

Modesto Irrigation

District

2020 Detailed Budget

Revenue Summary

2020 Revenue Budget Division Summary

	2018 <u>Actual</u>	2019 <u>Budget</u>	2020 <u>Adopted Budget</u>	2021 <u>Proposed Budget</u>	% Change From Previous Budget
3XX002 PRJ - Electric Wholesale Rev	11,648,910	12,016,812	25,514,581	35,831,243	112.3%
3XX004 PRJ - EI Transmission Rev Retail	2,073,685	0	0	0	N/A
3XX901 PRJ - Electric Operating Revenue	325,212,140	330,762,941	333,599,476	324,193,661	0.9%
3XX902 PRJ - Environmental Energy Adjustment	16,593,395	18,511,541	18,683,306	18,728,852	0.9%
3XX904 PRJ - Capital Infrastructure Adjustment	6,838,710	7,025,336	7,104,188	7,025,336	1.1%
Electric Revenue	362,366,839	368,316,630	384,901,551	385,779,092	4.5%
3XX910 PRJ - Raw Water Operating Revenue	3,799,869	4,082,743	4,179,856	4,597,841	2.4%
3XX911 PRJ - FERC Instream Flow Revenue	1,522,771	1,661,333	1,701,359	1,741,386	2.4%
3XX912 PRJ - Domestic Water Revenue	21,763,807	19,897,855	20,119,371	19,330,826	1.1%
3XX913 PRJ - Storm Water Revenue	0	1,484,282	1,516,967	1,570,061	2.2%
Water Revenue	27,086,447	27,126,213	27,517,554	27,240,114	1.4%
3XX920 PRJ - Customer Services Fees Rev	1,527,354	1,400,000	1,400,000	1,400,000	0.0%
3XX921 PRJ - Don Pedro Rec Agency Revenue	776,841	338,119	332,764	332,764	-1.6%
3XX922 PRJ - DW Admin Fees Revenue	3,181,468	3,330,660	3,266,890	3,348,252	-1.9%
3XX923 PRJ - Facilities Charge	633,275	650,000	660,000	670,000	1.5%
3XX924 PRJ - Fiber Optic Revenue	172,800	172,800	172,800	172,800	0.0%
3XX926 PRJ - Gain or Loss on Sale of Assets	4,870	50,000	50,000	50,000	0.0%
3XX927 PRJ - Interest Income	6,323,007	5,200,000	5,500,000	5,800,000	5.8%
3XX928 PRJ - Late Penalties	1,748,622	2,700,000	2,750,000	2,775,000	1.9%
3XX929 PRJ - Misc. Cost Recovery	72,125	20,000	20,500	21,000	2.5%
3XX930 PRJ - Misc. Operating Income	489,704	600,000	610,000	620,000	1.7%
3XX931 PRJ - Other Entities Admin Fees Revenue	563,086	840,000	845,000	850,000	0.6%
3XX932 PRJ - Rental of District Property	855,292	1,000,000	1,000,000	1,000,000	0.0%
3XX933 PRJ - Retirement Fund Revenue	920,359	835,000	835,000	840,000	0.0%
3XX934 PRJ - Revenue-Aid to Construction	2,028,823	1,500,000	1,550,000	1,600,000	3.3%
3XX935 PRJ - Warehouse Sales	137,104	150,000	150,000	150,000	0.0%
3XX936 PRJ - WBO Income	2,390,261	1,375,000	1,375,000	1,375,000	0.0%
Rev - Other Revenues	21,824,990	20,161,579	20,517,954	21,004,816	1.8%
Alternate Revenue	<u>\$411,278,276</u>	<u>\$415,604,423</u>	<u>\$432,937,059</u>	<u>\$434,024,022</u>	4.2%

O&M Summary

2020 O&M Budget Division Summary District OM

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	From Previous Budget
3XX500 PRJ - Board of Directors	214,369	260,060	286,440	254,820	10.1%
3XX501 PRJ - Board Secretary Office	342,231	393,514	449,062	462,044	14.1%
3XX510 PRJ - Legal Counsel	2,595,063	2,214,309	1,745,000	1,745,000	-21.2%
3XX511 PRJ - Legal Claims	882,111	1,050,000	1,050,000	1,050,000	0.0%
3XX512 PRJ - MID Water Rights	16,842	250,000	250,000	250,000	0.0%
3XX513 PRJ - SED Litigation	40,950	1,000,000	0	0	-100.0%
OM - 10 OM - BOARD OF DIRECTORS DIVISION	4,091,567	5,167,884	3,780,502	3,761,864	-26.8%
3XX520 PRJ - General Manager	829,158	711,481	787,104	809,629	10.6%
3XX521 PRJ - Regulatory Administration	849,929	981,738	1,042,447	1,081,898	6.2%
3XX522 PRJ - District Seminar & Meetings	0	236,000	236,000	236,000	0.0%
3XX531 PRJ - Public Affairs	707,540	923,644	948,258	961,150	2.7%
3XX532 PRJ - Public Inform-Canal Safety	155,008	281,500	282,000	282,500	0.2%
3XX533 PRJ - Public Inform-Elect Safety	91,962	192,550	198,600	204,650	3.1%
3XX534 PRJ - Community Service	39,650	36,000	40,000	40,000	11.1%
OM - 20 OM - GENERAL MANAGER DIVISION	2,673,247	3,362,914	3,534,410	3,615,827	5.1%
3XX550 PRJ - Human Resources	772,841	821,734	863,742	888,556	5.1%
3XX552 PRJ - Training	349,495	453,979	477,344	491,250	5.1%
3XX560 PRJ - Recruitments	411,127	530,837	556,691	570,651	4.9%
3XX561 PRJ - Employee Programs	96,757	145,220	149,870	153,985	3.2%
3XX553 PRJ - Retirement Administration	389,773	433,200	455,180	468,572	5.1%
OM - 24 OM - HUMAN RESOURCES DIVISION	2,019,993	2,384,970	2,502,828	2,573,015	4.9%
3XX650 PRJ - IT Administration	5,220,392	6,533,724	7,058,852	7,379,058	8.0%
3XX655 PRJ - IT Systems Support	1,423,649	1,837,542	1,948,095	2,004,244	6.0%
3XX660 PRJ - IT Applications Business Support	1,515,764	1,652,113	1,544,275	1,588,784	-6.5%
3XX661 PRJ - IT Applications Operations Support	1,098,671	1,165,018	1,228,638	1,264,050	5.5%
3XX665 PRJ - Technical Operations	1,143,951	1,310,247	1,385,935	1,425,350	5.8%
3XX656 PRJ - Network/Desktop Support	486,722	564,204	575,211	591,790	2.0%

2020 O&M Budget Division Summary District OM

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	From Previous Budget
3XX667 PRJ - IT Security	474,873	852,639	903,078	929,107	5.9%
OM - 40 OM - INFORMATION TECHNOLOGY DIVISION	11,364,022	13,915,487	14,644,084	15,182,383	5.2%
3XX700 PRJ - Finance Admin	581,060	303,068	268,292	269,645	-11.5%
3XX710 PRJ - Treasurer	342,780	505,170	522,384	535,440	3.4%
3XX711 PRJ - Financing Related Expense	67,174	130,000	135,000	140,000	3.8%
3XX715 PRJ - Retirement Investment Expense	792,370	1,020,000	1,055,000	1,100,000	3.4%
3XX702 PRJ - Pricing/Risk Management	452,470	638,196	673,359	691,941	5.5%
3XX755 PRJ - Safety Admin	288,438	363,633	392,176	403,287	7.8%
3XX756 PRJ - Safety	416,201	630,306	733,757	678,770	16.4%
3XX720 PRJ - Controller	473,149	590,443	622,307	647,067	5.4%
3XX725 PRJ - Accounting	965,448	1,097,997	1,119,160	1,150,809	1.9%
3XX730 PRJ - Customer Services Admin	411,848	577,650	719,699	739,458	24.6%
3XX735 PRJ - Billing	2,011,922	2,672,832	2,464,505	2,500,534	-7.8%
3XX740 PRJ - Call Center	1,795,977	2,006,291	2,123,868	2,184,733	5.9%
3XX750 PRJ - Cash Accounting	1,778,043	1,889,463	2,143,511	2,181,827	13.4%
3XX775 PRJ - Risk & Property	950,979	1,012,131	1,059,489	1,090,113	4.7%
3XX777 PRJ - Environmental	343,839	492,495	532,414	549,238	8.1%
3XX780 PRJ - Building Services	1,679,193	2,067,654	2,147,753	2,214,895	3.9%
3XX785 PRJ - Purchasing	646,400	695,368	731,510	750,937	5.2%
3XX786 PRJ - Materials Handling	782,400	833,464	881,955	908,039	5.8%
3XX998 PRJ - Equipment Clearing	-1,452,222	-2,922,911	-3,089,942	-3,210,294	5.7%
3XX790 PRJ - Fleet Maintenance	700,718	739,062	774,612	797,502	4.8%
3XX791 PRJ - Vehicles & Equipment	1,736,543	2,183,849	2,315,329	2,412,791	6.0%
3XX760 PRJ - Energy Services	1,431,001	1,869,945	2,106,996	2,158,400	12.7%
3XX763 PRJ - Energy Management	1,731,813	3,629,077	3,525,202	3,543,985	-2.9%
3XX764 PRJ - Solar Photovoltaic PBI	2,430,808	2,100,000	1,000,000	500,000	-52.4%
OM - 50 OM - FINANCE DIVISION	21,358,353	25,125,183	24,958,336	24,939,117	-0.7%
3XX954 PRJ - Claims/Other Write Offs	386,068	601,100	611,100	621,100	1.7%

2020 O&M Budget Division Summary District OM

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	From Previous Budget
3XX958 PRJ - Don Pedro Rec Agency Expense	485,408	504,805	560,343	560,343	11.0%
3XX959 PRJ - Electric Retail Write Offs	1,112,926	2,300,000	2,300,000	2,300,000	0.0%
3XX960 PRJ - Insurance	1,576,680	1,933,426	1,962,446	2,274,571	1.5%
3XX966 PRJ - Permission and Municipal Fees	512,307	600,000	600,000	600,000	0.0%
3XX967 PRJ - Retiree Medical Expense	8,764,071	10,504,400	10,455,961	10,905,969	-0.5%
3XX975 PRJ - Basic Unfunded Liability Amort.	0	2,900,000	0	0	-100.0%
3XX968 PRJ - Warehouse Sales Cost	-9,851	5,000	5,000	5,000	0.0%
3XX969 PRJ - WBO Costs	1,899,282	1,375,000	1,375,000	1,375,000	0.0%
OM - 58 OM - OTHER EXPENSES DIVISION	14,726,891	20,723,731	17,869,850	18,641,983	-13.8%
3XX100 PRJ - Electric Resources Admin	1,514,473	933,717	3,363,787	2,419,200	260.3%
3XX110 PRJ - Electric Resources/Planning	2,553,674	3,884,181	3,958,720	3,852,515	1.9%
3XX130 PRJ - Operations Admin	1,156,189	1,651,283	1,638,834	1,666,015	-0.8%
3XX140 PRJ - Power Scheduling	2,901,095	3,582,291	3,786,777	3,401,842	5.7%
3XX135 PRJ - Control Center Dispatching	3,282,110	3,604,472	3,805,996	3,911,767	5.6%
OM - 60 OM - ELECTRIC RESOURCES DIVISION	11,407,541	13,655,944	16,554,114	15,251,338	21.2%
3XX200 PRJ - Transmission & Dist Admin	801,410	48,307	110,816	-277,666	129.4%
3XX210 PRJ - General Engineering	679,904	965,199	1,008,784	1,036,003	4.5%
3XX211 PRJ - Trans/Dist Planning	572,714	700,082	601,925	619,247	-14.0%
3XX212 PRJ - Trans/Dist Engineering	568,105	437,218	550,291	566,475	25.9%
3XX213 PRJ - Substation Engineering	806,686	650,975	576,977	593,544	-11.4%
3XX214 PRJ - Mapping/Records	468,271	746,862	818,001	841,347	9.5%
3XX220 PRJ - Trouble General Maintenance	2,054,427	2,264,040	2,324,458	2,390,416	2.7%
3XX221 PRJ - Turn-on/Turn-off	4,716	23,943	20,393	20,943	-14.8%
3XX222 PRJ - Street Lighting	74,783	96,319	86,369	88,853	-10.3%
3XX223 PRJ - Vegetation Management	2,000,739	2,490,940	2,314,167	2,637,911	-7.1%
3XX224 PRJ - Trouble Administration	415,295	471,622	487,951	496,802	3.5%
3XX225 PRJ - Inspections	383,231	544,826	539,350	555,077	-1.0%
3XX280 PRJ - Line Construction Admin	1,131,544	1,458,559	1,524,623	1,566,349	4.5%

2020 O&M Budget Division Summary District OM

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	From Previous Budget
3XX281 PRJ - LC Overhead Transmission	126,974	181,424	204,769	209,646	12.9%
3XX282 PRJ - LC Overhead Distrib Maint	1,169,225	1,234,133	1,236,213	1,268,989	0.2%
3XX283 PRJ - Line Construction General	934,139	1,288,039	1,319,399	1,331,115	2.4%
3XX284 PRJ - LC Underground Distribution	1,084,279	1,190,258	1,235,229	1,268,720	3.8%
3XX285 PRJ - Insulating Equipment	33,483	27,000	33,500	33,600	24.1%
3XX250 PRJ - Substation	836,566	1,019,583	1,006,921	1,028,600	-1.2%
3XX251 PRJ - Transmission Substation	1,719,881	2,023,514	2,175,293	2,464,916	7.5%
3XX252 PRJ - Distribution Substation	3,113,850	3,097,215	3,173,309	3,684,303	2.5%
3XX253 PRJ - Maintenance of Relays	753,492	977,004	944,590	1,099,500	-3.3%
3XX254 PRJ - Westley Station	100,438	0	130,992	133,973	N/A
3XX255 PRJ - Westley Station CIP	12,936	0	0	0	N/A
3XX260 PRJ - Meter Transformer	300,778	501,279	535,626	550,979	6.9%
3XX261 PRJ - Meter Maintenance	1,604,767	1,748,711	2,106,564	2,166,944	20.5%
3XX262 PRJ - Transformer Maintenance	203,621	266,668	261,998	269,192	-1.8%
3XX264 PRJ - LM Receiver Maintenance	7,235	51,745	20,639	21,216	-60.1%
OM - 70 OM - ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION	21,963,488	24,505,463	25,349,149	26,666,993	3.4%
3XX400 PRJ - Water Operations Admin	309,223	309,913	293,811	302,360	-5.2%
3XX401 PRJ - Water Rights	460,413	756,090	650,000	669,500	-14.0%
3XX403 PRJ - Irrigation System Improvements	184,987	550,000	566,500	583,495	3.0%
3XX420 PRJ - LaGrange Water System	85,014	150,000	500,000	515,000	233.3%
3XX410 PRJ - Civil Engineering	838,657	977,664	1,072,675	1,103,605	9.7%
3XX411 PRJ - Surveying	369,034	525,388	530,672	545,965	1.0%
3XX412 PRJ - Conservation Improvements	113,460	150,028	176,492	181,755	17.6%
3XX413 PRJ - Water Measurement	30,284	126,215	39,271	40,405	-68.9%
3XX421 PRJ - Water Data & Analysis	109,784	205,684	280,804	308,197	36.5%
3XX422 PRJ - Ground Water Management	33,148	127,003	192,088	197,747	51.2%
3XX423 PRJ - Don Pedro Watershed	426,140	494,025	444,442	457,490	-10.0%

2020 O&M Budget Division Summary District OM

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	From Previous Budget
3XX430 PRJ - Irrigation Admin	456,761	496,707	527,315	542,510	6.2%
3XX440 PRJ - Irrigation Services	2,084,990	1,992,002	2,075,248	2,134,672	4.2%
3XX441 PRJ - La Grange	54,762	62,230	70,480	72,548	13.3%
3XX442 PRJ - Upper Main Canal	209,764	237,988	246,134	253,150	3.4%
3XX443 PRJ - Modesto Reservoir	175,115	204,862	208,136	214,110	1.6%
3XX444 PRJ - Pumps	634,395	698,332	726,854	748,295	4.1%
3XX450 PRJ - Laterals and Ditches	2,199,466	2,653,374	2,790,734	2,871,477	5.2%
3XX451 PRJ - Gunite	696,508	1,031,860	1,005,710	1,035,150	-2.5%
3XX452 PRJ - Irrigation Pipelines	168,454	167,389	213,239	219,455	27.4%
3XX453 PRJ - Structures	50,311	126,342	85,212	87,692	-32.6%
3XX454 PRJ - Weed & Moss Control	1,010,916	1,167,487	1,190,388	1,225,536	2.0%
3XX455 PRJ - Landscaping	161,264	253,358	270,289	278,133	6.7%
OM - 80 OM - WATER OPERATIONS DIVISION	10,862,851	13,463,939	14,156,491	14,588,248	5.1%
3XX470 PRJ - Domestic Water Admin	623,304	860,782	795,560	819,073	-7.6%
3XX471 PRJ - Domestic Water A&G	3,183,718	3,330,660	3,266,890	3,348,252	-1.9%
3XX472 PRJ - Domestic Water Operations	3,690,788	4,423,587	4,377,825	4,506,914	-1.0%
3XX473 PRJ - Domestic Water Laboratory	437,567	498,165	516,345	531,365	3.6%
3XX474 PRJ - Domestic Water Maintenance	3,147,450	3,392,128	3,275,902	3,269,828	-3.4%
OM - 81 OM - DOMESTIC WATER DIVISION	11,082,827	12,505,322	12,232,522	12,475,431	-2.2%
District OM	<u>\$111,550,781</u>	<u>\$134,810,838</u>	<u>\$135,582,286</u>	<u>\$137,696,200</u>	0.6%

Power Supply Summary

2020 O&M Budget Division Summary Power Supply

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	From Previous Budget
3XX150 PRJ - Purchase Power	152,145,037	153,212,913	169,215,291	182,360,616	10.4%
3XX151 PRJ - Purchase Power-Hedging	476,598	0	0	0	N/A
3XX160 PRJ - Generation Admin	679,919	786,075	828,428	850,328	5.4%
3XX165 PRJ - Don Pedro Generation O&M	1,174,134	1,150,000	1,150,000	1,150,000	0.0%
3XX170 PRJ - New Hogan O&M	61,143	91,359	119,129	90,912	30.4%
3XX171 PRJ - Stone Drop O&M	30,602	37,259	45,944	39,065	23.3%
3XX175 PRJ - McClure O&M	1,993,311	2,122,659	1,121,890	1,095,672	-47.1%
3XX180 PRJ - Woodland Operations	4,229,760	4,525,677	4,469,400	4,433,503	-1.2%
3XX182 PRJ - Woodland Maintenance	3,879,311	5,831,146	6,117,006	10,050,081	4.9%
3XX185 PRJ - Ripon O&M	1,519,546	1,829,879	1,896,852	1,987,909	3.7%
3XX176 PRJ - McClure Fuel Expense	470,503	1,031,652	927,160	968,812	-10.1%
3XX181 PRJ - Woodland Fuel Expense	17,773,556	18,365,989	19,547,106	21,859,925	6.4%
3XX186 PRJ - Ripon Fuel Expense	1,217,614	1,186,313	1,635,194	1,841,627	37.8%
Power Supply	<u>\$185,651,032</u>	<u>\$190,170,921</u>	<u>\$207,073,401</u>	<u>\$226,728,451</u>	8.9%

Capital Summary

2020 Capital Budget Division Summary District Capital

Project	2020 Adopted Budget
7XX101 PRJ - Server Hardware/Software	370,000
7XX102 PRJ - Network Hardware/Software	270,000
7XX103 PRJ - Printers/Scanners/Projector	70,000
7XX119 PRJ - Comm Equip Upgrade	190,500
7XX138 PRJ - IT Security Infrastructure	243,000
720201 PRJ - Cyber Security Compliance Automation	125,000
720202 PRJ - Main Office Cell Signal Boosters	19,400
CAP - 40 CAP - INFORMATION TECHNOLOGY DIVISION	1,287,900
720203 PRJ - Main Office Asphalt	290,000
720204 PRJ - Warehouse Roof Restoration	132,250
720205 PRJ - Cool Roof Coat	37,000
720206 PRJ - Seal MPR Exterior Deck	32,000
720207 PRJ - Woodland Service Center Storm Drainage Improvements	128,000
720208 PRJ - Replace Vehicle 028	150,000
720209 PRJ - Replace Vehicle 033	54,000
720214 PRJ - Replace Vehicle 140	145,000
720216 PRJ - Replace Vehicle 224	36,000
720217 PRJ - Replace Vehicle 267	40,000
720218 PRJ - Replace Vehicle 294	65,000
720219 PRJ - Replace Vehicle 369	45,000
720221 PRJ - Replace Vehicle 493	38,000
720222 PRJ - Replace Vehicle 631	500,000
720211 PRJ - Replace Vehicle 053	315,000
720212 PRJ - Replace Vehicle 060	34,000
720213 PRJ - Replace Vehicle 127	100,000
720220 PRJ - Replace Unit 414	180,000
720215 PRJ - Replace Unit 198	10,000

2020 Capital Budget Division Summary District Capital

Project	2020 Adopted Budget
720210 PRJ - Truck for SS Dept 041	38,000
720223 PRJ - Power Meter	5,660
CAP - 50 CAP - FINANCE DIVISION	2,374,910
714331 PRJ - DP Generation Upgrade	678,000
714332 PRJ - DP Project Upgrade	3,922,000
720224 PRJ - DP Tug Boat Re-Power	14,200
720225 PRJ - DP Security Fencing	31,600
720226 PRJ - DP Building Physical Security	3,800
720227 PRJ - DP Camera Upgrades	5,000
720228 PRJ - DP Housing AC Replacement	13,000
720229 PRJ - DP Cavitation Repair	237,000
720230 PRJ - DP Survey Prisms	7,100
720231 PRJ - Ripon Chip Detectors	86,444
720232 PRJ - McClure Operation Cameras	59,506
720233 PRJ - Woodland Facilities Update	426,699
CAP - 60 CAP - ELECTRIC RESOURCES DIVISION	5,484,349
666001 PRJ - RC-Overhead Services	522,639
666002 PRJ - RC-Underground Services	314,810
666003 PRJ - RC-Overhead Pvt Lighting (9000 Lumen)	42,743
666005 PRJ - RC-Transm-Towers/Poles/Fixtures/Cond/Devices	7,756
666006 PRJ - RC-Dist-Towers/Poles/Fixtures/Cond/Devices	1,084,829
666007 PRJ - RC-Underground Conduits/Conductors/Devices	1,148,479
666008 PRJ - RC-Overhead Transformers	838,792
666009 PRJ - RC-Underground Transformers	1,708,912
7XX106 PRJ - Mountain House Development	1,552,795
7XX107 PRJ - Mountain House Substructure	1,402,924
7XX108 PRJ - Pole Relocations	817,884
7XX109 PRJ - Conduit Installations	1,179,100

2020 Capital Budget Division Summary District Capital

Project	2020 Adopted Budget
7XX111 PRJ - Pole Replace/Restorations	379,696
7XX113 PRJ - Contaminated Transf. Repl.	146,199
7XX123 PRJ - Primary System Improvements	144,321
7XX130 PRJ - OH #6 Copper Replacements	1,036,675
7XX132 PRJ - UG Cable Installation	381,387
7XX139 PRJ - Cap Bank Refurbishments	334,690
719949 PRJ - 230kV Pole Painting-Joint Section	1,000,000
720234 PRJ - Mariposa B48 OH Line Extension	54,239
7XX124 PRJ - Substation Improvements	333,897
720235 PRJ - East Side 115kV Line Diff Relays	174,073
719956 PRJ - Claus Synch Scopes and Synch Check Relays	179,848
719963 PRJ - Remote Access to Substation Relays RTUs LTCs	348,861
720236 PRJ - Paradise B54 12kV OCBreaker Repl	118,023
7XX143 PRJ - Ground Grid Improvements	709,732
7XX144 PRJ - Battery Replacements	215,562
720239 PRJ - Beard Tract Substation-SUB	5,547,469
720240 PRJ - Claus Breaker Failure Relays	261,096
720241 PRJ - Clough Breaker Failure Relays	149,277
720242 PRJ - Hershey Breaker Failure Relays	152,475
720243 PRJ - Stockton Breaker Failure Relays	211,019
720244 PRJ - Transformer Diff Relay Repl-Construction	209,303
720245 PRJ - Industrial Substation-Beard Land Acq	1,000,000
666012 PRJ - RC-Revenue Meter Equip	797,133
CAP - 70 CAP - ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION	24,506,640
7XX114 PRJ - Don Pedro Recreation Agency	229,592
7XX125 PRJ - Waterford Lower Main Lining	72,060
7XX126 PRJ - SCADA Automation	150,000
7XX115 PRJ - District Pipeline Repl	449,183

2020 Capital Budget Division Summary District Capital

Project	2020 Adopted Budget
7XX116 PRJ - Pump Modernization	546,289
7XX118 PRJ - Overpour Weirs	224,883
7XX137 PRJ - Measuring Gate Calibration	61,299
CAP - 80 CAP - WATER OPERATIONS DIVISION	1,733,307
720246 PRJ - Lab - Spectrophotometer	25,000
720247 PRJ - PSP Replacement	90,000
720248 PRJ - Filter Effluent Valve Actuators	25,000
720249 PRJ - Membrane Valve Actuators	125,000
720250 PRJ - Switchgear Upgrade	400,000
720251 PRJ - MEM Blower	300,000
CAP - 81 CAP - DOMESTIC WATER DIVISION	965,000
District Capital	<u><u>\$36,352,106</u></u>

Board of Directors

O&M

2020 O&M Budget Division Summary

OM - BOARD OF DIRECTORS DIVISION

	2018 <u>Actual</u>	2019 <u>Budget</u>	2020 Adopted <u>Budget</u>	2021 Proposed <u>Budget</u>	% Change Prev. Budget to Current Budget
3XX500 PRJ - Board of Directors	214,369	260,060	286,440	254,820	10.1%
OM - 1010 OM - Directors	214,369	260,060	286,440	254,820	10.1%
3XX501 PRJ - Board Secretary Office	342,231	393,514	449,062	462,044	14.1%
OM - 1020 OM - Secretary's Office	342,231	393,514	449,062	462,044	14.1%
3XX510 PRJ - Legal Counsel	2,595,063	2,214,309	1,745,000	1,745,000	-21.2%
3XX511 PRJ - Legal Claims	882,111	1,050,000	1,050,000	1,050,000	0.0%
3XX512 PRJ - MID Water Rights	16,842	250,000	250,000	250,000	0.0%
3XX513 PRJ - SED Litigation	40,950	1,000,000	0	0	-100.0%
OM - 1030 OM - General Counsel	3,534,966	4,514,309	3,045,000	3,045,000	-32.5%
OM - 10 OM - BOARD OF DIRECTORS DIVISION	<u>\$4,091,567</u>	<u>\$5,167,884</u>	<u>\$3,780,502</u>	<u>\$3,761,864</u>	-26.8%

2020 O&M Budget Project Detail

Division: BOARD OF DIRECTORS DIVISION
Project Number: 3XX500

Department: 1010 Directors
Project Title: PRJ - Board of Directors

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	118,200	102,060	104,940	104,820	3%
Materials & Supplies	1,838	3,000	3,000	3,000	0%
Outside Services	32,593	67,500	100,000	67,500	48%
Seminars & Meetings	51,439	77,000	78,000	79,000	1%
Administrative & General	10,299	10,500	500	500	-95%
MID Equipment	0	0	0	0	0%
Totals	214,369	260,060	286,440	254,820	10%

Notes: Outside Services: Election costs every other year, next election in 2020; service awards.

2020 O&M Budget Project Detail

Division: BOARD OF DIRECTORS DIVISION
Project Number: 3XX501

Department: 1020 Secretary's Office
Project Title: PRJ - Board Secretary Office

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	337,659	442,634	462,588	475,864	5%
Labor Vacancy	0	-51,420	-17,026	-17,421	-67%
Materials & Supplies	1,691	900	1,700	1,700	89%
Outside Services	182	0	0	0	0%
Seminars & Meetings	1,878	900	950	1,000	6%
Administrative & General	821	500	850	900	70%
MID Equipment	0	0	0	0	0%
Totals	342,231	393,514	449,062	462,043	14%

2020 O&M Budget Project Detail

Division: BOARD OF DIRECTORS DIVISION
Project Number: 3XX510

Department: 1030 General Counsel Dept.
Project Title: PRJ - Legal Counsel

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	956,801	1,169,309	0	0	-100%
Materials & Supplies	3,805	5,000	5,000	5,000	0%
Outside Services	1,594,107	1,000,000	1,700,000	1,700,000	70%
Seminars & Meetings	25,798	5,000	5,000	5,000	0%
Administrative & General	14,230	32,000	32,000	32,000	0%
MID Equipment	323	3,000	3,000	3,000	0%
Totals	2,595,064	2,214,309	1,745,000	1,745,000	-21%

Project Description: Project consists of labor for the Legal Department.

Notes: A&G: Legal publications & subscriptions. Outside Services: reflects addition of SED budget.

2020 O&M Budget Project Detail

Division: BOARD OF DIRECTORS DIVISION
Project Number: 3XX511

Department: 1030 General Counsel Dept.
Project Title: PRJ - Legal Claims

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	0	0	0	0	0%
Materials & Supplies	34	0	0	0	0%
Outside Services	862,889	750,000	750,000	750,000	0%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	19,188	300,000	300,000	300,000	0%
MID Equipment	0	0	0	0	0%
Totals	882,111	1,050,000	1,050,000	1,050,000	0%

2020 O&M Budget Project Detail

Division: BOARD OF DIRECTORS DIVISION
Project Number: 3XX512

Department: 1030 General Counsel Dept.
Project Title: PRJ - MID Water Rights

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	0	0	0	0	0%
Materials & Supplies	0	0	0	0	0%
Outside Services	0	250,000	250,000	250,000	0%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	16,842	0	0	0	0%
MID Equipment	0	0	0	0	0%
Totals	16,842	250,000	250,000	250,000	0%

Project Description: This account is used to budget funds for periodic Water Rights expenditures.

General Manager

O&M

2020 O&M Budget Division Summary

OM - GENERAL MANAGER DIVISION

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Prev. Budget to Current Budget
3XX520 PRJ - General Manager	829,158	711,481	787,104	809,629	10.6%
3XX521 PRJ - Regulatory Administration	849,929	981,738	1,042,447	1,081,898	6.2%
3XX522 PRJ - District Seminar & Meetings	0	236,000	236,000	236,000	0.0%
3XX531 PRJ - Public Affairs	707,540	923,644	948,258	961,150	2.7%
3XX532 PRJ - Public Inform-Canal Safety	155,008	281,500	282,000	282,500	0.2%
3XX533 PRJ - Public Inform-Elect Safety	91,962	192,550	198,600	204,650	3.1%
3XX534 PRJ - Community Service	39,650	36,000	40,000	40,000	11.1%
OM - 2010 OM - General Manager	2,673,247	3,362,914	3,534,410	3,615,827	5.1%
OM - 20 OM - GENERAL MANAGER DIVISION	\$2,673,247	\$3,362,914	\$3,534,410	\$3,615,827	5.1%

2020 O&M Budget Project Detail

Division: GENERAL MANAGER DIVISION
Project Number: 3XX520

Department: 2010-D General Manager Department
Project Title: PRJ - General Manager

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	770,726	787,037	833,180	857,148	6%
Labor Vacancy	0	-84,306	-51,875	-53,368	-38%
Materials & Supplies	961	1,750	1,750	1,750	0%
Outside Services	42,491	0	0	0	0%
Seminars & Meetings	8,871	1,500	1,550	1,600	3%
Administrative & General	3,785	3,000	0	0	-100%
MID Equipment	2,324	2,500	2,500	2,500	0%
Totals	829,158	711,481	787,105	809,630	11%

Project Description: Project consists of labor for the General Manager Department.

Notes: Seminars & Meetings: MSR; TANC same day travel expenses.

2020 O&M Budget Project Detail

Division: GENERAL MANAGER DIVISION
Project Number: 3XX521

Department: 2010-D General Manager Department
Project Title: PRJ - Regulatory Administration

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	271,363	417,797	459,141	472,346	10%
Materials & Supplies	80	1,000	1,000	1,000	0%
Outside Services	253,131	247,000	255,000	270,000	3%
Seminars & Meetings	44,968	5,000	5,000	5,000	0%
Administrative & General	279,582	310,441	321,306	332,552	3%
MID Equipment	804	500	1,000	1,000	100%
Totals	849,928	981,738	1,042,447	1,081,898	6%

Notes: Outside Services includes lobbyists, for both federal and state, on both energy and water bills. A&G includes association fees, i.e. APPA, ACWA and CMUA. Increased MID Equipment to better match actuals.

2020 O&M Budget Project Detail

Division: GENERAL MANAGER DIVISION
Project Number: 3XX522

Department: 2010-D General Manager Department
Project Title: PRJ - District Seminar & Meetings

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	0	0	0	0	0%
Materials & Supplies	0	0	0	0	0%
Outside Services	0	0	0	0	0%
Seminars & Meetings	0	236,000	236,000	236,000	0%
Administrative & General	0	0	0	0	0%
MID Equipment	0	0	0	0	0%
Totals	0	236,000	236,000	236,000	0%

Notes: Seminar & Meetings for entire District is budgeted under this account.

2020 O&M Budget Project Detail

Division: GENERAL MANAGER DIVISION
Project Number: 3XX531

Department: 2010-D General Manager Department
Project Title: PRJ - Public Affairs

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	408,381	412,444	436,858	449,450	6%
Materials & Supplies	20,035	46,300	46,300	46,400	0%
Outside Services	33,474	140,000	140,000	140,000	0%
Seminars & Meetings	9,440	2,000	2,200	2,400	10%
Administrative & General	236,210	322,900	322,900	322,900	0%
MID Equipment	0	0	0	0	0%
Totals	707,540	923,644	948,258	961,150	3%

Project Description: Public Affairs conducts media relations, crisis communications, educational outreach, and employee communications to support the MID mission & business plan.

Notes: Communications activities support mandates including demand reduction programs. A&G: energy efficiency productions.

Applicable Policy: Includes Public Benefit Policy, Community Service Donation Policy, Renewable Portfolio Standard, and MOU Stanislaus County Office of Emergency Services.

2020 O&M Budget Project Detail

Division: GENERAL MANAGER DIVISION
Project Number: 3XX532

Department: 2010-D General Manager Department
Project Title: PRJ - Public Inform-Canal Safety

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	0	0	0	0	0%
Materials & Supplies	0	16,500	17,000	17,500	3%
Outside Services	39,867	115,000	115,000	115,000	0%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	115,141	150,000	150,000	150,000	0%
MID Equipment	0	0	0	0	0%
Totals	155,008	281,500	282,000	282,500	0%

Project Description: Educational outreach targeting adults and children. Includes paid media, elementary schools outreach, Tuolumne River Trust Trekking the Tuolumne schools' program partnership and other activities.

Notes: Supports MID liability management activities. Conforms to AEGIS recommendations about utility best practices.

Applicable Policy: MID liability management activities.

2020 O&M Budget Project Detail

Division: GENERAL MANAGER DIVISION
Project Number: 3XX533

Department: 2010-D General Manager Department
Project Title: PRJ - Public Inform-Elect Safety

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	0	0	0	0	0%
Materials & Supplies	0	550	600	650	9%
Outside Services	1,350	42,000	43,000	44,000	2%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	90,612	150,000	155,000	160,000	3%
MID Equipment	0	0	0	0	0%
Totals	91,962	192,550	198,600	204,650	3%

Project Description: Educational outreach program targeting adults and children. Includes paid media and other activities.

Notes: Supports MID liability management activities. Conforms to AEGIS recommendations about utility best practices. Outside Services: update of creative materials occurs every other year.

Applicable Policy: MID liability management activities.

2020 O&M Budget Project Detail

Division: GENERAL MANAGER DIVISION
Project Number: 3XX534

Department: 2010-D General Manager Department
Project Title: PRJ - Community Service

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	0	0	0	0	0%
Materials & Supplies	0	0	0	0	0%
Outside Services	0	0	0	0	0%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	39,650	36,000	40,000	40,000	11%
MID Equipment	0	0	0	0	0%
Totals	39,650	36,000	40,000	40,000	11%

Project Description: Support for local non-profit, non-political organizations operating within MID's electric service area and benefiting MID customers.

Notes: Extends educational outreach and assists with meeting advertising, energy efficiency and public benefit goals.

Applicable Policy: Community Service Policy - MID Board Resolution No. 2002-172.

Human Resources

O&M

2020 O&M Budget Division Summary

OM - HUMAN RESOURCES DIVISION

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Prev. Budget to Current Budget
3XX550 PRJ - Human Resources	772,841	821,734	863,742	888,556	5.1%
3XX552 PRJ - Training	349,495	453,979	477,344	491,250	5.1%
3XX560 PRJ - Recruitments	411,127	530,837	556,691	570,651	4.9%
3XX561 PRJ - Employee Programs	96,757	145,220	149,870	153,985	3.2%
3XX553 PRJ - Retirement Administration	389,773	433,200	455,180	468,572	5.1%
OM - 2410 OM - Human Resources	2,019,993	2,384,970	2,502,828	2,573,015	4.9%
OM - 24 OM - HUMAN RESOURCES DIVISION	\$2,019,993	\$2,384,970	\$2,502,828	\$2,573,015	4.9%

2020 O&M Budget Project Detail

Division: HUMAN RESOURCES DIVISION
Project Number: 3XX550

Department: 2410 Human Resources
Project Title: PRJ - Human Resources

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	717,894	766,139	811,194	834,538	6%
Labor Vacancy	0	-48,725	-51,591	-53,077	6%
Materials & Supplies	5,255	6,300	6,420	6,475	2%
Outside Services	26,226	42,520	43,020	44,320	1%
Seminars & Meetings	4,207	2,200	2,200	2,250	0%
Administrative & General	19,259	53,300	52,500	54,050	-2%
MID Equipment	0	0	0	0	0%
Totals	772,841	821,734	863,743	888,556	5%

Project Description: Administers employee/labor relations programs and health benefit programs in accordance with District policy and applicable regulations.

Notes: Materials: office supplies; Outside Services: flex spending admin fees; Seminars & Meetings: meeting supplies; A&G: business and legal publications; employee physicals (Class A; respiratory; hearing); security background checks.

Applicable Policy: Memorandum of Understanding; MID Employee Handbook; Meyers-Milias-Brown Act; Public Employment Relations Board; Equal Employment Opportunity Commission; Americans with Disabilities Act; Department of Fair Employment and Housing; Family and Medical Leave Act/California Family Rights Act; Fair Labor Standards Act; Consolidated Omnibus Budget Reconciliation Act; Health Insurance Portability and Accountability Act; Patient Protection and Affordable Care Act; Internal Revenue Code; Department of Transportation.

2020 O&M Budget Project Detail

Division: HUMAN RESOURCES DIVISION
Project Number: 3XX552

Department: 2410 Human Resources
Project Title: PRJ - Training

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	241,100	336,419	356,244	366,510	6%
Materials & Supplies	1,838	7,580	2,470	2,490	-67%
Outside Services	100,450	104,550	107,690	110,930	3%
Seminars & Meetings	5,146	3,400	8,860	9,190	161%
Administrative & General	962	2,030	2,080	2,130	2%
MID Equipment	0	0	0	0	0%
Totals	349,496	453,979	477,344	491,250	5%

Project Description: Develops and implements District-wide mandated and voluntary professional development and training program in support of District objectives; supports the MID Wellness Program.

Notes: Materials & Supplies: training manuals; Outside Services: training consultant services to support leadership and general training; Seminars & Mtgs: onsite training supplies; trainer certifications; A&G: training publications; reallocated funds from cost type 200 to 500 for accounting purposes.

Applicable Policy: Training supports the MID Core Values & Mission & Vision statements with particular emphasis on quality, innovation, leadership and continuous improvement.

2020 O&M Budget Project Detail

Division: HUMAN RESOURCES DIVISION
Project Number: 3XX560

Department: 2410 Human Resources
Project Title: PRJ - Recruitments

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	313,653	366,321	387,871	399,041	6%
Materials & Supplies	6,831	3,146	3,280	3,360	4%
Outside Services	30,219	80,000	82,500	85,000	3%
Seminars & Meetings	323	8,240	8,440	8,650	2%
Administrative & General	60,101	73,130	74,600	74,600	2%
MID Equipment	0	0	0	0	0%
Totals	411,127	530,837	556,691	570,651	5%

Project Description: Administers recruitment and selection program in accordance with District policy and applicable regulations.

Notes: Materials & Supplies: new hire packets; Outside Services: background checks; relocation fees; consultant recruitment services to fill key positions; Seminars & Meetings: travel expenses for external candidates; A&G: advertising; new hire physicals.

Applicable Policy: Memorandum of Understanding; Employee Handbook; Equal Employment Opportunity Commission; Americans with Disabilities Act, Department of Fair Employment and Housing.

2020 O&M Budget Project Detail

Division: HUMAN RESOURCES DIVISION
Project Number: 3XX561

Department: 2410 Human Resources
Project Title: PRJ - Employee Programs

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	0	0	0	0	0%
Materials & Supplies	22,645	34,012	28,970	30,025	-15%
Outside Services	3,928	17,858	19,700	21,000	10%
Seminars & Meetings	4,824	530	6,550	6,560	1,136%
Administrative & General	65,360	92,820	94,650	96,400	2%
MID Equipment	0	0	0	0	0%
Totals	96,757	145,220	149,870	153,985	3%

Project Description: Administers employee educational and professional development reimbursement program; wellness program; service awards; employee team leagues.

Notes: Materials & Supplies: service awards; team supplies; Outside Services: employee assistance program; A&G: employee licenses and certificates; employee recognition awards; wellness program incentives; reallocated funds from cost type 200 to 500 for accounting purposes.

Applicable Policy: Memorandum of Understanding; Employee Handbook: Employee Programs supports the MID Core Values & Mission & Vision statements with particular emphasis on teamwork, innovation and continuous improvement.

2020 O&M Budget Project Detail

Division: HUMAN RESOURCES DIVISION
Project Number: 3XX553

Department: 2410 Human Resources
Project Title: PRJ - Retirement Administration

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	156,291	155,287	164,406	169,136	6%
Materials & Supplies	27	137	144	151	5%
Outside Services	233,187	274,320	287,040	295,550	5%
Seminars & Meetings	268	2,325	2,450	2,575	5%
Administrative & General	0	1,131	1,140	1,160	1%
MID Equipment	0	0	0	0	0%
Totals	389,773	433,200	455,180	468,572	5%

Project Description: Administers MID's defined benefit plan, defined contribution plans, and retiree medical plan; facilitates accordance with MID's pension plans and applicable regulations.

Notes: Outside Services: actuarial services; third party administration fees; Seminars & Meetings: consultant reimbursable expenses; A&G: death certificates; practitioner manuals and periodicals.

Applicable Policy: MID Retirement Plan Documents; Memorandum of Understanding; MID Employee Handbook; California Government Code; Internal Revenue Code.

Information Technology O&M

2020 O&M Budget Division Summary

OM - INFORMATION TECHNOLOGY DIVISION

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Prev. Budget to Current Budget
3XX650 PRJ - IT Administration	5,220,392	6,533,724	7,058,852	7,379,058	8.0%
OM - 4010 OM - Information Technology	5,220,392	6,533,724	7,058,852	7,379,058	8.0%
3XX655 PRJ - IT Systems Support	1,423,649	1,837,542	1,948,095	2,004,244	6.0%
OM - 4020 OM - I.T. Systems Support	1,423,649	1,837,542	1,948,095	2,004,244	6.0%
3XX660 PRJ - IT Applications Business Support	1,515,764	1,652,113	1,544,275	1,588,784	-6.5%
OM - 4030 OM - I.T. Applications Business Support	1,515,764	1,652,113	1,544,275	1,588,784	-6.5%
3XX661 PRJ - IT Applications Operations Support	1,098,671	1,165,018	1,228,638	1,264,050	5.5%
OM - 4035 OM - I.T. Applications Operations Support	1,098,671	1,165,018	1,228,638	1,264,050	5.5%
3XX665 PRJ - Technical Operations	1,143,951	1,310,247	1,385,935	1,425,350	5.8%
OM - 4040 OM - I.T. Technical Operations	1,143,951	1,310,247	1,385,935	1,425,350	5.8%
3XX656 PRJ - Network/Desktop Support	486,722	564,204	575,211	591,790	2.0%
OM - 4060 OM - Desktop Support	486,722	564,204	575,211	591,790	2.0%
3XX667 PRJ - IT Security	474,873	852,639	903,078	929,107	5.9%
OM - 4070 OM - Information Security	474,873	852,639	903,078	929,107	5.9%
OM - 40 OM - INFORMATION TECHNOLOGY DIVISION	<u><u>\$11,364,022</u></u>	<u><u>\$13,915,487</u></u>	<u><u>\$14,644,084</u></u>	<u><u>\$15,182,383</u></u>	5.2%

2020 O&M Budget Project Detail

Division: INFORMATION TECHNOLOGY DIVISION
Project Number: 3XX650

Department: 4010 Information Technology
Project Title: PRJ - IT Administration

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	694,061	865,048	1,005,132	1,034,061	16%
Labor Vacancy	0	-247,404	-257,711	-265,122	4%
Materials & Supplies	306,825	525,080	525,238	539,326	0%
Outside Services	1,064,101	641,900	638,700	667,700	0%
Seminars & Meetings	37,441	4,000	8,000	8,000	100%
Administrative & General	3,117,180	4,745,100	5,139,493	5,395,093	8%
MID Equipment	784	0	0	0	0%
Totals	5,220,392	6,533,724	7,058,852	7,379,058	8%

Project Description: Administrative support for Information Technology such as telecommunications, operational systems, business systems and desktop support.

Notes: Materials & Supplies includes PC's and monitors; network and telecommunications parts; printing supplies; and security system parts; Outside Services includes hardware support and other consulting services; Administrative & General includes software license fees, Software as a Service (SaaS) fees, telephone service, microwave site lease payments and electrical expenses. 2020 non-labor increases are driven by the addition of maintenance fees for new systems including Contract Management, Energy Diversion Analytics and the Customer Self Service Portal (pending Board Approval) as well as increased software assurance fees for Microsoft desktop and server operating systems.

Applicable Policy: District Mission; Business Plan; Information Technology Plan; NERC Critical Infrastructure (CIP) Protection Reliability Standards.

2020 O&M Budget Project Detail

Division: INFORMATION TECHNOLOGY DIVISION
Project Number: 3XX655

Department: 4020 I.T. Systems Support
Project Title: PRJ - IT Systems Support

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	1,423,649	1,837,542	1,948,095	2,004,244	6%
Materials & Supplies	0	0	0	0	0%
Outside Services	0	0	0	0	0%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	0	0	0	0	0%
MID Equipment	0	0	0	0	0%
Totals	1,423,649	1,837,542	1,948,095	2,004,244	6%

Project Description: Labor support for IT network and server infrastructure support.

Notes: IT Systems Support operates, maintains and administers the District's IT infrastructure which includes servers, network devices, storage arrays, disaster recovery and security systems, databases and cloud services. Key duties include network administration, database administration, server and storage administration, email system administration, documentation management system administration, virtual environment administration and infrastructure planning. IT Systems also provides support for the NERC CIP Incident Response and Disaster Recovery requirements.

Applicable Policy: District Mission; Business Plan; Information Technology Plan; NERC Critical Infrastructure (CIP) Protection Reliability Standards.

2020 O&M Budget Project Detail

Division: INFORMATION TECHNOLOGY DIVISION
Project Number: 3XX660

Department: 4030 I.T. Applications Business Support
Project Title: PRJ - IT Applications Business Support

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	1,515,764	1,652,113	1,544,275	1,588,784	-7%
Materials & Supplies	0	0	0	0	0%
Outside Services	0	0	0	0	0%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	0	0	0	0	0%
MID Equipment	0	0	0	0	0%
Totals	1,515,764	1,652,113	1,544,275	1,588,784	-7%

Project Description: Labor for the support and maintenance of the District's Enterprise Business Applications.

Notes: IT Applications Business Support Department supports and maintains the District's business applications including the Customer Information System, Financial Information System and Human Resource Information System. Duties include business process automation; software upgrades; batch process implementation; software configuration; data analysis and reporting; software design; and special project implementation.

Applicable Policy: District Mission; Business Plan; Information Technology Plan; NERC Critical Infrastructure (CIP) Protection Reliability Standards.

2020 O&M Budget Project Detail

Division: INFORMATION TECHNOLOGY DIVISION
Project Number: 3XX661

Department: 4035 I.T. Applications Operations Support
Project Title: PRJ - IT Applications Operations Support

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	1,098,015	1,165,018	1,228,638	1,264,050	5%
Materials & Supplies	0	0	0	0	0%
Outside Services	0	0	0	0	0%
Seminars & Meetings	655	0	0	0	0%
Administrative & General	0	0	0	0	0%
MID Equipment	0	0	0	0	0%
Totals	1,098,670	1,165,018	1,228,638	1,264,050	5%

Project Description: Labor for the support and maintenance of the District's Operational Applications.

Notes: The IT Applications Operational Support Department maintains and supports the District's operational applications such as SCADA, Geographic Information Systems, Work Management Systems, and Advanced Meter Infrastructure. Duties include SCADA programming, software upgrades, geographic data analysis, meter usage analysis, software configuration, and mobile work management development and support.

Applicable Policy: District Mission; Business Plan; Information Technology Plan; Reliability and Safety.

2020 O&M Budget Project Detail

Division: INFORMATION TECHNOLOGY DIVISION
Project Number: 3XX665

Department: 4040 I.T. Technical Operations
Project Title: PRJ - Technical Operations

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	1,139,218	1,310,247	1,385,935	1,425,350	6%
Materials & Supplies	0	0	0	0	0%
Outside Services	0	0	0	0	0%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	0	0	0	0	0%
MID Equipment	4,733	0	0	0	0%
Totals	1,143,951	1,310,247	1,385,935	1,425,350	6%

Project Description: Labor to maintain District's telecommunications network and security systems.

Notes: Labor to perform maintenance and support on the District's telecommunications and physical security infrastructure including; microwave; fiber-optic; security cameras; and physical access control systems. Typical duties include maintenance on over 50 telecommunication sites throughout the District's service territory; wiring of Remote Terminal Units; calibration and testing of Irrigation Programmable Logic Controls; telephone Private Branch Exchange programming; installation of card access readers; CAT5/6 wiring for office remodels; troubleshooting camera system issues.

Applicable Policy: District Mission; Business Plan; Information Technology Plan; NERC Critical Infrastructure (CIP) Protection Reliability Standards.

2020 O&M Budget Project Detail

Division: INFORMATION TECHNOLOGY DIVISION
Project Number: 3XX656

Department: 4060 Desktop Support
Project Title: PRJ - Network/Desktop Support

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	485,654	564,204	575,211	591,790	2%
Materials & Supplies	0	0	0	0	0%
Outside Services	0	0	0	0	0%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	0	0	0	0	0%
MID Equipment	1,069	0	0	0	0%
Totals	486,723	564,204	575,211	591,790	2%

Project Description: Labor support for network, printer/copier and desktop support.

Notes: Network/Desktop Support staff include the Help Desk staff needed to update and maintain desktop computers. Help Desk staff also assist with operating system patches and security updates to desktop computers including those required to maintain NERC reliability standards.

Applicable Policy: District Mission; Business Plan; Information Technology Plan; NERC Critical Infrastructure (CIP) Protection Reliability Standards.

2020 O&M Budget Project Detail

Division: INFORMATION TECHNOLOGY DIVISION
Project Number: 3XX667

Department: 4070 Information Security
Project Title: PRJ - IT Security

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	474,873	852,639	903,078	929,107	6%
Materials & Supplies	0	0	0	0	0%
Outside Services	0	0	0	0	0%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	0	0	0	0	0%
MID Equipment	0	0	0	0	0%
Totals	474,873	852,639	903,078	929,107	6%

Project Description: Labor to support the District's information security and critical infrastructure protection compliance programs.

Notes: Information Security staff are responsible for NERC CIP compliance as well as for designing, implementing and monitoring the District's defense-in-depth cyber security systems. Duties include; defining firewall rules; conducting vulnerability assessments; researching security tools and controls; developing and maintaining various security procedures; monitoring threats; reviewing security logs.

Applicable Policy: District Mission; NERC Critical Infrastructure Protection (CIP) Reliability Standards; Information Technology Plan.

Finance

O&M

2020 O&M Budget Division Summary OM - FINANCE DIVISION

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Prev. Budget to Current Budget
3XX700 PRJ - Finance Admin	581,060	303,068	268,292	269,645	-11.5%
3XX710 PRJ - Treasurer	342,780	505,170	522,384	535,440	3.4%
3XX711 PRJ - Financing Related Expense	67,174	130,000	135,000	140,000	3.8%
3XX715 PRJ - Retirement Investment Expense	792,370	1,020,000	1,055,000	1,100,000	3.4%
OM - 5010 OM - Finance	1,783,384	1,958,238	1,980,676	2,045,086	1.1%
3XX702 PRJ - Pricing/Risk Management	452,470	638,196	673,359	691,941	5.5%
OM - 5015 OM - Planning Pricing and Risk	452,470	638,196	673,359	691,941	5.5%
3XX755 PRJ - Safety Admin	288,438	363,633	392,176	403,287	7.8%
3XX756 PRJ - Safety	416,201	630,306	733,757	678,770	16.4%
OM - 5020 OM - Saftey	704,639	993,939	1,125,933	1,082,057	13.3%
3XX720 PRJ - Controller	473,149	590,443	622,307	647,067	5.4%
3XX725 PRJ - Accounting	965,448	1,097,997	1,119,160	1,150,809	1.9%
OM - 5040 OM - Controller	1,438,598	1,688,440	1,741,467	1,797,876	3.1%
3XX730 PRJ - Customer Services Admin	411,848	577,650	719,699	739,458	24.6%
3XX735 PRJ - Billing	2,011,922	2,672,832	2,464,505	2,500,534	-7.8%
3XX740 PRJ - Call Center	1,795,977	2,006,291	2,123,868	2,184,733	5.9%
3XX750 PRJ - Cash Accounting	1,778,043	1,889,463	2,143,511	2,181,827	13.4%
OM - 5050 OM - Customer Services	5,997,791	7,146,236	7,451,583	7,606,552	4.3%
3XX775 PRJ - Risk & Property	950,979	1,012,131	1,059,489	1,090,113	4.7%
3XX777 PRJ - Environmental	343,839	492,495	532,414	549,238	8.1%
OM - 5030 OM - General Services	1,294,817	1,504,626	1,591,903	1,639,351	5.8%
3XX780 PRJ - Building Services	1,679,193	2,067,654	2,147,753	2,214,895	3.9%
OM - 5031 OM - Buildings & Grounds	1,679,193	2,067,654	2,147,753	2,214,895	3.9%
3XX785 PRJ - Purchasing	646,400	695,368	731,510	750,937	5.2%
3XX786 PRJ - Materials Handling	782,400	833,464	881,955	908,039	5.8%
OM - 5032 OM - Purchasing & Materials Handling	1,428,800	1,528,831	1,613,465	1,658,976	5.5%

2020 O&M Budget Division Summary OM - FINANCE DIVISION

	2018	2019	2020 Adopted	2021 Proposed	% Change Prev. Budget to Current Budget
	<u>Actual</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	
3XX998 PRJ - Equipment Clearing	-1,452,222	-2,922,911	-3,089,942	-3,210,294	5.7%
3XX790 PRJ - Fleet Maintenance	700,718	739,062	774,612	797,502	4.8%
3XX791 PRJ - Vehicles & Equipment	1,736,543	2,183,849	2,315,329	2,412,791	6.0%
OM - 5033 OM - Fleet Maintenance	985,039	0	0	0	0.0%
3XX760 PRJ - Energy Services	1,431,001	1,869,945	2,106,996	2,158,400	12.7%
3XX763 PRJ - Energy Management	1,731,813	3,629,077	3,525,202	3,543,985	-2.9%
3XX764 PRJ - Solar Photovoltaic PBI	2,430,808	2,100,000	1,000,000	500,000	-52.4%
OM - 5065 OM - Energy Services	5,593,622	7,599,023	6,632,199	6,202,385	-12.7%
OM - 50 OM - FINANCE DIVISION	<u><u>\$21,358,353</u></u>	<u><u>\$25,125,183</u></u>	<u><u>\$24,958,336</u></u>	<u><u>\$24,939,117</u></u>	-0.7%

2020 O&M Budget Project Detail

Division: FINANCE DIVISION
Project Number: 3XX700

Department: 5010 Finance
Project Title: PRJ - Finance Admin

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	503,662	506,274	536,000	551,426	6%
Labor Vacancy	0	-427,906	-493,208	-507,281	15%
Materials & Supplies	2,611	0	0	0	0%
Outside Services	67,470	220,000	220,000	220,000	0%
Seminars & Meetings	4,471	2,500	2,500	2,500	0%
Administrative & General	2,845	2,200	3,000	3,000	36%
MID Equipment	0	0	0	0	0%
Totals	581,059	303,068	268,292	269,645	-11%

Project Description: The Finance Division supports MID operations by providing financial services to manage MID funds, pay employees and vendors, manage risk and ensure financial viability.

Notes: Outside services reflects work for rate studies, economic analysis and outside resources. A&G includes association dues and subscriptions GFOA. Increased due to in an increase in fees.

2020 O&M Budget Project Detail

Division: FINANCE DIVISION
Project Number: 3XX710

Department: 5010 Finance
Project Title: PRJ - Treasurer

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	160,639	154,770	163,934	168,659	6%
Materials & Supplies	57	0	0	0	0%
Outside Services	182,054	350,000	358,050	366,382	2%
Seminars & Meetings	30	0	0	0	0%
Administrative & General	0	400	400	400	0%
MID Equipment	0	0	0	0	0%
Totals	342,780	505,170	522,384	535,441	3%

Notes: Outside Services includes PFM asset management for investment advisory services.

2020 O&M Budget Project Detail

Division: FINANCE DIVISION
Project Number: 3XX711

Department: 5010 Finance
Project Title: PRJ - Financing Related Expense

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	0	0	0	0	0%
Materials & Supplies	0	0	0	0	0%
Outside Services	67,174	130,000	135,000	140,000	4%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	0	0	0	0	0%
MID Equipment	0	0	0	0	0%
Totals	67,174	130,000	135,000	140,000	4%

Project Description: Project contains costs for administering and maintaining District financings.

Notes: Outside Services: Financing related expenses including Trustee and Rating Agency fees.

2020 O&M Budget Project Detail

Division: FINANCE DIVISION
Project Number: 3XX715

Department: 5010 Finance
Project Title: PRJ - Retirement Investment Expense

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	0	0	0	0	0%
Materials & Supplies	0	0	0	0	0%
Outside Services	792,370	1,020,000	1,055,000	1,100,000	3%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	0	0	0	0	0%
MID Equipment	0	0	0	0	0%
Totals	792,370	1,020,000	1,055,000	1,100,000	3%

Project Description: Asset Management Fees for District Basic, Supplemental Plan, and Retiree Medical Trust.

2020 O&M Budget Project Detail

Division: FINANCE DIVISION
Project Number: 3XX702

Department: 5015 Planning Pricing and Risk
Project Title: PRJ - Pricing/Risk Management

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	410,816	592,396	627,359	645,441	6%
Materials & Supplies	0	0	0	0	0%
Outside Services	33,388	41,000	42,000	42,500	2%
Seminars & Meetings	6,258	0	0	0	0%
Administrative & General	2,008	4,800	4,000	4,000	-17%
MID Equipment	0	0	0	0	0%
Totals	452,470	638,196	673,359	691,941	6%

Project Description: The account includes the Planning, Pricing and Risk Management activities. Staff is responsible for overseeing the District Pricing/Risk Management, Planning/Budgeting and Retail Electric Rates.

Notes: Outside Services includes Bloomberg, risk software, and financial planning software support. A&G: Publications, software upgrades, electronic data.

2020 O&M Budget Project Detail

Division: FINANCE DIVISION
Project Number: 3XX755

Department: 5020 Safety
Project Title: PRJ - Safety Admin

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	271,284	329,583	349,076	359,137	6%
Materials & Supplies	3,196	2,050	2,100	2,150	2%
Outside Services	9,347	28,000	38,000	39,000	36%
Seminars & Meetings	3,811	1,500	1,500	1,500	0%
Administrative & General	801	2,500	1,500	1,500	-40%
MID Equipment	0	0	0	0	0%
Totals	288,439	363,633	392,176	403,287	8%

Notes: Materials & Supplies: staff safety equipment, office and training supplies and promotional items; Outside Services: emergency action planning and consulting, compliance audits, increase due to emergency management planning cost;

2020 O&M Budget Project Detail

Division: FINANCE DIVISION
Project Number: 3XX756

Department: 5020 Safety
Project Title: PRJ - Safety

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	324,000	506,912	536,842	552,303	6%
Materials & Supplies	11,313	15,209	15,770	16,167	4%
Outside Services	29,901	44,815	119,025	46,830	166%
Seminars & Meetings	7,487	4,900	5,000	5,100	2%
Administrative & General	42,592	57,445	56,070	57,295	-2%
MID Equipment	908	1,025	1,050	1,075	2%
Totals	416,201	630,306	733,757	678,770	16%

Project Description: Administers safety compliance and safety training in accordance with District policy and applicable regulations.

Notes: Outside Services: safety practical and technical training (ex: confined spaces, forklift/aerial lift, Hazwoper/CPR). Increase in 2020 due to an Arc Flash Assessment which is performed every 5 years; Seminars & Meetings: training supplies; A&G: online training subscriptions, safety incentive program.

Applicable Policy: Memorandum of Understanding; MID Employee Handbook; MID IIPP/Safety Manual; Occupational Safety and Health Administration.

2020 O&M Budget Project Detail

Division: FINANCE DIVISION
Project Number: 3XX720

Department: 5040 Controller Department
Project Title: PRJ - Controller

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	225,003	277,143	293,507	301,967	6%
Materials & Supplies	0	0	0	0	0%
Outside Services	247,847	310,000	325,500	341,800	5%
Seminars & Meetings	299	2,200	2,200	2,200	0%
Administrative & General	0	1,100	1,100	1,100	0%
MID Equipment	0	0	0	0	0%
Totals	473,149	590,443	622,307	647,067	5%

Notes: Outside services include financial audit services for MID, MIDFA, Retiree Medical Benefits, Basic and Supplemental Plans.

2020 O&M Budget Project Detail

Division: FINANCE DIVISION
Project Number: 3XX725

Department: 5040 Controller Department
Project Title: PRJ - Accounting

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	957,752	1,079,097	1,100,260	1,131,909	2%
Materials & Supplies	5,891	13,000	13,000	13,000	0%
Outside Services	0	0	0	0	0%
Seminars & Meetings	1,586	3,800	3,800	3,800	0%
Administrative & General	219	2,100	2,100	2,100	0%
MID Equipment	0	0	0	0	0%
Totals	965,448	1,097,997	1,119,160	1,150,809	2%

Notes: Material & Supplies: includes check stock orders; Office Supplies consolidated for Finance Division; A&G includes GASB and Payroll publications.

2020 O&M Budget Project Detail

Division: FINANCE DIVISION
Project Number: 3XX730

Department: 5050 Customer Services
Project Title: PRJ - Customer Services Admin

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	380,303	524,935	668,984	688,243	27%
Materials & Supplies	1,082	2,701	2,701	2,701	0%
Outside Services	12,949	32,514	32,514	32,514	0%
Seminars & Meetings	6,272	3,000	3,000	3,000	0%
Administrative & General	11,243	14,000	12,000	12,500	-14%
MID Equipment	0	500	500	500	0%
Totals	411,849	577,650	719,699	739,458	25%

Notes: Outside Services: Auto dialer (West), Skip Tracing (Redsson); Materials & Supplies: office supplies; A&G: Chartwell membership.

2020 O&M Budget Project Detail

Division: FINANCE DIVISION
Project Number: 3XX735

Department: 5050 Customer Services
Project Title: PRJ - Billing

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	1,132,454	1,185,760	1,255,305	1,291,334	6%
Materials & Supplies	7,487	5,500	5,500	5,500	0%
Outside Services	870,354	1,477,872	1,200,000	1,200,000	-19%
Seminars & Meetings	16	100	100	100	0%
Administrative & General	1,611	3,600	3,600	3,600	0%
MID Equipment	0	0	0	0	0%
Totals	2,011,922	2,672,832	2,464,505	2,500,534	-8%

Notes: Outside Services: Infosend, SmartGridCIS/Power Up; A&G: court filing fees, phones and wifi.

2020 O&M Budget Project Detail

Division: FINANCE DIVISION
Project Number: 3XX740

Department: 5050 Customer Services
Project Title: PRJ - Call Center

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	1,787,942	2,000,527	2,118,104	2,178,969	6%
Materials & Supplies	6,565	1,576	1,576	1,576	0%
Outside Services	515	2,400	2,400	2,400	0%
Seminars & Meetings	604	100	100	100	0%
Administrative & General	350	1,688	1,688	1,688	0%
MID Equipment	0	0	0	0	0%
Totals	1,795,976	2,006,291	2,123,868	2,184,733	6%

Notes: Outside Services: interpreter services (Language Line); A&G: phone for Call Center Supervisor.

2020 O&M Budget Project Detail

Division: FINANCE DIVISION
Project Number: 3XX750

Department: 5050 Customer Services
Project Title: PRJ - Cash Accounting

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	1,212,988	1,258,235	1,332,283	1,370,599	6%
Materials & Supplies	3,024	5,500	5,500	5,500	0%
Outside Services	561,959	620,000	800,000	800,000	29%
Seminars & Meetings	23	100	100	100	0%
Administrative & General	50	3,377	3,377	3,377	0%
MID Equipment	0	2,251	2,251	2,251	0%
Totals	1,778,044	1,889,463	2,143,511	2,181,827	13%

Notes: Materials & Supplies: Cashiering Station Supplies, Remittance Supplies; Outside Services: Opex Mail Opener, Cash Courier, Check Free, Eastman Kodak, US Payments & Ebilling fees. Budget increased for the changes being made to replace the current IVR to move from Wells Fargo and Cybersource to Milsoft and InvoiceCloud for IVR and payment processing. This change will help us become PCI compliant; A&G: phone for Cash Accounting Supervisor.

2020 O&M Budget Project Detail

Division: FINANCE DIVISION
Project Number: 3XX775

Department: 5030 General Services
Project Title: PRJ - Risk & Property

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	726,229	732,836	774,009	796,193	6%
Materials & Supplies	3,139	2,000	2,000	2,000	0%
Outside Services	217,201	273,145	281,330	289,770	3%
Seminars & Meetings	1,118	1,300	1,300	1,300	0%
Administrative & General	3,291	2,850	850	850	-70%
MID Equipment	0	0	0	0	0%
Totals	950,978	1,012,131	1,059,489	1,090,113	5%

Notes: The main components of the Outside Services account are the security guards and the iGuard perimeter security system. There are guards assigned to the downtown building as well as a guard assigned to the Service Center. In addition to security guards, there is a perimeter security system installed which is being monitored during evening hours, weekends and holidays.

2020 O&M Budget Project Detail

Division: FINANCE DIVISION
Project Number: 3XX777

Department: 5030 General Services
Project Title: PRJ - Environmental

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	197,795	356,429	377,395	388,254	6%
Materials & Supplies	9,966	6,200	7,600	7,800	23%
Outside Services	113,632	102,416	115,932	121,155	13%
Seminars & Meetings	2,802	2,350	2,420	2,490	3%
Administrative & General	18,892	23,900	27,767	28,139	16%
MID Equipment	751	1,200	1,300	1,400	8%
Totals	343,838	492,495	532,414	549,238	8%

Project Description: Toxic/Hazardous Waste Disposal: Selling obsolete equipment for recycling.

Notes: Materials & Supplies: containers for Haz-Mat waste disposal. Outside Services: includes toxic and hazardous waste transportation and disposal. Increased due to the replacing of old equipment. A&G includes permit fees and hazardous waste tax and fees, increase due to an increase in permitting fees.

2020 O&M Budget Project Detail

Division: FINANCE DIVISION
Project Number: 3XX780

Department: 5031 Buildings & Grounds
Project Title: PRJ - Building Services

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	569,644	634,808	672,098	691,401	6%
Materials & Supplies	166,684	378,446	392,255	402,694	4%
Outside Services	459,831	426,900	438,800	456,140	3%
Seminars & Meetings	1,070	600	600	600	0%
Administrative & General	456,776	595,900	612,000	631,060	3%
MID Equipment	25,188	31,000	32,000	33,000	3%
Totals	1,679,193	2,067,654	2,147,753	2,214,895	4%

Notes: Outside Services: custodial management, building HVAC, service contracts with various vendors, main office roof coating, interior paint. A&G: utilities, MID Electric.

2020 O&M Budget Project Detail

Division: FINANCE DIVISION
Project Number: 3XX785

Department: 5032 Purchasing & Materials Handling
Project Title: PRJ - Purchasing

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	639,095	686,100	725,012	744,113	6%
Materials & Supplies	3,244	4,307	4,519	4,740	5%
Outside Services	0	1,256	0	0	-100%
Seminars & Meetings	1,585	630	661	694	5%
Administrative & General	2,477	3,075	1,318	1,390	-57%
MID Equipment	0	0	0	0	0%
Totals	646,401	695,368	731,510	750,937	5%

Notes: Materials & Supplies: includes office supplies and postage for issuing contracts and bids. A&G: includes association dues and publications.

Applicable Policy: Comply with policy of central Purchasing Department to procure material and supplies in support of District goals.

2020 O&M Budget Project Detail

Division: FINANCE DIVISION
Project Number: 3XX786

Department: 5032 Purchasing & Materials Handling
Project Title: PRJ - Materials Handling

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	702,730	723,627	766,638	787,081	6%
Materials & Supplies	49,698	65,480	68,748	72,179	5%
Outside Services	16,070	14,777	15,515	16,289	5%
Seminars & Meetings	50	0	0	0	0%
Administrative & General	1,273	4,100	4,300	4,400	5%
MID Equipment	12,579	25,480	26,754	28,090	5%
Totals	782,400	833,464	881,955	908,039	6%

Project Description: Material Handling receives, stores, and issues material to meet the needs of the District.

Notes: Materials & Supplies: routine equipment replacements including saws, generators, ladders and safety equipment. Outside Services: gas monitor program, repair of weight scales and gates.

2020 O&M Budget Project Detail

Division: FINANCE DIVISION
Project Number: 3XX998

Department: 5033 Fleet Maintenance
Project Title: PRJ - Equipment Clearing

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	0	0	0	0	0%
Materials & Supplies	0	0	0	0	0%
Outside Services	0	0	0	0	0%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	0	0	0	0	0%
MID Equipment	-1,452,222	-2,922,911	-3,089,942	-3,210,294	6%
Totals	-1,452,222	-2,922,911	-3,089,942	-3,210,294	6%

2020 O&M Budget Project Detail

Division: FINANCE DIVISION
Project Number: 3XX790

Department: 5033 Fleet Maintenance
Project Title: PRJ - Fleet Maintenance

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	562,095	537,646	569,300	585,691	6%
Materials & Supplies	42,936	82,762	85,440	88,187	3%
Outside Services	21,112	22,983	23,829	24,700	4%
Seminars & Meetings	81	2,985	3,075	3,167	3%
Administrative & General	63,938	88,534	88,691	91,352	0%
MID Equipment	10,557	4,152	4,277	4,405	3%
Totals	700,719	739,062	774,612	797,502	5%

Notes: All indirect costs associated with maintaining the District's Fleet and any other services provided to other departments within the District, such as welding, fabricating, and repairing non vehicle related equipment in the field.

2020 O&M Budget Project Detail

Division: FINANCE DIVISION
Project Number: 3XX791

Department: 5033 Fleet Maintenance
Project Title: PRJ - Vehicles & Equipment

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	805,823	1,239,567	1,311,176	1,348,471	6%
Materials & Supplies	895,420	908,691	967,651	1,026,880	6%
Outside Services	33,705	35,591	36,502	37,440	3%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	955	0	0	0	0%
MID Equipment	639	0	0	0	0%
Totals	1,736,542	2,183,849	2,315,329	2,412,791	6%

Notes: Materials & Supplies: All materials, parts, tires, and other maintenance/repair items needed to maintain and repair the District's fleet. Outside Services: annual aerial truck inspection and dielectric training for staff. All costs directly related to maintaining the District's fleet. The 6% increase in Materials and Supplies is to account for the large increases we are seeing in fleet related costs from vendors."

2020 O&M Budget Project Detail

Division: FINANCE DIVISION
Project Number: 3XX760

Department: 5065 Energy Services
Project Title: PRJ - Energy Services

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	918,932	1,373,945	1,610,996	1,657,400	17%
Materials & Supplies	4,898	72,000	72,000	72,000	0%
Outside Services	499,749	420,000	420,000	425,000	0%
Seminars & Meetings	5,426	1,000	1,000	1,000	0%
Administrative & General	203	3,000	3,000	3,000	0%
MID Equipment	1,793	0	0	0	0%
Totals	1,431,001	1,869,945	2,106,996	2,158,400	13%

Project Description: Design and testing of new energy efficiency and low income programs, project tracking reporting, budgeting customer energy consumption issues, interface with vendors and customers, business customers, and government agencies as well as contract management. Promotion of CARES, coordination of Medical Life Support program, Energy 411, and coordination of low income agencies.

Notes: Outside Services: weatherization funding for low income. A&G: literature for programs.

Applicable Policy: Low income weatherization services mandated by AB-1890

2020 O&M Budget Project Detail

Division: FINANCE DIVISION
Project Number: 3XX763

Department: 5065 Energy Services
Project Title: PRJ - Energy Management

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	915,112	755,877	652,002	670,785	-14%
Materials & Supplies	24,155	26,000	26,000	26,000	0%
Outside Services	166,360	93,000	93,000	93,000	0%
Seminars & Meetings	2,082	1,200	1,200	1,200	0%
Administrative & General	621,231	2,750,000	2,750,000	2,750,000	0%
MID Equipment	2,874	3,000	3,000	3,000	0%
Totals	1,731,814	3,629,077	3,525,202	3,543,985	-3%

Project Description: Direct interaction with residential and small business customers through energy audits, rate analysis, and public events. Rebate program promotion qualification inspection.

Notes: A&G: energy efficiency rebates based on MID goals. Outside Services: energy efficiency monitoring and verification study contracts.

2020 O&M Budget Project Detail

Division: FINANCE DIVISION
Project Number: 3XX764

Department: 5065 Energy Services
Project Title: PRJ - Solar Photovoltaic PBI

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	0	0	0	0	0%
Materials & Supplies	0	0	0	0	0%
Outside Services	0	0	0	0	0%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	2,430,808	2,100,000	1,000,000	500,000	-52%
MID Equipment	0	0	0	0	0%
Totals	2,430,808	2,100,000	1,000,000	500,000	-52%

Project Description: Funding for rebate incentives and monitoring and verification associated with the SB-1 mandated programs; includes PBI only.

Notes: A&G: funding legacy performance solar rebates.

Other Expenses

O&M

2020 O&M Budget Division Summary

OM - OTHER EXPENSES DIVISION

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Prev. Budget to Current Budget
3XX954 PRJ - Claims/Other Write Offs	386,068	601,100	611,100	621,100	1.7%
3XX958 PRJ - Don Pedro Rec Agency Expense	485,408	504,805	560,343	560,343	11.0%
3XX959 PRJ - Electric Retail Write Offs	1,112,926	2,300,000	2,300,000	2,300,000	0.0%
3XX960 PRJ - Insurance	1,576,680	1,933,426	1,962,446	2,274,571	1.5%
3XX966 PRJ - Permission and Municipal Fees	512,307	600,000	600,000	600,000	0.0%
3XX967 PRJ - Retiree Medical Expense	8,764,071	10,504,400	10,455,961	10,905,969	-0.5%
3XX975 PRJ - Basic Unfunded Liability Amort.	0	2,900,000	0	0	-100.0%
3XX968 PRJ - Warehouse Sales Cost	-9,851	5,000	5,000	5,000	0.0%
3XX969 PRJ - WBO Costs	1,899,282	1,375,000	1,375,000	1,375,000	0.0%
OM - 5800 OM - Other Expense	14,726,891	20,723,731	17,869,850	18,641,983	-13.8%
OM - 58 OM - OTHER EXPENSES DIVISION	\$14,726,891	\$20,723,731	\$17,869,850	\$18,641,983	-13.8%

2020 O&M Budget Project Detail

Division: OTHER EXPENSES DIVISION
Project Number: 3XX954

Department: 5800 Other Expense
Project Title: PRJ - Claims/Other Write Offs

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	0	0	0	0	0%
Materials & Supplies	0	0	0	0	0%
Outside Services	0	0	0	0	0%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	386,068	601,100	611,100	621,100	2%
MID Equipment	0	0	0	0	0%
Totals	386,068	601,100	611,100	621,100	2%

Project Description: This project includes miscellaneous costs associated with uninsured incidents i.e. pole accidents, substation theft.

2020 O&M Budget Project Detail

Division: OTHER EXPENSES DIVISION
Project Number: 3XX958

Department: 5800 Other Expense
Project Title: PRJ - Don Pedro Rec Agency Expense

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	0	0	0	0	0%
Materials & Supplies	0	0	0	0	0%
Outside Services	485,408	504,805	560,343	560,343	11%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	0	0	0	0	0%
MID Equipment	0	0	0	0	0%
Totals	485,408	504,805	560,343	560,343	11%

Project Description: MID portion of operating costs associated with Don Pedro Recreation agency shared with TID and CCSF.

2020 O&M Budget Project Detail

Division: OTHER EXPENSES DIVISION
Project Number: 3XX959

Department: 5800 Other Expense
Project Title: PRJ - Electric Retail Write Offs

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Income & Expense	11,532	0	0	0	0%
Labor & Benefits	0	0	0	0	0%
Materials & Supplies	0	0	0	0	0%
Outside Services	0	0	0	0	0%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	1,101,394	2,300,000	2,300,000	2,300,000	0%
MID Equipment	0	0	0	0	0%
Totals	1,112,926	2,300,000	2,300,000	2,300,000	0%

Project Description: Costs associated with uncollectable electric service bills.

2020 O&M Budget Project Detail

Division: OTHER EXPENSES DIVISION
Project Number: 3XX960

Department: 5800 Other Expense
Project Title: PRJ - Insurance

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	0	0	0	0	0%
Materials & Supplies	0	0	0	0	0%
Outside Services	0	0	0	0	0%
Seminars & Meetings	846	0	0	0	0%
Administrative & General	1,575,834	1,933,426	1,962,446	2,274,571	2%
MID Equipment	0	0	0	0	0%
Totals	1,576,680	1,933,426	1,962,446	2,274,571	2%

Project Description: Insurance costs associated with District Facilities.

2020 O&M Budget Project Detail

Division: OTHER EXPENSES DIVISION
Project Number: 3XX966

Department: 5800 Other Expense
Project Title: PRJ - Permission and Municipal Fees

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	0	0	0	0	0%
Materials & Supplies	0	0	0	0	0%
Outside Services	0	0	0	0	0%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	512,307	600,000	600,000	600,000	0%
MID Equipment	0	0	0	0	0%
Totals	512,307	600,000	600,000	600,000	0%

Project Description: Permission fees paid to city agencies and Non-Municipal Departing Load (NMDL) charged to PG&E.

2020 O&M Budget Project Detail

Division: OTHER EXPENSES DIVISION
Project Number: 3XX967

Department: 5800 Other Expense
Project Title: PRJ - Retiree Medical Expense

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	0	0	0	0	0%
Materials & Supplies	0	0	0	0	0%
Outside Services	8,764,071	10,504,400	10,455,961	10,905,969	0%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	0	0	0	0	0%
MID Equipment	0	0	0	0	0%
Totals	8,764,071	10,504,400	10,455,961	10,905,969	0%

Project Description: Costs associated with Retiree Medical Trust, other post employment benefits (OPEB).

2020 O&M Budget Project Detail

Division: OTHER EXPENSES DIVISION
Project Number: 3XX968

Department: 5800 Other Expense
Project Title: PRJ - Warehouse Sales Cost

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	0	0	0	0	0%
Materials & Supplies	-9,851	5,000	5,000	5,000	0%
Outside Services	0	0	0	0	0%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	0	0	0	0	0%
MID Equipment	0	0	0	0	0%
Totals	-9,851	5,000	5,000	5,000	0%

Project Description: The costs associated with sales of miscellaneous inventory; Costs are offset by sales revenues.

2020 O&M Budget Project Detail

Division: OTHER EXPENSES DIVISION
Project Number: 3XX969

Department: 5800 Other Expense
Project Title: PRJ - WBO Costs

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Income & Expense	1,899,282	0	0	0	0%
Labor & Benefits	0	0	0	0	0%
Materials & Supplies	0	1,375,000	1,375,000	1,375,000	0%
Outside Services	0	0	0	0	0%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	0	0	0	0	0%
MID Equipment	0	0	0	0	0%
Totals	1,899,282	1,375,000	1,375,000	1,375,000	0%

Project Description: Work Billed to Others (WBO); WBO costs associated with damaged facilities; items not covered in District Service Rules and other costs that are billed to outside parties.

Electric Resources

O&M

2020 O&M Budget Division Summary

OM - ELECTRIC RESOURCES DIVISION

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Prev. Budget to Current Budget
3XX100 PRJ - Electric Resources Admin	1,514,473	933,717	3,363,787	2,419,200	260.3%
OM - 6010 OM - Electric Resources	1,514,473	933,717	3,363,787	2,419,200	260.3%
3XX110 PRJ - Electric Resources/Planning	2,553,674	3,884,181	3,958,720	3,852,515	1.9%
OM - 6020 OM - Resource Planning & Development	2,553,674	3,884,181	3,958,720	3,852,515	1.9%
3XX130 PRJ - Operations Admin	1,156,189	1,651,283	1,638,834	1,666,015	-0.8%
OM - 6060 OM - Power Operations	1,156,189	1,651,283	1,638,834	1,666,015	-0.8%
3XX140 PRJ - Power Scheduling	2,901,095	3,582,291	3,786,777	3,401,842	5.7%
OM - 6062 OM - Power Scheduling	2,901,095	3,582,291	3,786,777	3,401,842	5.7%
3XX135 PRJ - Control Center Dispatching	3,282,110	3,604,472	3,805,996	3,911,767	5.6%
OM - 6064 OM - Dispatching	3,282,110	3,604,472	3,805,996	3,911,767	5.6%
OM - 60 OM - ELECTRIC RESOURCES DIVISION	<u><u>\$11,407,541</u></u>	<u><u>\$13,655,944</u></u>	<u><u>\$16,554,114</u></u>	<u><u>\$15,251,338</u></u>	21.2%

2020 O&M Budget Project Detail

Division: ELECTRIC RESOURCES DIVISION
Project Number: 3XX100

Department: 6010 Electric Resources
Project Title: PRJ - Electric Resources Admin

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	1,062,592	982,829	1,047,466	1,077,656	7%
Labor Vacancy	0	-556,611	-589,078	-583,906	6%
Materials & Supplies	542	1,500	1,500	1,500	0%
Outside Services	429,010	500,000	2,900,000	1,920,000	480%
Seminars & Meetings	15,940	0	0	0	0%
Administrative & General	3,937	3,600	1,500	1,550	-58%
MID Equipment	2,452	2,400	2,400	2,400	0%
Totals	1,514,473	933,718	3,363,788	2,419,200	260%

Project Description: Provide administrative direction and management of Electric Resources for the District.

Notes: Outside Services budget represents fees for participation in the Balancing Authority of Northern California (BANC). Increase due to fees for entering the Energy Imbalance Market.

2020 O&M Budget Project Detail

Division: ELECTRIC RESOURCES DIVISION
Project Number: 3XX110

Department: 6020 Resource Planning & Development
Project Title: PRJ - Electric Resources/Planning

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	1,585,846	2,199,981	2,329,920	2,158,793	6%
Materials & Supplies	2,584	4,500	4,500	4,500	0%
Outside Services	787,084	1,480,000	1,450,000	1,508,000	-2%
Seminars & Meetings	29,108	27,300	4,500	4,500	-84%
Administrative & General	149,052	172,400	169,800	176,722	-2%
MID Equipment	0	0	0	0	0%
Totals	2,553,674	3,884,181	3,958,720	3,852,515	2%

Project Description: Provide support and development of the District long range resource plans, power purchase contracts, and power supply projects; coordinate with the Energy Management Department on integration of supply and demand plans.

Notes: The 2020 Seminars and Meetings budget has been adjusted to exclude the cost of offsite seminars and meetings since those costs are accounted for in the General Manager's budget.

2020 O&M Budget Project Detail

Division: ELECTRIC RESOURCES DIVISION
Project Number: 3XX130

Department: 6060 Power Operations
Project Title: PRJ - Operations Admin

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	544,589	871,683	923,034	949,615	6%
Materials & Supplies	2,203	3,400	3,400	3,400	0%
Outside Services	236,745	284,000	284,000	287,000	0%
Seminars & Meetings	24,463	31,500	31,100	31,500	-1%
Administrative & General	346,452	458,600	395,100	392,300	-14%
MID Equipment	1,739	2,100	2,200	2,200	5%
Totals	1,156,191	1,651,283	1,638,834	1,666,015	-1%

Project Description: Provide overall management, supervision and engineering support for the District's electrical system operations and resources.

Notes: A&G decrease due to lower costs for company dues and memberships and Software as a Service (SaaS).

Applicable Policy: NERC Standards PER-005-2 Training Requirements Annual Training for CEH's, TOP-002-2 Additional Engineering Requirements, EOP-005 Training Requirements RC Drill.

2020 O&M Budget Project Detail

Division: ELECTRIC RESOURCES DIVISION
Project Number: 3XX140

Department: 6062 Power Scheduling
Project Title: PRJ - Power Scheduling

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	2,861,110	3,552,191	3,759,577	3,373,242	6%
Materials & Supplies	978	5,200	5,200	5,200	0%
Outside Services	0	0	0	0	0%
Seminars & Meetings	34,348	24,100	21,200	22,600	-12%
Administrative & General	4,660	800	800	800	0%
MID Equipment	0	0	0	0	0%
Totals	2,901,096	3,582,291	3,786,777	3,401,842	6%

Project Description: The scheduling function includes the preparation of the short-term resource plan daily/hourly and real-time scheduling of energy to meet the system load requirements.

Notes: Decrease to Seminars & Meetings due to lower CETAC training costs per employee.

Applicable Policy: NERC Standard PER-005.

2020 O&M Budget Project Detail

Division: ELECTRIC RESOURCES DIVISION
Project Number: 3XX135

Department: 6064 Dispatching
Project Title: PRJ - Control Center Dispatching

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	3,175,504	3,492,672	3,693,096	3,797,667	6%
Materials & Supplies	4,453	6,800	6,800	6,800	0%
Outside Services	2,295	2,500	2,400	2,400	-4%
Seminars & Meetings	40,726	39,800	41,000	42,200	3%
Administrative & General	59,132	62,700	62,700	62,700	0%
MID Equipment	0	0	0	0	0%
Totals	3,282,110	3,604,472	3,805,996	3,911,767	6%

Project Description: The dispatching function provides 24 hour coverage for MID electric operations.

Applicable Policy: NERC Standard PER-005.

Power Supply

O&M

2020 O&M Budget Division Summary Power Supply

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Prev. Budget to Current Budget
3XX150 PRJ - Purchase Power	152,145,037	153,212,913	169,215,291	182,360,616	10.4%
PS - Purchase Power	152,145,037	153,212,913	169,215,291	182,360,616	10.4%
3XX151 PRJ - Purchase Power-Hedging	476,598	0	0	0	N/A
PS - Hedging	476,598	0	0	0	N/A
3XX160 PRJ - Generation Admin	679,919	786,075	828,428	850,328	5.4%
3XX165 PRJ - Don Pedro Generation O&M	1,174,134	1,150,000	1,150,000	1,150,000	0.0%
3XX170 PRJ - New Hogan O&M	61,143	91,359	119,129	90,912	30.4%
3XX171 PRJ - Stone Drop O&M	30,602	37,259	45,944	39,065	23.3%
3XX175 PRJ - McClure O&M	1,993,311	2,122,659	1,121,890	1,095,672	-47.1%
3XX180 PRJ - Woodland Operations	4,229,760	4,525,677	4,469,400	4,433,503	-1.2%
3XX182 PRJ - Woodland Maintenance	3,879,311	5,831,146	6,117,006	10,050,081	4.9%
3XX185 PRJ - Ripon O&M	1,519,546	1,829,879	1,896,852	1,987,909	3.7%
PS - Generation O&M	13,567,726	16,374,054	15,748,650	19,697,471	-3.8%
3XX176 PRJ - McClure Fuel Expense	470,503	1,031,652	927,160	968,812	-10.1%
3XX181 PRJ - Woodland Fuel Expense	17,773,556	18,365,989	19,547,106	21,859,925	6.4%
3XX186 PRJ - Ripon Fuel Expense	1,217,614	1,186,313	1,635,194	1,841,627	37.8%
PS - Generation Fuel	19,461,672	20,583,954	22,109,460	24,670,364	7.4%
Power Supply	\$185,651,032	\$190,170,921	\$207,073,401	\$226,728,451	8.9%

2020 O&M Budget Project Detail

Division: ELECTRIC RESOURCES DIVISION
Project Number: 3XX150

Department: 6062 Power Scheduling
Project Title: PRJ - Purchase Power

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	0	0	0	0	0%
Materials & Supplies	0	0	0	0	0%
Outside Services	152,145,037	153,212,913	169,215,291	182,360,616	10%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	0	0	0	0	0%
MID Equipment	0	0	0	0	0%
Totals	152,145,037	153,212,913	169,215,291	182,360,616	10%

2020 O&M Budget Project Detail

Division: ELECTRIC RESOURCES DIVISION
Project Number: 3XX160

Department: 6070 Power Generation
Project Title: PRJ - Generation Admin

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	585,269	717,475	759,828	781,728	6%
Materials & Supplies	2,874	3,000	3,000	3,000	0%
Outside Services	82,634	62,000	62,000	62,000	0%
Seminars & Meetings	3,166	0	0	0	0%
Administrative & General	5,150	1,500	1,500	1,500	0%
MID Equipment	826	2,100	2,100	2,100	0%
Totals	679,919	786,075	828,428	850,328	5%

Project Description: Provide supervisory and administrative support to MID Power Generation Department.

Notes: Typical Outside Services include environmental and engineering consulting services.

2020 O&M Budget Project Detail

Division: ELECTRIC RESOURCES DIVISION
Project Number: 3XX165

Department: 6070 Power Generation
Project Title: PRJ - Don Pedro Generation O&M

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	0	0	0	0	0%
Materials & Supplies	0	0	0	0	0%
Outside Services	1,172,421	1,150,000	1,150,000	1,150,000	0%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	1,712	0	0	0	0%
MID Equipment	0	0	0	0	0%
Totals	1,174,133	1,150,000	1,150,000	1,150,000	0%

Project Description: MID is responsible for 31.54% of the Don Pedro Power Plant budget.

2020 O&M Budget Project Detail

Division: ELECTRIC RESOURCES DIVISION
Project Number: 3XX170

Department: 6071 McClure & Ripon Generation
Project Title: PRJ - New Hogan O&M

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	33,181	44,259	46,866	48,217	6%
Materials & Supplies	3,848	8,900	13,434	8,866	51%
Outside Services	0	10,200	30,172	5,172	196%
Seminars & Meetings	148	0	0	0	0%
Administrative & General	21,896	25,000	25,000	25,000	0%
MID Equipment	2,070	3,000	3,657	3,657	22%
Totals	61,143	91,359	119,129	90,912	30%

Project Description: New Hogan Generation Station supplies the ISO for the District's benefit up to 3.3 MWs of hydro generation (green energy) with two hydraulic turbine generators from the New Hogan Reservoir.

Notes: Materials and Supplies: Increase due to PLC parts needed for upgrade. Outside Services: Increase due to battery and relay testing, and PLC programming support. Equipment: Increased amount to reflect actual historical costs. A&G includes permit and license fees.

2020 O&M Budget Project Detail

Division: ELECTRIC RESOURCES DIVISION
Project Number: 3XX171

Department: 6071 McClure & Ripon Generation
Project Title: PRJ - Stone Drop O&M

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	23,862	20,359	21,559	22,180	6%
Materials & Supplies	3,554	2,200	2,182	2,182	-1%
Outside Services	0	7,500	15,000	7,500	100%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	2,459	5,900	5,910	5,910	0%
MID Equipment	727	1,300	1,293	1,293	-1%
Totals	30,602	37,259	45,944	39,065	23%

Project Description: Stone Drop Generation Station supplies the District with up to 290 kW of hydro generation (green energy) from one hydraulic turbine generator.

Notes: Outside Services: Increase for battery rundown and relay testing.

2020 O&M Budget Project Detail

Division: ELECTRIC RESOURCES DIVISION
Project Number: 3XX175

Department: 6071 McClure & Ripon Generation
Project Title: PRJ - McClure O&M

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	529,157	736,059	777,850	799,753	6%
Materials & Supplies	64,051	125,900	100,000	79,185	-21%
Outside Services	1,319,230	1,187,200	136,040	108,734	-89%
Seminars & Meetings	942	0	0	0	0%
Administrative & General	78,297	70,500	105,000	105,000	49%
MID Equipment	1,634	3,000	3,000	3,000	0%
Totals	1,993,311	2,122,659	1,121,890	1,095,672	-47%

Project Description: McClure Generation Station supplies the District with 120 MWs of internal peak power generation from two combustion turbine generators.

Notes: Materials and Supplies: Decreased to reflect actual historical expenses. Outside Services: Decrease due to an additional \$1.1 million that was added to the 2019 budget to cover overhaul of the McClure Unit 1 turbine. Administrative and General: Increase due to fees for permits.

2020 O&M Budget Project Detail

Division: ELECTRIC RESOURCES DIVISION
Project Number: 3XX180

Department: 6072 Woodland Generation
Project Title: PRJ - Woodland Operations

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	3,022,981	2,809,977	2,970,200	3,054,127	6%
Materials & Supplies	782,668	1,155,800	902,000	929,060	-22%
Outside Services	264,015	167,400	320,000	164,800	91%
Seminars & Meetings	6,928	0	0	0	0%
Administrative & General	153,168	392,500	277,200	285,516	-29%
MID Equipment	0	0	0	0	0%
Totals	4,229,760	4,525,677	4,469,400	4,433,503	-1%

Project Description: Provide operation and maintenance for the Woodland Generation Station Plant to maintain reliability of electric supply.

Notes: Materials and Supplies: Decrease due to reduced chemical usage. Outside Services: Increase due to WECC testing for all 9 generators. Administrative and General: Decrease due to lower plant electricity costs.

2020 O&M Budget Project Detail

Division: ELECTRIC RESOURCES DIVISION
Project Number: 3XX182

Department: 6072 Woodland Generation
Project Title: PRJ - Woodland Maintenance

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	1,720,364	1,922,746	2,034,068	2,092,022	6%
Materials & Supplies	1,023,863	981,900	1,021,160	1,051,794	4%
Outside Services	1,102,525	2,907,500	3,042,778	6,887,265	5%
Seminars & Meetings	110	0	0	0	0%
Administrative & General	29,575	14,000	14,000	14,000	0%
MID Equipment	2,874	5,000	5,000	5,000	0%
Totals	3,879,311	5,831,146	6,117,006	10,050,081	5%

Project Description: Provide operation and maintenance for the Woodland Generation Station plant to maintain reliability of electric supply.

Notes: Outside Services category is 5% higher in 2020 as the Woodland 3 Units begin the major overhaul cycle at 16,000 hours. The Woodland 2 Unit will hit the major overhaul milestone in 2021 which will almost double the Outside Services budget for that year.

2020 O&M Budget Project Detail

Division: ELECTRIC RESOURCES DIVISION
Project Number: 3XX185

Department: 6071 McClure & Ripon Generation
Project Title: PRJ - Ripon O&M

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	1,064,737	1,203,479	1,272,482	1,308,539	6%
Materials & Supplies	166,118	217,000	217,000	217,000	0%
Outside Services	248,294	361,400	349,370	404,370	-3%
Seminars & Meetings	6,600	0	0	0	0%
Administrative & General	32,581	45,000	55,000	55,000	22%
MID Equipment	1,217	3,000	3,000	3,000	0%
Totals	1,519,547	1,829,879	1,896,852	1,987,909	4%

Project Description: Ripon Generation Station supplies the District with up to 100 MWs of internal peak power generation from two combustion generators.

Notes: Administrative and General: Increase due to fees for permits. Outside Services: The largest expense is for the portable demin trailers which is a cost savings over on-site demineralization. This category has come down in 2020 because last year the WECC/NERC generation testing was performed (required every 5 years).

2020 O&M Budget Project Detail

Division: ELECTRIC RESOURCES DIVISION
Project Number: 3XX176

Department: 6071 McClure & Ripon Generation
Project Title: PRJ - McClure Fuel Expense

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	0	0	0	0	0%
Materials & Supplies	470,503	1,031,652	927,160	968,812	-10%
Outside Services	0	0	0	0	0%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	0	0	0	0	0%
MID Equipment	0	0	0	0	0%
Totals	470,503	1,031,652	927,160	968,812	-10%

2020 O&M Budget Project Detail

Division: ELECTRIC RESOURCES DIVISION
Project Number: 3XX181

Department: 6072 Woodland Generation
Project Title: PRJ - Woodland Fuel Expense

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	0	0	0	0	0%
Materials & Supplies	17,773,556	18,365,989	19,547,106	21,859,925	6%
Outside Services	0	0	0	0	0%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	0	0	0	0	0%
MID Equipment	0	0	0	0	0%
Totals	17,773,556	18,365,989	19,547,106	21,859,925	6%

Notes: Budget increased to better reflect actual historical costs.

2020 O&M Budget Project Detail

Division: ELECTRIC RESOURCES DIVISION
Project Number: 3XX186

Department: 6071 McClure & Ripon Generation
Project Title: PRJ - Ripon Fuel Expense

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	0	0	0	0	0%
Materials & Supplies	1,217,614	1,186,313	1,635,194	1,841,627	38%
Outside Services	0	0	0	0	0%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	0	0	0	0	0%
MID Equipment	0	0	0	0	0%
Totals	1,217,614	1,186,313	1,635,194	1,841,627	38%

Notes: Budget increased to better reflect actual historical costs.

Transmission & Distribution O&M

2020 O&M Budget Division Summary

OM - ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Prev. Budget to Current Budget
3XX200 PRJ - Transmission & Dist Admin	801,410	48,307	110,816	-277,666	129.4%
OM - 7010 OM - Electric Trans & Dist.	801,410	48,307	110,816	-277,666	129.4%
3XX210 PRJ - General Engineering	679,904	965,199	1,008,784	1,036,003	4.5%
3XX211 PRJ - Trans/Dist Planning	572,714	700,082	601,925	619,247	-14.0%
3XX212 PRJ - Trans/Dist Engineering	568,105	437,218	550,291	566,475	25.9%
3XX213 PRJ - Substation Engineering	806,686	650,975	576,977	593,544	-11.4%
3XX214 PRJ - Mapping/Records	468,271	746,862	818,001	841,347	9.5%
OM - 7020 OM - Electric Engineering	3,095,680	3,500,335	3,555,980	3,656,616	1.6%
3XX220 PRJ - Trouble General Maintenance	2,054,427	2,264,040	2,324,458	2,390,416	2.7%
3XX221 PRJ - Turn-on/Turn-off	4,716	23,943	20,393	20,943	-14.8%
3XX222 PRJ - Street Lighting	74,783	96,319	86,369	88,853	-10.3%
3XX223 PRJ - Vegetation Management	2,000,739	2,490,940	2,314,167	2,637,911	-7.1%
3XX224 PRJ - Trouble Administration	415,295	471,622	487,951	496,802	3.5%
3XX225 PRJ - Inspections	383,231	544,826	539,350	555,077	-1.0%
OM - 7052 OM - Trouble	4,933,191	5,891,691	5,772,688	6,190,001	-2.0%
3XX280 PRJ - Line Construction Admin	1,131,544	1,458,559	1,524,623	1,566,349	4.5%
3XX281 PRJ - LC Overhead Transmission	126,974	181,424	204,769	209,646	12.9%
3XX282 PRJ - LC Overhead Distrib Maint	1,169,225	1,234,133	1,236,213	1,268,989	0.2%
3XX283 PRJ - Line Construction General	934,139	1,288,039	1,319,399	1,331,115	2.4%
3XX284 PRJ - LC Underground Distribution	1,084,279	1,190,258	1,235,229	1,268,720	3.8%
3XX285 PRJ - Insulating Equipment	33,483	27,000	33,500	33,600	24.1%
OM - 7072 OM - Line Construction	4,479,644	5,379,413	5,553,733	5,678,418	3.2%
3XX250 PRJ - Substation	836,566	1,019,583	1,006,921	1,028,600	-1.2%
3XX251 PRJ - Transmission Substation	1,719,881	2,023,514	2,175,293	2,464,916	7.5%
3XX252 PRJ - Distribution Substation	3,113,850	3,097,215	3,173,309	3,684,303	2.5%
3XX253 PRJ - Maintenance of Relays	753,492	977,004	944,590	1,099,500	-3.3%

2020 O&M Budget Division Summary

OM - ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Prev. Budget to Current Budget
3XX254 PRJ - Westley Station	100,438	0	130,992	133,973	N/A
3XX255 PRJ - Westley Station CIP	12,936	0	0	0	N/A
OM - 7082 OM - Substation	6,537,162	7,117,315	7,431,105	8,411,292	4.4%
3XX260 PRJ - Meter Transformer	300,778	501,279	535,626	550,979	6.9%
3XX261 PRJ - Meter Maintenance	1,604,767	1,748,711	2,106,564	2,166,944	20.5%
3XX262 PRJ - Transformer Maintenance	203,621	266,668	261,998	269,192	-1.8%
3XX264 PRJ - LM Receiver Maintenance	7,235	51,745	20,639	21,216	-60.1%
OM - 7084 OM - Meter/Transformer	2,116,401	2,568,402	2,924,828	3,008,332	13.9%
OM - 70 OM - ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION	\$21,963,488	\$24,505,463	\$25,349,149	\$26,666,993	3.4%

2020 O&M Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 3XX200

Department: 7010 Electric Trans & Dist.
Project Title: PRJ - Transmission & Dist Admin

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	783,966	920,433	981,133	777,173	7%
Labor Vacancy	0	-879,976	-876,767	-1,061,289	0%
Materials & Supplies	1,575	2,000	950	950	-53%
Outside Services	0	250	0	0	-100%
Seminars & Meetings	12,416	2,500	3,000	3,000	20%
Administrative & General	3,105	2,600	2,000	2,000	-23%
MID Equipment	348	500	500	500	0%
Totals	801,410	48,307	110,816	-277,666	129%

Project Description: Electrical engineering, construction, maintenance, and operation of the District's electric transmission and distribution system to provide reliable energy to our customers.

Notes: Labor & Benefits: budgeted to the Organization Chart. Materials & Supplies, Outside Services, and Seminars & Meetings adjusted to anticipated cost.

2020 O&M Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 3XX210

Department: 7020 Electric Engineering
Project Title: PRJ - General Engineering

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	648,870	695,099	736,184	757,403	6%
Materials & Supplies	6,528	15,500	11,600	15,600	-25%
Outside Services	3,604	250,000	255,000	255,000	2%
Seminars & Meetings	11,862	600	6,000	6,000	900%
Administrative & General	8,859	4,000	0	2,000	-100%
MID Equipment	182	0	0	0	0%
Totals	679,905	965,199	1,008,784	1,036,003	5%

Project Description: Operations and Maintenance account to address general engineering functions, the supervision and management of T&D projects, and NERC related functions.

Notes: Materials & Supplies: decreased to more closely reflect actual expenditures. Outside Services: for off-site storage, environmental studies, and engineering consulting services, if needed. Seminars & Meetings: all budget for local training moved to this account.

2020 O&M Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 3XX211

Department: 7020 Electric Engineering
Project Title: PRJ - Trans/Dist Planning

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	534,055	698,082	601,925	619,247	-14%
Materials & Supplies	0	0	0	0	0%
Outside Services	36,700	0	0	0	0%
Seminars & Meetings	1,959	2,000	0	0	-100%
Administrative & General	0	0	0	0	0%
MID Equipment	0	0	0	0	0%
Totals	572,714	700,082	601,925	619,247	-14%

Project Description: Operations and Maintenance account to address the Transmission and Distribution Planning functions of the MID system, T&D budgeting, and NERC related functions.

Notes: Labor & Benefits: decreased due to reallocation of labor. Seminars & Meetings: local training budget moved to General Engineering 3xx210.

2020 O&M Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 3XX212

Department: 7020 Electric Engineering
Project Title: PRJ - Trans/Dist Engineering

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	491,639	411,218	526,791	541,975	28%
Materials & Supplies	1,732	500	500	500	0%
Outside Services	42,364	0	0	0	0%
Seminars & Meetings	6,934	2,500	0	0	-100%
Administrative & General	22,400	20,000	20,000	21,000	0%
MID Equipment	3,036	3,000	3,000	3,000	0%
Totals	568,105	437,218	550,291	566,475	26%

Project Description: Operations and Maintenance account to address the specific engineering functions related to equipment and construction, field support, and new business engineering.

Notes: Labor & Benefits: increased due to reallocation of labor. Seminars & Meetings: budget for local training moved to General Engineering 3xx210.

2020 O&M Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 3XX213

Department: 7020 Electric Engineering
Project Title: PRJ - Substation Engineering

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	761,637	647,175	575,177	591,744	-11%
Materials & Supplies	3,842	500	500	500	0%
Outside Services	21,690	500	500	500	0%
Seminars & Meetings	19,518	2,000	0	0	-100%
Administrative & General	0	300	300	300	0%
MID Equipment	0	500	500	500	0%
Totals	806,687	650,975	576,977	593,544	-11%

Project Description: Operations and Maintenance account to address substation engineering functions related to substation field support and maintenance of substation equipment and NERC related functions.

Notes: Labor & Benefits: decreased due to reallocation of labor. Seminars & Meetings: budget for local travel moved to General Engineering 3xx210.

2020 O&M Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 3XX214

Department: 7020 Electric Engineering
Project Title: PRJ - Mapping/Records

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	457,445	739,362	810,001	833,347	10%
Materials & Supplies	207	0	0	0	0%
Outside Services	0	0	0	0	0%
Seminars & Meetings	2,129	2,000	0	0	-100%
Administrative & General	7,834	4,000	7,000	7,000	75%
MID Equipment	656	1,500	1,000	1,000	-33%
Totals	468,271	746,862	818,001	841,347	10%

Project Description: Operations and Maintenance account to address the mapping and record keeping functions of the T&D system.

Notes: Labor & Benefits: increased due to reallocation of labor and expectation of less overtime. Seminars & Meetings: budget for local travel moved to General Engineering 3xx210. MID Equipment: decreased to more closely reflect actual usage.

2020 O&M Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 3XX220

Department: 7052 Trouble
Project Title: PRJ - Trouble General Maintenance

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	1,576,046	1,759,770	1,856,143	1,907,416	5%
Materials & Supplies	91,835	59,110	64,010	66,530	8%
Outside Services	6,880	13,000	14,000	14,500	8%
Seminars & Meetings	5,475	880	900	930	2%
Administrative & General	11,270	11,280	705	1,040	-94%
MID Equipment	362,921	420,000	388,700	400,000	-7%
Totals	2,054,427	2,264,040	2,324,458	2,390,416	3%

Project Description: This account is for tracking line patrols, NERC FAC.003-4, CPUC G.O. #165 patrols and inspections, storm duty, trouble calls, switching and general overhead and underground repairs and maintenance.

Notes: Materials & Supplies: increase due to possible rental of Trouble Truck when multiple trucks are in the shop for testing or repairs; increased cost of repairing tools and repair parts due to aging equipment; all small tools are now budgeted in this account. Outside Services: includes the cost of helicopter patrol for 230kV twice per year. A&G: includes mobile GIS and a small budget for annual avian permit renewal. MID Equipment: adjusted budget closer to actual cost.

Applicable Policy: NERC Standard FAC-003 and MID Operating Bulletins 27 and 42.

2020 O&M Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 3XX221

Department: 7052 Trouble
Project Title: PRJ - Turn-on/Turn-off

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	3,746	18,203	19,143	19,653	5%
Materials & Supplies	183	240	250	260	4%
Outside Services	0	0	0	0	0%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	0	0	0	0	0%
MID Equipment	788	5,500	1,000	1,030	-82%
Totals	4,717	23,943	20,393	20,943	-15%

Project Description: This account is used for assisting Customer Service with turn on and turn off.

Notes: MID Equipment: decreased to reflect past expenditures.

2020 O&M Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 3XX222

Department: 7052 Trouble
Project Title: PRJ - Street Lighting

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	52,985	48,019	50,799	52,253	6%
Materials & Supplies	5,698	17,400	17,900	18,400	3%
Outside Services	0	0	0	0	0%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	0	0	0	0	0%
MID Equipment	16,100	30,900	17,670	18,200	-43%
Totals	74,783	96,319	86,369	88,853	-10%

Project Description: This account is used for all street light and Dusk to Dawn light repairs and replacements.

Notes: MID Equipment: decreased to more closely reflect actual expenditures.

2020 O&M Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 3XX223

Department: 7052 Trouble
Project Title: PRJ - Vegetation Management

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	10,889	45,280	47,767	49,090	5%
Materials & Supplies	47	1,360	1,400	1,440	3%
Outside Services	1,986,339	2,434,000	2,260,000	2,582,231	-7%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	0	0	0	0	0%
MID Equipment	3,465	10,300	5,000	5,150	-51%
Totals	2,000,740	2,490,940	2,314,167	2,637,911	-7%

Project Description: This account is for tree trimming activities including the contract for Line Clearance tree trimming to ensure compliance with regulatory requirements and industry standards.

Notes: Outside Services: decreased due to current tree trimming contract. MID Equipment: decreased to more closely match actual expenditures.

Applicable Policy: NERC Standard FAC-003 and MID Operating Bulletin 37.

2020 O&M Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 3XX224

Department: 7052 Trouble
Project Title: PRJ - Trouble Administration

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	386,252	427,932	456,736	469,855	7%
Materials & Supplies	19,685	18,000	18,000	13,000	0%
Outside Services	4,121	9,700	4,530	5,000	-53%
Seminars & Meetings	541	590	610	630	3%
Administrative & General	0	0	0	0	0%
MID Equipment	4,696	15,400	8,075	8,317	-48%
Totals	415,295	471,622	487,951	496,802	3%

Project Description: This account covers Trouble Department Supervisor and Service Center Rep and FR clothing.

Notes: Outside Services: decreased to more closely match actual expenditures. Seminars & Meetings: Local UAA and ESSC meetings. MID Equipment: decreased to more closely match actual expenditures.

2020 O&M Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 3XX225

Department: 7052 Trouble
Project Title: PRJ - Inspections

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	349,981	454,986	481,671	495,497	6%
Materials & Supplies	9,666	29,840	30,679	31,780	3%
Outside Services	0	0	0	0	0%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	0	0	0	0	0%
MID Equipment	23,584	60,000	27,000	27,800	-55%
Totals	383,231	544,826	539,350	555,077	-1%

Project Description: This account is for tracking costs associated with CPUC asset inspections including Subsurface Transformers, Pad Mount Transformers, Junction Boxes and the downtown vaults. Overhead pole inspections are performed by the Troubleshooters and their labor and material is budgeted in 3XX220. This account also includes some two-man maintenance projects performed to correct items found while performing inspections.

Notes: MID Equipment: adjusted to more closely match actual cost.

Applicable Policy: CPUC General Order #165 requiring G.O. #95 and #128 compliance inspections of utility facilities on a regular and ongoing basis.

2020 O&M Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 3XX280

Department: 7072 Line Construction
Project Title: PRJ - Line Construction Admin

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	1,026,519	1,353,059	1,432,023	1,473,149	6%
Materials & Supplies	23,874	33,300	32,300	32,600	-3%
Outside Services	35,073	42,000	42,100	42,200	0%
Seminars & Meetings	18,420	500	500	500	0%
Administrative & General	16,860	16,700	2,700	2,800	-84%
MID Equipment	10,799	13,000	15,000	15,100	15%
Totals	1,131,545	1,458,559	1,524,623	1,566,349	5%

Project Description: Line Construction Administration provides overall direction and coordination of the installation and maintenance of projects and activities assigned by the Transmission and Distribution Division.

Notes: Materials & Supplies: adjusted to more closely match actual cost. MID Equipment: increased to include the vehicle for the additional Supervisor.

2020 O&M Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 3XX281

Department: 7072 Line Construction
Project Title: PRJ - LC Overhead Transmission

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	104,853	142,174	165,019	169,596	16%
Materials & Supplies	3,091	19,000	19,100	19,200	1%
Outside Services	0	0	0	0	0%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	16,544	16,750	16,650	16,750	-1%
MID Equipment	2,487	3,500	4,000	4,100	14%
Totals	126,975	181,424	204,769	209,646	13%

Project Description: Overhead Transmission Maintenance is for routine and emergency maintenance incurred on 230kV, 115kV, and 69kV overhead lines.

Notes: Labor & Benefits: increased to address possible costs. MID Equipment: adjusted to a 5-year average cost.

2020 O&M Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 3XX282

Department: 7072 Line Construction
Project Title: PRJ - LC Overhead Distrib Maint

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	1,033,569	1,089,533	1,091,113	1,121,889	0%
Materials & Supplies	68,753	71,500	74,000	75,000	3%
Outside Services	591	4,000	4,000	4,000	0%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	985	1,100	1,100	1,100	0%
MID Equipment	65,327	68,000	66,000	67,000	-3%
Totals	1,169,225	1,234,133	1,236,213	1,268,989	0%

Project Description: Overhead Distribution Maintenance is for routine and emergency maintenance incurred on 21kV, 17kV, 12kV, and low voltage overhead lines.

2020 O&M Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 3XX283

Department: 7072 Line Construction
Project Title: PRJ - Line Construction General

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	732,134	996,339	1,054,799	1,085,115	6%
Materials & Supplies	189,051	263,500	252,100	233,300	-4%
Outside Services	9,731	20,000	5,000	5,100	-75%
Seminars & Meetings	935	0	0	0	0%
Administrative & General	0	3,000	3,000	3,000	0%
MID Equipment	2,288	5,200	4,500	4,600	-13%
Totals	934,139	1,288,039	1,319,399	1,331,115	2%

Project Description: Line Construction General is for providing tools, safety equipment, training, and maintenance on equipment for the Line Construction department.

Notes: Materials & Supplies: adjusted to more closely represent anticipated costs. Outside Services: reduced because funds were transferred to 215-Repair-Outside; adjusted to more closely represent anticipated expenditures. MID Equipment: estimated closer to actual cost in previous years.

2020 O&M Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 3XX284

Department: 7072 Line Construction
Project Title: PRJ - LC Underground Distribution

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	972,655	1,033,858	1,092,029	1,122,920	6%
Materials & Supplies	53,596	82,000	84,000	85,000	2%
Outside Services	0	13,000	4,000	4,000	-69%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	24,998	24,400	27,200	28,300	11%
MID Equipment	33,029	37,000	28,000	28,500	-24%
Totals	1,084,278	1,190,258	1,235,229	1,268,720	4%

Project Description: Underground Distribution Maintenance is for routine and emergency maintenance incurred on 21kV, 17kV, 12kV, 6.9kV, and low voltage underground lines.

Notes: Labor & Benefits: increased to reflect actuals. Materials & Supplies: increase due to moving funds from Outside Services to Materials & Supplies. Outside Services: decrease due to moving funds to Materials & Supplies. A&G: increased based on actual expenses. MID Equipment: adjusted based on actual expenses.

2020 O&M Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 3XX285

Department: 7072 Line Construction
Project Title: PRJ - Insulating Equipment

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	0	0	0	0	0%
Materials & Supplies	14,305	10,000	14,000	14,000	40%
Outside Services	19,177	17,000	19,500	19,600	15%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	0	0	0	0	0%
MID Equipment	0	0	0	0	0%
Totals	33,482	27,000	33,500	33,600	24%

Project Description: Insulating Equipment is for providing rubber gloves, rubber blankets, and plastic insulating equipment for the Line Construction Department to operate the electric system safely.

Notes: Materials & Supplies and Outside Services: adjusted closer to 2018 actual cost.

2020 O&M Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 3XX250

Department: 7082 Substation
Project Title: PRJ - Substation

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	537,750	696,883	745,472	766,926	7%
Materials & Supplies	7,496	3,800	8,345	8,570	120%
Outside Services	17,147	17,400	17,200	17,200	-1%
Seminars & Meetings	4,884	800	800	800	0%
Administrative & General	264,956	291,100	225,504	225,504	-23%
MID Equipment	4,333	9,600	9,600	9,600	0%
Totals	836,566	1,019,583	1,006,921	1,028,600	-1%

Project Description: The Substation Administration office provides maintenance and project planning through the direction of substation personnel and coordination with other departments and various government entities.

Notes: Materials & Supplies: Increased due to supplies cost and purchase of Safety Glasses.

2020 O&M Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 3XX251

Department: 7082 Substation
Project Title: PRJ - Transmission Substation

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	1,217,386	1,618,014	1,568,593	1,857,416	-3%
Materials & Supplies	60,695	126,500	164,200	164,200	30%
Outside Services	417,224	265,000	420,000	420,000	58%
Seminars & Meetings	4,585	1,500	2,500	2,500	67%
Administrative & General	0	500	500	500	0%
MID Equipment	19,991	12,000	19,500	20,300	63%
Totals	1,719,881	2,023,514	2,175,293	2,464,916	8%

Project Description: The Transmission Substation Operations account manages the scheduled maintenance of all transmission equipment and transmission substations to comply with FERC/NERC regulations and associated MID Operating Bulletins.

Notes: Labor & Benefits: decrease due to reallocation of labor. Materials & Supplies: increased to more closely reflect upcoming costs for material and repairs. Outside Services: increased to include apprentice training as well as the need for outside transmission system maintenance (allows allocation of Substation personnel to Capital projects). MID Equipment: increased to more closely match actual expenditures.

2020 O&M Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 3XX252

Department: 7082 Substation
Project Title: PRJ - Distribution Substation

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	2,269,651	2,227,365	2,183,259	2,675,653	-2%
Materials & Supplies	199,843	320,350	359,650	376,850	12%
Outside Services	603,519	526,500	600,000	600,000	14%
Seminars & Meetings	1,337	1,500	1,500	1,500	0%
Administrative & General	8,087	500	500	500	0%
MID Equipment	31,413	21,000	28,400	29,800	35%
Totals	3,113,850	3,097,215	3,173,309	3,684,303	2%

Project Description: The Distribution Substation Operations account manages the scheduled maintenance of all distribution equipment and distribution substations to comply with FERC/NERC regulations and associated MID Operating Bulletins.

Notes: Labor & Benefits: changed due to reallocation of labor. Materials & Supplies: increased to reflect upcoming costs for material and repairs. Outside Services: increase due to need for outside services to allow employee availability for Capital projects. MID Equipment: increased to more closely match actual expenditures.

2020 O&M Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 3XX253

Department: 7082 Substation
Project Title: PRJ - Maintenance of Relays

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	718,710	722,204	662,890	940,800	-8%
Materials & Supplies	7,093	700	20,700	22,700	2,857%
Outside Services	10,793	243,000	250,000	125,000	3%
Seminars & Meetings	5,794	2,500	2,500	2,500	0%
Administrative & General	0	0	0	0	0%
MID Equipment	11,102	8,600	8,500	8,500	-1%
Totals	753,492	977,004	944,590	1,099,500	-3%

Project Description: The Maintenance of Relays account manages the scheduled maintenance and testing of all protective relay devices within all the Substations to stay compliant with FERC/NERC regulations and associated MID Operating Bulletins.

Notes: Labor & Benefits: changes due to reallocation of labor. Materials & Supplies: increased to purchase spare relays for critical locations. Outside Services: Outside services needed to allow employee availability for Capital Projects.

2020 O&M Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 3XX254

Department: 7082 Substation
Project Title: PRJ - Westley Station

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	132,946	0	106,192	109,173	106,192%
Materials & Supplies	24,664	0	10,000	10,000	10,000%
Outside Services	-64,839	0	9,000	9,000	9,000%
Seminars & Meetings	15	0	0	0	0%
Administrative & General	0	0	1,800	1,800	1,800%
MID Equipment	7,652	0	4,000	4,000	4,000%
Totals	100,438	0	130,992	133,973	130,992%

Project Description: The Westley Switchyard O&M account manages the scheduled maintenance of all Westley equipment/facilities to comply with FERC/NERC Regulations and associated MID Operating Bulletins

Notes: Charges for Labor, Materials, Outside Services, and Equipment not previously budgeted under this O&M number and reflect current costs for 2018. All costs to be split with TID. The credit in Outside Services reflects TID's portion of the project being removed.

2020 O&M Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 3XX260

Department: 7084 Meter/Transformer
Project Title: PRJ - Meter Transformer

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	295,725	497,629	533,176	548,529	7%
Materials & Supplies	733	1,400	1,400	1,400	0%
Outside Services	0	0	0	0	0%
Seminars & Meetings	1,006	0	0	0	0%
Administrative & General	3,023	1,450	250	250	-83%
MID Equipment	291	800	800	800	0%
Totals	300,778	501,279	535,626	550,979	7%

Project Description: Supervision of all department activities including budgeting, evaluating, coordinating, and employee development. Ensure compliance of the District Electric Service Guides and Rules and ensure compliance of the District Safety program.

2020 O&M Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 3XX261

Department: 7084 Meter/Transformer
Project Title: PRJ - Meter Maintenance

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	1,499,640	1,654,211	2,014,964	2,073,144	22%
Materials & Supplies	45,680	42,000	51,400	52,500	22%
Outside Services	8,786	9,000	9,000	9,000	0%
Seminars & Meetings	5,973	0	0	0	0%
Administrative & General	14,290	13,500	200	300	-99%
MID Equipment	30,397	30,000	31,000	32,000	3%
Totals	1,604,766	1,748,711	2,106,564	2,166,944	20%

Project Description: Maintenance of revenue metering including general field maintenance, scheduled and unscheduled field tests, shop tests, training and safety, instrument tests, and capacitor maintenance.

Notes: Labor & Benefits: increased due to reallocation of labor from Routine Capital to O&M. One Technician position reallocated from Capital to O&M. Also, some double overtime budgeted to reflect actual costs. Materials & Supplies: increased due to the addition of a budget for repairs and an increase in materials cost to better reflect actual cost. MID Equipment: increased to more closely match actual cost.

2020 O&M Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 3XX262

Department: 7084 Meter/Transformer
Project Title: PRJ - Transformer Maintenance

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	193,427	241,593	237,113	243,937	-2%
Materials & Supplies	6,462	19,375	19,385	19,655	0%
Outside Services	3,732	4,000	4,500	4,600	13%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	0	0	0	0	0%
MID Equipment	0	1,700	1,000	1,000	-41%
Totals	203,621	266,668	261,998	269,192	-2%

Project Description: Used for maintenance of distribution transformer including oil disposal and tracking - testing and repair.

Notes: Outside Services: increase in lab fees for testing oil in transformers. MID Equipment: decreased to more closely match actual costs.

2020 O&M Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 3XX264

Department: 7084 Meter/Transformer
Project Title: PRJ - LM Receiver Maintenance

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	7,267	50,520	20,139	20,716	-60%
Materials & Supplies	-32	1,025	300	300	-71%
Outside Services	0	0	0	0	0%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	0	0	0	0	0%
MID Equipment	0	200	200	200	0%
Totals	7,235	51,745	20,639	21,216	-60%

Project Description: Install and maintain receivers for the Shave The Energy Peak (STEP) programs. Interact with customers requesting STEP or those with questions or problems.

Notes: Labor & Benefits: reduced due to a reallocation of labor. Materials & Supplies: adjusted to more closely reflect actual spending.

Water Operations

O&M

2020 O&M Budget Division Summary

OM - WATER OPERATIONS DIVISION

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Prev. Budget to Current Budget
3XX400 PRJ - Water Operations Admin	309,223	309,913	293,811	302,360	-5.2%
3XX401 PRJ - Water Rights	460,413	756,090	650,000	669,500	-14.0%
3XX403 PRJ - Irrigation System Improvements	184,987	550,000	566,500	583,495	3.0%
3XX420 PRJ - LaGrange Water System	85,014	150,000	500,000	515,000	233.3%
OM - 8010 OM - Water Operations Department	1,039,637	1,766,003	2,010,311	2,070,355	13.8%
3XX410 PRJ - Civil Engineering	838,657	977,664	1,072,675	1,103,605	9.7%
3XX411 PRJ - Surveying	369,034	525,388	530,672	545,965	1.0%
3XX412 PRJ - Conservation Improvements	113,460	150,028	176,492	181,755	17.6%
3XX413 PRJ - Water Measurement	30,284	126,215	39,271	40,405	-68.9%
OM - 8020 OM - Civil Engineering	1,351,435	1,779,295	1,819,109	1,871,730	2.2%
3XX421 PRJ - Water Data & Analysis	109,784	205,684	280,804	308,197	36.5%
3XX422 PRJ - Ground Water Management	33,148	127,003	192,088	197,747	51.2%
3XX423 PRJ - Don Pedro Watershed	426,140	494,025	444,442	457,490	-10.0%
OM - 8030 OM - Water Resources	569,072	826,711	917,334	963,433	11.0%
3XX430 PRJ - Irrigation Admin	456,761	496,707	527,315	542,510	6.2%
3XX440 PRJ - Irrigation Services	2,084,990	1,992,002	2,075,248	2,134,672	4.2%
3XX441 PRJ - La Grange	54,762	62,230	70,480	72,548	13.3%
3XX442 PRJ - Upper Main Canal	209,764	237,988	246,134	253,150	3.4%
3XX443 PRJ - Modesto Reservoir	175,115	204,862	208,136	214,110	1.6%
3XX444 PRJ - Pumps	634,395	698,332	726,854	748,295	4.1%
3XX450 PRJ - Laterals and Ditches	2,199,466	2,653,374	2,790,734	2,871,477	5.2%
3XX451 PRJ - Gunite	696,508	1,031,860	1,005,710	1,035,150	-2.5%
3XX452 PRJ - Irrigation Pipelines	168,454	167,389	213,239	219,455	27.4%
3XX453 PRJ - Structures	50,311	126,342	85,212	87,692	-32.6%
3XX454 PRJ - Weed & Moss Control	1,010,916	1,167,487	1,190,388	1,225,536	2.0%
3XX455 PRJ - Landscaping	161,264	253,358	270,289	278,133	6.7%

2020 O&M Budget Division Summary

OM - WATER OPERATIONS DIVISION

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Prev. Budget to Current Budget
OM - 8040 OM - Irrigation Services	<u>7,902,707</u>	<u>9,091,930</u>	<u>9,409,738</u>	<u>9,682,730</u>	3.5%
OM - 80 OM - WATER OPERATIONS DIVISION	<u><u>\$10,862,851</u></u>	<u><u>\$13,463,939</u></u>	<u><u>\$14,156,491</u></u>	<u><u>\$14,588,248</u></u>	5.1%

2020 O&M Budget Project Detail

Division: WATER OPERATIONS DIVISION
Project Number: 3XX400

Department: 8010 Water Operations Department
Project Title: PRJ - Water Operations Admin

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	291,384	528,905	560,125	576,269	6%
Labor Vacancy	0	-279,824	-295,180	-303,641	5%
Materials & Supplies	3,520	10,000	5,000	5,150	-50%
Outside Services	1,616	32,000	5,000	5,150	-84%
Seminars & Meetings	7,312	10,000	10,000	10,300	0%
Administrative & General	886	2,652	2,500	2,575	-6%
MID Equipment	4,505	6,180	6,365	6,556	3%
Totals	309,223	309,913	293,810	302,359	-5%

Project Description: Water Operations Division administrative costs.

Notes: Materials and supplies accounts for materials and supplies for the downtown Water Operations Division. Outside services accounts for use of ABS Presort for Water Operations Division mailings.

2020 O&M Budget Project Detail

Division: WATER OPERATIONS DIVISION
Project Number: 3XX401

Department: 8010 Water Operations Department
Project Title: PRJ - Water Rights

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	0	0	0	0	0%
Materials & Supplies	0	0	0	0	0%
Outside Services	350,693	650,000	500,000	515,000	-23%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	109,720	106,090	150,000	154,500	41%
MID Equipment	0	0	0	0	0%
Totals	460,413	756,090	650,000	669,500	-14%

Project Description: MID water rights protection and FERC license fisheries management.

Notes: Protection of surface water rights on the Tuolumne River, TID/MID fish studies, water rights consultant, SWRCB water rights license fees and San Joaquin Tributaries Authority annual cash call.

Applicable Policy: MID Business Plan and 1996 and 2008 FERC orders.

2020 O&M Budget Project Detail

Division: WATER OPERATIONS DIVISION
Project Number: 3XX403

Department: 8010 Water Operations Department
Project Title: PRJ - Irrigation System Improvements

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	0	0	0	0	0%
Materials & Supplies	0	0	0	0	0%
Outside Services	184,932	550,000	566,500	583,495	3%
Seminars & Meetings	55	0	0	0	0%
Administrative & General	0	0	0	0	0%
MID Equipment	0	0	0	0	0%
Totals	184,987	550,000	566,500	583,495	3%

Project Description: Irrigation system improvements.

Notes: Includes ongoing work with engineering consultants; consultant support for water modeling; legal; engineering design; environmental studies and preparations of 2020 Agricultural Water Management Plan. Generally reflects planning and implementation of Comprehensive Water Resources Management Plan and get ahead engineering.

Applicable Policy: System design & operational strategies.

2020 O&M Budget Project Detail

Division: WATER OPERATIONS DIVISION
Project Number: 3XX420

Department: 8010 Water Operations Department
Project Title: PRJ - LaGrange Water System

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	0	0	0	0	0%
Materials & Supplies	0	0	0	0	0%
Outside Services	85,014	150,000	500,000	515,000	233%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	0	0	0	0	0%
MID Equipment	0	0	0	0	0%
Totals	85,014	150,000	500,000	515,000	233%

Project Description: La Grange Domestic Water Project

Notes: Operation, maintenance and capital improvements for the agreement with TID for operation of La Grange Domestic Water Project

2020 O&M Budget Project Detail

Division: WATER OPERATIONS DIVISION
Project Number: 3XX410

Department: 8020 Civil Engineering
Project Title: PRJ - Civil Engineering

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	812,304	961,051	1,055,566	1,085,984	10%
Materials & Supplies	158	4,944	5,092	5,245	3%
Outside Services	13,669	0	0	0	0%
Seminars & Meetings	5,095	6,365	6,555	6,751	3%
Administrative & General	4,470	1,591	1,638	1,687	3%
MID Equipment	2,961	3,713	3,824	3,939	3%
Totals	838,657	977,664	1,072,675	1,103,606	10%

Project Description: Provide civil engineering design and review.

Notes: Provided civil design, review and inspection on MID irrigation projects and facilities.

Applicable Policy: In-house civil engineering design and/or review is required on all MID construction related projects in order to ensure District facilities meet applicable design performance criteria and all Local, State and Federal construction codes.

2020 O&M Budget Project Detail

Division: WATER OPERATIONS DIVISION
Project Number: 3XX411

Department: 8020 Civil Engineering
Project Title: PRJ - Surveying

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	359,390	506,299	514,645	529,457	2%
Materials & Supplies	1,193	10,609	5,000	5,150	-53%
Outside Services	2,450	3,395	3,497	3,602	3%
Seminars & Meetings	0	1,000	1,030	1,061	3%
Administrative & General	2,180	690	2,500	2,575	262%
MID Equipment	3,821	3,395	4,000	4,120	18%
Totals	369,034	525,388	530,672	545,965	1%

Project Description: Provide surveying services for Water Operations design and construction work.

Notes: Outside Services: Stanislaus County fees for filing records of surveys.

Applicable Policy: Survey is required for the design and construction of all new irrigation facilities and in acquiring rights-of-way for the placements of many of these new facilities.

2020 O&M Budget Project Detail

Division: WATER OPERATIONS DIVISION
Project Number: 3XX412

Department: 8020 Civil Engineering
Project Title: PRJ - Conservation Improvements

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	0	50,028	26,492	27,255	-47%
Materials & Supplies	0	0	0	0	0%
Outside Services	0	0	0	0	0%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	113,460	100,000	150,000	154,500	50%
MID Equipment	0	0	0	0	0%
Totals	113,460	150,028	176,492	181,755	18%

Project Description: Provide funding for private irrigation conservation improvements.

Notes: Assist MID landowners with engineering design and construction funding for irrigation conservation improvement made to landowner facilities within MID's irrigation service area.

Applicable Policy: Under MID's Irrigation Master Plan - MID has offered to assist landowners with conservation improvements made to their irrigation delivery systems.

2020 O&M Budget Project Detail

Division: WATER OPERATIONS DIVISION
Project Number: 3XX413

Department: 8020 Civil Engineering
Project Title: PRJ - Water Measurement

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	29,112	119,485	32,147	33,067	-73%
Materials & Supplies	1,172	2,652	2,732	2,814	3%
Outside Services	0	0	0	0	0%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	0	478	492	507	3%
MID Equipment	0	3,600	3,900	4,017	8%
Totals	30,284	126,215	39,271	40,405	-69%

Project Description: Canal, drain and stream flow measurement.

Notes: Water measurement is a prudent management tool to efficiently operate and control irrigation conveyance infrastructure.

Applicable Policy: Under MID's Irrigation Master Plan and applicable Federal, State and Local Regulation.

2020 O&M Budget Project Detail

Division: WATER OPERATIONS DIVISION
Project Number: 3XX421

Department: 8030 Water Resources
Project Title: PRJ - Water Data & Analysis

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	102,265	148,538	241,745	248,709	63%
Materials & Supplies	254	40,550	21,855	41,767	-46%
Outside Services	3,000	10,300	10,609	10,927	3%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	2,165	3,296	3,395	3,497	3%
MID Equipment	2,100	3,000	3,200	3,296	7%
Totals	109,784	205,684	280,804	308,196	37%

Project Description: Water Data Analysis.

Notes: Outside Services: State mandated regulatory water quality programs; laboratory costs. Material & Supplies: replacement of existing water quality and drain outflow measurement devices.

Applicable Policy: State Water Resources Control Board General Permit pertaining to the use of aquatic pesticides.

2020 O&M Budget Project Detail

Division: WATER OPERATIONS DIVISION
Project Number: 3XX422

Department: 8030 Water Resources
Project Title: PRJ - Ground Water Management

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	2,599	25,003	88,288	90,833	253%
Materials & Supplies	0	0	0	0	0%
Outside Services	30,549	100,000	100,000	103,000	0%
Seminars & Meetings	0	2,000	3,500	3,605	75%
Administrative & General	0	0	0	0	0%
MID Equipment	0	0	300	309	300%
Totals	33,148	127,003	192,088	197,747	51%

Project Description: Groundwater management in the Modesto sub-basin.

Notes: Comply with SGMA regulations. Increase in staff hours due to additional time spent on GSP development and coordination meetings.

Applicable Policy: Memorandum of Understanding relating to the formation and operation of the Stanislaus and Tuolumne Rivers Groundwater Basin Association Groundwater Sustainability Agency and the Sustainable Groundwater Management Act of 2014.

2020 O&M Budget Project Detail

Division: WATER OPERATIONS DIVISION
Project Number: 3XX423

Department: 8030 Water Resources
Project Title: PRJ - Don Pedro Watershed

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	330,381	330,495	242,806	249,804	-27%
Materials & Supplies	0	0	0	0	0%
Outside Services	92,433	160,000	197,700	203,631	24%
Seminars & Meetings	2,854	3,000	3,090	3,183	3%
Administrative & General	472	530	546	563	3%
MID Equipment	0	0	300	309	300%
Totals	426,140	494,025	444,442	457,490	-10%

Project Description: Management of the Tuolumne River watershed.

Notes: Outside Services: New five year contract for cloud seeding program to augment snowpack, funding the Tuolumne River Snow Survey Program, flights and misc. cooperative programs with TID/CCSF.

Applicable Policy: Executed contract between MID-TID and Weather Modification Inc for the cloud seeding and agreement between partner agencies for the Tuolumne River Snow Survey program and other miscellaneous activities within the watershed.

2020 O&M Budget Project Detail

Division: WATER OPERATIONS DIVISION
Project Number: 3XX430

Department: 8040 Irrigation Services
Project Title: PRJ - Irrigation Admin

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	439,768	481,067	509,444	524,103	6%
Materials & Supplies	1,906	1,000	2,000	2,060	100%
Outside Services	5,847	3,500	6,000	6,180	71%
Seminars & Meetings	3,522	4,244	4,371	4,502	3%
Administrative & General	1,557	3,183	500	515	-84%
MID Equipment	4,161	3,713	5,000	5,150	35%
Totals	456,761	496,707	527,315	542,510	6%

Project Description: Irrigation Field Services Department administrative costs.

Notes: Outside services: increase is associated with increased use of ABS Presort to cover department mailings.

Applicable Policy: Water Operations Division mission statement.

2020 O&M Budget Project Detail

Division: WATER OPERATIONS DIVISION
Project Number: 3XX440

Department: 8040 Irrigation Services
Project Title: PRJ - Irrigation Services

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	1,989,264	1,871,666	1,980,564	2,037,148	6%
Materials & Supplies	3,330	5,305	5,464	5,628	3%
Outside Services	3,750	0	0	0	0%
Seminars & Meetings	1,480	5,800	5,974	6,153	3%
Administrative & General	28,414	37,132	23,246	23,943	-37%
MID Equipment	58,752	72,100	60,000	61,800	-17%
Totals	2,084,990	1,992,003	2,075,248	2,134,672	4%

Project Description: Allocation of labor and other costs of the Ditchtenders, Night Tenders, and Irrigation Supervisors.

Notes: A&G: includes electrical charges for Woodland/Waterford offices.

2020 O&M Budget Project Detail

Division: WATER OPERATIONS DIVISION
Project Number: 3XX441

Department: 8040 Irrigation Services
Project Title: PRJ - La Grange

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	16,331	30,740	32,532	33,462	6%
Materials & Supplies	1,631	4,532	2,500	2,575	-45%
Outside Services	33,520	26,523	35,000	36,050	32%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	0	0	0	0	0%
MID Equipment	3,281	435	448	461	3%
Totals	54,763	62,230	70,480	72,548	13%

Project Description: La Grange Diversion Dam operational costs.

Notes: Material & Supplies: tunnel gate parts and controls. Outside Services: costs for the dam inspection fees and TID charges related to operation and maintenance of La Grange Diversion Dam. Outside services increased due to TID charges.

Applicable Policy: Water Operations Division mission statement.

2020 O&M Budget Project Detail

Division: WATER OPERATIONS DIVISION
Project Number: 3XX442

Department: 8040 Irrigation Services
Project Title: PRJ - Upper Main Canal

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	188,901	205,339	217,104	223,250	6%
Materials & Supplies	340	5,436	1,000	1,030	-82%
Outside Services	0	1,030	1,061	1,093	3%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	7,114	8,240	8,487	8,742	3%
MID Equipment	13,409	17,943	18,481	19,035	3%
Totals	209,764	237,988	246,133	253,150	3%

Project Description: Costs of operation and maintenance and repairs of the Modesto Upper Main Canal which runs from La Grange Diversion Dam to the Modesto Reservoir.

Notes: A&G: electricity and remote monitoring for Morton Fill. Material & Supplies: canal construction materials. Outside Services: Morton Fill flow table update.

Applicable Policy: Modesto Irrigation District business plan.

2020 O&M Budget Project Detail

Division: WATER OPERATIONS DIVISION
Project Number: 3XX443

Department: 8040 Irrigation Services
Project Title: PRJ - Modesto Reservoir

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	157,239	178,287	182,916	188,133	3%
Materials & Supplies	122	2,575	500	515	-81%
Outside Services	0	0	0	0	0%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	9,678	12,000	12,360	12,731	3%
MID Equipment	8,077	12,000	12,360	12,731	3%
Totals	175,116	204,862	208,136	214,110	2%

Project Description: Accounts for the costs of operation and maintenance of Modesto Reservoir.

Notes: Modesto Reservoir is vital for regulation of water flows that result from electric generation in addition to servicing MID's irrigation and domestic water customers. A&G: costs account for the remote monitoring telephone for the reservoir tender, electricity and dam permit fees.

Applicable Policy: Modesto Irrigation District business plan.

2020 O&M Budget Project Detail

Division: WATER OPERATIONS DIVISION
Project Number: 3XX444

Department: 8040 Irrigation Services
Project Title: PRJ - Pumps

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	214,123	265,096	280,621	288,674	6%
Materials & Supplies	44,221	55,000	56,650	58,350	3%
Outside Services	7,750	10,661	10,981	11,310	3%
Seminars & Meetings	56	2,575	2,652	2,732	3%
Administrative & General	356,834	350,000	360,500	371,315	3%
MID Equipment	11,411	15,000	15,450	15,914	3%
Totals	634,395	698,332	726,854	748,295	4%

Project Description: Accounts for the operation and maintenance of MID's numerous irrigation and drainage wells.

Notes: Outside Services: costs for contractors, pump removal and performance of routine pump diagnostics. A&G: power costs and mobile telephone for pump crew. Material & Supplies: fuses, bearings, misc maintenance materials. Seminars and Meetings to cover professional development for pump crews.

Applicable Policy: Modesto Irrigation District business plan.

2020 O&M Budget Project Detail

Division: WATER OPERATIONS DIVISION
Project Number: 3XX450

Department: 8040 Irrigation Services
Project Title: PRJ - Laterals and Ditches

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	1,680,421	2,082,930	2,214,177	2,277,623	6%
Materials & Supplies	243,237	247,200	254,616	262,254	3%
Outside Services	86,331	75,000	77,250	79,568	3%
Seminars & Meetings	1,359	5,000	5,150	5,305	3%
Administrative & General	16,271	22,000	11,660	12,010	-47%
MID Equipment	171,846	221,244	227,881	234,717	3%
Totals	2,199,465	2,653,374	2,790,734	2,871,477	5%

Project Description: Accounts for the operation and maintenance of the MID irrigation conveyance system below Modesto Reservoir.

Notes: Outside Services: tree trimming, uniform service, right-of-way debris removal and syphon cleaning. A&G: debris dump fees and electricity for remote gates.

Applicable Policy: Water Operations Division mission statement.

2020 O&M Budget Project Detail

Division: WATER OPERATIONS DIVISION
Project Number: 3XX451

Department: 8040 Irrigation Services
Project Title: PRJ - Gunitite

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	291,317	491,110	519,710	534,570	6%
Materials & Supplies	375,941	489,250	450,000	463,500	-8%
Outside Services	816	5,150	1,000	1,030	-81%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	0	0	0	0	0%
MID Equipment	28,435	46,350	35,000	36,050	-24%
Totals	696,509	1,031,860	1,005,710	1,035,150	-3%

Project Description: Accounts for the costs associated with concrete re-surfacing of the MID canal lining.

Notes: Material & Supplies: Construction materials, miscellaneous parts and equipment rental.

Applicable Policy: Water Operations Division mission statement.

2020 O&M Budget Project Detail

Division: WATER OPERATIONS DIVISION
Project Number: 3XX452

Department: 8040 Irrigation Services
Project Title: PRJ - Irrigation Pipelines

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	96,843	126,601	133,995	137,834	6%
Materials & Supplies	64,615	26,162	65,000	66,950	148%
Outside Services	3,767	4,120	4,244	4,371	3%
Seminars & Meetings	423	0	5,000	5,150	5,000%
Administrative & General	0	0	0	0	0%
MID Equipment	2,806	10,506	5,000	5,150	-52%
Totals	168,454	167,389	213,239	219,455	27%

Project Description: Accounts for the maintenance of MID irrigation pipelines.

Notes: Material & Supplies: pipe, gate parts, concrete, sand and miscellaneous materials needed for maintenance of MID pipelines. Materials and supplies increased due to need to replace deteriorating headgates with new ones.

Applicable Policy: Water Operations Division mission statement.

2020 O&M Budget Project Detail

Division: WATER OPERATIONS DIVISION
Project Number: 3XX453

Department: 8040 Irrigation Services
Project Title: PRJ - Structures

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	35,179	80,580	60,026	61,750	-26%
Materials & Supplies	11,236	23,340	15,000	15,450	-36%
Outside Services	1,055	10,300	5,000	5,150	-51%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	2,016	2,122	2,186	2,252	3%
MID Equipment	825	10,000	3,000	3,090	-70%
Totals	50,311	126,342	85,212	87,692	-33%

Project Description: Accounts for the maintenance of irrigation structures such as weirs, gates, drains and diversion points.

Notes: Materials & Supplies: gates, misc. metals and concrete structures. Outside Services: reflects costs associated with outside SCADA integrator.

Applicable Policy: Water Operations Division mission statement.

2020 O&M Budget Project Detail

Division: WATER OPERATIONS DIVISION
Project Number: 3XX454

Department: 8040 Irrigation Services
Project Title: PRJ - Weed & Moss Control

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	236,640	325,411	344,110	353,870	6%
Materials & Supplies	744,730	800,000	800,000	824,000	0%
Outside Services	4,951	2,000	5,000	5,150	150%
Seminars & Meetings	146	2,500	2,575	2,652	3%
Administrative & General	3,986	13,000	13,390	13,792	3%
MID Equipment	20,464	24,576	25,313	26,072	3%
Totals	1,010,917	1,167,487	1,190,388	1,225,536	2%

Project Description: Costs to control terrestrial and aquatic weeds in our canals and within right of ways.

Notes: Material & Supplies: herbicides. Outside Services: increase reflects cost associated with spraytec inc maintenance of MID spray equipment.

Applicable Policy: Water Operations Division mission statement.

2020 O&M Budget Project Detail

Division: WATER OPERATIONS DIVISION
Project Number: 3XX455

Department: 8040 Irrigation Services
Project Title: PRJ - Landscaping

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	112,767	176,927	197,614	203,277	12%
Materials & Supplies	3,684	20,000	10,000	10,300	-50%
Outside Services	20,060	26,523	27,319	28,139	3%
Seminars & Meetings	0	652	672	692	3%
Administrative & General	20,174	15,000	20,000	20,600	33%
MID Equipment	4,579	14,256	14,684	15,125	3%
Totals	161,264	253,358	270,289	278,133	7%

Project Description: Costs of landscape maintenance within irrigation rights of way.

Notes: Outside Services: tree trimming. A&G: power for sprinkler systems, dump fees and licensing fees.

Applicable Policy: Water Operations Division mission statement.

Domestic Water

O&M

2020 O&M Budget Division Summary

OM - DOMESTIC WATER DIVISION

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Prev. Budget to Current Budget
3XX470 PRJ - Domestic Water Admin	623,304	860,782	795,560	819,073	-7.6%
3XX471 PRJ - Domestic Water A&G	3,183,718	3,330,660	3,266,890	3,348,252	-1.9%
3XX472 PRJ - Domestic Water Operations	3,690,788	4,423,587	4,377,825	4,506,914	-1.0%
3XX473 PRJ - Domestic Water Laboratory	437,567	498,165	516,345	531,365	3.6%
3XX474 PRJ - Domestic Water Maintenance	3,147,450	3,392,128	3,275,902	3,269,828	-3.4%
OM - 8150 OM - Modesto Domestic Water	11,082,827	12,505,322	12,232,522	12,475,431	-2.2%
OM - 81 OM - DOMESTIC WATER DIVISION	\$11,082,827	\$12,505,322	\$12,232,522	\$12,475,431	-2.2%

2020 O&M Budget Project Detail

Division: DOMESTIC WATER DIVISION
Project Number: 3XX470

Department: 8150 Modesto Domestic Water
Project Title: PRJ - Domestic Water Admin

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	275,146	384,759	407,268	419,006	6%
Labor Vacancy	0	-98,615	-106,708	-109,783	8%
Materials & Supplies	11,525	20,600	15,000	15,450	-27%
Outside Services	152,839	278,100	275,000	283,250	-1%
Seminars & Meetings	7,228	7,725	5,000	5,150	-35%
Administrative & General	176,565	268,212	200,000	206,000	-25%
MID Equipment	0	0	0	0	0%
Totals	623,303	860,781	795,560	819,073	-8%

Project Description: Modesto Regional Water Treatment Plant Administration.

Notes: Provide Management and support staff for the MRWTP. Materials & Supplies: office supplies & equipment rental; A&G: SWRCB Fees and Water Treatment Plant insurance. Outside Services: Guard at TR and anticipated miscellaneous consultant costs related to design, water quality, emergency response and health and safety.

Applicable Policy: State and Federal Water Quality Standards.

2020 O&M Budget Project Detail

Division: DOMESTIC WATER DIVISION
Project Number: 3XX471

Department: 8150 Modesto Domestic Water
Project Title: PRJ - Domestic Water A&G

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	0	0	0	0	0%
Materials & Supplies	0	0	0	0	0%
Outside Services	2,250	0	0	0	0%
Seminars & Meetings	0	0	0	0	0%
Administrative & General	3,181,468	3,330,660	3,266,890	3,348,252	-2%
MID Equipment	0	0	0	0	0%
Totals	3,183,718	3,330,660	3,266,890	3,348,252	-2%

Project Description: Administrative and General Overhead for District Support of the Modesto Regional Water Treatment Plant.

Notes: District provides services (such as HR, IT, Risk & Property) that support the plant and staff. Water Quality, emergency response, health and safety contingency fund.

Applicable Policy: State and Federal Water Quality Standards and ARTDA.

2020 O&M Budget Project Detail

Division: DOMESTIC WATER DIVISION
Project Number: 3XX472

Department: 8150 Modesto Domestic Water
Project Title: PRJ - Domestic Water Operations

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	1,353,741	1,454,333	1,599,798	1,645,905	10%
Materials & Supplies	1,287,926	1,460,304	1,504,069	1,548,832	3%
Outside Services	44,099	51,500	53,045	54,636	3%
Seminars & Meetings	13,020	15,450	15,914	16,391	3%
Administrative & General	981,154	1,442,000	1,200,000	1,236,000	-17%
MID Equipment	10,848	0	5,000	5,150	5,000%
Totals	3,690,788	4,423,587	4,377,826	4,506,914	-1%

Project Description: WTP Operating costs for chemicals, energy, and outside contracts for conventional and membrane operation.

Notes: Produce drinking water for residents of the City. Materials & Supplies: Treatment chemicals and raw water; Outside Services: Solids handling. A&G: electricity.

Applicable Policy: State and Federal Drinking Water Standards.

2020 O&M Budget Project Detail

Division: DOMESTIC WATER DIVISION
Project Number: 3XX473

Department: 8150 Modesto Domestic Water
Project Title: PRJ - Domestic Water Laboratory

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	349,451	382,025	404,575	416,235	6%
Materials & Supplies	58,146	72,000	72,000	74,160	0%
Outside Services	18,983	25,750	25,000	25,750	-3%
Seminars & Meetings	4,174	4,640	4,770	4,920	3%
Administrative & General	6,790	13,751	10,000	10,300	-27%
MID Equipment	23	0	0	0	0%
Totals	437,567	498,166	516,345	531,365	4%

Project Description: Modesto Regional Water Treatment Plant Laboratory.

Notes: Process control and regulatory compliance. Materials & Supplies: lab chemicals & supplies; Outside Services: contract lab services; A&G: lab certification, regulatory and permit fees.

Applicable Policy: State and Federal Drinking Water Standards and AWWA Standards.

2020 O&M Budget Project Detail

Division: DOMESTIC WATER DIVISION
Project Number: 3XX474

Department: 8150 Modesto Domestic Water
Project Title: PRJ - Domestic Water Maintenance

	2018	2019	2020	2021	% Change
	Actual	Budget	Adopted Budget	Proposed Budget	Current Budget
Labor & Benefits	1,029,567	1,066,037	1,145,293	1,178,301	7%
Materials & Supplies	374,496	955,985	500,000	515,000	-48%
Outside Services	1,727,178	1,329,318	1,600,000	1,545,000	20%
Seminars & Meetings	1,169	10,815	10,000	10,300	-8%
Administrative & General	8,936	10,300	10,609	10,927	3%
MID Equipment	6,105	19,673	10,000	10,300	-49%
Totals	3,147,451	3,392,128	3,275,902	3,269,828	-3%

Project Description: Modesto Regional Water Treatment Plant Maintenance including additional costs for sludge disposal; spare parts.

Notes: Maintain WTP. Materials & Supplies: Parts for electric equipment; chemicals.

Applicable Policy: State and Federal water quality standards.

Information Technology Capital

2020 Capital Budget Division Summary

CAP - INFORMATION TECHNOLOGY DIVISION

Project	2020 Adopted Budget
7XX101 PRJ - Server Hardware/Software	370,000
7XX102 PRJ - Network Hardware/Software	270,000
7XX103 PRJ - Printers/Scanners/Projector	70,000
7XX119 PRJ - Comm Equip Upgrade	190,500
7XX138 PRJ - IT Security Infrastructure	243,000
720201 PRJ - Cyber Security Compliance Automation	125,000
720202 PRJ - Main Office Cell Signal Boosters	19,400
CAP - 4010 CAP - Information Technology	1,287,900
CAP - 40 CAP - INFORMATION TECHNOLOGY DIVISION	1,287,900

2020 Capital Budget Project Detail

Division: INFORMATION TECHNOLOGY DIVISION
Project Number: 7XX101

Department: 4010 Information Technology
Project Title: PRJ - Server Hardware/Software

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	370,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	370,000

Project Description	Planned replacement of computer server hardware, software and related server equipment. Systems/equipment includes servers, disk drives, memory, host bus adapters, fiber switches, Power Distribution Units and other related systems/equipment.
Project Justification	To maintain the District's technology infrastructure. Replace or upgrade equipment based on functional reliability, availability, cost-effectiveness, application requirement or redundancy. Recycle technology elsewhere in the District whenever feasible. 2020 includes replacement of end-of life equipment including the server hosting virtual servers at the backup data center, GIS/Mapping servers, File Storage servers and Financial Information System servers.
Applicable Policy	District Mission - Technology Goal.

2020 Capital Budget Project Detail

Division: INFORMATION TECHNOLOGY DIVISION
Project Number: 7XX102

Department: 4010 Information Technology
Project Title: PRJ - Network Hardware/Software

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	270,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	270,000

- Project Description** Planned replacement of network hardware and software such as routers, switches and other related equipment.
- Project Justification** Much of the District's network infrastructure is reaching end-of-life and will need to be replaced in order to maintain reliability and security. 2020 includes continued replacement of 23 end-of-life Substation network switches.
- Applicable Policy** District Mission - Technology Goal.

2020 Capital Budget Project Detail

Division: INFORMATION TECHNOLOGY DIVISION
Project Number: 7XX103

Department: 4010 Information Technology
Project Title: PRJ - Printers/Scanners/Projector

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	70,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	70,000

Project Description	Planned replacement of computer peripheral and related systems equipment. Systems/equipment includes printers, plotters, scanners, projectors and other related systems/equipment.
Project Justification	Replace or upgrade based on functional reliability, availability, cost-effectiveness, application required, or redundancy to support District operations. Recycle technology elsewhere in the District whenever feasible. In 2020, we will be replacing 15 end-of-support copier/scanner/printers and replacing conference room digital projectors with more energy efficient and reliable large format monitors.
Applicable Policy	District Mission - Technology Goal.

2020 Capital Budget Project Detail

Division: INFORMATION TECHNOLOGY DIVISION
Project Number: 7XX119

Department: 4010 Information Technology
Project Title: PRJ - Comm Equip Upgrade

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	190,500
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	190,500

Project Description	Planned routine capital replacement of small communications equipment such as low capacity microwave and telecommunication equipment.
Project Justification	To maintain the District's technology communications infrastructure. Replace or upgrade equipment based on functional reliability. 2020 includes replacement of mobile radios at Ripon Generation Plant; upgrades to the microwave link at New Hogan Dam; backup generator for the Woodland Service Center Communication Tower; replacement and expansion of fiber optic patch panels in the Primary Backup Data Centers.
Applicable Policy	District Mission - Technology Goal; Reliability; Security.

2020 Capital Budget Project Detail

Division: INFORMATION TECHNOLOGY DIVISION
Project Number: 7XX138

Department: 4010 Information Technology
Project Title: PRJ - IT Security Infrastructure

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	243,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	243,000

Project Description	Planned information security improvements and upgrades required to address ongoing and increasing security concerns and meet North American Electric Reliability Corporation (NERC) compliance requirements.
Project Justification	To maintain and upgrade the District's IT security software and hardware infrastructure as required to address both compliance and security threats to the District. The 2020 budget includes replacing multiple end-of-life NERC Critical Infrastructure Protection (CIP) electronic access control and monitoring (EACM) servers with virtualized infrastructure and replacing multiple end-of-life network firewalls at the District's Bulk Electric System (BES) substations.
Applicable Policy	District Mission - Technology Goal.

2020 Capital Budget Project Detail

Division: INFORMATION TECHNOLOGY DIVISION
Project Number: 720201

Department: 4010 Information Technology
Project Title: PRJ - Cyber Security Compliance Automation

Estimated Amount Required in Future Budget Cycles	280,000
Total Project Budget Inception to Completion	405,000

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	0
Outside Services	25,000
Seminars & Meetings	0
Administrative & General	100,000
MID Equipment	0
Totals	125,000

Project Description	Two year project to automate NERC CIP security and compliance processes. Currently, NERC CIP compliance tasks consume two full time employees, leaving little time for other high value cyber security tasks and projects. In addition, current processes are manual and therefore run the risk of human error. This project will reduce staff workload, improve security, and ensure compliance. This will free up staff to implement higher value cyber security controls.
Project Justification	As an electric utility participating in the Bulk Electric System (BES), the District must comply with NERC CIP standards. NERC CIP is designed to protect the cyber assets that control the BES and consists of 10 standards and 45 requirements. These requirements include multiple bi-weekly, monthly, quarterly and annual processes and tasks. The District's NERC CIP compliance program is based heavily on manual processes which consumes valuable staff time and presents a risk of human error.
Applicable Policy	Reliability

2020 Capital Budget Project Detail

Division: INFORMATION TECHNOLOGY DIVISION
Project Number: 720202

Department: 4010 Information Technology
Project Title: PRJ - Main Office Cell Signal Boosters

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	19,400
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	19,400

Project Description	Capital project to install two cell signal boosters in the basement and control room areas of the Main Office.
Project Justification	The District issues cell phones to employees that have critical communication needs. The downtown office building has areas where cell phone coverage is spotty, including the basement and areas around the control room, making it difficult to receive phone calls and text messages in a timely fashion. This project will add cell signal boosters to improve cell phone coverage in these areas.
Applicable Policy	Reliability and Safety

Finance

Capital

2020 Capital Budget Division Summary CAP - FINANCE DIVISION

Project	2020 Adopted Budget
720203 PRJ - Main Office Asphalt	290,000
720204 PRJ - Warehouse Roof Restoration	132,250
720205 PRJ - Cool Roof Coat	37,000
720206 PRJ - Seal MPR Exterior Deck	32,000
720207 PRJ - Woodland Service Center Storm Drainage Improvements	128,000
CAP - 5031 CAP - Buildings & Grounds	619,250
720208 PRJ - Replace Vehicle 028	150,000
720209 PRJ - Replace Vehicle 033	54,000
720214 PRJ - Replace Vehicle 140	145,000
720216 PRJ - Replace Vehicle 224	36,000
720217 PRJ - Replace Vehicle 267	40,000
720218 PRJ - Replace Vehicle 294	65,000
720219 PRJ - Replace Vehicle 369	45,000
720221 PRJ - Replace Vehicle 493	38,000
720222 PRJ - Replace Vehicle 631	500,000
720211 PRJ - Replace Vehicle 053	315,000
720212 PRJ - Replace Vehicle 060	34,000
720213 PRJ - Replace Vehicle 127	100,000
720220 PRJ - Replace Unit 414	180,000
720215 PRJ - Replace Unit 198	10,000
720210 PRJ - Truck for SS Dept 041	38,000
CAP - 5033 CAP - Fleet Maintenance	1,750,000
720223 PRJ - Power Meter	5,660
CAP - 5065 CAP - Energy Services	5,660
CAP - 50 CAP - FINANCE DIVISION	2,374,910

2020 Capital Budget Project Detail

Division: FINANCE DIVISION
Project Number: 720203

Department: 5031 Buildings & Grounds
Project Title: PRJ - Main Office Asphalt

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	290,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	290,000

Project Justification

The asphalt in our main office parking lots--main parking lot and secured parking--is past its prime. There are several locations that have potholes that require constant care and correction. Cracks also continue to form even after patching and sealing.

2020 Capital Budget Project Detail

Division: FINANCE DIVISION
Project Number: 720204

Department: 5031 Buildings & Grounds
Project Title: PRJ - Warehouse Roof Restoration

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	132,250
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	132,250

Project Justification

The warehouse roof is worn and deteriorating and has begun to form leaks. Since the roof has two different systems (one on top of another), the cost to completely replace the roof would be extremely high. If we recondition the roof now and pay for annual maintenance, the roof would have a longer life span and be covered under warranty for an additional 20 years.

2020 Capital Budget Project Detail

Division: FINANCE DIVISION
Project Number: 720205

Department: 5031 Buildings & Grounds
Project Title: PRJ - Cool Roof Coat

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	37,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	37,000

Project Justification

At the Service Center there are two metal buildings; one known as the Metal Shop and the other the Carpenter Shop. These buildings have metal roofs that have developed leaks. These roofs do not have any form of insulation or any type of heat barrier to keep the building cool. By installing a cool roof coating that also seals the roof and acts as a water barrier, we can increase the longevity of our roof and also aid in keeping staff cool in the warm summer months.

2020 Capital Budget Project Detail

Division: FINANCE DIVISION
Project Number: 720206

Department: 5031 Buildings & Grounds
Project Title: PRJ - Seal MPR Exterior Deck

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	32,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	32,000

Project Justification

The deck that surrounds the exterior of the Multi Purpose Room and is above our HR Office and Lobby has begun to deteriorate and requires a top coat be installed to ensure it can withstand rain in future years. Without treating this area we will likely experience leaks inside our facility that could potentially lead to major damage.

2020 Capital Budget Project Detail

Division: FINANCE DIVISION
Project Number: 720207

Department: 5031 Buildings & Grounds
Project Title: PRJ - Woodland Service Center Storm Drainage Improvements

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	93,150
Outside Services	34,850
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	128,000

Project Description Expansion of the existing storm drainage system at the northern most part of the Woodland Service Center storage area. This project includes extension of existing French drain, installation of manholes, and installation of three dry wells.

Project Justification The storm drainage system was originally designed to extend the French drain to the north boundary line and discharge into a small storm drain basin. However, the system was never completed. The current design concept aims to install three dry wells in lieu of constructing a basin in an effort to better utilize limited space.

2020 Capital Budget Project Detail

Division: FINANCE DIVISION
Project Number: 720208

Department: 5033 Fleet Maintenance
Project Title: PRJ - Replace Vehicle 028

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	150,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	150,000

Project Description	028 is a 2005 International 4300 Pipe Crew Truck assigned to Irrigation.
Project Justification	Vehicle will be 15 years old with approximately 135,000 miles in 2020. These vehicles get very heavy use and at the 15 year mark repair costs and shop down time climb fast. Vehicle will be replaced with like for like.
Applicable Policy	Vehicle Replacement Policy.

2020 Capital Budget Project Detail

Division: FINANCE DIVISION
Project Number: 720209

Department: 5033 Fleet Maintenance
Project Title: PRJ - Replace Vehicle 033

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	54,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	54,000

Project Description 033 is a 2005 Ford F250 2wd service body truck assigned to Substation.

Project Justification Vehicle will be 15 years old with approximately 103,300 miles in 2020. Vehicle will be replaced with like for like.

Applicable Policy Vehicle Replacement Policy.

2020 Capital Budget Project Detail

Division: FINANCE DIVISION
Project Number: 720214

Department: 5033 Fleet Maintenance
Project Title: PRJ - Replace Vehicle 140

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	145,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	145,000

Project Description 140 is a 1981 Chevrolet Flatbed Dump truck assigned to Irrigation.

Project Justification Vehicle will be 40 years old with approximately 96,000 miles in 2020. The truck was removed from service this year as its engine went out and repairs are too costly. Vehicle was previously used as a sandblasting truck. Irrigation would like to replace the truck with F550 size 4wd vehicle with service body to serve as a general construction support truck.

2020 Capital Budget Project Detail

Division: FINANCE DIVISION
Project Number: 720216

Department: 5033 Fleet Maintenance
Project Title: PRJ - Replace Vehicle 224

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	36,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	36,000

Project Description 224 is a 2005 Ford Taurus assigned to Electric Resources.

Project Justification Vehicle will be 15 years old with approximately 102,000 miles in 2020. Ideally, vehicle will be replaced with like for like. However, we are hearing that full size cars may not be readily available on the market next year so we are budgeting for a small SUV just in case.

Applicable Policy Vehicle Replacement Policy.

2020 Capital Budget Project Detail

Division: FINANCE DIVISION
Project Number: 720217

Department: 5033 Fleet Maintenance
Project Title: PRJ - Replace Vehicie 267

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	40,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	40,000

Project Description 267 is a 2005 Ford E350 Cargo Van assigned to Meter Department.

Project Justification Vehicle will be 15 years old with approximately 100,000 miles in 2020. Vehicle will be replaced with like for like.

Applicable Policy Vehicle Replacement Policy.

2020 Capital Budget Project Detail

Division: FINANCE DIVISION
Project Number: 720218

Department: 5033 Fleet Maintenance
Project Title: PRJ - Replace Vehicle 294

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	65,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	65,000

Project Description 294 is a 2005 Ford F350 4wd flatbed truck assigned to irrigation.

Project Justification Vehicle will be 15 years old with approximately 130,000 miles in 2020. Vehicle will be replaced with like for like.

Applicable Policy Vehicle Replacement Policy.

2020 Capital Budget Project Detail

Division: FINANCE DIVISION
Project Number: 720219

Department: 5033 Fleet Maintenance
Project Title: PRJ - Replace Vehicle 369

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	45,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	45,000

Project Description	369 is a 2005 Chevrolet 1/2 ton 2wd truck assigned to Fleet.
Project Justification	Vehicle will be 15 years old with approximately 83,910 miles in 2020. Vehicle will be replaced with a 1 ton truck with service body and lift gate. This will allow fleet to better service broken down vehicles in the field.
Applicable Policy	Vehicle Replacement Policy.

2020 Capital Budget Project Detail

Division: FINANCE DIVISION
Project Number: 720221

Department: 5033 Fleet Maintenance
Project Title: PRJ - Replace Vehicie 493

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	38,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	38,000

Project Description 493 is a 2005 Chevrolet 1/2 ton 4wd truck assigned to Technical Operations.

Project Justification Vehicle will be 15 years old with approximately 120,000 miles in 2020. Vehicle will be replaced with a 1/2 ton 4wd crew cab truck. This department often travels in groups of 3 or 4 and into rough terrain.

Applicable Policy Vehicle Replacement Policy.

2020 Capital Budget Project Detail

Division: FINANCE DIVISION
Project Number: 720222

Department: 5033 Fleet Maintenance
Project Title: PRJ - Replace Vehicle 631

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	500,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	500,000

Project Description	631 is a 2004 International Bucket Truck assigned to Line Construction.
Project Justification	Vehicle will be 15 years old with approximately 80,000 miles in 2020. This unit currently has 11,417 hours on it. At a 45mph conversation rate, that's equivalent to 513,765 miles. These vehicles get very heavy use and at the 15 year mark repair costs and shop down time climb fast. Vehicle will be replaced with like for like.
Applicable Policy	Vehicle Replacement Policy.

2020 Capital Budget Project Detail

Division: FINANCE DIVISION
Project Number: 720211

Department: 5033 Fleet Maintenance
Project Title: PRJ - Replace Vehicle 053

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	315,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	315,000

Project Description 053 is a 2003 International 4300 Digger assigned to Line Construction.

Project Justification Vehicle will be 17 years old with approximately 83,736 miles in 2020. This unit currently has 10,000 hrs, which converted at 45mph equals 450,000 miles. These vehicles get very heavy use and at the 15 year mark repair costs and shop down time climb fast. Vehicle will be replaced with like for like.

2020 Capital Budget Project Detail

Division: FINANCE DIVISION
Project Number: 720212

Department: 5033 Fleet Maintenance
Project Title: PRJ - Replace Vehicle 060

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	34,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	34,000

Project Description 060 is a 2010 Ford 1/2 ton extended cab 2 wheel drive truck assigned to Irrigation.

Project Justification Vehicle will be 9 years old with approximately 150,282 miles in 2020. Vehicle will be replaced with like for like.

Applicable Policy Vehicle Replacement Policy.

2020 Capital Budget Project Detail

Division: FINANCE DIVISION
Project Number: 720213

Department: 5033 Fleet Maintenance
Project Title: PRJ - Replace Vehicle 127

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	100,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	100,000

Project Description	127 is a 2007 Ford F550 truck with flatbed and cargo storage boxes assigned to the Line Construction Department.
Project Justification	Vehicle will be 13 years old with approximately 80,000 miles in 2020. However, the vehicle was just removed from service with a bad engine. This vehicle will be replaced with like for like.
Applicable Policy	Vehicle Replacement Policy does not apply yet as the truck has not hit the age or mileage limits. However, the cost to replace the engine justifies replacing the truck 2 years ahead of schedule.

2020 Capital Budget Project Detail

Division: FINANCE DIVISION
Project Number: 720220

Department: 5033 Fleet Maintenance
Project Title: PRJ - Replace Unit 414

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	180,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	180,000

Project Description 414 is a 2002 Kamatsu 15,000 lb forklift assigned to Purchasing/Material Handling.

Project Justification This lift will be 17 years old with approximately 12,500 hours in 2020. The Purchasing Department along with Line Construction is requesting we replace this lift with a 20,000 lb capacity lift so we have a piece of equipment at the Service Center that can lift the new 18,000 lb transformers.

2020 Capital Budget Project Detail

Division: FINANCE DIVISION
Project Number: 720215

Department: 5033 Fleet Maintenance
Project Title: PRJ - Replace Unit 198

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	10,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	10,000

Project Description 1995 Essick C120H Plaster Mixer

Project Justification Plaster mixer is 25 years old and beyond it's useful life. Unit will be replaced with like kind model.

2020 Capital Budget Project Detail

Division: FINANCE DIVISION
Project Number: 720210

Department: 5033 Fleet Maintenance
Project Title: PRJ - Truck for SS Dept 041

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	38,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	38,000

Project Justification

Substation hired a second Supervisor and is in need of a new vehicle for that position. This vehicle would be a 1/2 ton, 4 door truck with 4WD. The Supervisor often has to travel with multiple people, transport equipment, and get into areas that can be muddy.

2020 Capital Budget Project Detail

Division: FINANCE DIVISION
Project Number: 720223

Department: 5065 Energy Services
Project Title: PRJ - Power Meter

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	5,660
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	5,660

Project Description A PMI 330 power quality meter to replace an obsolete PMI meter.

Project Justification Energy Services requires replacement of an existing power meter as the unit has lost key functionality and the manufacturer says repair will not be feasible due to the vintage of the equipment.

Electric Resources Capital

2020 Capital Budget Division Summary

CAP - ELECTRIC RESOURCES DIVISION

Project	2020 Adopted Budget
714331 PRJ - DP Generation Upgrade	678,000
714332 PRJ - DP Project Upgrade	3,922,000
720224 PRJ - DP Tug Boat Re-Power	14,200
720225 PRJ - DP Security Fencing	31,600
720226 PRJ - DP Building Physical Security	3,800
720227 PRJ - DP Camera Upgrades	5,000
720228 PRJ - DP Housing AC Replacement	13,000
720229 PRJ - DP Cavitation Repair	237,000
720230 PRJ - DP Survey Prisms	7,100
CAP - 6068 CAP - Don Pedro	4,911,700
720231 PRJ - Ripon Chip Detectors	86,444
720232 PRJ - McClure Operation Cameras	59,506
CAP - 6071 CAP - McClure & Ripon Generation	145,950
720233 PRJ - Woodland Facilities Update	426,699
CAP - 6072 CAP - Woodland Generation	426,699
CAP - 60 CAP - ELECTRIC RESOURCES DIVISION	5,484,349

2020 Capital Budget Project Detail

Division: ELECTRIC RESOURCES DIVISION
Project Number: 710782

Department: 6068 Don Pedro
Project Title: PRJ - DP/La Grange FERC Relicense

Approved Budget in Prior Years	32,452,154
Total Project Budget Inception to Completion	32,452,154

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	0
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	0

Project Description Don Pedro FERC Relicensing project.

Project Justification Continue work on FERC Relicensing project. FERC relicensing contractor services split with TID.

2020 Capital Budget Project Detail

Division: ELECTRIC RESOURCES DIVISION
Project Number: 714331

Department: 6068 Don Pedro
Project Title: PRJ - DP Generation Upgrade

Approved Budget in Prior Years	520,900
Additional Amount Requested in Current Budget Year	678,000
Estimated Amount Required in Future Budget Cycles	29,808,000
Total Project Budget Inception to Completion	31,006,900

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	0
Outside Services	678,000
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	678,000

Project Description	Engineering studies and preliminary design for turbine/generation upgrades associated with relicensing.
Project Justification	The existing turbine/generator sets are near the end of their user lifecycles after 45 years of service. The generation equipment will need to be upgraded/replaced to continue reliable service for another 30-40 years. Delays in the FERC relicensing have pushed the schedule out for engineering design associated with repowering the Don Pedro facility.
Applicable Policy	Reliability of Power Supply, meet MID's long term resource goals, Don Pedro Operating Agreement.

2020 Capital Budget Project Detail

Division: ELECTRIC RESOURCES DIVISION
Project Number: 714332

Department: 6068 Don Pedro
Project Title: PRJ - DP Project Upgrade

Approved Budget in Prior Years	12,638,800
Additional Amount Requested in Current Budget Year	3,922,000
Estimated Amount Required in Future Budget Cycles	4,432,000
Total Project Budget Inception to Completion	20,992,800

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	0
Outside Services	3,922,000
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	3,922,000

Project Description	Necessary project upgrades associated with the aging plant for safe and continued operation of the plant. Includes power house gantry crane refurbishment, replacement of trunnion bearings, installation of new Unit #4 turbine shut off valve, recoating of penstock, etc.
Project Justification	The Don Pedro plant, tunnels and dam are 45 years old. An assessment of the facilities has revealed many areas throughout the project that must be repaired/refurbished over the next several years in order to continue safe/reliable operation for the next 30-40 years.
Applicable Policy	Reliability of Power Supply, meet MID's long term resource goals, Don Pedro Operating Agreement.

2020 Capital Budget Project Detail

Division: ELECTRIC RESOURCES DIVISION
Project Number: 720224

Department: 6068 Don Pedro
Project Title: PRJ - DP Tug Boat Re-Power

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	0
Outside Services	14,200
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	14,200

Project Description Replace tug boat diesel engine with John Deere 4045TFM85 marine engine.

Project Justification The tug boat used for floating debris mitigation is aging and is not compliant with current EPA standards.

Applicable Policy Compliance with Don Pedro FERC License. DPOC Operating Agreement.

2020 Capital Budget Project Detail

Division: ELECTRIC RESOURCES DIVISION
Project Number: 720225

Department: 6068 Don Pedro
Project Title: PRJ - DP Security Fencing

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	0
Outside Services	31,600
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	31,600

Project Description	Install new security fencing around microwave tower and tower building. Includes heavy rock drilling for fence posts and vendor costs for identifying ground grid.
Project Justification	Physical security improvements identified in FERC required security assessment.
Applicable Policy	Compliance with FERC License. DPOC Operating Agreement.

2020 Capital Budget Project Detail

Division: ELECTRIC RESOURCES DIVISION
Project Number: 720226

Department: 6068 Don Pedro
Project Title: PRJ - DP Building Physical Security

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	0
Outside Services	3,800
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	3,800

Project Description Re-key Don Pedro buildings and gate house. Replace door handles to ADA lever sets where needed.

Project Justification Physical security improvements (part of security upgrades before plant rehab).

Applicable Policy DPOC Operating Agreement

2020 Capital Budget Project Detail

Division: ELECTRIC RESOURCES DIVISION
Project Number: 720227

Department: 6068 Don Pedro
Project Title: PRJ - DP Camera Upgrades

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	0
Outside Services	5,000
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	5,000

Project Description Upgrade cameras at the power plant and add additional cameras to microwave building interior.

Project Justification Physical security improvements.

Applicable Policy FERC License. Don Pedro Operating Agreement.

2020 Capital Budget Project Detail

Division: ELECTRIC RESOURCES DIVISION
Project Number: 720228

Department: 6068 Don Pedro
Project Title: PRJ - DP Housing AC Replacement

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	0
Outside Services	13,000
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	13,000

Project Description Upgrade the current air conditioning units on 2 of the houses provided for the Don Pedro staff.

Project Justification All houses have original AC systems (early 70's vintage). This project will upgrade 2 of the houses to new Freon-free systems.

Applicable Policy Don Pedro Operating Agreement.

2020 Capital Budget Project Detail

Division: ELECTRIC RESOURCES DIVISION
Project Number: 720229

Department: 6068 Don Pedro
Project Title: PRJ - DP Cavitation Repair

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	0
Outside Services	237,000
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	237,000

Project Description Repair cavitation on turbine runner.

Project Justification Each unit is removed from service and sent to shop for extensive cavitation (welding) repair approximately every 5 years.

Applicable Policy Reliability of Power Supply. Don Pedro Operating Agreement.

2020 Capital Budget Project Detail

Division: ELECTRIC RESOURCES DIVISION
Project Number: 720230

Department: 6068 Don Pedro
Project Title: PRJ - DP Survey Prisms

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	0
Outside Services	7,100
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	7,100

Project Description Procure survey prisms.

Project Justification Improve efficiency of annual survey markers.

Applicable Policy Cost savings. Decrease ongoing labor for future annual surveys.

2020 Capital Budget Project Detail

Division: ELECTRIC RESOURCES DIVISION
Project Number: 720231

Department: 6071 McClure & Ripon Generation
Project Title: PRJ - Ripon Chip Detectors

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	75,944
Outside Services	10,500
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	86,444

Project Description Install an on-line debris monitoring system for both units at Ripon.

Project Justification The system will monitor debris in an oil system and provide early indications of component wear.

Applicable Policy Reliability of power supply.

2020 Capital Budget Project Detail

Division: ELECTRIC RESOURCES DIVISION
Project Number: 720232

Department: 6071 McClure & Ripon Generation
Project Title: PRJ - McClure Operation Cameras

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	44,506
Outside Services	15,000
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	59,506

Project Description Install and upgrade existing security camera system.

Project Justification Improve operator visibility of plant.

Applicable Policy Safety

2020 Capital Budget Project Detail

Division: ELECTRIC RESOURCES DIVISION
Project Number: 720233

Department: 6072 Woodland Generation
Project Title: PRJ - Woodland Facilities Update

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	187,999
Outside Services	238,700
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	426,699

Project Description	Update the Woodland Generation Station control room and support facilities (break room, locker room and upstairs conference room).
Project Justification	The original Woodland 1 facilities need updating to match the growth in staff and equipment that has occurred in the 26 years since originally installed.
Applicable Policy	Reliability of Electric Supply.

Transmission & Distribution Capital



2020 Capital Budget Division Summary

CAP - ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION

Project	2020 Adopted Budget
666001 PRJ - RC-Overhead Services	522,639
666002 PRJ - RC-Underground Services	314,810
666003 PRJ - RC-Overhead Pvt Lighting (9000 Lumen)	42,743
666005 PRJ - RC-Transm-Towers/Poles/Fixtures/Cond/Devices	7,756
666006 PRJ - RC-Dist-Towers/Poles/Fixtures/Cond/Devices	1,084,829
666007 PRJ - RC-Underground Conduits/Conductors/Devices	1,148,479
666008 PRJ - RC-Overhead Transformers	838,792
666009 PRJ - RC-Underground Transformers	1,708,912
7XX106 PRJ - Mountain House Development	1,552,795
7XX107 PRJ - Mountain House Substructure	1,402,924
7XX108 PRJ - Pole Relocations	817,884
7XX109 PRJ - Conduit Installations	1,179,100
7XX111 PRJ - Pole Replace/Restorations	379,696
7XX113 PRJ - Contaminated Transf. Repl.	146,199
7XX123 PRJ - Primary System Improvements	144,321
7XX130 PRJ - OH #6 Copper Replacements	1,036,675
7XX132 PRJ - UG Cable Installation	381,387
7XX139 PRJ - Cap Bank Refurbishments	334,690
719949 PRJ - 230kV Pole Painting-Joint Section	1,000,000
720234 PRJ - Mariposa B48 OH Line Extension	54,239
CAP - 7072 CAP - Line Construction	14,098,871
7XX124 PRJ - Substation Improvements	333,897
720235 PRJ - East Side 115kV Line Diff Relays	174,073
719956 PRJ - Claus Synch Scopes and Synch Check Relays	179,848
719963 PRJ - Remote Access to Substation Relays RTUs LTCs	348,861
720236 PRJ - Paradise B54 12kV OCBreaker Repl	118,023
7XX143 PRJ - Ground Grid Improvements	709,732

2020 Capital Budget Division Summary

CAP - ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION

Project	2020 Adopted Budget
7XX144 PRJ - Battery Replacements	215,562
720239 PRJ - Beard Tract Substation-SUB	5,547,469
720240 PRJ - Claus Breaker Failure Relays	261,096
720241 PRJ - Clough Breaker Failure Relays	149,277
720242 PRJ - Hershey Breaker Failure Relays	152,475
720243 PRJ - Stockton Breaker Failure Relays	211,019
720244 PRJ - Transformer Diff Relay Repl-Construction	209,303
720245 PRJ - Industrial Substation-Beard Land Acq	1,000,000
CAP - 7082 CAP - Substation	9,610,636
666012 PRJ - RC-Revenue Meter Equip	797,133
CAP - 7084 CAP - Meter/Transformer	797,133
CAP - 70 CAP - ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION	24,506,640

2020 Capital Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 666001

Department: 7072 Line Construction
Project Title: PRJ - RC-Overhead Services

	2020 Adopted Budget
Labor & Benefits	451,639
Materials & Supplies	47,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	24,000
Totals	522,639

Project Description	Total capital costs of providing service to new customers. Various accounts are used to capture the costs based on the type of service requested.
Project Justification	The provision of electric service to new residential and business development is an inherent obligation of electric utilities. This is critical to the economic vitality of the communities MID serves.
Applicable Policy	MID Business Plan; T&D Five-Year Plan; MID Service Rules; Obligation to serve

2020 Capital Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 666002

Department: 7072 Line Construction
Project Title: PRJ - RC-Underground Services

	2020 Adopted Budget
Labor & Benefits	295,810
Materials & Supplies	16,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	3,000
Totals	314,810

Project Description	Total capital costs of providing service to new customers. Various accounts are used to capture the costs based on the type of service requested.
Project Justification	The provision of electric service to new residential and business development is an inherent obligation of electric utilities. This is critical to the economic vitality of the communities that MID serves.
Applicable Policy	MID Business Plan; T&D Five-Year Plan; MID Service Rules; Obligation to serve

2020 Capital Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 666003

Department: 7072 Line Construction
Project Title: PRJ - RC-Overhead Pvt Lighting (9000 Lumen)

	2020 Adopted Budget
Labor & Benefits	30,243
Materials & Supplies	10,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	2,500
Totals	42,743

Project Description	Total capital costs of providing service to new customers. Various accounts are used to capture the costs based on the type of service requested.
Project Justification	The provision of electric service to new residential and business development is an inherent obligation of electric utilities. This is critical to the economic vitality of the communities that MID serves.
Applicable Policy	MID Business Plan; T&D Five-Year Plan; MID Service Rules; Obligation to serve.

2020 Capital Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 666005

Department: 7072 Line Construction
Project Title: PRJ - RC-Transm-Towers/Poles/Fixtures/Cond/Devices

	2020 Adopted Budget
Labor & Benefits	6,056
Materials & Supplies	1,200
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	500
Totals	7,756

Project Description	Total capital costs of providing service to new customers. Various accounts are used to capture the costs based on the type of service requested.
Project Justification	The provision of electric service to new development is an inherent obligation of electric utilities. This is critical to the economic vitality of the communities that MID serves.
Applicable Policy	MID Business Plan; T&D Five-Year Plan; MID Service Rules; Obligation to serve

2020 Capital Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 666006

Department: 7072 Line Construction
Project Title: PRJ - RC-Dist-Towers/Poles/Fixtures/Cond/Devices

	2020 Adopted Budget
Labor & Benefits	726,829
Materials & Supplies	325,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	33,000
Totals	1,084,829

Project Description	Total capital costs of providing service to new customers. Various accounts are used to capture the costs based on the type of service requested.
Project Justification	The provision of electric service to new residential and business development is an inherent obligation of electric utilities. This is critical to the economic vitality of the communities that MID serves.
Applicable Policy	MID Business Plan; T&D Five-Year Plan, MID Service Rules; Obligation to serve

2020 Capital Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 666007

Department: 7072 Line Construction
Project Title: PRJ - RC-Underground Conduits/Conductors/Devices

	2020 Adopted Budget
Labor & Benefits	698,479
Materials & Supplies	430,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	20,000
Totals	1,148,479

Project Description	Total capital costs of providing service to new customers. Various accounts are used to capture the costs based on the type of service requested.
Project Justification	This provision of electric service to new residential and business development is an inherent obligation of electric utilities. This is critical to the economic vitality of the communities that MID serves.
Applicable Policy	MID Business Plan; T&D Five-Year Plan; MID Service Rules; Obligation to serve

2020 Capital Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 666008

Department: 7072 Line Construction
Project Title: PRJ - RC-Overhead Transformers

	2020 Adopted Budget
Labor & Benefits	464,792
Materials & Supplies	350,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	24,000
Totals	838,792

Project Description	Total capital costs of providing service to new customers. Various accounts are used to capture the costs based on the type of service requested.
Project Justification	The provision of electric service to new residential and business development is an inherent obligation of electric utilities. This is critical to the economic vitality of the communities that MID serves.
Applicable Policy	MID Business Plan; T&D Five-Year Plan; MID Service Rules; Obligation to serve

2020 Capital Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 666009

Department: 7072 Line Construction
Project Title: PRJ - RC-Underground Transformers

	2020 Adopted Budget
Labor & Benefits	683,912
Materials & Supplies	1,000,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	25,000
Totals	1,708,912

Project Description	Total capital costs of providing service to new customers. Various accounts are used to capture the costs based on the type of service requested.
Project Justification	The provision of electric service to new residential and business development is an inherent obligation of electric utilities. This is critical to the economic vitality of the communities that MID serves.
Applicable Policy	MID Business Plan; T&D Five-Year Plan; MID Service Rules; Obligation to serve

2020 Capital Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 7XX106

Department: 7072 Line Construction
Project Title: PRJ - Mountain House Development

	2020 Adopted Budget
Labor & Benefits	512,795
Materials & Supplies	1,000,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	40,000
Totals	1,552,795

Project Description	Install electrical distribution system in the Mountain House community.
Project Justification	The extension of the electrical infrastructure to serve new business growth in the Mountain House community is an inherent obligation of MID.
Applicable Policy	Reliability; T&D Five-Year Plan; MID Service Rules; MID Agreement with MHCSD; Obligation to Serve

2020 Capital Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 7XX107

Department: 7072 Line Construction
Project Title: PRJ - Mountain House Substructure

	2020 Adopted Budget
Labor & Benefits	202,924
Materials & Supplies	200,000
Outside Services	1,000,000
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	1,402,924

Project Description	Install substructure facilities within the Mountain House community.
Project Justification	Installation of the infrastructure in the Mountain House community including conduits, boxes, manholes and vaults is an inherent obligation of MID.
Applicable Policy	Reliability; T&D Five-Year Plan; MID Service Rules; MID Agreement with MHCSD; Obligation to Serve

2020 Capital Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 7XX108

Department: 7072 Line Construction
Project Title: PRJ - Pole Relocations

	2020 Adopted Budget
Labor & Benefits	652,884
Materials & Supplies	150,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	15,000
Totals	817,884

Project Description	Provide labor, materials, and equipment needed to design and construct electric line relocations necessary as a result of a County or City road project conducted for the safety of the traveling public.
Project Justification	By agreement of legal staffs of City, County, and MID - MID is legally obligated to pay for City and County pole relocations when those poles are located in City or County road right of way and are needed for the safety of the traveling public.
Applicable Policy	Legal Requirement

2020 Capital Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 7XX109

Department: 7072 Line Construction
Project Title: PRJ - Conduit Installations

	2020 Adopted Budget
Labor & Benefits	524,100
Materials & Supplies	175,000
Outside Services	400,000
Seminars & Meetings	0
Administrative & General	0
MID Equipment	80,000
Totals	1,179,100

Project Description	Install conduits for direct buried primary and secondary cable throughout the District.
Project Justification	In the mid-1990's, the first round of cable injection work was performed on direct buried primary cable. Once cables are injected they cannot be injected again, therefore when the cables fail they need to be repaired or replaced. This project is to install conduits at these locations in order to replace the failed cables. This project may also address installing conduits for direct buried secondary services.
Applicable Policy	Reliability

2020 Capital Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 7XX111

Department: 7072 Line Construction
Project Title: PRJ - Pole Replace/Restorations

	2020 Adopted Budget
Labor & Benefits	339,696
Materials & Supplies	35,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	5,000
Totals	379,696

Project Description Replace or restore old wood poles which have deteriorated to the point where they can no longer safely function.

Project Justification To comply with General Order 165.

Applicable Policy Compliance with General Order 165; Public Safety.

2020 Capital Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 7XX113

Department: 7072 Line Construction
Project Title: PRJ - Contaminated Transf. Repl.

	2020 Adopted Budget
Labor & Benefits	101,199
Materials & Supplies	40,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	5,000
Totals	146,199

Project Description	From time to time distribution transformers are discovered with levels of contamination not suited for their application. These transformers are associated with a specific manufacturer during certain time periods.
Project Justification	Replacement of the transformers as they are discovered reduces the cost of transformer replacements because the work can usually be scheduled during normal District business hours. Replacements before rupture also reduces the cost of contamination clean up.
Applicable Policy	MID Business Plan (environmental protection)

2020 Capital Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 7XX123

Department: 7072 Line Construction
Project Title: PRJ - Primary System Improvements

	2020 Adopted Budget
Labor & Benefits	84,321
Materials & Supplies	50,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	10,000
Totals	144,321

Project Description	Various improvements to the primary system (12kV, 17kV, 21kV) throughout the District service territory.
Project Justification	This project is to make improvements on the distribution system that are identified and materialize throughout the year. Some of these improvements include switch installations, reframing poles, minor reconductors, and possible wildlife protection implementation. These are intended to improve system reliability and reduce outages.
Applicable Policy	Reliability; Public Safety

2020 Capital Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 7XX130

Department: 7072 Line Construction
Project Title: PRJ - OH #6 Copper Replacements

	2020 Adopted Budget
Labor & Benefits	926,675
Materials & Supplies	100,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	10,000
Totals	1,036,675

Project Description Replace #6 copper overhead primary cable with #4 ACSR overhead primary cable.

Project Justification Replace #6 copper overhead primary cable with #4 ACSR cable for reliability and safety.

Applicable Policy Reliability; Public Safety

2020 Capital Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 7XX132

Department: 7072 Line Construction
Project Title: PRJ - UG Cable Installation

	2020 Adopted Budget
Labor & Benefits	301,387
Materials & Supplies	75,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	5,000
Totals	381,387

Project Description Install underground primary cable throughout the District.

Project Justification Underground conduit systems have been installed throughout the District in years past. These conduits were installed in areas that originally had direct buried primary cable installed and may have been injected. As of today, the majority of the conduits have not been populated by new primary cable, having the original direct buried cable still providing service. This project is for the installation of new primary cable in these conduit systems.

Applicable Policy T&D Five-Year Plan; Reliability

2020 Capital Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 7XX139

Department: 7072 Line Construction
Project Title: PRJ - Cap Bank Refurbishments

	2020 Adopted Budget
Labor & Benefits	139,690
Materials & Supplies	185,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	10,000
Totals	334,690

Project Description	Replace locally controlled distribution line capacitor banks with new automated controlled capacitor banks.
Project Justification	The existing distribution system line capacitors are locally controlled and can only be interrogated in the field. This project will make the line capacitors operable from the Control Room and will improve the system reliability while reducing system losses. It will reduce field inspections and interrogations since the data and status will be accessible via SCADA. It will also be easier to identify which banks become inoperable for quicker repairs.
Applicable Policy	T&D Five-Year Plan; Reliability

2020 Capital Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 719949

Department: 7072 Line Construction
Project Title: PRJ - 230kV Pole Painting-Joint Section

Approved Budget in Prior Years	1,000,000		2020
Additional Amount Requested in Current Budget Year	1,000,000		Adopted
Estimated Amount Required in Future Budget Cycles	3,000,000		Budget
Total Project Budget Inception to Completion	5,000,000	Labor & Benefits	0
		Materials & Supplies	0
		Outside Services	1,000,000
		Seminars & Meetings	0
		Administrative & General	0
		MID Equipment	0
		Totals	1,000,000

Project Description	Paint poles and repair miscellaneous hardware issues with the Westley/Walnut/Parker 230kV transmission line. This project is for MID/TID jointly-owned poles from Westley Station to Redwood Junction. TID will manage the project for this jointly-owned section.
Project Justification	Due to large-scale corrosion issues identified on the tubular steel poles, repainting will extend the life of the Districts' assets. The project will encompass installation of scaffolding, shrink-wrapped containment, abrasive blasting, and coating with a three-coat paint system with a 30-year life expectancy and a 10-year warranty. The painting work will be performed by a contractor. Any necessary pole line hardware repairs discovered as part of the project will be performed as part of this project.
Applicable Policy	T&D Five-Year Plan

2020 Capital Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 720234

Department: 7072 Line Construction
Project Title: PRJ - Mariposa B48 OH Line Extension

	2020 Adopted Budget
Labor & Benefits	43,239
Materials & Supplies	10,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	1,000
Totals	54,239

Project Description	Extend the existing overhead Mariposa B48 circuit east along Leckron Road with 636 AA wire.
Project Justification	Due to the continued growth and lack of offload options in the southeast part of the industrial tract, the Mariposa B48 line extension is needed to improve the Claus and Mariposa substation contingencies and the Claus B48 feeder contingency. Reliability is key for this area because the majority of the load is industrial.
Applicable Policy	T&D Five-Year Plan; Reliability

2020 Capital Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 7XX124

Department: 7082 Substation
Project Title: PRJ - Substation Improvements

	2020 Adopted Budget
Labor & Benefits	178,897
Materials & Supplies	151,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	4,000
Totals	333,897

Project Description	Improvements to various substation equipment that experience unexpected failures.
Project Justification	Substation equipment throughout the District experience unexpected failures throughout the year that cannot be captured within the planned replacement process, such as circuit breakers, substation batteries, LTC controllers, and capacitor banks, which must be capitalized.
Applicable Policy	Reliability

2020 Capital Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 720235

Department: 7082 Substation
Project Title: PRJ - East Side 115kV Line Diff Relays

	2020 Adopted Budget
Labor & Benefits	139,493
Materials & Supplies	34,580
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	174,073

Project Description	Install line current differential relays on the Standiford-Claus and Standiford-Santa Cruz 115kV lines.
Project Justification	The Standiford-Claus and Standiford-Santa Cruz 115kV lines are Bulk Electric System lines and do not have high-speed tripping. NERC PRC-004 violations will be avoided. The proposed current differential relays would provide high-speed tripping, easier coordination, and reclosing functionality. With high-speed tripping, less stress exists on the 69kV and 115kV systems and higher reliability is achieved. The East Side Fiber Ring 7 was partly justified by the high-speed protection needs.
Applicable Policy	T&D Five-Year Plan; Reliability; NERC Compliance

2020 Capital Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 719956

Department: 7082 Substation
Project Title: PRJ - Claus Synch Scopes and Synch Check Relays

Approved Budget in Prior Years	204,895			2020	
Additional Amount Requested in Current Budget Year	179,848			Adopted	
Total Project Budget Inception to Completion	384,743			Budget	
		Labor & Benefits		168,848	
		Materials & Supplies		0	
		Outside Services		7,000	
		Seminars & Meetings		0	
		Administrative & General		0	
		MID Equipment		4,000	
		Totals		179,848	

Project Description	Install Synch Scopes and Synch-Check Relays at Claus Substation on the 69kV system.
Project Justification	Allow Dispatch to synch the 69kV system at various locations when systems are islanded or separated. This allows Dispatch to synch possible islands and possible large separations of the system without dropping substation loads. Power Operations requested this project as part of their annual system assessment.
Applicable Policy	Reliability

2020 Capital Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 719963

Department: 7082 Substation
Project Title: PRJ - Remote Access to Substation Relays RTUs LTCs

Approved Budget in Prior Years	684,706			2020
Additional Amount Requested in Current Budget Year	348,861			Adopted
Estimated Amount Required in Future Budget Cycles	335,087			Budget
Total Project Budget Inception to Completion	1,368,654			<hr/>
		Labor & Benefits	299,461	
		Materials & Supplies	9,000	
		Outside Services	40,400	
		Seminars & Meetings	0	
		Administrative & General	0	
		MID Equipment	0	
		Totals	<hr/> 348,861	

Project Description	Add remote access for all Substation Relays, Remote Terminal Units (RTUs), and Load Tap Changers (LTCs) and add Satellite-Synchronized Clocks at each station for these devices.
Project Justification	Establishing remote access to these devices will provide event records, fault locations, access to equipment settings and the ability to troubleshoot problems remotely. Currently, in order to obtain this information, Substation personnel must physically go to the Substation in question and manually collect the information. Having remote access will allow for immediate access to greater details during an event. This will improve the reliability on the system and eliminate the need to send personnel on site to obtain the information. The clocks are needed to analyze the correct operation of protective relays, breakers, LTCs, communication equipment, generators, and capacitors during faults and disturbances. The relays and RTUs will all be on the same time so multiple event reports can be analyzed concurrently. All utilities have their intertie substations with their relays and RTUs on satellite clocks for proper synchronization of events.
Applicable Policy	Reliability

2020 Capital Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 720236

Department: 7082 Substation
Project Title: PRJ - Paradise B54 12kV OCBreaker Repl

	2020 Adopted Budget
Labor & Benefits	77,023
Materials & Supplies	36,000
Outside Services	5,000
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	118,023

Project Description	Removal of existing 12kV oil circuit breaker B54 at Paradise Substation and replacing it with a newer technology vacuum circuit breaker.
Project Justification	The circuit breaker has come towards the end of its useful life. It has a history of ongoing and repetitive issues. Maintaining it has become increasingly difficult and spare parts are obsolete or unavailable.
Applicable Policy	Reliability; T&D Five-Year Plan

2020 Capital Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 7XX143

Department: 7082 Substation
Project Title: PRJ - Ground Grid Improvements

	2020 Adopted Budget
Labor & Benefits	395,657
Materials & Supplies	314,075
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	709,732

Project Description	This project will address the recommendation of ground grid evaluation - such as crushed rocks, installation and bonding of ground mat, bonding of fences, providing isolation between MID and non-MID fences, replacement of damaged grounding conductors, use of effective connectors, etc.
Project Justification	Ground grids have not been evaluated since they were built. This project will reinforce the effectiveness of the existing ground grids inside the substation. It will help to eliminate any potential hazards for employees and the public.
Applicable Policy	Public Safety; T&D Five-Year Plan

2020 Capital Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 7XX144

Department: 7082 Substation
Project Title: PRJ - Battery Replacements

	2020 Adopted Budget
Labor & Benefits	149,962
Materials & Supplies	65,600
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	215,562

Project Description	Remove existing valve regulated lead acid (VRLA) and nickel cadmium (NiCd) batteries and replace them with new, vented lead acid (VLA) batteries at various substations.
Project Justification	Some VLRA batteries in MID substations have failed load tests. They have been known to fail abruptly. VRLA batteries also have passed their useful life. NiCd batteries have been known to have discharge issues and thermal runaway. Characteristics of both types of batteries make them unpredictable and unreliable and they will be replaced by VLA batteries. Batteries are a critical component of substations for proper and safe operation.
Applicable Policy	Reliability; T&D Five-Year Plan; Public Safety

2020 Capital Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 720239

Department: 7082 Substation
Project Title: PRJ - Beard Tract Substation-SUB

Estimated Amount Required in Future Budget Cycles	2,205,015		2020
Total Project Budget Inception to Completion	7,752,484		Adopted
			Budget
		Labor & Benefits	159,469
		Materials & Supplies	1,078,000
		Outside Services	4,310,000
		Seminars & Meetings	0
		Administrative & General	0
		MID Equipment	0
		Totals	5,547,469

Project Description	Build a new substation containing (1) 69/12kV 12 MVA transformer with (4) 12kV feeders and (1) 12kV 3.6MVAR cap bank.
Project Justification	A new substation is proposed in the Beard Industrial Tract area due to projected large load growth. This load growth will cause station contingency overload issues for both the Claus and Mariposa substations. New industrial customer load has materialized and additional load is projected in the near future. This new substation will address Claus/Mariposa station and feeder contingency issues. The new substation will also supply any new customer load in the area.
Applicable Policy	Reliability; T&D Five-Year Plan

2020 Capital Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 720240

Department: 7082 Substation
Project Title: PRJ - Claus Breaker Failure Relays

	2020 Adopted Budget
Labor & Benefits	41,596
Materials & Supplies	14,500
Outside Services	204,000
Seminars & Meetings	0
Administrative & General	0
MID Equipment	1,000
Totals	261,096

Project Description Install breaker failure relays at Claus Substation.

Project Justification There are unprotected zones of protection during breaker failure scenarios which could cause major equipment damage. There are also long clearing times during other breaker failure scenarios that would negatively affect generation and customers. By installing breaker failure relays, the unprotected zones are now protected and the long clearing times are significantly reduced.

Applicable Policy Reliability; T&D Five-Year Plan; Safety

2020 Capital Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 720241

Department: 7082 Substation
Project Title: PRJ - Clough Breaker Failure Relays

	2020 Adopted Budget
Labor & Benefits	32,277
Materials & Supplies	8,000
Outside Services	108,000
Seminars & Meetings	0
Administrative & General	0
MID Equipment	1,000
Totals	149,277

Project Description Install breaker failure relays at Clough Substation.

Project Justification There are unprotected zones of protection during breaker failure scenarios which could cause major equipment damage. There are also long clearing times during other breaker failure scenarios that would negatively affect generation and customers. By installing breaker failure relays, the unprotected zones are now protected and the long clearing times are significantly reduced.

Applicable Policy Reliability; T&D Five-Year Plan; Safety

2020 Capital Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 720242

Department: 7082 Substation
Project Title: PRJ - Hershey Breaker Failure Relays

	2020 Adopted Budget
Labor & Benefits	41,825
Materials & Supplies	13,150
Outside Services	96,000
Seminars & Meetings	0
Administrative & General	0
MID Equipment	1,500
Totals	152,475

Project Description	Install breaker failure relays at Hershey Substation, radio communication from Hershey to Parker, and fiber communication from Parker to Claus.
Project Justification	There are unprotected zones of protection during breaker failure scenarios which could cause major equipment damage. There are also long clearing times during other breaker failure scenarios that would negatively affect generation and customers. By installing breaker failure relays, the unprotected zones are now protected and the long clearing times are significantly reduced.
Applicable Policy	Reliability; T&D Five-Year Plan; Safety

2020 Capital Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 720243

Department: 7082 Substation
Project Title: PRJ - Stockton Breaker Failure Relays

	2020 Adopted Budget
Labor & Benefits	43,769
Materials & Supplies	10,250
Outside Services	156,000
Seminars & Meetings	0
Administrative & General	0
MID Equipment	1,000
Totals	211,019

Project Description Install breaker failure relays at Stockton Substation.

Project Justification There are unprotected zones of protection during breaker failure scenarios which could cause major equipment damage. There are also long clearing times during other breaker failure scenarios that would negatively affect generation and customers. By installing breaker failure relays, the unprotected zones are now protected and the long clearing times are significantly reduced.

Applicable Policy Reliability; T&D Five-Year Plan; Safety

2020 Capital Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 720244

Department: 7082 Substation
Project Title: PRJ - Transformer Diff Relay Repl-Construction

	2020 Adopted Budget
Labor & Benefits	175,223
Materials & Supplies	34,080
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	209,303

Project Description	Replace the existing electromechanical transformer differential relay with a microprocessor transformer differential relay.
Project Justification	The existing transformer differential relays have de-sensitizing circuits and built-in time delays. The goal is to eliminate potential personnel safety issues and improve reliability.
Applicable Policy	Reliability; T&D Five-Year Plan; Safety

2020 Capital Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 720245

Department: 7082 Substation
Project Title: PRJ - Industrial Substation-Beard Land Acq

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	1,000,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	1,000,000

Project Description	Purchase land to construct a new substation in the Beard Industrial Tract area.
Project Justification	A new substation is proposed in the Beard Industrial Tract area due to projected large load growth. This load growth will cause station contingency overload issues for both the Claus and Mariposa substations. New industrial customer load has materialized and additional load is projected in the near future. This new substation will address Claus/Mariposa station and feeder contingency issues. The new substation will also supply any new customer load in the area.
Applicable Policy	T&D Five-Year Plan; Reliability; Obligation to Serve

2020 Capital Budget Project Detail

Division: ELECTRIC TRANSMISSION AND DISTRIBUTION DIVISION
Project Number: 666012

Department: 7084 Meter/Transformer
Project Title: PRJ - RC-Revenue Meter Equip

	2020 Adopted Budget
Labor & Benefits	85,133
Materials & Supplies	710,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	2,000
Totals	797,133

Project Description	Total capital costs of providing service to new customers. Various accounts are used to capture the costs based on the type of service requested.
Project Justification	The provision of electric service to new residential and business development is an inherent obligation of electric utilities. This is critical to the economic vitality of the communities that MID serves. Materials include meters for new installs and replacements, intertie meters, isolation relays and rotary switches, APs and relays, and SEL equipment for NERC compliance. Expected increase in home building and increase in meter failures as we approach end of life for the meters.
Applicable Policy	MID Business Plan; T&D Five-Year Plan; MID Service Rules; Obligation to serve.

Water Operations

Capital

2020 Capital Budget Division Summary

CAP - WATER OPERATIONS DIVISION

Project	2020 Adopted Budget
7XX114 PRJ - Don Pedro Recreation Agency	229,592
CAP - 8010 CAP - Water Operations	229,592
7XX125 PRJ - Waterford Lower Main Lining	72,060
7XX126 PRJ - SCADA Automation	150,000
7XX115 PRJ - District Pipeline Repl	449,183
7XX116 PRJ - Pump Modernization	546,289
7XX118 PRJ - Overpour Weirs	224,883
7XX137 PRJ - Measuring Gate Calibration	61,299
CAP - 8040 CAP - Irrigation Services	1,503,715
CAP - 80 CAP - WATER OPERATIONS DIVISION	1,733,307

2020 Capital Budget Project Detail

Division: WATER OPERATIONS DIVISION
Project Number: 7XX114

Department: 8010 Water Operations Department
Project Title: PRJ - Don Pedro Recreation Agency

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	0
Outside Services	229,592
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	229,592

Project Description	MID portion of the capital budget for the Don Pedro Recreation Agency.
Project Justification	Don Pedro Recreation Agency Operating Agreement specifies that MID, Turlock Irrigation District and the City and County of San Francisco share in the operating expenses or capital improvements. MID's share is 15.23%. Increase due to \$1 million Swimming Lagoon Filtration.
Applicable Policy	Don Pedro Recreation Agency Operating Agreement - MID Board Resolution 87-164

2020 Capital Budget Project Detail

Division: WATER OPERATIONS DIVISION
Project Number: 7XX125

Department: 8040 Irrigation Services
Project Title: PRJ - Waterford Lower Main Lining

	2020 Adopted Budget
Labor & Benefits	37,060
Materials & Supplies	35,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	72,060

Project Description The Waterford Lower Main Lining Project is an ongoing effort to concrete line the entire length of the Waterford Lower Main Canal.

Project Justification Concrete lining may reduce seepage.

2020 Capital Budget Project Detail

Division: WATER OPERATIONS DIVISION
Project Number: 7XX126

Department: 8040 Irrigation Services
Project Title: PRJ - SCADA Automation

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	75,000
Outside Services	75,000
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	150,000

Project Description Completion of critical SCADA site upgrades and new installations in accordance with CWRMP.

Project Justification Consistent with CWRMP.

2020 Capital Budget Project Detail

Division: WATER OPERATIONS DIVISION
Project Number: 7XX115

Department: 8040 Irrigation Services
Project Title: PRJ - District Pipeline Repl

	2020 Adopted Budget
Labor & Benefits	204,183
Materials & Supplies	240,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	5,000
Totals	449,183

Project Description Replacement of aging MID irrigation pipeline conveyance infrastructure.

Project Justification Pipelines must be replaced to ensure proper operation and conveyance of irrigation water.

2020 Capital Budget Project Detail

Division: WATER OPERATIONS DIVISION
Project Number: 7XX116

Department: 8040 Irrigation Services
Project Title: PRJ - Pump Modernization

	2020 Adopted Budget
Labor & Benefits	25,289
Materials & Supplies	52,000
Outside Services	464,000
Seminars & Meetings	0
Administrative & General	0
MID Equipment	5,000
Totals	546,289

Project Description	Pump rehabilitation and modernization generally consistent with recommendations presented in 2007 Wellfield Optimization Project.
Project Justification	Necessary to ensure optimum operational efficiency.

2020 Capital Budget Project Detail

Division: WATER OPERATIONS DIVISION
Project Number: 7XX118

Department: 8040 Irrigation Services
Project Title: PRJ - Overpour Weirs

	2020 Adopted Budget
Labor & Benefits	106,883
Materials & Supplies	105,000
Outside Services	8,000
Seminars & Meetings	0
Administrative & General	0
MID Equipment	5,000
Totals	224,883

Project Description	Modernization as determined necessary by Irrigation Field Services and Civil Engineering. Includes \$15,000 for purchase and installation of Sontek device.
Project Justification	Accurate flow measurement and control allows for improved water management and conservation.

2020 Capital Budget Project Detail

Division: WATER OPERATIONS DIVISION
Project Number: 7XX137

Department: 8040 Irrigation Services
Project Title: PRJ - Measuring Gate Calibration

	2020 Adopted Budget
Labor & Benefits	31,299
Materials & Supplies	30,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	61,299

Project Description Staff is proposing continued allocation of funds associated with compliance with the water measurement component of SBx7-7. This is only a stop gap measure until a long-term comprehensive compliance plan and funding is approved by the Board.

Project Justification Water Measurement Regulation.

Domestic Water

Capital

2020 Capital Budget Division Summary

CAP - DOMESTIC WATER DIVISION

Project	2020 Adopted Budget
720246 PRJ - Lab - Spectrophotometer	25,000
720247 PRJ - PSP Replacement	90,000
720248 PRJ - Filter Effluent Valve Actuators	25,000
720249 PRJ - Membrane Valve Actuators	125,000
720250 PRJ - Switchgear Upgrade	400,000
720251 PRJ - MEM Blower	300,000
CAP - 8150 CAP - Modesto Domestic Water	965,000
CAP - 81 CAP - DOMESTIC WATER DIVISION	965,000

2020 Capital Budget Project Detail

Division: DOMESTIC WATER DIVISION
Project Number: 720246

Department: 8150 Modesto Domestic Water
Project Title: PRJ - Lab - Spectrophotometer

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	25,000
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	25,000

Project Description UV-VIS Spectrophotometer. Direct replacement of current equipment past its life cycle.

Project Justification Process control and regulatory compliance. Operation of Phase Two plant.

Applicable Policy State and Federal Drinking Water Standards and AWWA Standards.

2020 Capital Budget Project Detail

Division: DOMESTIC WATER DIVISION
Project Number: 720247

Department: 8150 Modesto Domestic Water
Project Title: PRJ - PSP Replacement

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	45,000
Outside Services	45,000
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	90,000

Project Description Replacement of 3 plant service pumps.

Project Justification Equipment at end of life cycle.

2020 Capital Budget Project Detail

Division: DOMESTIC WATER DIVISION
Project Number: 720248

Department: 8150 Modesto Domestic Water
Project Title: PRJ - Filter Effluent Valve Actuators

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	0
Outside Services	25,000
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	25,000

Project Description Replacement of conventional filter effluent valves

Project Justification Equipment at end of life cycle.



2020 Capital Budget Project Detail

Division: DOMESTIC WATER DIVISION
Project Number: U00359

Department: 8150 Modesto Domestic Water
Project Title: PRJ - STA Basin Wall

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	0
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	0

Project Description Removal of temporary wall from Phase II construction/testing.

Project Justification Wall needs to be removed due to corrosion.

2020 Capital Budget Project Detail

Division: DOMESTIC WATER DIVISION
Project Number: 720249

Department: 8150 Modesto Domestic Water
Project Title: PRJ - Membrane Valve Actuators

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	0
Outside Services	125,000
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	125,000

Project Description Replacement of 25 valve actuators.

Project Justification Model of valve not supported, not adjustable.

2020 Capital Budget Project Detail

Division: DOMESTIC WATER DIVISION
Project Number: 720250

Department: 8150 Modesto Domestic Water
Project Title: PRJ - Switchgear Upgrade

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	0
Outside Services	400,000
Seminars & Meetings	0
Administrative & General	0
MID Equipment	0
Totals	400,000

Project Description Upgrade of electronic relays in 12KV switchgear.

Project Justification Existing equipment obsolete in Dec. 2019.

2020 Capital Budget Project Detail

Division: DOMESTIC WATER DIVISION
Project Number: 720251

Department: 8150 Modesto Domestic Water
Project Title: PRJ - MEM Blower

	2020 Adopted Budget
Labor & Benefits	0
Materials & Supplies	0
Outside Services	0
Seminars & Meetings	0
Administrative & General	0
MID Equipment	300,000
Totals	300,000

Project Description Membrane Blower upgrade.

Project Justification More air resources necessary for membrane plant.