second Avenue Main Replacement		225,000		160,000		990,000	1,375,000	1,375,000
SCADA PLC Controllers		360,000					360,000	360,000
Pump Station Switchgear Improvements	81,250		45,000				45,000	126,250
Replace ClorTec Generating Cells	130,000		50,000	50,000			100,000	230,000
Fiber-optic Communications Switches			25,000				25,000	25,000
Peterson Street Utility Improvements			350,000				350,000	350,000
Harris St. Utility Improvements			125,000	750,000			875,000	875,000
Park Ave. Utility Improvements			125,000	1,950,000			2,075,000	2,075,000
Utility Vehicles			155,000	180,000	85,000		420,000	420,000
Additional Projects			50,000	50,000	50,000	50,000	200,000	200,000
Skyline Water Main Replacement			70,000	390,000			460,000	460,000
West Fairy Chasm Replacement			87,000		593,000		680,000	680,000
Hillside Road Water Main Replacement	19,440		60,000		644,000		704,000	723,440
Ketchikan Lakes Road Water Main Replacement	21,035		700,000				700,000	721,035
Highlands Reservoir Property Acquisition				400,000			400,000	400,000
Ktn. Lakes Alternative Raw Water Supply Piping						12,000,000	12,000,000	12,000,000
Thomas Basin Water Main Replacement			70,000	300,000			370,000	370,000
Water Division Total	1,736,110	2,723,509	2,228,000	9,509,000	1,538,000	13,206,000	29,204,509	30,940,619
TOTAL	4,050,781	10,564,009	22,932,107	35,003,500	69,382,500	26,880,500	164,762,616	168,813,397

Ketchikan Public Utilities 2025 - 2029 Capital Improvement Program Summary of Projects by Funding Source - All Years

Division/Project	Prior Years	Revenue Generating Fund	Grants	Other	Revenue Bonds	State Drinking Water Loan Fund	Total
			0.00				
Administration	100.054	00.000					100.051
Financial & Accounting Information System Implementation	460,354	20,000					480,354
Administration Total	460,354	20,000					480,354
Sales, Marketing & Customer Service							
None							
Electric Division							
Silvis Road Repair	22,150	810,000					832,150
Ketchikan Lakes Project Relicensing	300,000	1,750,000					2,050,000
Whitman Dam Crack Repair		120,000					120,000
Whitman Tailrace Modification	126,182	1,500,000					1,626,182
Whitman Incubation Pipe Flow Meter		50,000					50,000
Ketchikan Lakes Utillites	129,017	4,129,607					4,258,624
Beaver Falls Powerhouse Exterior	36,070	800,000					836,070
Transmission & Distribution Line Maintenance		3,100,000					3,100,000
Transformer Purchases		1,800,000					1,800,000
Beaver Falls Relicensing	670,000	50,000					720,000
Bailey Generator No. 4 Wartsila PLC Upgrade		140,000					140,000
Battery Systems & Chargers	172,000	252,000					424,000
Vehicles & Moving Equipment		835,000					835,000
Operating Equipment		1,500,000					1,500,000
AMI, Meters and Meter Replacement Parts		600,000					600,000
Additional Projects		820,000					820,000
Watershed LiDAR Survey		250,000					250,000
Beaver Falls Switch Gear Replacement	105,000	1,375,000					1,480,000
Ketchikan International Airport & Pennock Island Upgrade	225,977	1,175,000					1,400,977
Bailey Mooring Dolphin Replacement	•	200,000					200,000
Port West Substation Reconfiguration & Site Mod.		1,125,000					1,125,000
Feeder Protective Relay Upgrades	50,000	300,000					350,000
System Sectionalizers	•	300,000					300,000
Digital Radio Replacement	6,000	120,000					126,000
Spare Substation Class Transformer Refurbishment	•	65,000				1	65,000
Security Fencing and Gates		45,000				1	45,000
ESRI Trouble Ticket Solution		40,000					40,000
Bailey Generator Radiator Replacement		340,000					340,000
Bailey Fuel Tank Painting		100,000					100,000

Ketchikan Public Utilities 2025 - 2029 Capital Improvement Program Summary of Projects by Funding Source - All Years

Mountain Point Substation Replacement Bailey Substation Replacement Ward Cove Substation Replacement Bailey Substation Replacement Bailey Substation Replacement Bay00,000 16,800,000 16	Total
Reimbursable Projects 100,000 125,000 125,000	
Bailey Exhaust Stack Re-Coating 125,000 7,600,00	100,000
Electric Division Service Center	100,000
Silvis Tunnel Valve Replacement Generator Rewind & Repair 1,300,000 34.5 kV Breaker and Relay Spares 105,000 250,000 Silvis Shaft & Turbine Overhaul 50,000 Silvis Shaft & Substation Replacement 50,000 Silvis Shaft & Substation Shaft & S	125,000
Generator Rewind & Repair 3.5 kV Breaker and Relay Spares 1,300,000 105,000	7,600,000
34.5 kV Breaker and Relay Spares 105,000 250,000 Slivis Shaft & Turbine Overhaul 50,000 Beaver Falls Governor Rehabilitation 11,921 850,000 2,975,000 Slivis Shaft & Turbine Overhaul 11,921 850,000 2,975,000 Slivis Shaft & Turbine Replacement 11,921 850,000 2,975,000 Slivis Shaft & Turbine Replacement 16,800,000 16,	440,000
Beaver Falls Governor Rehabilitation 250,000 Silvis Shaft & Turbine Overhaul 750,000 850,000 Clam Cove 3-Phase Upgrade 2,975,000 8,350,000 Clam Cove 3-Phase Upgrade 2,975,000 8,350,000 Mountain Point Substation Replacement 8,350,000 16,800,000 16,8	1,300,000
Silvis Shaft & Turbine Overhaul Bailey Unit No. 1 Rehabilitation 11,921 850,000	105,000
Bailey Unit No. 1 Rehabilitation	250,000
Clam Cove 3-Phase Upgrade Mountain Point Substation Replacement Bailey Substation Replacement Hours of the Mountain Point Substation Replacement Hours of the Mountain Point Substation Replacement Hours of the Mountain Point Substation Hours of the Home Hours of the Home Hours of the Home Hours of the Home Hours of the Hours o	750,000
Mountain Point Substation Replacement Bailey Substation Replacement Ward Cove Substation Replacement B,900,000 16,800,000 1	861,921
Bailey Substation Replacement 16,800,000 8,900,000 10 10 10 10 10 10 1	2,975,000
Ward Cove Substation B,900,000 A4,875,000 Core Network Division Diesel Generator Replacement Diesel Generator Diese	8,350,000
Diesel Generator Replacement Whitman Powerhouse Domestic Water Re-Plumb Yuliman Powerhouse Domestic Water Re-Plumb Yuliman Part 12 Comprehensive Assessment 200,000 Electric Division Total 1,854,317 30,986,607 86,525,000 11	16,800,000
Whitman Powerhouse Domestic Water Re-Plumb Whitman Part 12 Comprehensive Assessment Lower Silvis Lake Submarine Cable Replacement Electric Division Total Telecommunications Division Normal Growth and Repair - Buildings Normal Growth and Repair - CO Switching Normal Growth and Repair - Copper Cable Normal Growth and Repair - Fiber Cable Normal Growth and Repair - CO Transmission Normal Growth and Repair - Expansion Normal Growth and Repair - Provisioning Fiber to the Home Remote Cabinets for Advanced Services Core Network Upgrade 50,000 1,854,317 30,986,607 86,525,000 1,854,317 30,986,607 86,525,000 1,854,317 30,986,607 86,525,000 1,854,317 30,986,607 86,525,000 1,854,317 30,986,607 86,525,000 1,854,317 30,986,607 86,525,000 1,854,317 30,986,607	8,900,000
Whitman Part 12 Comprehensive Assessment	44,875,000
Lower Silvis Lake Submarine Cable Replacement 50,000 1,854,317 30,986,607 86,525,000 11	50,000
Telecommunications Division Normal Growth and Repair - Buildings S00,000 Normal Growth and Repair - CO Switching Normal Growth and Repair - Copper Cable Normal Growth and Repair - Fiber Cable Normal Growth and Repair - CO Transmission Normal Growth and Repair - Expansion Normal Growth and Repair - Expansion Normal Growth and Repair - Provisioning Fiber to the Home Normal Growth Gro	200,000
Telecommunications Division Normal Growth and Repair - Buildings Normal Growth and Repair - CO Switching Normal Growth and Repair - Copper Cable Normal Growth and Repair - Fiber Cable Normal Growth and Repair - Fiber Cable Normal Growth and Repair - CO Transmission Normal Growth and Repair - Expansion Normal Growth and Repair - Provisioning Fiber to the Home Remote Cabinets for Advanced Services Core Network Upgrade 500,000 120,000 1,525,000 1,500,000 1,500,000 1,500,000 100,000 1475,000 300,000 3,400,000	50,000 19,365,924
Normal Growth and Repair - Buildings Normal Growth and Repair - CO Switching Normal Growth and Repair - Copper Cable Normal Growth and Repair - Fiber Cable Normal Growth and Repair - Fiber Cable Normal Growth and Repair - CO Transmission Normal Growth and Repair - Expansion Normal Growth and Repair - Expansion Normal Growth and Repair - Provisioning Fiber to the Home Remote Cabinets for Advanced Services Core Network Upgrade 500,000 1,500,000 1,500,000 1,500,000 1,475,000 300,000 3,400,000	19,305,924
Normal Growth and Repair - CO Switching Normal Growth and Repair - Copper Cable Normal Growth and Repair - Fiber Cable Normal Growth and Repair - CO Transmission Normal Growth and Repair - CO Transmission Normal Growth and Repair - Expansion Normal Growth and Repair - Provisioning Fiber to the Home Remote Cabinets for Advanced Services Core Network Upgrade 250,000 1,500,000 1,525,000 1,500,000 1,000 100,000 1,475,000 300,000 3,400,000	
Normal Growth and Repair - CO Switching Normal Growth and Repair - Copper Cable Normal Growth and Repair - Fiber Cable Normal Growth and Repair - CO Transmission Normal Growth and Repair - CO Transmission Normal Growth and Repair - Expansion Normal Growth and Repair - Provisioning Fiber to the Home Remote Cabinets for Advanced Services Core Network Upgrade 250,000 120,000 1,525,000 1,500,000 1,000 100,000 1,475,000 300,000 3,400,000	500,000
Normal Growth and Repair - Copper Cable Normal Growth and Repair - Fiber Cable Normal Growth and Repair - CO Transmission Normal Growth and Repair - Expansion Normal Growth and Repair - Expansion Normal Growth and Repair - Provisioning Fiber to the Home Remote Cabinets for Advanced Services Core Network Upgrade 120,000 1,525,000 1,500,000 100,000 1475,000 300,000 3,400,000	250,000
Normal Growth and Repair - CO Transmission Normal Growth and Repair - Expansion Normal Growth and Repair - Provisioning Fiber to the Home Remote Cabinets for Advanced Services Core Network Upgrade 1,500,000 75,000 100,000 1,475,000 300,000 3,400,000	120,000
Normal Growth and Repair - CO Transmission Normal Growth and Repair - Expansion Normal Growth and Repair - Provisioning Fiber to the Home Remote Cabinets for Advanced Services Core Network Upgrade 1,500,000 75,000 100,000 1,475,000 300,000 3,400,000	1,525,000
Normal Growth and Repair - Expansion Normal Growth and Repair - Provisioning Fiber to the Home Remote Cabinets for Advanced Services Core Network Upgrade 75,000 100,000 1,475,000 300,000 3,400,000	1,500,000
Fiber to the Home 1,475,000 Remote Cabinets for Advanced Services 300,000 Core Network Upgrade 3,400,000	75,000
Remote Cabinets for Advanced Services 300,000 Core Network Upgrade 3,400,000	100,000
Core Network Upgrade 3,400,000	1,475,000
	300,000
	3,400,000
Server Environment 1,100,000	1,100,000
Multi-Dwelling Unit Project 475,000	475,000
Operating Equipment 575,000	575,000
PC Hardware & Software 400,000	400,000
Power Expansion/Reclamation 450,000	450,000
Visual Mapping Software 90,000	90,000
Network Monitoring 500,000	500,000

Ketchikan Public Utilities 2025 - 2029 Capital Improvement Program Summary of Projects by Funding Source - All Years

Division/Project	Prior Years	Revenue Generating Fund	Grants	Other	Revenue Bonds	State Drinking Water Loan Fund	Total
-							
Telecommunications Division (continued)							
Vehicle Acquisition		650,000					650,000
Security		485,000					485,000
4G/LTE		900,000					900,000
Hosted		880,000					880,000
Wi-Fi		450,000					450,000
Internet Expansion		1,150,000					1,150,000
KetchCan1 Subsea Cable Repair		676,500					676,500
Telecommunications Division Total		18,026,500					18,026,500
Water Division							
Filtration Facility - Preliminary Preparation Tasks	1,047,666	5,503,000				1	6,550,666
Water Meters - Business & Commercial Customers	436,719	150.000				813,281	1,400,000
Replace Tongass Ave. Suspended Water Main	430,718	407,228				013,201	407,228
		,					,
Replace Water St. Suspended Water Main	l	412,000				1	412,000
Valve Boxes - Repair of Surrounding Pavement	l	450,000				1	450,000
Water Distribution Grid Improvements		150,000				1	150,000
Water Service Upgrade Program		105,000				1	105,000
Backflow Prevention Program		75,000	405.000			405.000	75,000
Second Avenue Main Replacement		385,000	495,000			495,000	1,375,000
SCADA PLC Controllers		360,000				ĺ	360,000
Pump Station Switchgear Improvements	81,250	45,000				1	126,250
Replace ClorTec Generating Cells	130,000	100,000					230,000
Fiber-optic Communications Switches		25,000				1	25,000
Peterson Street Utility Improvements		350,000				1	350,000
Harris St. Utility Improvements		125,000	375,000			375,000	875,000
Park Ave. Utility Improvements		125,000	975,000			975,000	2,075,000
Utility Vehicles		420,000					420,000
Additional Projects		200,000				1	200,000
Skyline Water Main Replacement		70,000	195,000			195,000	460,000
West Fairy Chasm Replacement		87,000	296,500			296,500	680,000
Hillside Road Water Main Replacement	19,440	60,000	322,000			322,000	723,440
Ketchikan Lakes Road Water Main Replacement	21,035	700,000	0 ,0			0,0 = =	721,035
Highlands Reservoir Property Acquisition	21,000	, 00,000	200,000			200,000	400,000
Ktn. Lakes Alternative Raw Water Supply Piping		1	6,000,000			6,000,000	12,000,000
Thomas Basin Water Main Replacement	l	70,000	150,000			150,000	370,000
Water Division Total	1,736,110	10,374,228	9,008,500		<u> </u>	9,821,781	30,940,619
Water Division Total	1,700,110	10,017,220	0,000,000			0,021,101	00,040,010
TOTAL	4,050,781	59,407,335	9,008,500		86,525,000	9,821,781	168,813,397

Ketchikan Public Utilities 2025 - 2029 Capital Improvement Program

Division: General Manager

			Adopted 2025		Projected Requirements					
		Prior	Reappro-	New						Total
Project Title	Priority	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Financial & Accounting Information System Implementation	1	460,354	13,638	6,362	20,000					480,354
Total		460,354	13,638	6,362	20,000					480,354

			Δ	dopted 202	5	ı	Projected R	equirement	S	
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund		460,354	13,638	6,362	20,000					480,354
Total		460,354	13,638	6,362	20,000					480,354

Department: KPU General Manager Priority Number: 1

Project Title:Financial & Accounting Information SystemStart Date:01/07ImplementationEnd Date:12/25

Description:

The City awarded a contract to New World Systems for the acquisition of new financial and accounting information system and began implementation in September 2011. Finance is requesting that remaining funds that have been appropriated for this project be carried over to 2025. Funds will be used for hardware and software contingencies and New World resources to supplement the Finance Department's efforts during critical phases of the continuing implementation process. Scheduled for completion in 2025 is financial reporting, electronic personnel action forms and e-suites. The cost of this project is being funded equally by General Government and KPU.

		Δ.	dopted 202	5		s			
	Prior	Reappro-	New						Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art									
Design									
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management									
Construction									
Consultation	51,975								51,975
Equip, Software & Implementation Service	392,879	13,638	6,362	20,000					412,879
Other - Training	15,500								15,500
Total	460,354	13,638	6,362	20,000					480,354

			Α	Adopted 202	5		S			
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund		460,354	13,638	6,362	20,000					480,354
Total		460,354	13,638	6,362	20,000					480,354

Ketchikan Public Utilities 2025 - 2029 Capital Improvement Program Division: Electric

				Adopted 2025	j	·	Projected R	equirements		
Project Title	Priority	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Silvis Road Repair	1	22,150	360,000	450,000	810,000					832,150
Ketchikan Lakes Project Relicensing	2	300.000	000,000	250.000	250.000	600,000	600,000	250.000	50.000	2.050.000
Whitman Dam Crack Repair	3	000,000	50,000	70,000	120,000	000,000	000,000	200,000	00,000	120,000
Whitman Tailrace Modification	4	126,182	110,000	1,390,000	1,500,000					1.626.182
Whitman Incubation Pipe Flow Meter	5	120,102	50,000	1,000,000	50,000					50,000
Ketchikan Lakes Utillites	6	129,017	50,000	50,000	50,000	4,079,607				4,258,624
Beaver Falls Powerhouse Exterior	7	36,070	50,000	50,000	50,000	750,000				836,070
Transmission & Distribution Line Maintenance	8	00,070	50,000	500,000	500,000	1,000,000	1,000,000	100,000	500,000	3,100,000
Transformer Purchases	9			200,000	200,000	400,000	400,000	400,000	400,000	1.800.000
Beaver Falls Relicensing	10	670,000		50,000	50,000	400,000	400,000	400,000	400,000	720,000
Bailey Generator No. 4 Wartsila PLC Upgrade	11	070,000		140.000	140,000					140,000
Battery Systems & Chargers	12	472.000		50,000	50,000	50.500	50 500	50.500	50 500	424,000
Vehicles & Moving Equipment	13	172,000				50,500	50,500	50,500	50,500	835,000
				60,000	60,000	100,000	200,000	350,000	125,000	
Operating Equipment	14			300,000	300,000	300,000	300,000	300,000	300,000	1,500,000
AMI, Meters and Meter Replacement Parts	15			100,000	100,000	125,000	125,000	125,000	125,000	600,000
Additional Projects	16			164,000	164,000	164,000	164,000	164,000	164,000	820,000
Spare Substation Class Transformer Refurbishment	17					65,000				65,000
Security Fencing and Gates	18					45,000				45,000
ESRI Trouble Ticket Solution	19					40,000				40,000
Bailey Generator Radiator Replacement	20					40,000	300,000			340,000
Bailey Fuel Tank Painting	21					100,000				100,000
Penstock Inspections	22					100,000				100,000
Beaver Falls Switch Gear Replacement	23	105,000				1,375,000				1,480,000
Watershed LiDAR Survey	24					250,000				250,000
Reimbursable Projects	25					25.000	25.000	25.000	25.000	100.000
Ketchikan International Airport & Pennock Island Upgrade	26	225,977				1,175,000		.,		1,400,977
Bailey Mooring Dolphin Replacement	27	220,011				200,000				200,000
Feeder Protective Relay Upgrades	28	50,000				150,000	50,000	50,000	50,000	350,000
System Sectionalizers	29	30,000				100,000	100,000	100,000	30,000	300,000
	30	0.000					100,000	100,000		
Digital Radio Replacement		6,000				120,000				126,000
Port West Substation Reconfiguration & Site Mod.	31					175,000	950,000			1,125,000
Bailey Exhaust Stack Re-Coating	32					125,000				125,000
Electric Division Service Center	33					2,000,000	500,000	5,100,000		7,600,000
Silvis Tunnel Valve Replacement	34					440,000				440,000
Generator Rewind & Repair	35					650,000	650,000			1,300,000
34.5 kV Breaker and Relay Spares	36					105,000				105,000
Beaver Falls Governor Rehabilitation	37					250,000				250,000
Silvis Shaft & Turbine Overhaul	38					750,000				750,000
Bailey Unit No. 1 Rehabilitation	39	11,921					850,000			861,921
Clam Cove 3-Phase Upgrade	40					500,000	2,475,000			2,975,000
Mountain Point Substation Replacement	41					750,000	7,600,000			8,350,000
Bailey Substation Replacement	42						1,500,000	15,300,000		16,800,000
Ward Cove Substation	43							800,000	8,100,000	8,900,000
Diesel Generator Replacement	44						4,125,000	40,750,000		44,875,000
Whitman Powerhouse Domestic Water Re-Plumb	45					50,000				50,000
Whitman Part 12 Comprehensive Assessment	46					200,000				200,000
Lower Silvis Lake Submarine Cable Replacement	47					50,000				50,000
Total	1	1,854,317	620,000	3,774,000	4,394,000	17,399,107	21,964,500	63,864,500	9,889,500	119,365,924
									-	
		D=!		Adopted 2025)		Projected R	equirements		Ta4-1
Source of Funds		Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
KPU Revenue/Reserves - Public Art		Itais	priated	. unung	iotai	2020	2021	2020	2023	Fioject
Revenue Generating Fund		1,854,317	620,000	3,774,000	4,394,000	14,649,107	8,239,500	1,914,500	1,789,500	32,840,924
Bond Funding		1,004,017	020,000	5,774,000	4,004,000	2,750,000	13,725,000	61,950,000	8,100,000	86,525,000
Total		1,854,317	620,000	3,774,000	4,394,000	17,399,107	21,964,500		9,889,500	119,365,924

Project Title:Silvis Road RepairStart Date:01/22End Date:12/25

Description:

The Silvis Access Road has suffered increasing erosion at the high-point along Lower Silvis Lake due to drainage challenges and avalanches. Initial project scoping and surveying were begun in 2022 when the erosion was only a minor issue, however after the snow melted in late-spring 2023, the roadway was found to be eroded to an extent that prevents highway vehicles from transiting through to Silvis Powerhouse. A geotechnical engineer conducted a field inspection during summer 2023, providing a report with conceptual solutions, orders of magnitude costs, as well as possible grant funding opportunities. KPU will pursue grant funding options, but until awarded, this project must be funded out of KPU reserves. In 2024, KPU requested proposals for a detailed design of the road repai. Actual constructionis slated to take place during the summer of 2025.

		<i> </i>	Adopted 202	5		S			
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art Design	22,150								22,150
Land/Property Acquisition (ROW) Land/Property Improvements	,								,
Construction Management Construction Vehicles/Moving Equipment		360,000	450,000	810,000					810,000
Operating Equipment Environmental/Other Studies Other									
Total	22,150	360,000	450.000	810,000					832,150

		-	Adopted 202	5		Projected R	equirement	s	
Fun Source of Funds No	-	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Revenue Generating Fund	22,150	360,000	450,000	810,000					832,150
Total	22,150	360,000	450,000	810,000					832,150

Project Title:Ketchikan Lakes Project RelicensingStart Date:01/24End Date:12/30

Description:

The Ketchikan Lakes Hydroelectric Project is licensed through the Federal Energy Regulatory Commission (FERC) for a term of 30 years. KPU's current license expires in 2030. In 2024, KPU started initial consultation meetings and scoping. In 2025, KPU must develop and file a Preliminary Application Document (PAD) and Notice of Intent (NOI). Following NEPA and tribal consultations, and completion of two seasons of resource studies, a Final License Application is due in 2028. This process requires professional services for FERC regulatory work, studies and surveys. Relicensing costs are highly variable and are dependent upon issues that arise during the consultation process.

	Adopted 2025 Projected Requirements					İ			
Duning to Control Cottons	Prior	Reappro-	New	Total	2020	2027	2020	2020	Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art								1	
Design									
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management									
Construction									
Vehicles/Moving Equipment									
Operating Equipment									
Environmental/Other Studies	300,000		250,000	250,000	600,000	600,000	250,000	50,000	2,050,000
Other									
Total	300,000		250,000	250,000	600,000	600,000	250,000	50,000	2,050,000

		<i>A</i>	Adopted 202	5					
Fun	d Prior	Reappro-	New						Total
Source of Funds No	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund	300,000		250,000	250,000	600,000	600,000	250,000	50,000	2,050,000
Total	300,000		250,000	250,000	600,000	600,000	250,000	50,000	2,050,000

Project Title:Whitman Dam Crack RepairStart Date:01/25End Date:12/25

Description:

Whitman Dam has several significant leaks, cracks and spalled areas, which, though not an immediate dam safety concern, need to be repaired to prevent deterioration over time. Repairs are being designed by a Professional Engineer and must be approved by FERC prior to implementation.

		4	Adopted 202	5					
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art Design Land/Property Acquisition (ROW) Land/Property Improvements Construction Management Construction Vehicles/Moving Equipment Operating Equipment Environmental/Other Studies Other		50,000	70,000	120,000					120,000
Total		50,000	70,000	120,000					120,000

			A	dopted 202	5		Projected R	equirement	s	
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Revenue Generating Fund			50,000	70,000	120,000					120,000
Total			50,000	70,000	120,000					120,000

Project Title:Whitman Tailrace ModificationStart Date:01/20End Date:12/25

Description:

The Whitman Hydroelectric Project powerhouse tailrace channel is constructed of rock riprap in which fish are stranded during a unit shutdown. As operational adjustments have not been adequate to eliminate fish stranding, KPU has agreed to regrade the channel to a lower elevation and construct a concrete plunge pool. This will keep the channel watered and allow fish to move in and out at all flows and tides. The modified tailrace design has received approval by fisheries management agencies and FERC.

		Adopted 2025				s			
	Prior	Reappro-	New						Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art									
Design	36,291								36,291
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management									
Construction	89,891	110,000	1,390,000	1,500,000					1,589,891
Vehicles/Moving Equipment									
Operating Equipment									
Environmental/Other Studies									
Other									
Total	126,182	110,000	1,390,000	1,500,000					1,626,182

			A	dopted 202	5		5			
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund		126,182	110,000	1,390,000	1,500,000					1,626,182
Total		126,182	110,000	1,390,000	1,500,000	•				1,626,182

Project Title:Whitman Incubation Pipe Flow MeterStart Date:01/25End Date:12/25

Description:

The FERC license for the Whitman Lake Hydroelectric project requires installation of a flow meter to measure the quantity of water delivered to the SSRAA fish hatchery. This project includes purchase and installation of the flow meter, excavation and earthwork, SCADA connection, coordination with the hatchery.

		Adopted 2025				S			
	Prior	Reappro-	New						Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art									
Design		10,000		10,000					10,000
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management									
Construction									
Vehicles/Moving Equipment									
Operating Equipment		40,000		40,000					40,000
Environmental/Other Studies									
Other									
Total		50,000		50,000					50,000

			<u> </u>	Adopted 202	5		s			
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund			50,000		50,000					50,000
Total			50,000		50,000					50,000

Project Title:Ketchikan Lakes UtilitiesStart Date:01/22End Date:12/27

Description:

This project provides funding to install underground power and communications to the Ketchikan Lakes hydro project, including Fawn Lake, Ketchikan Lakes and future provisions to the Granite Basin area. Additionally, the project includes: cameras installed for both lake level monitoring and security purposes; upgraded back-up power supplies; emergency lighting; land-line telephone links; and Starlink for redundant communications. Power at these sites is currently provided by solar panels and small back-up generators, with communications limited to line of site antennas. Further work includes, but is not limited to, the installation of security cameras, emergency lighting, and fiber optic communications for lake level indications.

		Adopted 2025							
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art									
Design	129,017								129,017
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management					150,000				150,000
Construction					3,929,607				3,929,607
Vehicles/Moving Equipment									
Operating Equipment									
Environmental/Other Studies									
Other			50,000	50,000					50,000
Total	129,017		50,000	50,000	4,079,607				4,258,624

		A	Adopted 202	5					
Fui		Reappro-							Total
Source of Funds No	. Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund	129,017		50,000	50,000	4,079,607				4,258,624
Total	129,017		50,000	50,000	4,079,607				4,258,624

Project Title:Beaver Falls Powerhouse ExteriorStart Date:1/13End Date:12/26

Description:

The exterior of the Beaver Falls Powerhouse, which was built in 1954, contains asbestos coating that is failing. Signs of water intrusion into the concrete walls and structure are apparent. This project will entail an engineering evaluation of the building structure, an environmental evaluation, creation of plans and specifications for asbestos removal and disposal, concrete/structural repairs, a new coating system and required contractual work.

		Adopted 2025							
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art Design Land/Property Acquisition (ROW) Land/Property Improvements Construction Management Construction Vehicles/Moving Equipment Operating Equipment	36,070	50,000		50,000	750,000				86,070 750,000
Environmental/Other Studies Other									
Total	36,070	50,000		50,000	750,000				836,070

			Δ	dopted 202	5					
Fi	und	Prior	Reappro-	New						Total
Source of Funds N	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund		36,070	50,000		50,000	750,000				836,070
Total		36,070	50,000		50,000	750,000				836,070

Project Title:Transmission & Distribution Line MaintenanceStart Date:01/25End Date:12/29

Description:

The Electric Division maintains over 4,600 utility poles throughout the transmission and distribution (T&D) system. This project provides a means for engineering assessments of existing poles, engineering and design work for replacement of poles, related site preparation and if needed to augment KPU crews to hire a contract linecrew or National Electrical Contractors Association (NECA) linemen to conduct pole replacement projects.

		Adopted 2025							
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art Design Land/Property Acquisition (ROW) Land/Property Improvements Construction Management Construction Vehicles/Moving Equipment Operating Equipment Environmental/Other Studies Other			500,000	500,000	1,000,000	1,000,000	100,000	500,000	3,100,000
Total			500,000	500,000	1,000,000	1,000,000	100,000	500,000	3,100,000

			Adopted 2025			I				
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Revenue Generating Fund				500,000	500,000	1,000,000	1,000,000	100,000	500,000	3,100,000
Total				500,000	500,000	1,000,000	1,000,000	100,000	500,000	3,100,000

Project Title:Transformer PurchaseStart Date:01/25End Date:12/29

Description:

This capital account funds the routine and preventative replacement and upgrades of both pole mounted and pad mounted transformers throughout the system. The transformer market has experienced extreme volatility since 2020. Lead times have historically been three (3) to six (6) months; now lead times are often twelve (12) to (24) months. Prices have also increased by a factor of 2-1/2 in some instances. The utility recovers the cost of transformers that are installed during customer projects, but does not recover costs for O&M replacement. It is critical that KPU strive to maintain an adequate inventory of transformers on-island.

		Adopted 2025				3	_		
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art Design Land/Property Acquisition (ROW) Land/Property Improvements Construction Management Construction Vehicles/Moving Equipment Operating Equipment Environmental/Other Studies Other			200,000	200,000	400,000	400,000	400,000	400,000	1,800,000
Total			200,000	200,000	400,000	400,000	400,000	400,000	1,800,000

			P	Adopted 2025		Projected Requirements				
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund				200,000	200,000	400,000	400,000	400,000	400,000	1,800,000
Total				200,000	200,000	400,000	400,000	400,000	400,000	1,800,000

Project Title:Beaver Falls RelicensingStart Date:01/18End Date:12/25

Description:

The Beaver Falls Hydroelectric Project is licensed through the Federal Energy Regulatory Commission (FERC) for a term of 30 years. KPU's current license expires in 2024. To initiate the FERC license renewal process KPU filed its Notice of Intent (NOI) and Preliminary Application Document (PAD) in 2019. Following NEPA and tribal consultations, and completion of resource studies, a final license application was filed in 2022. FERC is expected to issue a final Environmental Assessment (EA) and project license in late 2024 or 2025. Following license issuance, it is expected that KPU will be required to implement various resource management plans for which professional services are necessary.

		Adopted 2025 Projected Requirements							
	Prior	Reappro-	New						Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art									
Design	670,000		50,000	50,000					720,000
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management									
Construction									
Vehicles/Moving Equipment									
Operating Equipment									
Environmental/Other Studies									
Other									
Total	670,000		50,000	50,000					720,000

			Α.	dopted 202	5		Projected R	equirement	s	
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Revenue Generating Fund		670,000		50,000	50,000					720,000
Total		670,000		50,000	50,000					720,000

Project Title:Bailey Generator No. 4 Wartsila PLC UpgradeStart Date:01/25End Date:12/25

Description:

The BAG4 PLC and I/O hardware are past end of life and beyond legacy support. This project will update the generator to a modern PLC and I/O hardware platform. This project will be completed in phases and requires engineering services, planning, plans and specifications, the procurement of equipment, the demolition/installation of equipment, factory acceptance testing (FAT) and commissioning.

		Adopted 2025							
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art									,
Design Land/Property Acquisition (ROW) Land/Property Improvements			10,000	10,000					10,000
Construction Management Construction Vehicles/Moving Equipment			10,000	10,000					10,000
Operating Equipment			95,000	95,000					95,000
Environmental/Other Studies Other			25,000	25,000					25,000
Total			140,000	140,000					140,000

			A	dopted 202	5		Projected R	equirement	s	
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund				140,000	140,000					140,000
Total				140,000	140,000					140,000

Project Title:Battery Systems and ChargersStart Date:01/20End Date:12/29

Description:

There are ten battery systems and chargers throughout the KPU Electric system within powerhouses and substations. Eight will be approaching end of life over the next ten (10) years. A battery system and charger failure will compromise system reliability. This project will start systematically replacing these systems. 2025 funding will replace one of these systems.

		A	Adopted 202	5		Projected R	equirements		
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art Design Land/Property Acquisition (ROW) Land/Property Improvements Construction Management Construction Vehicles/Moving Equipment Operating Equipment Environmental/Other Studies Other	172,000		50,000	50,000	50,500	50,500	50,500	50,500	424,000
Total	172,000		50,000	50,000	50,500	50,500	50,500	50,500	424,000

			A	dopted 202	5		Projected Ro	equirements	3	
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund		172,000		50,000	50,000	50,500	50,500	50,500	50,500	424,000
Total		172,000		50,000	50,000	50,500	50,500	50,500	50,500	424,000

Project Title: Vehicles & Moving Equipment Start Date: 01/25 End Date: 12/29

Description:

<u>Purchase</u>

2025, 1/2 Ton pickup to replace SCADA vehicle 185-56 \$60,000 2026, Utility Pole Rock Drill - \$100,000

		A	Adopted 202	5		Projected R	equirements	quirements		
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project	
Public Art Design Land/Property Acquisition (ROW) Land/Property Improvements Construction Management Construction Vehicles/Moving Equipment Operating Equipment Environmental/Other Studies Other			60,000	60,000	100,000	200,000	350,000	125,000	835,000	
Total			60,000	60,000	100,000	200,000	350,000	125,000	835,000	

			Į P	Adopted 2028	5		Projected Re	equirements		
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Revenue Generating Fund				60,000	60,000	100,000	200,000	350,000	125,000	835,000
Total				60,000	60,000	100,000	200,000	350,000	125,000	835,000

Project Title:Operating EquipmentStart Date:01/25End Date:12/29

Description:

This capital account provides for the purchase of new or replacement equipment used for the operation and maintenance of electrical service.

1) Substation and Powerhouse Electronic Meters, Relays and Control Equipment	\$ 25,000
2) New Test/Indication/Recording Equipment, Repair & Recalibration	\$ 80,000
3) Meters, Probes, Hand Tools, Radios	\$ 30,000
4) Customer Current & Potential Transformers	\$ 25,000
5) Generation and Powerhouse Spare Parts	\$ 80,000
Control Equipment, Capacitor Bank Upgrade/Spares	\$ 20,000
7) SCADA Critical Parts	\$ 40,000

		, A	Adopted 202	5		Projected R	equirements	quirements			
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project		
Public Art Design Land/Property Acquisition (ROW) Land/Property Improvements Construction Management Construction Vehicles/Moving Equipment Operating Equipment Environmental/Other Studies Other			300,000	300,000	300,000	300,000	300,000	300,000	1,500,000		
Total			300,000	300,000	300,000	300,000	300,000	300,000	1,500,000		

			A	Adopted 2028	5	F	5			
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Revenue Generating Fund				300,000	300,000	300,000	300,000	300,000	300,000	1,500,000
Total				300,000	300,000	300,000	300,000	300,000	300,000	1,500,000

Project Title:AMI, Meters and Meter Replacement PartsStart Date:01/25End Date:12/29

Description:

The division continues phasing in the AMI meters to make available advanced metering functions, including automated billing. This project funds replacement of the division's metering equipment and AMI software & hardware. This project also funds validating metering system accuracy and replacement of residential and commercial meters that are on a 20 year replacement schedule (or 5% per year).

		, A	Adopted 202	5		Projected R	equirements	quirements			
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project		
Public Art Design Land/Property Acquisition (ROW) Land/Property Improvements Construction Management Construction Vehicles/Moving Equipment Operating Equipment Environmental/Other Studies Other			100,000	100,000	125,000	125,000	125,000	125,000	600,000		
Total			100,000	100,000	125,000	125,000	125,000	125,000	600,000		

			A	Adopted 202	5		Projected Re	equirements	;	
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund				100,000	100,000	125,000	125,000	125,000	125,000	600,000
Total				100,000	100,000	125,000	125,000	125,000	125,000	600,000

Project Title:Additional ProjectsStart Date:01/25End Date:12/29

Description:

This project represents funds for materials and labor for unidentified jobs that the division will be called upon to perform in 2025. Examples of additional projects include the installation of new transformers and banks of transformers, upgrading existing transformers and banks and upgrading secondary lift poles. These non-reimbursable projects are O&M in nature but are capital since they represent new installations.

			Adopted 202	5		Projected R	equirements	3	
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art Design Land/Property Acquisition (ROW) Land/Property Improvements Construction Management Construction Vehicles/Moving Equipment Operating Equipment Environmental/Other Studies Other		·	164,000	164,000	164,000	164,000	164,000	164,000	820,000
Total			164,000	164,000	164,000	164,000	164,000	164,000	820,000

			A	dopted 202	5		Projected Re	equirements	;	
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund				164,000	164,000	164,000	164,000	164,000	164,000	820,000
Total				164,000	164,000	164,000	164,000	164,000	164,000	820,000

Project Title:Spare Substation Class Transformer RefurbishmentStart Date:01/25End Date:12/25

Description:

The 5 MVA 34.5kV - 12.47kV station-class transformer replaced during from Bethe Substation upgrade project in 2012 has been stored at Point Higgins Substation. A third-party conducted a physical inspection and completed electrical testing on the unit in 2023. The unit was found to be in good working order, but in need of paint and corrosion mitigation. Funding provides for this work to be compelted in 2024, after which KPU will locate a suitable long-term storage option, keeping this transformer as a high-value critical spare and/or for use in a furture substation upgrade project.

		Adopted 2025				S			
	Prior	Reappro-							Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art									
Design									
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management									
Construction					65,000				65,000
Vehicles/Moving Equipment									
Operating Equipment									
Environmental/Other Studies									
Other									
Total					65,000				65,000

			Adopted 2025							
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund						65,000				65,000
Total						65,000				65,000

Project Title:Security Fence and GatesStart Date:01/25End Date:01/25

Description:

To increase security at the Electric Division warehouse at 1065 and 1029 Fair Street by installing higher fencing and rolled gates for access in and out of the facilities.

		Adopted 2025			Projected Requirements				⊣ _ . "
	Prior	Reappro-	New						Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art									
Design									
Land/Property Acquisition (ROW)									
Land/Property Improvements					45,000				45,000
Construction Management									
Construction									
Vehicles/Moving Equipment									
Operating Equipment									
Environmental/Other Studies									
Other									
Total					45,000				45,000

			Adopted 2025				s			
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund						45,000				45,000
Total						45,000				45,000

Project Title:ESRI Trouble Ticket SolutionStart Date:01/25End Date:12/25

Description:

The Division will implement an ESRI-based work order/trouble ticket management web application, integrating with the existing geographical information system (GIS) and utilitizing both desktop work stations and mobile devices in the field. This will provide a clear transfer of information to work crews when trouble calls are logged by Bailey Operations, as well as a better tracking and prioritizing for service calls during high-volume events such as storms.

		<i>P</i>	dopted 202	5		S			
	Prior	Reappro-	New						Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art									
Design					40,000				40,000
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management									
Construction									
Vehicles/Moving Equipment									
Operating Equipment									
Environmental/Other Studies									
Other									
Total					40,000				40,000

			Adopted 2025							
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund						40,000				40,000
Total						40,000				40,000

Project Title:Bailey Generator Radiator ReplacementStart Date:01/25End Date:12/26

Description:

The exterior radiators for Bailey Generator No. 3 (BAG3) and No. 4 (BAG4) continually develop leaks in the core, requiring cutting and removing parts of the radiator system. Increased generator usage and subsequent increased maintenance of the cooling system may result in the eventual need for complete replacement/upgrade of the radiators and cooling systems. It may be possible to design a more cost effective solution in lieu of complete replacement. 2024 funding allows for inspections, review of replacement options, and development of replacement specifications (if necessary).

						Projected Ro	S		
	Prior	Reappro-	New						Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art									
Design					40,000				40,000
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management									
Construction						60,000			60,000
Vehicles/Moving Equipment									
Operating Equipment						240,000			240,000
Environmental/Other Studies									
Other									
Total					40,000	300,000			340,000

			Adopted 2025							
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund						40,000	300,000			340,000
Total						40,000	300,000			340,000

Project Title:Bailey Fuel Tank PaintingStart Date:01/25End Date:01/25

Description:

Bailey 210,000 gallon fuel tank pressure wash, prep and painting. The tank is approximately 32 feet tall and 30' in diameter.

		Adopted 2025				S	⊣ _		
Business Const Costs warms	Prior	Reappro-		Tatal	0000	0007	0000	0000	Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art									
Design									
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management									
Construction									
Vehicles/Moving Equipment									
Operating Equipment									
Environmental/Other Studies									
Other					100,000				100,000
Total					100,000				100,000

			Adopted 2025				Projected Requirements				
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project	
Godi oo oi i unuo	110.	10010	priatou	ranang	Total	2020	2021	2020	2020	110,000	
Revenue Generating Fund						100,000				100,000	
Total						100,000				100,000	

Project Title:Penstock InspectionsStart Date:01/25End Date:12/25

Description:

Inspection Plan and performance of exterior and interior inspections of the c. 1947 – 1957 Ketchikan Lakes and Beaver Falls steel penstocks.

		Adopted 2025				S	⊣ _		
Business Const Costs warms	Prior	Reappro-		Tatal	0000	0007	0000	0000	Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art									
Design									
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management									
Construction									
Vehicles/Moving Equipment									
Operating Equipment									
Environmental/Other Studies									
Other					100,000				100,000
Total					100,000				100,000

			Adopted 2025							
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund						100,000				100,000
Total						100,000				100,000

Project Title:Beaver Falls Switch Gear ReplacementStart Date:01/17End Date:12/25

Description:

The Beaver Falls powerhouse switchgear needs replacement and is an operating risk to the power plant. The existing equipment is 1940s vintage and beyond its reliable life. It has been identified as containing asbestos materials, which will need to be abated during the replacement of the equipment. This work requires the replacement/upgrade of the three (3) generator excitation systems, controls, breakers, protection relays, electrical panels, DC electrical equipment and modification of the control room. This is a major project requiring an established scope of work and detailed work schedule. This project will be completed in phases over multiple years and requires engineering services, planning, plans and specifications, the procurement of equipment, the demolition/installation of equipment and commissioning.

		Adopted 2025			Projected Requirements				
	Prior	Reappro-	New						Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art									
Design	105,000				30,000				135,000
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management					7,000				7,000
Construction					240,000				240,000
Vehicles/Moving Equipment									
Operating Equipment					1,000,000				1,000,000
Environmental/Other Studies					98,000				98,000
Other									
Total	105,000			<u>'</u>	1,375,000				1,480,000

		Adopted 2025			Projected Requirements				
Fu Source of Funds N	-	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Revenue Generating Fund	105,000				1,375,000				1,480,000
Total	105,000				1,375,000				1,480,000

Project Title:Watershed LiDAR SurveyStart Date:01/25End Date:12/25

Description:

FERC is requiring KPU to collect LiDAR data of the Ketchikan Lakes watershed by early 2024, prior to the next Part 12D inspection (correspondence dated 8/24/2023). As we expect that LiDAR data of the Whitman Lake and Silvis Lakes watersheds will soon be required, it is more cost efficient to obtain data for all three watersheds concurrently.

		Adopted 2025							
	Prior	Reappro-	New						Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art									
Design									
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management									
Construction									
Vehicles/Moving Equipment									
Operating Equipment									
Environmental/Other Studies					250,000				250,000
Other									
Total					250,000				250,000

			P	Adopted 202	5					
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund						250,000				250,000
Total						250,000				250,000

Project Title:Reimbursable ProjectsStart Date:01/25End Date:12/29

Description:

This capital account represents funds for materials for work that the division will be called upon to perform at the request of outside agencies and customers. Examples of reimbursable projects are new line extensions and damage repairs to the electrical system resulting from accidents, negligence and vandalism. The division's expectation is that such work will be reimbursed 100%. This CIP provides a means for warehouse inventory and transformer accounts to be replenished due to customer projects.

		Adopted 2025							
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art Design Land/Property Acquisition (ROW) Land/Property Improvements Construction Management Construction Vehicles/Moving Equipment Operating Equipment Environmental/Other Studies Other					25,000	25,000	25,000	25,000	100,000
Total					25,000	25,000	25,000	25,000	100,000

			Adopted 2025			F				
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund						25,000	25,000	25,000	25,000	100,000
Total						25,000	25,000	25,000	25,000	100,000

Project Title: Ketchikan International Airport Upgrade Start Date: 01/20 End Date: 12/26

Description:

The existing armored submarine electrical cable that serves the airport is nearing the end of its useful life (installed mid-1970s). The armoring has also begun to corrode, leading to the installation of slip-on armoring on its Gravina beach landing. The cable originates behind the Bailey Powerhouse tank farm and runs through the area of the Ketchikan Shipyard, Taquan Air, Carlanna Creek and the Bailey fuel barge delivery point. Dredging in the early 1970s damaged the original KIA cable. Design and specifications have been developed, in conjunction with the State and the Borough, to install a new armored cable beginning at a location near the airport ferry terminal. Preliminary uplands work began in 2020. The submarine cable will be purchased in 2024, along with continued uplands work and material. The new cable is programmed for installation in 2025 after the State's airport ferry terminal project progresses.

		Adopted 2025							
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art									
Design	46,426								46,426
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management									
Construction	7,000				800,000				807,000
Vehicles/Moving Equipment									
Operating Equipment	158,051				375,000				533,051
Environmental/Other Studies	14,500								14,500
Other									
Total	225,977				1,175,000				1,400,977

		Adopted 2025 Projected Re					equirement	s	
	nd Prior o. Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Revenue Generating Fund	225,977				1,175,000				1,400,977
Total	225,977				1,175,000				1,400,977

Project Title:Bailey Mooring Dolphin ReplacementStart Date:01/25End Date:12/25

Description:

Fuel is delivered to the Bailey Power Plant by barge. One of the mooring dolphins used to secure the barge is of wood pile construction and at the end of its useful life. This project will replace it with a steel pile cluster. Project costs include installation of the new dolphin, removal of the old wood piles, design, permitting and other associated costs.

	Adopted 2025 Projected Requirements				S	1			
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art Design Land/Property Acquisition (ROW) Land/Property Improvements					50,000				50,000
Construction Management Construction Vehicles/Moving Equipment Operating Equipment Environmental/Other Studies Other					150,000				150,000
Total					200,000				200,000

		Adopted 2025								
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund						200,000				200,000
Total						200,000				200,000

Project Title:Feeder Protective Relay UpgradesStart Date:01/22End Date:12/29

Description:

Feeder protective relays are at end-of-life and are in need of upgrades. Feeder protective relays provide line protection, fault locating, event analysis, and other system protection. This project will include design, engineering, equipment, installation, and testing for twenty-two (22) relays.

		A	Adopted 202	5	Projected Requirements				
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art Design Land/Property Acquisition (ROW) Land/Property Improvements Construction Management Construction Vehicles/Moving Equipment Operating Equipment	10,000	·			30,000	10,000	10,000	10,000	70,000
Environmental/Other Studies Other	50,000				450,000	50,000	50,000	50,000	250 000
Total	50,000				150,000	50,000	50,000	50,000	350,000

			A	dopted 202	5	F				
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund		50,000				150,000	50,000	50,000	50,000	350,000
Total		50,000				150,000	50,000	50,000	50,000	350,000

Project Title:System SectionalizersStart Date:01/25End Date:12/27

Description:

This project provides funding for the acquisition of single-phase and three-phase primary reclosers, ancillary equipment, and associated engineering studies. Installing reclosers throughout the system is a step toward modernizing KPU Electric's distribution system, allowing for reduced outages, greater restoration flexibility, more accurate system data.

		A	Adopted 202	5		Projected Requirements				
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project	
Public Art Design Land/Property Acquisition (ROW) Land/Property Improvements Construction Management Construction					10,000	10,000	10,000		30,000	
Vehicles/Moving Equipment Operating Equipment Environmental/Other Studies Other					85,000 5,000	90,000	90,000		265,000 5,000	
Total					100,000	100,000	100,000		300,000	

			Adopted 2025			F	3			
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund						100,000	100,000	100,000		300,000
Total						100,000	100,000	100,000		300,000

Project Title:Digital Radio System UpgradesStart Date:01/24End Date:12/25

Description:

KPU Electric utilizes an island-wide radio system; it is an important safety tool when maintaining utility equipment. This project will update the existing Motorola radio system. The existing system has coverage issues and uses multiple channels for communication. The upgraded system will improve island-wide coverage and migrate to a single use channel.

		Adopted 2025				Projected Requirements				
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project	
Public Art										
Design Land/Property Acquisition (ROW) Land/Property Improvements Construction Management Construction Vehicles/Moving Equipment	6,000				10,000				16,000	
Operating Equipment Environmental/Other Studies Other					100,000				100,000	
Total	6,000				120,000				126,000	

			Δ.	dopted 202	5		Projected R	equirement	s	
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Revenue Generating Fund		6,000				120,000				126,000
Total		6,000				120,000				126,000

Project Title:Port West Feeder Reconfiguration & Site ModificationStart Date:01/25End Date:12/26

Description:

The Port West Substation reached end-of-life and has been partially removed from service. The substation will be reconfigured, loads sectionalized, and added to Bethe Substation as a new feeder, feeder No. 3.

		Adopted 2025				S			
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art					20,000				20,000
Design Land/Property Acquisition (ROW) Land/Property Improvements Construction Management					20,000				20,000
Construction Vehicles/Moving Equipment					40,000	950,000			990,000
Operating Equipment Environmental/Other Studies					90,000				90,000
Other					25,000				25,000
Total					175,000	950,000			1,125,000

			Adopted 2025							
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund						175,000	950,000			1,125,000
Total						175,000	950,000			1,125,000

Project Title:Bailey Exhaust Stack Re-CoatingStart Date:01/25End Date:12/25

Description:

This project is to sandblast and paint all four Bailey diesel generator exhaust stacks with a proper high-heat anti-corrosion coating. These efforts will mitigate further corrosion that may otherwise lead to eventual high cost repairs and/or replacement. Work in development of detailed scope, specifications, and a more refined estimate to undertake the work in 2025.

		Adopted 2025				S			
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art Design Land/Property Acquisition (ROW) Land/Property Improvements Construction Management Construction Vehicles/Moving Equipment Operating Equipment Environmental/Other Studies					25,000				25,000
Other Total					125,000				125,000

			Adopted 2025			Projected Requirements				
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund						125,000				125,000
Total						125,000				125,000

Project Title:Electric Division Service CenterStart Date:01/26End Date:12/28

Description:

This project provides for the acquisition of property for future construction of an Electric Division Service Center. For a number of years, the present facility located at 1065 Fair Street has been inadequate for the needs of the Electric Division.

In 1996, a study was completed by an architecture firm which determined the size and proposed facility and possible sites with the conceptual plan for the Electric Division Service Center to occur in 2003. The project was deferred through 2005 and in 2006, removed from the budget. The need for moving forward and updating/expanding the Electric Division Service Center has become more critical in that we are currently renting multiple storage facilities and rental space to accommodate material and staff.

		Adopted 2025				;			
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art									
Design						500,000			500,000
Land/Property Acquisition (ROW)					1,800,000				1,800,000
Land/Property Improvements					200,000				200,000
Construction Management							250,000		250,000
Construction							4,750,000		4,750,000
Vehicles/Moving Equipment									
Operating Equipment									
Environmental/Other Studies									
Other							100,000		100,000
Total					2,000,000	500,000	5,100,000		7,600,000

			A	dopted 202	5	Projected Requirements				
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund Bond Funding						2,000,000	500,000	5,100,000		7,600,000
Total					•	2,000,000	500,000	5,100,000	•	7,600,000

Project Title:Silvis Tunnel ValveStart Date:01/25End Date:12/26

Description:

The Silvis tunnel valve leaks badly and is no longer capable of shutting off water to the penstock and Silvis Powerhouse. This has implications for project safety and the ability to maintain the plant. Given the location of the valve in a tunnel at the top of a steep slope, this will be a challenging project.

		Adopted 2025				S			
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art									
Design					40,000				40,000
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management									
Construction					400,000				400,000
Vehicles/Moving Equipment									
Operating Equipment									
Environmental/Other Studies									
Other									
Total					440,000				440,000

			Adopted 2025							
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund						440,000				440,000
Total						440,000				440,000

Priority Number: Division: Electric 35

Project Title: Generator Rewind & Repair **Start Date:** 01/25 End Date: 12/26

Description:

Typical life expectancy for generator windings is 30-40 years. Generators in service beyond 50 years become a major concern. They are at an elevated risk of failure causing loss of generation and/or potential powerhouse fires. This budget is to provide funding for two rewinds and other repairs as identified through testing and inspection.

Silvis: Unit No. 1 (1968)
Beaver Falls: Unit No. 1 (2014), Unit No. 3 (2018, and Unit No. 4 (2018)
Ketchikan: Unit No. 3 (2015), Unit No. 4 (1951), and Unit No. 5 (1991)

		Adopted 2025				S			
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art									
Design					25,000	25,000			50,000
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management									
Construction					400,000	400,000			800,000
Vehicles/Moving Equipment									
Operating Equipment					200,000	200,000			400,000
Environmental/Other Studies					25,000	25,000			50,000
Other									
Total					650,000	650,000			1,300,000

			Į A	Adopted 202	5		s			
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund						650,000	650,000			1,300,000
Total						650,000	650,000			1,300,000

Project Title:34.5 kV Breaker Relay SparesStart Date:01/25End Date:12/25

Description:

34.5kV (38kV) recloser with control cables and controller are used in the transmission system and substation. These are critical components for system sectionalizing and isolation.

		Adopted 2025				S			
	Prior	Reappro-	New						Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art									
Design					5,000				5,000
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management									
Construction									
Vehicles/Moving Equipment									
Operating Equipment					100,000				100,000
Environmental/Other Studies									
Other									
Total					105,000				105,000

			Adopted 2025							
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund						105,000				105,000
Total						105,000				105,000

Project Title:Beaver Falls Governor RehabilitationStart Date:01/25End Date:12/25

Description:

KPU Electric's hydro systems lack provision for isochronous operation (precise frequency control) if islanded, as sometimes occurs during outages and restoration. This proposed upgrade would provide SCADA selection for isoc/droop governor operation for Beaver Falls Nos. 3 & 4.

		Adopted 2025				⊣ '			
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art Design					50,000				50,000
Land/Property Acquisition (ROW) Land/Property Improvements Construction Management Construction Vehicles/Moving Equipment					30,000				30,000
Operating Equipment Environmental/Other Studies Other					175,000 25,000				175,000 25,000
Total					250,000				250,000

			Adopted 2025							
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund						250,000				250,000
Total						250,000				250,000

Project Title:Silvis Shaft & Turbine OverhaulStart Date:01/25End Date:12/25

Description:

The original turbine has had numerous repairs over its lifecycle; the seal rings are out-of-tolerance, the shaft bearing surfaces require machining, the wicket gate assembly is out-of-tolerance and other major components require upgrades. This work does not include the major electrical components.

		Adopted 2025				⊣ '			
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art Design					50,000				50,000
Land/Property Acquisition (ROW) Land/Property Improvements Construction Management Construction Vehicles/Moving Equipment					00,000				00,000
Operating Equipment Environmental/Other Studies Other					650,000 50,000				650,000 50,000
Total					750,000				750,000

			Adopted 2025							
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Revenue Generating Fund						750,000				750,000
Total						750,000				750,000

Project Title:Bailey Unit No. 1 RehabilitationStart Date:01/19End Date:12/27

Description:

Bailey Generator No. 1 (BAG1) was built in the 1970s. During operation in October 2018, BAG1 suffered a main bearing failure, which caused extensive damage to the powertrain. This project will fund the rehabilitation of the turbocharger, fuel delivery system and engine components including injectors, main journals, crankshaft, connecting rods, pistons, bearings and related components. The estimate assumes onsite work. The project may require additional funding if overhaul or repair of major components is not feasible or possible.

		Adopted 2025				S			
	Prior	Reappro-	New						Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art									
Design									
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management									
Construction	11,921					300,000			311,921
Vehicles/Moving Equipment									
Operating Equipment						550,000			550,000
Environmental/Other Studies									
Other									
Total	11,921					850,000			861,921

			Adopted 2025				s			
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund		11,921					850,000			861,921
Total		11,921					850,000			861,921

Project Title:Clam Cove 3-Phase UpradeStart Date:01/26End Date:12/27

Description:

Future development plans in and around the Clam Cove area (Gravina Island), require a major upgrade to the electrical system in the area. Clam Cove is currently bottlenecked by the existing single-phase submarine cables, overhead single-phase line on Pennock Island, and transformer capacity on Revilla. Not only will overall system capacity need to be greatly increased on Gravina, but also three-phase will be needed for commercial loads and to properly balance amperage across the feeder's conductors. Design will be undertaken in 2026 for the construction of a three-phase line beginning from existing infrastructure at the Ketchikan International Airport. The route is approximately four (4) miles, and will be primarily overhead construction, but areas around the airport runway will require underground construction. 2027 funds show a projection for construction and material acquisition by an electrical contractor. In 2023 KPU was unsuccessful in obtaining grant funding for this line, with the driving force being a need to expand fiber infrastructure into the area.

		Adopted 2025				s			
	Prior	Reappro-	New						Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art									
Design					475,000	475,000			950,000
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management						100,000			100,000
Construction						1,900,000			1,900,000
Vehicles/Moving Equipment									
Operating Equipment									
Environmental/Other Studies					25,000				25,000
Other									
Total					500,000	2,475,000			2,975,000

			Adopted 2025							
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund						500,000	2,475,000			2,975,000
Total						500,000	2,475,000			2,975,000

Project Title:Mountain Point Substation ReplacementStart Date:01/25End Date:12/26

Description:

Mountain Point Substation, a five (5) MVA capacity station, was constructed in 1994 and is approaching it's end of life. Scoping and design work will be required to develop construction and procurement plans in 2025. Work is anticipated to include replacement of the power transformer, voltage regulators, feeder breakers, conductors, bus work, grounding, 34.5kV circuit-switcher, control house, communications, oil containment, and fencing. The newly constructed substation, utilizing the same approximate footprint, must be constructed in a manner to allow for project load growth over a thirty (30) to forty (40) year life-span, and to also be capable of carrying some of Ketchikan Substation's feeder load in emergency situations.

		Adopted 2025				S			
	Prior	Reappro-	New						Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art									
Design					750,000				750,000
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management						100,000			100,000
Construction						7,500,000			7,500,000
Vehicles/Moving Equipment									
Operating Equipment									
Environmental/Other Studies									
Other									
Total					750,000	7,600,000			8,350,000

			Adopted 2025							
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Revenue Generating Fund Bond Funding						750,000	7,600,000			8,350,000
Total						750,000	7,600,000			8,350,000

Project Title:Bailey Substation ReplacementStart Date:01/27End Date:12/28

Description:

Bailey Substation serves as both the SEAPA delivery point into the KPU system, and the main diesel generation delivery point. It last saw substation work in the late-1990's when Bailey Genenerator No. 4 (BAG4) was installed in the adjoining Bailey Powerhouse; prior to that was the early 1980's when the 115kV Swan Lake transmission line was brought into the station. Scoping and design work will be highly dependent on a second SEAPA delivery point being brought online, without which cost estimates will be significantly greater due to the challenges associated with maintaining hydro imports to KPU while conducting work within Bailey Substation. Work is anticipated to include replacement of diesel generator transformers, grounding transformer, 34.5kV breakers, bus work, gang-switches, grounding, conductors, communications, oil containment, and fencing.

		Adopted 2025				5			
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Project Cost Category Public Art	1 ears	priateu	Fullding	IOlai	2020	2021	2020	2029	Froject
Design						1,500,000			1,500,000
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management							300,000		300,000
Construction							15,000,000		15,000,000
Vehicles/Moving Equipment									
Operating Equipment									
Environmental/Other Studies									
Other									
Total						1,500,000	15,300,000		16,800,000

			Adopted 2025							
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Revenue Generating Fund Bond Funding							1,500,000	15,300,000		16,800,000
Total							1,500,000	15,300,000		16,800,000

Project Title: Ward Cove Substation Replacement Start Date: 01/28 End Date: 12/29

Description:

Ward Cove Substation, a five (5) MVA capacity station, was constructed in the early 1990's and is approaching it's end of life. Scoping and design work will be required to develop construction and procurement plans in 2028. Work is anticipated to include replacement of the power transformer, voltage regulators, feeder breakers, conductors, bus work, grounding, 34.5kV circuit-switcher, control house, communications, oil containment, and fencing. The newly constructed substation, utilizing the same approximate footprint, must be constructed in a manner to allow for project load growth over a thirty (30) to forty (40) year life-span, and to also be capable of carrying some of Bethe Substation and/or North Point Higgins Substation feeder loads in emergency situations. Current estimate is \$8.1M for construction, procurement, and construction management in 2029.

		4	Adopted 2025			Projected Requirements				
Business Const. Contamorni	Prior	Reappro-	New	Tatal	0000	0007	0000	0000	Total	
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project	
Public Art										
Design							800,000		800,000	
Land/Property Acquisition (ROW)										
Land/Property Improvements										
Construction Management										
Construction								8,100,000	8,100,000	
Vehicles/Moving Equipment										
Operating Equipment										
Environmental/Other Studies										
Other										
Total							800,000	8,100,000	8,900,000	

			Adopted 2025							
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund Bond Funding								800,000	8,100,000	8,900,000
Total								800,000	8,100,000	8,900,000

Project Title:Diesel Generator ReplacementStart Date:01/27End Date:12/28

Description:

Ketchikan does not currently have an adequate level of back-up/emergency generation to supply the community in the event of a loss of Southeast Alaska Power Agency's (SEAPA) 115kV transmission line, particulary during cold winter months. Future load growth projections will dramatically exacerbate the matter. KPU currently owns six (6) diesel generators: 4 (four) at Bailey Powerhouse, with one unit, one (1) of the two (2) 3.5MW 1964 Worthington units out of commission; and two (2) units at the North Point Higgins Substation. Conceptually, both of the Worthington generators at Bailey will be replaced by a large cogeneration (co-gen) turbine unit with secondary steam generation, in the order of magnitude of 25MW. Extensive work to the powerhouse structure, fuel tank farm and delivery system, exhaust & cooling system, control & communication systems, and adjoining Bailey Substation electrical equipment (see Bailey Substation Replacement CIP), will be required.

		4	Adopted 202	5		Projected R	equirements	;	
Ducinet Cont Cotomour	Prior	Reappro-	New	Total	2020	2027	2020	2020	Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art									
Design						4,000,000			4,000,000
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management							750,000		750,000
Construction							40,000,000		40,000,000
Vehicles/Moving Equipment									
Operating Equipment									
Environmental/Other Studies						125,000			125,000
Other									
Total						4,125,000	40,750,000		44,875,000

			Adopted 2025							
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund Bond Funding							4,125,000	40,750,000		44,875,000
Total		•					4,125,000	40,750,000		44,875,000

Project Title:Whitman Powerhouse Domestic Water Re-PlumbStart Date:01/25End Date:12/25

Description:

The galvanized piping for the cooling water was replaced with stainless steel. This is needed to finish the project and replace the galvanized pipes for the domestic water with copper.

		Adopted 2025				S			
	Prior	Reappro-	New						Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art									
Design				I					
Land/Property Acquisition (ROW)				I					
Land/Property Improvements				I					
Construction Management				I					
Construction				I					
Vehicles/Moving Equipment				I					
Operating Equipment				I					
Environmental/Other Studies				I	50,000				50,000
Other				I					
				<u> </u>					
Total				<u> </u>	50,000				50,000

			Adopted 2025			Projected Requirements				
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Revenue Generating Fund						50,000				50,000
Total						50,000				50,000

Project Title:Whitman Part 12 Comprehensive AssessmentStart Date:1/26End Date:12/26

Description:

Whitman Part 12 Comprehensive Assessement

		F	Adopted 202		S				
	Prior	Reappro-							Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art									
Design					1				
Land/Property Acquisition (ROW)					1				
Land/Property Improvements					1				
Construction Management		1			ļ				
Construction		1			ļ				
Vehicles/Moving Equipment					1				
Operating Equipment					1				
Environmental/Other Studies					200,000				200,000
Other									
Total					200,000				200,000

			Adopted 2025							
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
D 0 : F 1	-						-			
Revenue Generating Fund						200,000				200,000
Total						200,000				200,000

Project Title:Lower Silvis Lake Submarine Cable ReplacementStart Date:01/25End Date:12/29

Description:

The existing 5kV submarine cable that runs along the bottom of Lower Silivs Lake, between the powerhouse and substation, was installed in the 1990's and is neary the end of its expected life. Additionally, a separate fiber cable is run parallel to the power cable. Both the cables are subject ice and debris, and are critical for maintaining generation out of Silivs Powerhouse and for regulating water available for Beaver Falls Powerhouse. 2025 will see a conceptual concept and budget being developed by an electrical engineering consultant to install a new combined armored power/fiber submarine cable under the lake, including obtaining detailed bathymetry to determine exact future routing. Projected funding requirements will not be available until the concept is developed.

		<i>P</i>	Adopted 202	5		S			
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art		-							_
Design Land/Property Acquisition (ROW) Land/Property Improvements Construction Management Construction Vehicles/Moving Equipment Operating Equipment Environmental/Other Studies Other					50,000				50,000
Total					50,000				50,000

			Adopted 2025							
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund						50,000				50,000
Total						50,000				50,000

Ketchikan Public Utilities 2025 - 2029 Capital Improvement Program

Division: Telecommunications

			,	Adopted 2025 Projected Requirements				;		
		Prior	Reappro-	New						Total
Project Title	Priority	Years	priated	Funding	Total	2026	2027	2028	2029	Project
REGULATED										
Normal Growth and Repair - Buildings	1			100,000	100,000	100,000	100,000	100,000	100,000	500,000
Normal Growth and Repair - CO Switching	2			50,000	50,000	50,000	50,000	50,000	50,000	250,000
Normal Growth and Repair - Copper Cable	3			20,000	20,000	25,000	25,000	25,000	25,000	120,000
Normal Growth and Repair - Fiber Cable	4			300,000	300,000	250,000	300,000	325,000	350,000	1,525,000
Normal Growth and Repiar - CO Transmission	5			250,000	250,000	275,000	300,000	325,000	350,000	1,500,000
Normal Growth and Repair - Expansion	6			10,000	10,000	15,000	15,000	15,000	20,000	75,000
Normal Growth and Repair - Provisioning	7			20,000	20,000	20,000	20,000	20,000	20,000	100,000
Fiber to the Home	8			300,000	300,000	250,000	300,000	325,000	300,000	1,475,000
Remote Cabinets for Advanced Services	9			50,000	50,000	75,000	75,000	50,000	50,000	300,000
Core Network Upgrade	10			150,000	150,000	1,000,000	1,000,000	750,000	500,000	3,400,000
Server Environment	11			600,000	600,000	100,000	100,000	100,000	200,000	1,100,000
Multi-Dwelling Unit Projects	12			75,000	75,000	100,000	100,000	100,000	100,000	475,000
Operating Equipment	13			100,000	100,000	100,000	100,000	125,000	150,000	575,000
PC Hardware & Software	14			75,000	75,000	75,000	75,000	75,000	100,000	400,000
Power Expansion/Reclamation	15			50,000	50,000	100,000	100,000	100,000	100,000	450,000
Visual Mapping Software	16			10,000	10,000	20,000	20,000	20,000	20,000	90,000
Network Monitoring	17			50,000	50,000	100,000	100,000	100,000	150,000	500,000
Vehicle Acquisition	18					100,000	100,000	200,000	250,000	650,000
Security	19			60,000	60,000	75,000	100,000	125,000	125,000	485,000
NON-REGULATED										
4G/LTE	20			200,000	200,000	200,000	200,000	150,000	150,000	900,000
Hosted	21			80,000	80,000	100,000	100,000	200,000	400,000	880,000
WiFi	22			50,000	50,000	75,000	100,000	100,000	125,000	450,000
Internet Expansion	23		150,000		150,000	100,000	150,000	600,000	150,000	1,150,000
KetchCan1 Subsea Cable Repair	24		676,500		676,500					676,500
Total			826,500	2,600,000	3,426,500	3,305,000	3,530,000	3,980,000	3,785,000	18,026,500

			1	Adopted 202	:5					
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund			826,500	2,600,000	3,426,500	3,305,000	3,530,000	3,980,000	3,785,000	18,026,500
Total			826,500	2,600,000	3,426,500	3,305,000	3,530,000	3,980,000	3,785,000	18,026,500

Project Title:Normal Growth and Repair - BuildingsStart Date:01/25End Date:12/29

Description:

This capital account provides funding for improvements to existing buildings including HVAC improvements, replacement of lighting fixtures and installation of building alarms or related security items. Additionally, the division will make significant repairs to the truck barn due to leaks in the roof and rusted and end of life siding. Some additional office space is needed for KPU-Tel as well as some power redundancy to the building.

		<i>P</i>	dopted 202	5	I	3			
	Prior	Reappro-	New						Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art									
Design									
Land/Property Acquisition (ROW)									
Land/Property Improvements			100,000	100,000	100,000	100,000	100,000	100,000	500,000
Construction Management									
Construction									
Vehicles/Moving Equipment									
Operating Equipment									
Environmental/Other Studies									
Other									
Total			100,000	100,000	100,000	100,000	100,000	100,000	500,000

			Adopted 2025			ı	3			
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund				100,000	100,000	100,000	100,000	100,000	100,000	500,000
Total				100,000	100,000	100,000	100,000	100,000	100,000	500,000

Project Title:Normal Growth and Repair - Central Office SwitchingStart Date:01/25End Date:12/29

Description:

This capital account provides funding for reliability upgrades and additional capacity equipment required for the division's telecommunications switching and voice over Internet protocol network. Included are funds to enhance least cost routing and fraud detection, as well as to ensure that features work with all residential lines.

		Adopted 2025 Projected Requirements							
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art Design Land/Property Acquisition (ROW) Land/Property Improvements Construction Management Construction Vehicles/Moving Equipment Operating Equipment Environmental/Other Studies Other			50,000	50,000	50,000	50,000	50,000	50,000	250,000
Total			50,000	50,000	50,000	50,000	50,000	50,000	250,000

			, and a	Adopted 202	ted 2025		Projected Re	equirement		
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund				50,000	50,000	50,000	50,000	50,000	50,000	250,000
Total				50,000	50,000	50,000	50,000	50,000	50,000	250,000

Project Title:Normal Growth and Repair - Copper CableStart Date:01/25End Date:12/29

Description:

This capital account provides funding for the replacement of deteriorated cables and construction of minor cable projects, including line extensions. This capital account also funds cable, cross arms and miscellaneous hardware required to reconnect to poles replaced by the Electric Division. The copper plant, while decreasing in importance, is aging and will need maintenance work to keep functioning optimally over the next 10 years. This capital account will also fund the systematic reduction and removal of existing portions of the copper plant as services are phased to fiber.

		Adopted 2025 Projected Requirements							
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art Design	10010	priatou	1,000	1,000	1,000	1,000	1,000	1,000	5,000
Land/Property Acquisition (ROW) Land/Property Improvements Construction Management			1,000	1,000	1,000	1,000	1,000	1,000	3,000
Construction Vehicles/Moving Equipment			15,000	15,000	10,000	10,000	10,000	10,000	55,000
Operating Equipment Environmental/Other Studies Other			4,000	4,000	14,000	14,000	14,000	14,000	60,000
Total			20,000	20,000	25,000	25,000	25,000	25,000	120,000

			Adopted 2025			ı				
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund				20,000	20,000	25,000	25,000	25,000	25,000	120,000
Total				20,000	20,000	25,000	25,000	25,000	25,000	120,000

Project Title:Normal Growth and Repair - Fiber CableStart Date:01/25End Date:12/29

Description:

This capital account provides funding for growing the FTTH/FTTB business and for the continued maintenance of our existing fiber plant. This capital account also includes materials and labor for continued installation of fiber service drops for customers who order high bandwidth services. As circuits reach 1Gbps and beyond to 10Gbps copper circuits will no longer be a feasible option for internet customers.

		Adopted 2025 Projected Requirements						6	
	Prior	Reappro-	New						Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art									
Design			5,000	5,000	5,000	5,000	5,000	5,000	25,000
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management									
Construction			150,000	150,000	137,500	162,500	175,000	187,500	812,500
Vehicles/Moving Equipment									
Operating Equipment			145,000	145,000	107,500	132,500	145,000	157,500	687,500
Environmental/Other Studies									
Other									
Total			300,000	300,000	250,000	300,000	325,000	350,000	1,525,000

			<u> </u>	Adopted 202	5	I				
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund				300,000	300,000	250,000	300,000	325,000	350,000	1,525,000
Total	·			300,000	300,000	250,000	300,000	325,000	350,000	1,525,000

Project Title:Normal Growth and Repair - CO TransmissionStart Date:01/25End Date:12/29

Description:

This capital account provides funding for the purchase and installation of additional intelligent Network Interface Devices (NIDS) and Optical Network Terminals (ONTS) required to deliver service to customers served via fiber optic cable; internal network fiber ports; network transmission electronics necessary to serve business customers with new private line services including digital data service, optical wide area network, T1s, etc.; finishing the migration off the division's legacy platforms, which are no longer supported, to the standard Adtran platforms for both Optical and VDSL services.

		<i> </i>	Adopted 202	5	Projected Requirements				
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art Design									
Land/Property Acquisition (ROW) Land/Property Improvements									
Construction Management Construction			20,000	20,000	22,000	24,000	26,000	28,000	120,000
Vehicles/Moving Equipment Operating Equipment Environmental/Other Studies			230,000	230,000	253,000	276,000	299,000	322,000	1,380,000
Other									
Total			250,000	250,000	275,000	300,000	325,000	350,000	1,500,000

			Δ.	dopted 202	5	ı	S			
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund				250,000	250,000	275,000	300,000	325,000	350,000	1,500,000
Total				250,000	250,000	275,000	300,000	325,000	350,000	1,500,000

Project Title:Normal Growth and Repair - ExpansionStart Date:01/25End Date:12/29

Description:

This capital account provides funding to upgrade, maintain and expand the division's "off island" connections, ensuring reliable services are provided to underserved, outlying areas. This project utilizes both wireless, fiber, and satellite technologies to provide services to remote areas.

	Adopted 2025 Projected Requirements						5		
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art Design Land/Property Acquisition (ROW) Land/Property Improvements Construction Management Construction Vehicles/Moving Equipment Operating Equipment Environmental/Other Studies Other		p	2,000	2,000	3,000 12,000	3,000 12,000	3,000	4,000 16,000	15,000 60,000
Total			10,000	10,000	15,000	15,000	15,000	20,000	75,000

			, and a	Adopted 2025		Projected Requirement			3	
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund				10,000	10,000	15,000	15,000	15,000	20,000	75,000
Total				10,000	10,000	15,000	15,000	15,000	20,000	75,000

Project Title:Normal Growth and Repair - ProvisioningStart Date:01/25End Date:12/29

Description:

This capital account provides funding for the introduction, upgrade, automation and integration of systems necessary to promote the enhancement of the customer service and support experience. In the furture, efforts will begin to attempt to replace the division's trouble ticketing software with a new up-to-date system.

		<i>I</i>	Adopted 202	5	I	6			
	Prior	Reappro-	New						Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art									
Design			5,400	5,400	5,400	5,400	5,400	5,400	27,000
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management									
Construction									
Vehicles/Moving Equipment									
Operating Equipment			2,200	2,200	2,200	2,200	2,200	2,200	11,000
Environmental/Other Studies									
Other			12,400	12,400	12,400	12,400	12,400	12,400	62,000
Total			20,000	20,000	20,000	20,000	20,000	20,000	100,000

			Adopted 2025			ı	3			
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund				20,000	20,000	20,000	20,000	20,000	20,000	100,000
Total				20,000	20,000	20,000	20,000	20,000	20,000	100,000

Project Title:Fiber to the HomeStart Date:01/25End Date:12/29

Description:

This capital account provides funding for contract labor to deploy fiber cable and terminals necessary to bring fiber to homes, businesses and multi-dwelling units throughout Ketchikan. This capital account will also fund materials, equipment and contractor labor for replacing insufficient and non-expandable fiber facilities with fiber overlays. Additionally, this project will allow the division to look into providing fiber into outlying, underserved areas.

		Adopted 2025 Projected Requirements							
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art Design	100.00	prinates	2,000	2,000	2,500	3,000	3,250	3,000	13,750
Land/Property Acquisition (ROW) Land/Property Improvements Construction Management									
Construction Vehicles/Moving Equipment			90,000	90,000	87,500	90,000	97,500	90,000	455,000
Operating Equipment Environmental/Other Studies Other			208,000	208,000	160,000	207,000	224,250	207,000	1,006,250
Total			300,000	300,000	250,000	300,000	325,000	300,000	1,475,000

			A	dopted 2025		ı	Projected R	equirements		
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund				300,000	300,000	250,000	300,000	325,000	300,000	1,475,000
Total				300,000	300,000	250,000	300,000	325,000	300,000	1,475,000

Project Title:Remote Cabinets for Advanced ServicesStart Date:01/25End Date:12/29

Description:

This capital account provides funding for the maintenance and/or replacement of remote switching cabinets (RSC). This project also equips RSC's with remote monitoring sensors, ensuring technicians can remotely detect proper operation prior to failure. This account also funds the out-of-band network back to the Central Office. Over the next few years several remote cabinets need to be replaced. In some cases power or batteries to the remote cablinet need to be replaced.

		Adopted 2025 Projected Requirements							
	Prior	Reappro-	New						Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art									
Design			1,250	1,250	1,875	1,875	1,250	1,250	7,500
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management									
Construction			3,750	3,750	5,625	5,625	3,750	3,750	22,500
Vehicles/Moving Equipment									
Operating Equipment			45,000	45,000	67,500	67,500	45,000	45,000	270,000
Environmental/Other Studies									
Other									
Total			50,000	50,000	75,000	75,000	50,000	50,000	300,000

			-	Adopted 202	5	I				
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund				50,000	50,000	75,000	75,000	50,000	50,000	300,000
Total				50,000	50,000	75,000	75,000	50,000	50,000	300,000

Project Title:Core Network UpgradeStart Date:01/25End Date:12/29

Description:

This capital account provides funding for the expansion of the existing core to add additional resiliency and diversity to key components. The current core of the network reaches end-of-life 2024-2025 depending on various types of hardware, and there is an effort in 2026 to move the network from a 10G to a 100G backbone.

		A	Adopted 2025			Projected Requirements				
Businest Coat Cataman	Prior	Reappro-		Total	2020	2027	2020	2020	Total	
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project	
Public Art										
Design										
Land/Property Acquisition (ROW)										
Land/Property Improvements										
Construction Management										
Construction										
Vehicles/Moving Equipment										
Operating Equipment			142,100	142,100	947,500	947,500	710,625	473,750	3,221,475	
Environmental/Other Studies										
Other			7,900	7,900	52,500	52,500	39,375	26,250	178,525	
Total			150,000	150,000	1,000,000	1,000,000	750,000	500,000	3,400,000	

			Adopted 2025			I	3			
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund				150,000	150,000	1,000,000	1,000,000	750,000	500,000	3,400,000
Total				150,000	150,000	1,000,000	1,000,000	750,000	500,000	3,400,000

Project Title:Server EnvironmentStart Date:01/25End Date:12/29

Description:

This capital account provides funding for the growth, expansion and upgrade of the division's data storage and virtualized server environment. This allows the division to standardize its server infrastructure, while collapsing the physical footprint and reducing overall power consumption. Additionally, this project allows for the deployment of VM technology to supplement the division's hosted datacenter service offerings and offer cloud based services. In August of 2025 our primary data center cluster's 4 hosts go end of life and need to be replaced. In order to add more redundancy to the project a 5th host will be added. The project will provide processing power to our new Netsapiens Class V softswitch which is utilizing more horsepower than anticipated due to the increased workoad of encrypting voice traffic.

		Adopted 2025 Projected Requirements							
	Prior	Reappro-	New						Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art									
Design			15,000	15,000	2,500	2,500	2,500	5,000	27,500
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management									
Construction			15,000	15,000	2,500	2,500	2,500	5,000	27,500
Vehicles/Moving Equipment									
Operating Equipment			570,000	570,000	95,000	95,000	95,000	190,000	1,045,000
Environmental/Other Studies									
Other									
Total			600,000	600,000	100,000	100,000	100,000	200,000	1,100,000

			Δ.	dopted 202	5					
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund				600,000	600,000	100,000	100,000	100,000	200,000	1,100,000
Total				600,000	600,000	100,000	100,000	100,000	200,000	1,100,000

Project Title:Multi-Dwelling Unit ProjectStart Date:01/25End Date:12/29

Description:

This capital account provides funding for the purchase of multi-dwelling unit (MDU) electronics, enabling provision of triple-play services to the 40% of KPU customers residing in apartment buildings, via a single fiber (eliminating the need to run multiple fibers into multi-dwelling units). This project will eliminate the corresponding need to install and maintain the per each fiber electronics required for multiple fiber installations.

		Adopted 2025 Projected Requirements							
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art Design Land/Property Acquisition (ROW) Land/Property Improvements		printed	1,875	1,875	2,500	2,500	2,500	2,500	11,875
Construction Management Construction Vehicles/Moving Equipment			1,875	1,875	2,500	2,500	2,500	2,500	11,875
Operating Equipment Environmental/Other Studies Other			71,250	71,250	95,000	95,000	95,000	95,000	451,250
Total			75,000	75,000	100,000	100,000	100,000	100,000	475,000

			, and a	Adopted 2025		Projected Requirements				
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund				75,000	75,000	100,000	100,000	100,000	100,000	475,000
Total				75,000	75,000	100,000	100,000	100,000	100,000	475,000

Project Title:Operating EquipmentStart Date:01/25End Date:12/29

Description:

This capital account provides funding for the test equipment utilized by KPU technicians to test, repair and install high speed data and voice circuits, particularly as it relates to KPU's expanded fiber optic network and 4G networks. A higher expenditure in 2025 involves pre-qualifying subsea fiber circuits the division might sell to a larger customer that would expect proof of capability. As the division sells more capacity over our subsea fiber expectations are that KPU will need to invest more in high-end test equipment.

		Adopted 2025				5			
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art Design Land/Property Acquisition (ROW) Land/Property Improvements Construction Management Construction Vehicles/Moving Equipment Operating Equipment Environmental/Other Studies Other			100,000	100,000	100,000	100,000	125,000	150,000	575,000
Total			100,000	100,000	100,000	100,000	125,000	150,000	575,000

			, and a	Adopted 2025		ı	Projected Re	3		
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund				100,000	100,000	100,000	100,000	125,000	150,000	575,000
Total				100,000	100,000	100,000	100,000	125,000	150,000	575,000

Project Title:PC Hardware and SoftwareStart Date:01/25End Date:12/29

Description:

This capital account funds replacement of outdated computers and purchases of new pc hardware for Private Branch Exhange (PBX, business phone), Outside Plant, Central Office Network Technicians, and administrative staff.

In order to remain competitive KPU will be rolling out symmetrical 2.5Gbps and 5Gbps and managed wifi 7 services which provide more than 1Gbps over wireless. And KPU will continue to resell WebEx services in 2025 which will require our PBX staff to support and maintain both windows and apple ecosystems fluently.

		<i>I</i>	Adopted 202	5		\$			
	Prior	Reappro-	New						Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art									
Design									
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management									
Construction									
Vehicles/Moving Equipment									
Operating Equipment			75,000	75,000	75,000	75,000	75,000	100,000	400,000
Environmental/Other Studies									
Other									
Total			75,000	75,000	75,000	75,000	75,000	100,000	400,000

			Adopted 2025				Projected Requirements				
	Fund	Prior	Reappro-	New						Total	
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project	
Revenue Generating Fund				75,000	75,000	75,000	75,000	75,000	100,000	400,000	
Total				75,000	75,000	75,000	75,000	75,000	100,000	400,000	

Project Title:Power Expansion/ReclamationStart Date:01/25End Date:12/29

Description:

This capital account provides funding for the expansion of power facilities via new AC/DC filtering or reclamation of existing usage via more efficient equipment.

		<i> </i>	Adopted 202	5		6			
	Prior	Reappro-	New						Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art									
Design			1,250	1,250	2,500	2,500	2,500	2,500	11,250
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management									
Construction			1,250	1,250	2,500	2,500	2,500	2,500	11,250
Vehicles/Moving Equipment									
Operating Equipment			47,500	47,500	95,000	95,000	95,000	95,000	427,500
Environmental/Other Studies									
Other									
Total			50,000	50,000	100,000	100,000	100,000	100,000	450,000

			, and a	Adopted 2025		Projected Requirements				
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund				50,000	50,000	100,000	100,000	100,000	100,000	450,000
Total				50,000	50,000	100,000	100,000	100,000	100,000	450,000

Project Title:Visual Mapping SoftwareStart Date:01/25End Date:12/29

Description:

This capital account provides funding to enhance the division's documentation and ability to automate and distribute inside and outside plant design at the physical and logical levels. Future funding procures enhancements and labor to ensure the system is properly audited and meeting the needs of division customers. This capital account also provides funding for data migration and for database connectivity and relationships support among visual mapping systems, as well as required training in visual mapping software.

	Adopted 2025 Projected Requirements						5		
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art									
Design									
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management									
Construction			3,000	3,000	2,400	2,400	2,400	2,400	12,600
Vehicles/Moving Equipment									
Operating Equipment			3,700	3,700	7,400	7,400	7,400	7,400	33,300
Environmental/Other Studies					•				
Other			3,300	3,300	10,200	10,200	10,200	10,200	44,100
				,	,	,		,	,
Total			10,000	10,000	20,000	20,000	20,000	20,000	90,000

			Α	Adopted 202	5	ı	Projected Requirements			
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund				10,000	10,000	20,000	20,000	20,000	20,000	90,000
Total				10,000	10,000	20,000	20,000	20,000	20,000	90,000

Project Title:Network MonitoringStart Date:01/25End Date:12/29

Description:

This capital account provides funding for the purchase of hardware and software critical to enhancing the monitoring and complete visibility of the KPU network for the purposes of resolving customer issues quickly and putting the network in a place where a variety of monitoring products can be deployed to identify threats.

		Adopted 2025				Projected Requirements				
	Prior	Reappro-	New						Total	
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project	
Public Art										
Design										
Land/Property Acquisition (ROW)										
Land/Property Improvements										
Construction Management										
Construction										
Vehicles/Moving Equipment										
Operating Equipment			17,500	17,500	35,000	35,000	35,000	52,500	175,000	
Environmental/Other Studies										
Other			32,500	32,500	65,000	65,000	65,000	97,500	325,000	
Total			50,000	50,000	100,000	100,000	100,000	150,000	500,000	

			Adopted 2025			ı				
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund				50,000	50,000	100,000	100,000	100,000	150,000	500,000
Total				50,000	50,000	100,000	100,000	100,000	150,000	500,000

Project Title:Vehicle AcquisitionStart Date:01/25End Date:12/29

Description:

This capital account funds replacement of aging vehicles to prevent excessive maintenance costs and breakdowns affecting KPU Telecom's ability to meet customer demands.

		Adopted 2025 Projected Requirements							
	Prior	Reappro-	New						Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art									
Design									
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management									
Construction									
Vehicles/Moving Equipment					100,000	100,000	200,000	250,000	650,000
Operating Equipment									
Environmental/Other Studies									
Other									
Total					100,000	100,000	200,000	250,000	650,000

			Adopted 2025			F				
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund						100,000	100,000	200,000	250,000	650,000
Total						100,000	100,000	200,000	250,000	650,000

Project Title:SecurityStart Date:01/25End Date:12/29

Description:

This capital account provides funding for the development of efforts to secure the network from internal and external threats in detecting and preventing the division and its customers from unauthorized intrusions or denial of service. Detecting and responding to cyberattacks in real-time requires a specialized set of analytical software to protect the network. Security is increasingly an issue in the network world and the division's costs will increase to protect the network when the division moves to a 100G backbone.

		Adopted 2025 Projected Requirements							
	Prior	Reappro-	New						Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art									
Design			6,600	6,600	8,250	11,000	13,750	13,750	53,350
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management									
Construction									
Vehicles/Moving Equipment									
Operating Equipment			53,400	53,400	66,750	89,000	111,250	111,250	431,650
Environmental/Other Studies									
Other									
Total			60,000	60,000	75,000	100,000	125,000	125,000	485,000

			Α	dopted 202	pted 2025		Projected Requirement			
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund				60,000	60,000	75,000	100,000	125,000	125,000	485,000
Total				60,000	60,000	75,000	100,000	125,000	125,000	485,000

 Project Title:
 4G/LTE
 Start Date:
 01/25

 End Date:
 12/29

Description:

This capital account provides continued funding to construct and maintain KPU's 4G/LTE Mobile network. The future of the division's 4G/LTE network is unclear but future estimates include the replacement of existing nodes based upon a potential 5G future. This years summer tourist season placed more demand on the cellular network than ever before and funds are needed to improve service downtown.

			Adopted 202	5					
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art	1 cars	priated	runung	Total	2020	2021	2020	2023	Troject
Design Land/Property Acquisition (ROW) Land/Property Improvements Construction Management			2,000	2,000	2,000	2,000	1,500	1,500	9,000
Construction Construction Vehicles/Moving Equipment			30,000	30,000	30,000	30,000	22,500	22,500	135,000
Operating Equipment Environmental/Other Studies Other			168,000	168,000	168,000	168,000	126,000	126,000	756,000
Total			200,000	200,000	200,000	200,000	150,000	150,000	900,000

			-	Adopted 2025		Projected Requiremen			3	
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund				200,000	200,000	200,000	200,000	150,000	150,000	900,000
Total				200,000	200,000	200,000	200,000	150,000	150,000	900,000

Project Title: Hosted Start Date: 01/25 End Date: 12/29

Description:

This capital account provides funding to upgrade, maintain and expand business offerings on the division's Hosted PBX Platforms. Legacy switches across the network need to be replaced to meet our customer's desire to move beyond 1Gbps.

		P	Adopted 202	5		5			
	Prior	Reappro-	New						Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art									
Design									
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management									
Construction									
Vehicles/Moving Equipment									
Operating Equipment			24,000	24,000	30,000	30,000	60,000	120,000	264,000
Environmental/Other Studies									
Other			56,000	56,000	70,000	70,000	140,000	280,000	616,000
Total			80,000	80,000	100,000	100,000	200,000	400,000	880,000

			<i>P</i>	Adopted 2025		Projected Requirement			3	
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund				80,000	80,000	100,000	100,000	200,000	400,000	880,000
Total				80,000	80,000	100,000	100,000	200,000	400,000	880,000

Project Title:WiFiStart Date:01/25End Date:12/29

Description:

This capital account funds the ability for KPU to deploy WiFi in strategic locations in town; to support free and paid WiFi services for local and transient customers. This account also funds efforts to make WiFi available to residential customers who are difficult to serve using wired connectivity. WiFi is a fast growing technology and to keep pace with the industry the division will need to respond with an increase in KPU's investment in these products to provide the best service including managed WiFi.

		<i>F</i>	Adopted 202	5					
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art Design		Prince	1,250	1,250	1,875	2,500	2,500	3,125	11,250
Land/Property Acquisition (ROW) Land/Property Improvements Construction Management									
Construction Vehicles/Moving Equipment			10,000	10,000	15,000	20,000	20,000	25,000	90,000
Operating Equipment Environmental/Other Studies Other			38,750	38,750	58,125	77,500	77,500	96,875	348,750
Total			50,000	50,000	75,000	100,000	100,000	125,000	450,000

			Α	Adopted 202	opted 2025		Projected Requirement			
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund				50,000	50,000	75,000	100,000	100,000	125,000	450,000
Total				50,000	50,000	75,000	100,000	100,000	125,000	450,000

Project Title:Internet ExpansionStart Date:01/25End Date:12/29

Description:

This capital account provides funding for the growth and change of the Internet distribution systems and off-island transport networks providing broadband to the division's non-regulated customers. As the division sells subsea fiber circuits and capacity to migrate the internet links to 100G, subsea fiber optical equipment maintenance and growth will be necessary in the future. In 2028, we will likely need to upgrade our coherent optical switching platform at Mountain Point.

		<i> </i>	Adopted 202	5					
Business Cont. Containing	Prior	Reappro-		Total	2020	2027	2020	2020	Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art									
Design		14,000		14,000	9,000	14,000	56,000	14,000	107,000
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management									
Construction		17,000		17,000	11,000	17,000	68,000	17,000	130,000
Vehicles/Moving Equipment									
Operating Equipment		119,000		119,000	80,000	119,000	476,000	119,000	913,000
Environmental/Other Studies									
Other									
Total		150,000		150,000	100,000	150,000	600,000	150,000	1,150,000

			Adopted 2025			ı				
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund			150,000		150,000	100,000	150,000	600,000	150,000	1,150,000
Total			150,000		150,000	100,000	150,000	600,000	150,000	1,150,000

Project Title:KetchCan1 Subsea Cable RepairStart Date:01/25End Date:12/29

Description:

This capital account provides funding for the emergency repair of the KetchCan1 Subsea Cable should the cable become damaged. The North America Zone Maintenance Authority Agreement was approved by the City Council in 2022 and authorizes this annual appropriation. Funds will be used only as needed during an emergency; unexpended funds will be reappropriated each budget year.

		<i>I</i>	Adopted 202	5		Projected R	equirement	s	
	Prior	Reappro-	New						Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art									
Design									
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management									
Construction		676,500		676,500					676,500
Vehicles/Moving Equipment									
Operating Equipment									
Environmental/Other Studies									
Other									
Total		676,500		676,500					676,500

			Δ.	dopted 202	5					
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Fund			676,500		676,500					676,500
Total			676,500		676,500					676,500

Ketchikan Public Utilities 2025 - 2029 Capital Improvement Program

Division: Water

			Adopted 2025				Projected R	equirements	3	
		Prior	Reappro-	New				•		Total
Project Title	Priority	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Filtration Facility - Preliminary Preparation Tasks	1	1,047,666		390,000	390,000		5.113.000			6.550.666
Water Meters - Business & Commercial Customers	2	436.719	813.281	000,000	813,281	150,000	0,110,000			1,400,000
Replace Tongass Ave. Suspended Water Main	3	.00,0	0.0,20.	407.228	407.228	.00,000				407.228
Replace Water St. Suspended Water Main	4			412.000	412.000					412.000
Valve Boxes - Repair of Surrounding Pavement	5			50,000	50,000	100,000	100,000	100,000	100,000	450,000
Water Distribution Grid Improvements	6			30.000	30.000	30.000	30.000	30.000	30.000	150.000
Water Service Upgrade Program	7			21,000	21,000	21,000	21,000	21,000	21,000	105,000
Backflow Prevention Program	8			15,000	15,000	15,000	15,000	15,000	15,000	75,000
Second Avenue Main Replacement	9			225,000	225,000		160,000		990,000	1,375,000
SCADA PLC Controllers	10			360,000	360,000		,		,	360,000
Pump Station Switchgear Improvements	11	81,250				45,000				126,250
Replace ClorTec Generating Cells	12	130,000				50,000	50,000			230,000
Fiber-optic Communications Switches	13					25,000				25,000
Peterson Street Utility Improvements	14					350,000				350,000
Harris St. Utility Improvements	15					125,000	750,000			875,000
Park Ave. Utility Improvements	16					125,000	1,950,000			2,075,000
Utility Vehicles	17					155,000	180,000	85,000		420,000
Additional Projects	18					50,000	50,000	50,000	50,000	200,000
Skyline Water Main Replacement	19					70,000	390,000			460,000
West Fairy Chasm Replacement	20					87,000		593,000		680,000
Hillside Road Water Main Replacement	21	19,440				60,000		644,000		723,440
Ketchikan Lakes Road Water Main Replacement	22	21,035				700,000				721,035
Highlands Reservoir Property Acquisition	23						400,000			400,000
Ktn. Lakes Alternative Raw Water Supply Piping	24								12,000,000	12,000,000
Thomas Basin Water Main Replacement	25					70,000	300,000			370,000
Total		1,736,110	813,281	1,910,228	2,723,509	2,228,000	9,509,000	1,538,000	13,206,000	30,940,619

			Adopted 2025			Projected Requirements				
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
KPU Reserves - Public Art										
Revenue Generating Funds SFY 2025 Funding Request		1,299,391		1,910,228	1,910,228	2,228,000	5,719,000	301,000	216,000	11,673,619
Revenue Bonds - ADWF Loan		436,719	813,281		813,281		1,895,000	618,500	6,495,000	10,258,500
Proposed 50% State Municipal Assistance Funding							1,895,000	618,500	495,000	3,008,500
Proposed Dam Safety Hydropower Grant									6,000,000	6,000,000
Total		1,736,110	813,281	1,910,228	2,723,509	2,228,000	9,509,000	1,538,000	13,206,000	30,940,619

Project Title:Filtration Facility - Preliminary Preparation TasksStart Date:01/20End Date:12/27

Description:

While EPA Region 10 deliberations are continuing on the merits of granting Ketchikan a Limited Alternative to Filtration (LAF), significant progress has been achieved and it is entirely conceivable that a LAF may be granted before the end of 2024. KPU anticipates this LAF will require additional disinfection treatment as another layer of continued public health protection, similar to Seattle's Cedar water treatment requirements and will likely include future anticipated tasks that will be necessary for compliance. The State of Alaska will publish draft LAF regulations after the EPA approval is granted and KPU will follow the State's compliance schedule (estimated to be 3 to 5 years). During that period, KPU will implement the ADEC permit requirements and prepare grant and loan applications for the anticipated capital improvements. To begin the process, in February 2024, KPU authorized the preliminary design for a third UV Reactor in February 2024 in Amendment No. 6 to Contract 19-44 with Jacobs Engineering. Once the final terms of Ketchikan's LAF are known, their work will continue completing the design and KPU will begin seeking construction funding through State of Alaska Drinking Water Loans.

		Adopted 2025 Projected Requirements					s		
	Prior	Reappro-	New						Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art									
Design	1,047,666		390,000	390,000					1,437,666
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management									
Construction						5,113,000			5,113,000
Vehicles/Moving Equipment									
Operating Equipment									
Environmental/Other Studies									
Other									
Total	1,047,666		390,000	390,000		5,113,000			6,550,666

		A	Adopted 202	5		s			
Fur	-	Reappro-							Total
Source of Funds No	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Funds	1,047,666		390,000	390,000		5,113,000			6,550,666
Total	1,047,666		390,000	390,000		5,113,000			6,550,666

Project Title:Water Meters - Business & Commercial CustomersStart Date:01/24End Date:12/25

Description:

As it stands now, achieving the original goal of having all of the remaining approximately 225 unmetered businesses, commercial buildings, and large residential apartment complexes fully metered before the end of 2024 is simply no longer feasible and as a result, completion of this project is now very likely delayed into late 2025. A total of 210 meters are now fully functional and reporting. The final water meter installation contract is planned for 2025 that will install meters in the remainder of Ketchikan's approximately 225 unmetered businesses, commercial buildings, and large residential apartment complexes.

In addition, before this entire project becomes fully operational in 2025, the 2016 Water/ Wastewater Rate Study will need to be updated or a new study commissioned as well as amendments made to the Ketchikan Municipal Code.

		Adopted 2025 Projected Requirements					s		
	Prior	Reappro-	New						Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art									
Design									
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management									
Construction	436,719	813,281		813,281					1,250,000
Vehicles/Moving Equipment									
Operating Equipment									
Rate Study					150,000				150,000
Other									
Total	436,719	813,281		813,281	150,000				1,400,000

			Adopted 202	5		s			
	nd Prior		New Funding	Total	2026	2027	2028	2029	Total Project
Revenue Bonds - ADWF Loan KPU Revenue	436,7	19 813,281		813,281	150,000				1,250,000 150,000
Total	436,7	19 813,281		813,281	150,000				1,400,000

Project Title:Replace Tongass Avenue Suspended Water MainsStart Date:01/25End Date:12/25

Description:

A Greater Ketchikan Community Requests for Fiscal Year 2025 State Funding has been submitted in the amount of \$2.3-million for the replacement of 2035 feet of failing ductile iron water main both buried and hanging beneath the DOT's Tongass Avenue viaduct between Pump Station No. 3 (Kennedy St.) and extending to near 1645 Tongass (intersection with Tremont St.). This water main serves as the primary water transmission main for Ketchikan's West End area of the community by supplying potable water and fire protection. Installed in 1993, it has been submerged in salt water twice a day for over 30 years and is severly corroded. The mechanical fastenings are failing and the entire main and services need replacement with new 24-inch non-corrodable high density, polyethylene (HDPE) pipe. This is an important and urgent project being coordinated with the Alaska DOT&PF as their project is already in progress beginning to rebuild the viaducts. A design proposal has been received from Stephl Engineering who are already working with the DOT&PF on other facets of this project.

		<i> </i>	Adopted 202	5	Projected Requirements				
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art Design Land/Property Acquisition (ROW) Land/Property Improvements Construction Management Construction Vehicles/Moving Equipment Operating Equipment Environmental/Other Studies Other			407,228	407,228					407,228
Total			407,228	407,228					407,228

			Į.	dopted 202	5		Projected R	equirements	5	
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Revenue Generating Funds				407,228	407,228					407,228
Total				407,228	407,228					407,228

Project Title:Replace Water Street Suspended Water MainStart Date:01/25End Date:12/25

Description:

A Greater Ketchikan Community Request for Fiscal Year 2025 State Funding has been submitted in the amount of \$1.15-million for the replacement of 2260 feet of failing 12-inch & 28-inch ductile iron water main hanging beneath the DOT's Water Street viaduct between 425 Water Street and extending to Pump Station No. 3 (Kennedy Street). This water main serves as the primary water transmission main for Ketchikan's West End area of the community by supplying potable water and fire protection. Installed in 1993, it has been submerged in salt water twice a day for over 30 years and is severly corroded. The mechanical fastenings are failing and the entire main and services need replacement with new 24-inch & 16-inch non-corrodable high density, polyethylene (HDPE) pipe. A design proposal has been received from Stephl Engineering who are already working with the DOT&PF on other facets of this project.

	Adopted 2025 Projected Requirements								
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art Design Land/Property Acquisition (ROW) Land/Property Improvements Construction Management Construction Vehicles/Moving Equipment Operating Equipment Environmental/Other Studies Other			412,000	412,000					412,000
Total			412,000	412,000					412,000

		Adopted 2025 Projected Requirements						S		
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Revenue Generating Funds				412,000	412,000					412,000
Total				412,000	412,000					412,000

Project Title:Valve Boxes - Repair of Surrounding PavementStart Date:01/25End Date:12/29

Description:

In order for the Water Division to respond immediately to water main failures that occur beneath Ketchikan's streets, it must have ready access through the valve boxes to its in-line water main valves and hydrant valves in the street. In the 7-year period before 2020, when repavement of an asphalt street occurred, all cast-iron valve boxes were first lowered below the finished grade. After repavement was completed, a diamond shape was cut in the new asphalt, the valve box raised to the surface, and the surrounding diamond then refilled with warm asphalt. Unfortunately, the resultant compaction was minimal which allowed water to penetrate the new asphalt diamond. During the next subfreezing winter season, this became ice which expanded and caused the asphalt diamond to crack and fail. Since 2020, Ketchikan has ceased cutting these diamonds and brings critical valve boxes to the surface during the asphalt repaving process. This project continues the repairs made to the remaining failed asphalt diamonds until the street can be repaved correctly. Asphalt paving costs have continued to increase in 2024 and a \$10,000 increase is proposed for 2025.

		<i>A</i>	Adopted 202	5		5	_		
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art Design Land/Property Acquisition (ROW) Land/Property Improvements Construction Management Construction Vehicles/Moving Equipment Operating Equipment Environmental/Other Studies Other			50,000	50,000	100,000	100,000	100,000	100,000	450,000
Total			50,000	50,000	100,000	100,000	100,000	100,000	450,000

		Adopted 2025								
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Revenue Generating Funds				50,000	50,000	100,000	100,000	100,000	100,000	450,000
Total				50,000	50,000	100,000	100,000	100,000	100,000	450,000

Project Title:Water Distribution Grid ImprovementsStart Date:01/25End Date:12/29

Description:

Each year in conjunction with the work of other agencies, the Water Division is presented with opportunities to undertake repairs to improve the municipal water system. This account provides the funding for such improvements.

		Adopted 2025							
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art Design Land/Property Acquisition (ROW) Land/Property Improvements Construction Management Construction Vehicles/Moving Equipment Operating Equipment Environmental/Other Studies Other		·	30,000	30,000	30,000	30,000	30,000	30,000	150,000
Total			30,000	30,000	30,000	30,000	30,000	30,000	150,000

		Adopted 2025								
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Revenue Generating Funds				30,000	30,000	30,000	30,000	30,000	30,000	150,000
Total				30,000	30,000	30,000	30,000	30,000	30,000	150,000

Project Title:Water Service Upgrade ProgramStart Date:01/25End Date:12/29

Description:

The water service upgrade program was initiated in 1997, and has been an ongoing division initiative to allow a number of residents to upgrade their individual water services. The division proposes to continue offering this program in 2025. Numerous water services, from the main to the residence, are in need of replacement to KPU standards. After completion of the work and inspection by the division, this program allows the customer to provide cost documentation and receive a grant-in-aid. In addition, as a result of homeowners participating in this program, KPU will assume full responsibility for future repairs within the right-of-way as long as they are not caused by negligence on the part of the property owner. The \$1,000 is available for work undertaken on private property and up to \$6,000 is available for work undertaken within the right-of-way.

		Adopted 2025				↓			
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art Design Land/Property Acquisition (ROW) Land/Property Improvements Construction Management Construction Vehicles/Moving Equipment Operating Equipment Environmental/Other Studies Other		·	21,000	21,000	21,000	21,000	21,000	21,000	105,000
Total			21,000	21,000	21,000	21,000	21,000	21,000	105,000

		Adopted 2025								
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Revenue Generating Funds				21,000	21,000	21,000	21,000	21,000	21,000	105,000
Total				21,000	21,000	21,000	21,000	21,000	21,000	105,000

Project Title:Backflow Prevention ProgramStart Date:01/25End Date:12/29

Description:

This grant-in-aid program was established in 1995, and has been an ongoing division initiative to encourage businesses to install backflow preventers to help protect the municipal water system. This program is part of ADEC's mandated cross-connection control regulations which require the Utility to be responsible for system-wide protection. Until 2001, Ketchikan's lack of adoption and enforcement of the Uniform Plumbing Code allowed many substandard installations to be constructed within the City. Older sprinkler systems with just a single check are a particular problem. They cannot be tested and they leak contaminated water into the municipal system any time the adjacent water main is isolated and drained for repairs. Currently at least 19 systems, all installed before Ketchikan adopted the 2012 Uniform Plumbing Code which made backflow protection mandatory, are in need of backflow preventers. Participation is voluntary and the last time any business took advantage of the program was 2017. To encourage business owners to become compliant and protect the City's water system, reimbursement to the property owner is 50% of the installed cost of the backflow preventer, or \$3,000, whichever is the lesser.

		<i>A</i>	Adopted 202	5		5	_		
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art Design Land/Property Acquisition (ROW) Land/Property Improvements Construction Management Construction Vehicles/Moving Equipment Operating Equipment Environmental/Other Studies Other			15,000	15,000	15,000	15,000	15,000	15,000	75,000
Total			15,000	15,000	15,000	15,000	15,000	15,000	75,000

		Adopted 2025								
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Revenue Generating Funds				15,000	15,000	15,000	15,000	15,000	15,000	75,000
Total				15,000	15,000	15,000	15,000	15,000	15,000	75,000

Project Title:Second Avenue Main ReplacementStart Date:01/25End Date:12/29

Description:

In the aftermath of the Third Avenue Landslide which also destroyed a portion of Second Avenue's asphalt roadway between White Cliff to 2034 2nd Avenue, KPU Water in conjunction with Public Works, proposes to use this opportunity to replace about 310 feet of the existing 6-inch cast iron main with 8-inch HDPE pipe in 2025.

In addition, Second Avenue's cast-iron water mains were originally installed in a number of segments between 1956 and 1958. Only the failing water and sewer portions between Madison and Adams Streets were replaced in 2001. There have been four further failures in the 1275-foot portion between Adams and White Cliff of this fragile, old 6-inch cast-iron water main which is long overdue for replacement with non-corrodible 8-inch HDPE polyethylene pipe. Should Municipal Assistance Funding ever become available again, this would be another prime project that is already designed along with the Skyline, West Fairy Chasm, and Hillside projects and would have received ADEC approval for maximum points. Proposed for design in 2027 and construction in 2029

		<i>P</i>	dopted 202	5	Projected Requirements				
	Prior	Reappro-	New						Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art									
Design									
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management									
Construction Vehicles/Moving Equipment									
Operating Equipment									
Environmental/Other Studies									
Other									
2025 Design & Construction			225,000	225,000					225,000
2027 Design & 2029 Construction						160,000		990,000	1,150,000
Total			225,000	225,000		160,000		990,000	1,375,000

			<i>I</i>	Adopted 202	5	Projected Requirements				
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Source of Fullus	140.	Icais	priated	runding	Total	2020	2021	2020	2023	rioject
Revenue Generating Funds Proposed 50% State Municipal Assistance Funding Revenue Bonds - ADWF Loan				225,000	225,000		160,000		495,000 495,000	385,000 495,000 495,000
Total				225,000	225,000		160,000		990,000	1,375,000

Division: Water Project Priority: 10

Project Title:SCADA PLC ControllersStart Date:01/24End Date:12/25

Description:

Collectively, KPU has three Allen-Bradley Programmable Logic Controllers (PLCs) installed at the UV Facility, the Chlorination Plant, and the Ammonia Addition Facility. They are each providing continuous supervisory control over specific critical components within KPU's complex, computer-controlled, disinfection process. As identified in Contract 21-03 - Cyber Security Evaluation, this version of Allen Bradley PLCs, which were introduced in 2005, have ceased receiving any further factory support. This includes no longer maintaining any inventory of spare parts or the necessary input/output (I/O) modules. All of these critical PLC's must quickly migrate to the modern Allen-Bradley ControlLogix PLC platform before KPU's supply of replacement modules and spare parts is exhausted. Due to the world-wide effect of the coronavirus pandemic on material deliveries, the upgrade to the Water Treatment UV Facility's (CP-100) PLC wasn't completed until the summer of 2023. A contract has also been approved in 2023 to upgrade the PLC located in the Old Chlorination Building (CP-300) that will be installed in 2024. The third and final contract to upgrade PLC in the Ammonia Building (CP-400) will be issued in 2024 with its installation in 2025.

		A	dopted 202	4		S			
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2025	2026	2027	2028	Total Project
Public Art Design Land/Property Acquisition (ROW) Land/Property Improvements Construction Management Construction Vehicles/Moving Equipment Operating Equipment Environmental/Other Studies Other	596,500	<u></u>	360,000	360,000	2320				956,500
Total	596,500		360,000	360,000					956,500

			Α	dopted 202	4		s			
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2025	2026	2027	2028	Project
KPU Revenues/Reserves		596,500		360,000	360,000					956,500
Total		596,500		360,000	360,000					956,500

Project Title:Pump Station Switchgear ImprovementsStart Date:01/25End Date:12/25

Description:

Each pump station will be upgraded individually in order of highest concern to lowest concern which began in 2022 with the Baranof Zone, the Confidence Zone in 2023, and the Highlands Zone in 2024. The Carlanna Zone is fourth and final pump station that was originally installed in 1987, 37 years ago. As with our earlier pump station upgrades, the replacement motor and pump will be equipped with a modern, solid-state soft starter. Solid-state soft motor starters have a smooth acceleration to full speed, have no moving components, minimal reactive power losses, and cost about half as much as a mechanical motor starters formerly used.

			Adopted 202	5		Projected R	equirement	S	
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art Design Land/Property Acquisition (ROW) Land/Property Improvements Construction Management Construction Vehicles/Moving Equipment Operating Equipment Environmental/Other Studies Other	81,250				45,000				126,250
Total	81,250				45,000				126,250

			P	dopted 202	5		S			
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Revenue Generating Funds		81,250				45,000				126,250
Total		81,250				45,000				126,250

Project Title:Replace ClorTec Generating CellsStart Date:01/23End Date:12/26

Description:

Since September 16, 2002, KPU has been using proprietary ClorTec titanium generating cells to manufacture a 0.8% sodium hypochlorite disinfection solution. This process involves electrolytic separation by impressing a controlled amount of direct current (DC) electricity onto the titanium electrodes submerged in a saturated salt brine solution. A certain amount of degradation also occurs to the titanium generating cells themselves during their operation and they have an expected service life of about 7 years. Fortunately, Ketchikan's water is very soft with minimal hardness and buffering with the result in initial cells serving for 12 years, much longer than expected before being replaced in 2015. The Two-Point Chlorination Facility, which also uses the same design ClorTec generating cells, began service in 2016. These two facilities with 4 machines have a total of 10 cells in service that are being replaced as required. Beginning in 2023 with the two older 3-cell machines, KPU began building sufficient cell inventory that will allow one ClorTech machine to be re-equipped every year followed by the 2-cell machines. Each cell is estimated to cost about \$24,000 in 2025 with a 2.5% inflation allowance for the final purchase made during 2025.

			Adopted 202	5		Projected R	equirement	S	
	Prior	Reappro-	New						Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art									
Design									
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management									
Construction	130,000				50,000	50,000			230,000
Vehicles/Moving Equipment									
Operating Equipment									
Environmental/Other Studies									
Other									
Total	130,000				50,000	50,000			230,000

			Adopted 2025				Projected Requirements				
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project	
Revenue Generating Funds		130,000				50,000	50,000			230,000	
Total		130,000				50,000	50,000			230,000	

Project Title:Fiber-optic SwitchesStart Date:01/25End Date:12/25

Description:

As noted in the Operating Budget Changes narration for 2025, an installed fiber-optic link is now capable of providing redundant direct communication and control between the UV Disinfection Facility, the Two-Point Chlorination Facility, the Ammonia Addition Facility and the Chlorination Plant. Telecommunications has designed this system and installed the new fiber-optic cable. To create the fully operational system, it also requires the purchase by Telecommunications of four Cisco Meraki switches and their installation at the termination points within the facilities.

		A	Adopted 202	5		Projected R	equirement	S	
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art Design Land/Property Acquisition (ROW) Land/Property Improvements Construction Management Construction Vehicles/Moving Equipment Operating Equipment Environmental/Other Studies Other					25,000				25,000
Total					25,000				25,000

			<i>I</i>	Adopted 202	5					
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Revenue Generating Funds						25,000				25,000
Total						25,000				25,000

Project Title:Peterson St. Water Main RebuildStart Date:01/25End Date:12/25

Description:

During January 2022, Peterson Street's flawed cast-iron water main froze and broke. Installed in 1962 in a substandard manner with only 2-feet depth of cover, it depended on the adjacent residences using bleeders during the winter to not only keep their water services unfrozen but to also protect the cast-iron main. Two of these residences had been destroyed earlier due to fire and when another frozen service occurred at the end of the street, the Peterson Street main also froze. Public Works has completed a design of the Peterson Street Utility Improvement Project for both water and sewer replacement with non-corrodible plastic pipe for the entire 280-foot lengthand proposes to begin consturction in 2025.

		A					Projected Requirements			
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project	
Public Art Design Land/Property Acquisition (ROW) Land/Property Improvements Construction Management Construction Vehicles/Moving Equipment Operating Equipment Environmental/Other Studies Other					350,000				350,000	
Total					350,000				350,000	

			<i>I</i>	dopted 202	5					
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Revenue Generating Funds						350,000				350,000
Total						350,000				350,000

Project Title:Harris Street Utility ImprovementsStart Date:01/25End Date:12/27

Description:

Harris Street's 855 feet of cast-iron water mains extending from Park Avenue to the end at 833 Harris were originally installed in 1956 and 1969. Since then, there has been no further progress replacing this fragile, old 6-inch cast-iron water main with 8-inch HDPE pipe. Including the corregated metal sewer pipe, both are long overdue for replacement with non-corrodible plastic pipe. This will be a joint venture between Public Works and KPU Water Division and the design of the Harris Street Utility Improvement Project will begin in 2025. In addition, Public Works is proposing to replace the Harris Street stacked rock retaining wall alongside Ketchikan Creek with a concrete structure. Should should Municipal Assistance Funding ever become available again, this would be a prime project to have already designed, submittted for ADEC approval, and gain maximum points. A preliminary cost estimate of construction is included.

		Α	dopted 202	5	Projected Requirements				
	Prior	Reappro-	New						Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art									
Design					125,000				125,000
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management									
Construction						750,000			750,000
Vehicles/Moving Equipment									
Operating Equipment									
Environmental/Other Studies									
Other									
Total					125,000	750,000			875,000
								-	

			, , , , , , , , , , , , , , , , , , ,	Adopted 202	25	I				
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Funds Proposed 50% State Municipal Assistance Funding Revenue Bonds - ADWF Loan						125,000	375,000 375,000			125,000 375,000 375,000
Total	·					125,000	750,000			875,000

Project Title:Park Avenue Utility improvementsStart Date:01/25End Date:12/27

Description:

Park Avenue's 1170 feet of ductile-iron water main extending from Freeman Street to the intersection of Bawden Street was originally installed in 1988. Although it has remained trouble-free for the past 35 years, not so the wastewater main which Public Works proposes to begin replacement design in 2025, continue into 2026, and construct in 2027. There is no present funding available for its replacement but if there were, it will be a joint venture between Public Works and the Water Division to replace the ductile iron water main and services with 12-inch non-corrodible HDPE polyethylene pipe. However, should Municipal Assistance Funding ever become available again, this would be a prime project to have already designed, submitted for ADEC approval, and gain maximum points. A preliminary cost estimate of construction is included.

		Adopted 2025			I				
	Prior	Reappro-	New						Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art								i	
Design					125,000			•	125,000
Land/Property Acquisition (ROW)								•	
Land/Property Improvements								•	
Construction Management								1	ļ
Construction						1,950,000		1	1,950,000
Vehicles/Moving Equipment								1	
Operating Equipment								•	
Environmental/Other Studies								•	
Other								ı	
Total					125,000	1,950,000			2,075,000

			A	Adopted 202	5					
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Revenue Generating Funds Proposed 50% State Municipal Assistance Funding Revenue Bonds - ADWF Loan						125,000	975,000 975,000			125,000 975,000 975,000
Total						125,000	1,950,000			2,075,000

Project Title:Utility VehiclesStart Date:01/25End Date:12/27

Description:

The division requests approval of \$155,000 for the 2025 purchase of a replacement for the Kubota rubber tracked backhoe with transport trailer. Jointly shared by the divisions, it was purchased in 2007 and is supremely useful in tight situations where a large, rubber-tired backhoe won't fit. However, it is reaching the end of its useful service life and now requires significant repairs to the drive system. Vehicle 185-66, the single axle dump truck jointly shared by the Electric and Water Divisions was purchased in 2003. Already 22 years old, it too is reaching the end of its useful service life with substantial mechanical issues. Replacement of this dump truck will be about \$180,000 and will be replaced in 2026. The oldest service truck in the fleet is Vehicle 185-95 which was purchased in 2011. It will be 16 years old when it is replaced in 2027 and will cost about \$85,000.

		A	Adopted 202	5		Projected R	equirements	5	
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art Design Land/Property Acquisition (ROW) Land/Property Improvements Construction Management Construction Vehicles/Moving Equipment Operating Equipment Environmental/Other Studies Other					155,000	180,000	85,000		420,000
Total					155,000	180,000	85,000		420,000

			A	Adopted 202	5		5			
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Revenue Generating Funds						155,000	180,000	85,000		420,000
Total						155,000	180,000	85,000		420,000

Project Title:Additional ProjectsStart Date:01/25End Date:12/29

Description:

This account provides for the cost of fire hydrants and other related materials, which are provided by the Utility in water line extensions and are then incorporated into the municipal water system. This account also provides a source of funds for repair or installing new valve boxes in City streets when Public Works' annual repaving projects occur. Asphalt paving costs and the associated work performed by the contractor have continued to increase during 2024. Although specific streets have not yet been selected for asphalt paving in 2025, there will be paving scheduled for next year. This project has been an ongoing initiative of the division to make incremental improvements in cooperation with Public Works Department projects and other community projects.

		Adopted 2025 Projected Requirements							
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art Design Land/Property Acquisition (ROW) Land/Property Improvements Construction Management Construction Vehicles/Moving Equipment Operating Equipment Environmental/Other Studies Other					50,000	50,000	50,000	50,000	200,000
Total					50,000	50,000	50,000	50,000	200,000

			A	Adopted 202	5		;			
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Revenue Generating Funds						50,000	50,000	50,000	50,000	200,000
Total						50,000	50,000	50,000	50,000	200,000

Project Title:Skyline Water Main ReplacementStart Date:01/25End Date:12/27

Description:

The 560-foot ductile-iron 8-inch water line serving Skyline Condominiums is an unusual proposition. It is not installed in a dedicated right-of-way but rather through a series of easements that begin by passing through the side yard of 1111 Jackson, then across Skyline Condominium's property, and finally connecting to Carlanna Lake Road. Installed in 1983, it too is continuing to fail due to electrolytic corrosion, most recently in August 2021, and is overdue for replacement with non-corrodible 10-inch HDPE polyethylene pipe. Designs for this, West Fairy Chasm, Hillside and Second Avenue would be issued as a combined design contract with a single firm. Should Municipal Assistance Funding ever become available again, this would be a prime project that is already designed and has received ADEC approval for maximum points.

			_ A	dopted 202	5	F	Projected Re	equirement	S	
		Prior	Reappro-	New						Total
Project Cost Category		Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art										
Design						70,000				70,000
Land/Property Acquisition (ROW)										
Land/Property Improvements										
Construction Management										
Construction							390,000			390,000
Vehicles/Moving Equipment										
Operating Equipment										
Environmental/Other Studies										
Other										
Total						70,000	390,000			460,000
			Δ.	dopted 202	5	F	Projected Re	quirement	s	
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Funds						70,000				70,000
Proposed 50% State Municipal Assistance Funding						70,000	195,000			195,000
Revenue Bonds - ADWF Loan							195,000			195,000
November 2011 - 10011							100,000			133,000
Total						70,000	390,000			460,000

Project Title:West Fairy Chasm Main ReplacementStart Date:01/25End Date:12/28

Description:

This 8-inch ductile iron main was installed in 1981. The portion replaced in 2007 failed in a different manner than usually occurs. Unlike electrolytic corrosion that usually creates fairly small pits along the bottom of the pipe where the soils are moist and most conductive; in this case, the entire surface of the pipe was badly pitted. There is a possibility that the ductile iron pipe was bedded using rock that contains quite a bit of iron pyrite (fools gold) which is actually iron disulfide. Pyrites reacting with oxygen and water will form *Thiobacillus* bacteria which generate their energy through oxidizing the iron with a side effect of producing sulfuric acid, which chemically corrodes the iron pipe. Subsequent repairs made in 2017 and 2022 near the Black Bear intersection have shown similar pitting and the ductile iron sewer mains are very likely in the same condition. If the Proposition to issue KPU Revenue Obligations in a principal amount of \$5-million is approved in the forthcoming October's General Election, funding will be available for its replacement. The entire 720 foot section should be replaced with non-corrodible HDPE plastic pipe. Should Municipal Assistance Funding ever become available again, this would be another prime project that is already designed along with Skyline, Second Avenue, and Hillside projects and would have received ADEC approval for maximum points.

		_ A	dopted 202	5	l	Projected R	equirements	i	
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art Design Land/Property Acquisition (ROW) Land/Property Improvements Construction Management Construction Vehicles/Moving Equipment Operating Equipment Environmental/Other Studies Other					87,000		593,000		87,000 593,000
Total					87,000		593,000		680,000

			<u> </u>	Adopted 202	25	Projected Requirements				
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Funds Proposed 50% State Municipal Assistance Funding Revenue Bonds - ADWF Loan						87,000		296,500 296,500		87,000 296,500 296,500
Total						87,000		593,000		680,000

Project Title:Hillside Road Water Main ReplacementStart Date:01/25End Date:12/28

Description:

Installed in 1973, this 50-year old ductile iron main water main has reached the end of its reliable service life and is overdue for replacement with non-corrodible 8-inch HDPE polyethylene pipe. In just this single 32-foot segment of its entire 847-foot length, numerous pitting failures were discovered this March that have been caused by severe electrolytic corrosion along the bottom of the pipe. Ductile iron pipe with a 6-inch diameter only has a wall thickness of 5/16-inch and some of the pits are already over 1/8-inch deep in this 50-year old pipe which indicates further failures are likely to occur in the near future. Overall, Hillside Road's water main is another example of the need to replace our old and failing infrastructure with corrosion-resistant HDPE plasic pipe before it reaches the failure point.

This project is a joint venture between KPU Water and Public Works who have hired R&M Engineering in 2024 to prepare the 65% design. A furher expenditure will be needed to create a bid-ready 95% design. Should Municipal Assistance Funding ever become available again, this would be another prime project that is already designed along with the Skyline, West Fairy Chasm, and Second Avenue projects and would have received ADEC approval for maximum points.

		Adopted 2025 Projected Requirements						3	
	Prior	Reappro-	New						Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art									
Design	19,440				60,000				79,440
Land/Property Acquisition (ROW)									
Land/Property Improvements									
Construction Management									
Construction							644,000		644,000
Vehicles/Moving Equipment									
Operating Equipment									
Environmental/Other Studies									
Other									
Total	19,440				60,000		644,000		723,440

			P	dopted 202	5	F				
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Revenue Generating Funds Proposed 50% State Municipal Assistance Funding Revenue Bonds - ADWF Loan		19,440				60,000		322,000 322,000		79,440 322,000 322,000
Total		19,440				60,000		644,000		723,440

Project Title: Ketchikan Lakes Road - between Deermount to 1234 Ktn. Lakes Start Date: 01/25 End Date: 12/25

Description:

Like Hillside Road, KPU is experiencing failures in Ketchikan Lakes Road's 12-inch ductile iron water main segment, particularly in the 220-foot segment between the Deermount and Lotus Streets intersection. There have been three adjacent failures within an 11-foot length in 2023 and this segment of the 41-year old ductile iron water main has reached the end of its reliable service life. Of the failed segment that was removed, the thinnest wall thickness along the cut edge was only 0.068-inch (a little more than 1/16th inch remains). The initial 600-foot portion of this ductile iron main was installed in 1983, 41 years ago, and is overdue for replacement.

Although Public Work's only has storm drains to replace in this segment, this project is another joint venture between KPU Water and Public Works who have hired R&M Engineering in 2024 to prepare the 95% design for its replacement with 600 feet of 16-inch HDPE pipe.

		Adopted 2025 Projected Requirements							
Project Cost Category	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Public Art Design Land/Property Acquisition (ROW) Land/Property Improvements Construction Management Construction Vehicles/Moving Equipment Operating Equipment Environmental/Other Studies Other	21,035		3		700,000				21,035
Total	21,035				700,000				721,035

			Δ	dopted 202	5	ı				
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Funds Revenue Bonds - ADWF Loan		21,035				700,000				721,035
Total		21,035				700,000				721,035

Project Title:Highlands Reservoir Property AcquisitionStart Date:01/25End Date:12/27

Description:

Ketchikan is located in Earthquake Seismic Zone 3 (major damage). The Highlands Reservoir provides modest fire protection for the surrounding residential area including the State Jail, the Library, and other commercial buildings on Copper Ridge Lane. Ketchikan's last remaining wood-stave reservoir built in 1982 will not survive a significant earthquake, nor can it be economically retrofitted with additional shear protection. **If damaged, there are no remaining sources of wood-stave repair parts to be found anywhere.** The individual wooden staves are only held together by friction, and when they collapse during a severe earthquake, they will suddenly release 300,000 gallons of water causing significant damage downstream. Although discussions began in 2015 to acquire the necessary adjacent property at the same elevation needed to construct a modern, much larger reservoir, the sale was never completed at the proposed price of \$270,000. Once purchased, site investigations should begin in 2025 before beginning the construction of a large, modern 650,000 gallon reservoir. The design and construction funding will take at least another 8-10 years before the project is complete, and construction would begin around 2028 with an expected cost of about \$5 - 8 million.

		Α	dopted 202	5		3			
	Prior	Reappro-	New						Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art									
Design									
Land/Property Acquisition (ROW)						400,000			400,000
Land/Property Improvements									
Construction Management									
Construction									
Vehicles/Moving Equipment									
Operating Equipment									
Environmental/Other Studies									
Other									
Total						400,000			400,000
				•					

			Adopted 2025			Projected Requirements				
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2026	2027	2028	2029	Total Project
Proposed 50% State Municipal Assistance Funding Revenue Bonds - ADWF Loan							200,000 200,000			200,000 200,000
Total							400,000			400,000

Project Title:Ketchikan Lakes Alternative Raw Water Supply PipingStart Date:01/25End Date:12/29

Description:

Currently, raw water from Ketchikan Lakes travels via tunnels and penstocks downhill to the existing hydro-electric power plant and water treatment plant. This project will construct new raw water supply piping along an alternative route separate from the existing system. This will allow for a long overdue inspection of the existing tunnel system (constructed in the 1920s), and much needed repair or replacement of the three existing 36" penstock gate valves without impacting the water supply for the city. The new water supply route would allow for improved raw water quality, increased hydro-electric production, and critical infrastructure redundancy. The existing tunnel system could still be utilized as a back-up water supply route as needed once inspected and repaired. After Statements of Qualifications were received from qualified professionals, the design work was awarded to Jacobs Engineering on September 19th. Negotiations for the cost of the design will begin including establishing if a lake tap rather than tapping into the penstocks is even financially feasible. If approved, design would begin in 2025, followed by procurement of construction funding via applying for an Alaska Drinking Water Fund loan and for Dam Safety Hydropower grants starting in 2026. Construction would begin in 2029. Until this design is completed, the estimated construction cost is unknown but the initial estimate is at least \$12-million.

		Α	dopted 202	5	Projected Requirements				
	Prior	Reappro-	New						Total
Project Cost Category	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art									
Design Land/Property Acquisition (ROW) Land/Property Improvements									
Construction Management Construction								12,000,000	12,000,000
Vehicles/Moving Equipment Operating Equipment Environmental/Other Studies									
Other									
Total								12,000,000	12,000,000

			Α	dopted 202	5		i II			
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Funds Revenue Bonds - ADWF Loan Proposed Dam Safety Hydropower Grant									6,000,000 6,000,000	6,000,000 6,000,000
Total									12,000,000	12,000,000

Division: Water 25

Thomas Street Water Main Replacement

Start Date: 01/25
End Date: 12/26

Description:

Total

The existing 450-feet of 6-inch ductile iron water main was installed in Thomas Street in 1988. Like the water mains under the Water Street and Tongass Avenue viaducts, it too is suspended underneath Thomas Street and has been submerged in salt water twice a day for 36 years and is now severly corroded. The mechanical fastenings are failing and the entire main and services need replacement with new 8-inch non-corrodable high density, polyethylene (HDPE) pipe.

			A	Adopted 202	5					
Project Cost Cotogowy		Prior	Reappro-	New	Total	2026	2027	2020	2020	Total
Project Cost Category		Years	priated	Funding	Total	2026	2027	2028	2029	Project
Public Art										
Design						70,000				70,000
Land/Property Acquisition (ROW)										
Land/Property Improvements										
Construction Management										
Construction							300,000			300,000
Vehicles/Moving Equipment										
Operating Equipment										
Environmental/Other Studies										
Other										
Total						70,000	300,000			370,000
			•			•			•	
				Adopted 202	5	I	Projected Re	equirement	s	
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	Total	2026	2027	2028	2029	Project
Revenue Generating Funds						70,000				70,000
Proposed 50% State Municipal Assistance Funding							150,000			150,000
Revenue Bonds - ADWF Loan							150,000			150,000

70,000

300,000

370,000