

AGENDA ITEM Public Utilities Commission City and County of San Francisco



DEPARTMENT Financial S	ervices	AGENDA NO.	10									
		MEETING DATE	February 10, 2015									
Adopt the SFPUC 10-Year Capital Plan for FY 2015-16 to FY 2024-25 Manager: Frances Lee												
Summary of Proposed Commission Action:	Public Hearing to consider and possible action to adopt the SFPUC 1 Year Capital Plan for FY 2015-16 through FY 2024-25											
Background and Description:	The SFPUC Financial Services staff seeks Commission adoption of the Charter-mandated Capital Plan for the 10-Year planning horizon FY 2015-16 through FY 2024-25. This rolling 10-year plan is required by the Charter Section 8B.123 and is revised annually as a part of the budget update process. It serves as a multi-year capital planning tool.											
	1 2		staff requests the Commission r FY 2015-16 to FY 2024-25.									
	By March 1 of each odd-numbered year, beginning with March 1, 2013, the City Administrator shall submit to the Mayor and Board of Supervisors a tenyear capital expenditure plan which shall include an assessment of the City's capital infrastructure needs, investments required to meet the needs identified through this assessment, and a plan of finance to fund these investments. By May 1 of the same year, the Mayor and Board of Supervisors shall review, update, amend, and adopt by resolution the ten-year capital expenditure plan. The Mayor and Board of Supervisors may update the plan as necessary and appropriate to reflect the City's priorities, resources, and requirements.											
	investments for each ye planned investments to City's capital assets, ir	ear of the plan. The properties maintain, repair, and acluding but not liming; public transit in	Il recommended capital project plan shall incorporate all major d improve the condition of the ited to city streets, sidewalks, infrastructure; airport and port; owned facilities.									

APPROVAL		
COMMISSION SECRETARY	Donna Hood	

Result of Inaction:		ce with Charter Section 8B.123. elay the 10-Year Capital Plan submittal ee, the Mayor's Office, and the Board of
Budget & Costs:	10-Year Capital Plan Wastewater Enterprise	FYE 2016-2025 \$5,713,380,000
	Water Enterprise	\$1,323,664,000
	Hetch Hetchy Water & Power	\$1,199,284,800
	Total SFPUC	\$8,236,328,800
Recommendation:	SFPUC staff recommends that resolution.	the Commission adopt the attached
Attachments:	1. SFPUC Resolution 2. Capital Plan	

PUBLIC UTILITIES COMMISSION

City and County of San Francisco

RESOLUTION NO.	

WHEREAS, The City's Charter Section 8B.123 requires the Commission to annually review, update and adopt the Ten-Year Capital Plan; and

WHEREAS, The San Francisco Public Utilities Commission proposed Capital Improvement Program Budget must be submitted to, and approved by, Mayor Edwin M. Lee and the Board of Supervisors; now, therefore, be it

RESOLVED, the FY 2015-16 to FY 2024-25 Ten-Year Capital Plan is hereby adopted:

10-Year Capital Plan	FYE 2016-2025
Wastewater Enterprise	\$5,713,380,000
Water Enterprise	\$1,323,664,000
Hetch Hetchy Water & Power	\$1,199,284,800
Total SFPUC	\$8,236,328,800

I hereby certify that the foregoing resolution was adopted by the Public Utilities Commission at its meeting of February 10, 2015.

Secretary, Public Utilities Commission

San Francisco Public Utilities Commission

470,664,000 75

Wastewater Enterprise FY 2016 - 2025 Ten Year CIP G H K М N 0 USES Balance as of FY 14-15 FY 15-16 FY 16-17 FY 17-18 FY 18-19 FY 19-20 FY 20-21 FY 21-22 FY 22-23 FY 23-24 FY 24-25 FY 15-24 FY 16-25 Change **Project** 12/31/14 2 Sewer System Improvement Program CWWSIPPR/PL 29,783,842 23,000,000 24,000,000 23,000,000 22,000,000 19,000,000 18,000,000 18,000,000 18,000,000 18,000,000 18,000,000 202,000,000 <mark>197,000,000</mark> Program Wide Efforts 19,000,000 (5,000,00)CWWSIPPR/PL 35,299,948 5,000,000 29,253,000 43,500,000 10,000,000 82,753,000 (5,000,00 Land Reuse (candidate) 87.753.000 7,755,947 CWWBAE Biofuel/Alternative Energy Studies 28.000.000 32.000.000 19.000.000 18.000.000 18.000.000 289.753.000 279,753,000 Subtotal 72.839.737 53,253,000 66.500.000 19.000.000 18.000.000 18.000.000 18,000,000 6 (10.000.0 reatment Facilities Biosolids/Digester Project **CWWSIPDP** 51,268,225 42,600,000 122,600,000 27,600,000 298,700,000 440,300,000 98,900,000 98,900,000 8,800,000 8,800,000 3,100,000 1,150,300,000 <mark>1,107,700,000</mark> (42,600,00 Southeast Plant - New 250 MGD Grit Improvements CWWSIPSE02 1.041.480 9,900,000 13.950.000 3,170,000 126,790,000 4.400.000 19.500.000 177,710,000 167,810,000 (9.900.0 **CWWSIPSE** 65,083,790 32,520,000 72,110,000 60,640,000 105,650,000 49,400,000 128,280,000 25,440,000 15,700,000 14,750,000 10 658,931,000 (17 770 0 Southeast Plant 89.031.000 80.160.000 641.161.000 CWWSIPTPNF 1.547.413 45.230.000 11.250.000 121.000.000 72.800.000 North Point Facility 7.550.000 29,750,000 22.800.000 7.260.000 2.850.000 5.200.000 21.400.000 274.290.000 339.540.000 65.250.000 Treatment Plant Improvements CWWSIPTP00 40,750,000 Westside Pump Station and Force Main CWWSIPTPOF 2,700,000 6.130.000 7,400,000 75.100.000 6,200,000 4.700.000 1.950.000 200,000 104.380.000 101,680,000 (2.700.00 5,508,418 11,850,000 9,400,000 23,510,000 9,680,000 23,750,000 19,300,000 1 124,490,000 131,940,000 Oceanside Plant **CWWSIPTPOP** 26.950.000 8.300.000 9.650.000 1.300.000 100.000 7.450.000 165,199,326 107,120,000 270,861,000 156.590.000 633,410,000 572,110,000 215.760.000 156,750,000 158.780.000 55,170,000 163.550.000 106.850.000 2,490,101,000 16 Sewer/Collection System CWWSIPCT 27 176 942 24 800 000 215 400 000 98 000 000 1 217 530 000 1 207 130 000 Central Bayside System Improvements 14 000 000 31 030 000 31 000 000 163 800 000 505 000 000 36 500 000 98 000 000 3.600.000 (10.400.00 Collection System - Interceptors/Tunnels/Odor Control CWWSIPCSSR 51,387,136 11.000.000 31,800,000 12,176,000 6.971.000 25,023,000 6,002,000 2,701,000 924,000 924,000 315,000 97,836,000 86.836.000 (11.000.00 Transport/Storage & Combined Sewer Discharge Structures CWWSIPCSCD 5.500.000 9,300,000 10,900,000 10,300,000 11,800,000 10,900,000 7,200,000 6,400,000 6,600,000 6,600,000 50,780,000 85,500,000 130,780,000 45,280,000 Pump Stations / Force Main Improvements **CWWSIPPS** 1,300,000 8,600,000 8,310,000 10,700,000 15,600,000 14.899.000 20.600.000 23,000,000 27.800.000 9,996,000 145,714,000 140,805,000 285,219,000 144,414,000 Force Main Improvements (combined with Pump Stations) CWWSIPNC 13,010,347 58,971,000 62,416,000 216.223.000 133.324.000 114.911.000 1.541.671.000 91.574.425 31.800.000 74.500.000 536.801.000 245.901.000 66.824.000 200.094.000 1.709.965.000 168.294.000 23 Stormwater Management/Flood Control Drainage Basin / Early Implementation Projects **CWWSIPFCDB** 51,268,225 25,600,000 15,400,000 2,500,000 780,000 340,000 140,000 44,760,000 19,160,000 (25,600,00 CWWLID Low Impact Design Program 1.290.208 120,400,000 Green Infrastructure Projects CWWSIPFCG 2,000,000 3,000,000 7,800,000 6,660,000 4,740,000 10,600,000 27,800,000 30,000,000 27.800.000 26 92.600.000 27,800,000 Advance Rainfall Predictions & Operational Decision System CWWSIPFCRF 1.615.790 11.700.000 8.270.000 560,000 520.000 200.000 140.000 21.390.000 9,690,000 (11.700.00 CWWSIPUW (3.000.00)Watershed Assessment 3.829.397 3.000.000 3.000.000 Subtotal 58,003,620 40,300,000 23.670.000 5.060.000 4.300.000 8.340.000 6.940.000 4.740.000 10,600,000 27.800.000 30.000.000 27.800.000 161,750,000 149,250,000 (12,500,0 SSIP TOTAL 352,744,000 387.617.108 207.220.000 422,284,000 290.566.000 728.681.000 815.673.000 778.501.000 425.391.000 254.204.000 234,294,000 326.461.000 4.483.275.000 145,524,000 Wastewater Interim CIP Pump Stations Sewer/Collection System O 0 Treatment Facilities Subtotal CENMSCIC 25,732,642 Renewal and Replacement Collection System - Condition Assessment **CWWRNROI** 3,615,068 3,530,000 3,725,000 3.781.000 3,327,000 14.363.000 10,833,000 (3,530,00 Collection System - Sewer Improvements CWWRNRCS 56.291.065 52 499 000 54 338 000 56 240 000 58 209 000 60 246 000 62 354 000 62 354 000 62 354 000 62.354.000 62 354 000 81.124.000 593 302 000 621,927,000 28 625 000 Collection System - Spot Sewer VARIOUS 19 251 000 19 925 000 20.622.000 21 345 000 11.000.000 11 000 000 11.000.000 11.000.000 11 000 000 11 000 000 16 530 000 40 147 143 000 144 422 000 Subtotal 59,906,133 75,280,000 77,988,000 80,643,000 82,881,000 71,246,000 73,354,000 73,354,000 73,354,000 73,354,000 73.354.000 97.654.000 754,808,000 777,182,000 22,374,000 **Treatment Plant Improvements CWWRNRTF** 15,125,675 12,442,000 13,063,000 13,715,000 14,402,000 15,121,000 15,878,000 16,673,000 17,506,000 18,381,000 19,301,000 20,266,000 43 156,482,000 164,306,000 7,824,000 Freasure Island 103 793 000 New Wastewater Treatment Facility CWP110 3 211 039 2 463 000 41 240 000 24 036 000 12 018 000 12 018 000 12 018 000 103 793 000 3,211,039 2,463,000 41,240,000 24,036,000 12,018,000 12,018,000 12,018,000 103,793,000 48 Wastewater Facilities & Infrastructure CWWFAC02 Collection System Division Consolidation 12.113.642 20.000.000 20.000.000 20,000,000 (2 700 00 3 374 742 2 700 000 2 000 000 4.000.000 4.000.000 6 000 000 Ocean Beach Protection CWWFAC01 3.300.000 Ω 22 000 000 19,300,000 Southeast Community Center Improvements CWWFAC03 21 986 358 7 000 000 7 000 000 (7.000.00)37,474,742 9,700,000 2,000,000 4,000,000 4,000,000 49,000,000 **536,635,000** 386,924,000 832,427,000 947,280,000 897,769,000 527,436,000 357,082,000 338,047,000 419,116,000 470,664,000 **54** 5,547,358,000 4 Total USES 529,067,339 304,642,000 5.713.380.000 166.022.000 SOURCES FY 14-15 FY 15-16 FY 15-24 FY 16-17 FY 17-18 FY 18-19 FY 19-20 FY 20-21 FY 21-22 FY 22-23 FY 23-24 FY 24-25 FY 16-25 Change Revenue Funding 41,000,000 516,058,000 43,000,000 45,000,000 48,000,000 50,000,000 55,000,000 63,670,000 24,670,000 Revenue 39,000,000 52,000,000 57,750,000 60,638,000 491,388,000 BAB Interest Income **Total Revenue Sources** 39,000,000 41,000,000 43,000,000 45,000,000 48,000,000 50,000,000 52,000,000 55,000,000 57,750,000 60.638.000 63,670,000 491,388,000 516,058,000 24,670,000 61 Debt Funding Revenue Bonds - SSIP 207,220,000 422,284,000 290.566.000 728,681,000 815,673,000 778.501.000 425,391,000 254,204,000 234.294.000 326.461.000 352.744.000 4.483.275.000 4.628,799,000 145.524.000 51,750,000 Revenue Bonds - Non SSIP 60.351.000 81.107.000 45.378.000 43.503.000 29.517.000 528.695.000 4.328.000 47.422.000 50.858.000 56.246.000 66.768.000 47.545.000 **Total Debt Sources** 254.642.000 482,635,000 341.424.000 784.927.000 896.780.000 845.269.000 472.936.000 299.582.000 277.797.000 355.978.000 404.494.000 5.011.970.000 5.161.822.000 149.852.000 65 Other Funding Capacity Fee - Fund Balance 11.000.000 13,000,000 11,000,000 13,000,000 2.000.000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 Capacity Fee - New Development 2.500.000 2.500.000 2.500.000 33.000.000 Total Other Sources 11.000.000 13.000.000 2,500,000 2.500.000 2.500.000 2.500.000 2.500.000 2.500.000 2.500.000 2,500,000 2.500.000 44.000.000 35.500.000 70 Total SOURCES 304,642,000 536,635,000 386,924,000 832,427,000 947,280,000 897,769,000 527,436,000 357,082,000 338,047,000 419,116,000 470,664,000 5,547,358,000 5,713,380,000 166,022,000 Surplus / SI 947,280,000 357,082,000 FY 2015-2024 Approved Plan 304.642.000 536.635.000 386.924.000 897.769.000 338.047.000 419.116.000

(304 642 000)

Variance

Water Enterprise FY 2016 - 2025 Ten Year CIP

1		1 0 1		_										<u> </u>		
A	В	С	D	E	Н		J	K	L	M	N	0	Р	Q R	S	
		Available														
1 USES	Project	Balance as of	FY 14-15	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	FY 24-25	1 FY 15-24	FY 16-25	Change
		12/31/14														
2 REGIONAL WATER														2		
3 Water Treatment Program														3		
Water Treatment Program	CUW27200	0	0	0	0	0	0	0	0	0	0	0		4	0	0
5 Tesla UV Facility	CUW27201	814,848	600,000	600,000	600,000	280,000	280,000	280,000	280,000	280,000	280,000	289,000	303,000	5 3,769,000	3,472,000	(297,000)
6 SVWTP & East Bay Fields	CUW27202	6,317,553	5,900,000	700,000	2,970,000	400,000	400,000	400,000	400,000	400,000	400,000	413,000		9,813,000	6,913,000	(2,900,000
7 HTWTP & West Bay Fields	CUW27203	2,519,387	2,341,000	2,347,000	1,552,000	1,709,000	1,214,000	1,221,000	1,228,000	1,234,000	1,234,000	1,248,000	1,275,000	7 14,328,000	14,262,000	(66,000)
8	Subtotal	9,651,788	8,841,000	3,647,000	5,122,000	2,389,000	1,894,000	1,901,000	1,908,000	1,914,000	1,914,000	1,950,000	2,008,000	8 27,910,000	24,647,000	(3,263,000)
9 Water Transmission Program		.,,	-,- ,	.,. ,	-, ,	,,	, ,	, ,	,,	,- ,	,- ,	,,	,,	9	,. ,	(=, ==,==,
Water Transmission Program	CUW27300	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0
Corrosion Protection Capital Upgrades	CUW27301	2,414,871	1,850,000	1,850,000	1,850,000	1,900,000	1,900,000	1,900,000	1,900,000	1,900,000	1,900,000	1,900,000	1,900,000	18,850,000	18,900,000	50,000
Pipeline Inspection and Repair Project	CUW27302	2,070,726	1,010,000	1,010,000	1,010,000	1,080,000	1,080,000	1,080,000	1,080,000	1,080,000	1,080,000	1,080,000	1,080,000	10,590,000	10,660,000	70,000
Pump Station Upgrades	CUW27304	919,936	910,000	910,000	3,410,000	3,680,000	1,180,000	1,180,000	1,180,000	1,180,000	1,180,000	1,216,000	1,230,000			5,320,000
Pipeline Improvement Program	CUW27305	3,293,301	730,000	3,450,000	4,100,000	1,780,000	50,900,000	45,600,000	9,637,000	100,000	100,000	103,000	103,000			(4,527,000)
Valve Replacement	CUW27306	508,000	508,000	1,013,000	1,013,000	1,350,000	1,350,000	1,350,000	1,350,000	1,350,000	1,350,000	1,390,000	1,398,000			890,000
Vault Upgrades	CUW27307	338,000	338,000	338,000	338,000	675,000	675,000	675,000	675,000	675,000	675,000	695,000	707,000			369,000
17 Calaveras Micro Turbine	CUW27308	3,798,000	1,500,000	2,860,000	2,860,000	0	0	0	0	0	0.0,000	0		17 4,360,000		1,360,000
18 Metering Upgrades	CUW27309	646,421	350,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	206,000	206,000	,,		(144,000
Town of Sunol Fire Suppression System	CUW26308	1,426,487	2,000,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000		19 2,000,000		(2.000.000
20	Subtotal	15,415,742	9,196,000	11,631,000	14,781,000	10,665,000	57,285,000	51,985,000	16,022,000	6,485,000	6,485,000	6,590,000	6,624,000 2	,,		1,388,000
21 Water Supply & Storage Program	Gubtotai	13,413,142	3,130,000	11,031,000	14,701,000	10,000,000	31,203,000	31,303,000	10,022,000	0,403,000	0,400,000	0,550,000		21	100,333,000	1,300,000
22 Water Supply & Storage Program	CUW27400	3,425,000	0	0	0	0	0	0	0	0	0	0	0 2			0
23 Dam Structural Upgrades (w/geotech)	CUW27401	2,140,823	1,855,000	994,000	1,539,000	1,749,000	2,610,000	17,632,000	310,000	310,000	310,000	311,000		27,620,000		(1,822,000)
24 Desalination - Regional	COW27401	2,140,023	200,000	200.000	200,000	200,000	200,000	200,000	0	3.000.000	19,500,000	17,500,000	187,000,000			219,800,000
25	Subtotal	5,565,823	2,055,000	1,194,000	1,739,000	1,949,000	2,810,000	17,832,000	310,000	3,310,000	19,810,000	17,811,000	187,033,000			217,978,000
Watersheds & Land Management	Subtotal	3,303,023	2,033,000	1,194,000	1,733,000	1,343,000	2,010,000	17,032,000	310,000	3,310,000	19,010,000	17,011,000		26	233,730,000	217,970,000
27 Watersheds & Land Management	CUW27500	10,160,314	0	0	0	0	0	0	0	0	0	0	_	27	0	0
Watershed Structures Upgrades	CUW27511	742,981	0	0	0	0	0	0	0	0	0	0		28	0	0
. 9	CUW27511	,	1,408,000	2 804 000	1,504,000	1,504,000	1,504,000	1,504,000	1,504,000	1,504,000	1,504,000	1,504,000	_	29 16,244,000	17,536,000	1,292,000
		26,317		2,804,000												
Watershed Cottage/Buildings Upgrades EBRPD Water System	CUW27513	17,049	0	0	0	0	0	0	0	0	0	0	_	30	-	0
	CUW27514	32,672	0	0.004.000	0	0	4 504 000	0	0	0	0	4.504.000		31 (ů	4 000 000
32	Subtotal	10,979,333	1,408,000	2,804,000	1,504,000	1,504,000	1,504,000	1,504,000	1,504,000	1,504,000	1,504,000	1,504,000	2,700,000		17,536,000	1,292,000
Communication & Monitoring Program	01 1140													33		
Communication & Monitoring Program	CUW27600	0	0	0	0	0	0	0	0	0	0	0	0			(0.700.000)
Microwave Backbone Upgrade	CUW27601	3,082,563	2,500,000	1,500,000	0	0	0	0	0	0	0	0	0			(2,500,000)
WSTD Security System	CUW27602	1,000,000	1,000,000	500,000	939,000	544,000	500,000	500,000	500,000	500,000	500,000	515,000	515,000			(102,000)
37	Subtotal	4,082,563	3,500,000	2,000,000	939,000	544,000	500,000	500,000	500,000	500,000	500,000	515,000	515,000		7,013,000	(2,602,000)
Buildings and Grounds Programs	0													38		
Buildings and Grounds Programs	CUW27700	11,797,018	0	0	0	0	0	0	0	0	0	0	0		0	0
Sunol Yard	CUW27701	4,143,599	500,000	25,875,000	3,675,000	3,425,000	286,000	295,000	304,000	313,000	322,000	333,000	· · · · · · · · · · · · · · · · · · ·	35,328,000		(165,000)
Millbrae Yard Upgrade	CUW27703	1,897,111	0	1,490,000	1,490,000	1,518,000	500,000	500,000	500,000	500,000	515,000	530,000	,	7,543,000		530,000
42	Subtotal	17,837,728	500,000	27,365,000	5,165,000	4,943,000	786,000	795,000	804,000	813,000	837,000	863,000	865,000		43,236,000	365,000
43														43		
	WATER TOTAL	63,532,977	25,500,000	48,641,000	29,250,000	21,994,000	64,779,000	74,517,000	21,048,000	14,526,000	31,050,000	29,233,000	199,745,000		534,783,000	215,158,000
45														45		
LOCAL WATER	01 11 100 -	0	F0 =00 00 -	FO = 00 0 0 0 0	F0 =00 00 -	F.4 ==== ====	F.4 =00.00=	F 4 ==== ====	F.4 =00.00-	00 =00 00=	F0 =00 00-	F0 =00 05 -		46	FC 1 000 05	(40.000.0==)
Local Water Conveyance /Distribution Syste		64,774,465	53,700,000	53,700,000	53,700,000	54,700,000	54,700,000	54,700,000	54,700,000	36,700,000	53,700,000	53,700,000	53,700,000			(13,000,000)
Buildings & Grounds Improvements - Local	CUW688	3,856,571	800,000	1,525,000	10,525,000	725,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000			(300,000)
Pacific Rod & Gun Club Remediation Project		11,069,930	11,105,000	155,000	0	0	0	0	0	0	0	0	0 4			(11,105,000)
Systems Monitoring & Control	CUW282	1,275,616	1,510,000	5,900,000	5,800,000	0	0	0	0	0	0	0	0 ((1,510,000)
Other Recycled Water Projects - Local		2,385,322	986,000	3,925,000	0	0	0	0	0	0	0	0	0			(986,000)
Treasure Island Capital Upgrades	CUW278		0	0	0	3,000,000	0	0	0	0	0	0	0 5			0
	CUW270	9,851,891			E0 000	0	0	0	0	0	0	0	0 !	3,520,000	2,870,000	(650,000)
College Hill Reservoir Outlet Structure Retro	CUW270 ofit CUW283	650,000	650,000	2,820,000	50,000	-										
College Hill Reservoir Outlet Structure Retro McLaren Park Pump Station Upgrades	CUW270 Offit CUW283 CUW284		650,000 0	358,000	944,000	12,558,000	928,000	0	0	0	0	0	0 5			0
College Hill Reservoir Outlet Structure Retro McLaren Park Pump Station Upgrades Merced Manor Reservoir Facilities Repairs	CUW270 CUW283 CUW284 CUW285	650,000 0 0	0	358,000 270,000	944,000 574,000	12,558,000 6,591,000	432,000	0	0 0	0 0	0	0	0 !	7,867,000	7,867,000	0
College Hill Reservoir Outlet Structure Retro McLaren Park Pump Station Upgrades Merced Manor Reservoir Facilities Repairs LOCAL V	CUW270 Offit CUW283 CUW284	650,000		358,000	944,000	12,558,000		0 0 55,200,000	0 0 55,200,000	0 0 37,200,000	0 0 54,200,000	0 0 54,200,000	_	7,867,000	7,867,000	0 0 (27,551,000)
College Hill Reservoir Outlet Structure Retro McLaren Park Pump Station Upgrades Merced Manor Reservoir Facilities Repairs LOCAL 1	CUW270 CUW283 CUW284 CUW285	650,000 0 0	0	358,000 270,000	944,000 574,000	12,558,000 6,591,000	432,000	0 0 55,200,000	0 0 55,200,000	0 0 37,200,000	0 0 54,200,000	0 0 54,200,000	54,200,000 §	7,867,000 66 612,131, 00 0	7,867,000	0 0 (27,551,000)
College Hill Reservoir Outlet Structure Retro McLaren Park Pump Station Upgrades Merced Manor Reservoir Facilities Repairs LOCAL V Auxiliary Water Supply System	ofit CUW270 CUW283 CUW284 CUW285 WATER TOTAL	650,000 0 0 93,863,795	0 0 68,751,000	358,000 270,000	944,000 574,000	12,558,000 6,591,000	432,000	0 0 55,200,000	0 0 55,200,000	0 0 37,200,000	0 0 54,200,000	0 0 54,200,000	0 { 54,200,000 {	7,867,000 66 612,131,000 57	7,867,000 584,580,000	, , , , ,
College Hill Reservoir Outlet Structure Retro McLaren Park Pump Station Upgrades Merced Manor Reservoir Facilities Repairs LOCAL V Auxiliary Water Supply System ESER1	CUW270 CUW283 CUW284 CUW285	650,000 0 0	0 0 68,751,000 30,928,000	358,000 270,000	944,000 574,000 71,593,000	12,558,000 6,591,000 77,574,000	432,000	0 0 55,200,000	0	0	0	5 4,200,000	0 { 54,200,000 {	7,867,000 66 612,131,000 67 68 59 30,928,000	7,867,000 584,580,000	(30,928,000)
College Hill Reservoir Outlet Structure Retro McLaren Park Pump Station Upgrades Merced Manor Reservoir Facilities Repairs LOCAL V Auxiliary Water Supply System ESER1 Fire Response GO Bond Funded	ofit CUW270 CUW283 CUW284 CUW285 WATER TOTAL	650,000 0 0 93,863,795	0 0 68,751,000 30,928,000 50,000,000	358,000 270,000 68,653,000	944,000 574,000 71,593,000	12,558,000 6,591,000 77,574,000	432,000	55,200,000 0 0 0 0	0	0 30,000,000		54,200,000 0 0 0	0 54,200,000 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	7,867,000 66 612,131,000 67 68 69 30,928,000 142,000,000	7,867,000 584,580,000 0 92,000,000	(30,928,000) (50,000,000)
College Hill Reservoir Outlet Structure Retro McLaren Park Pump Station Upgrades Merced Manor Reservoir Facilities Repairs LOCAL V Maxiliary Water Supply System ESER1 Fire Response GO Bond Funded 25% share of Co-Benefiting Projects	ofit CUW270 CUW283 CUW284 CUW285 WATER TOTAL	650,000 0 0 93,863,795	0 0 68,751,000 30,928,000	358,000 270,000 68,653,000	944,000 574,000 71,593,000 0 0	12,558,000 6,591,000 77,574,000	432,000	55,200,000 0 0 0	0	0	0	0 0 54,200,000 0 0	0 { 54,200,000 {	7,867,000 66 612,131,000 67 68 619 30,928,000 60 142,000,000 61 23,000,000	7,867,000 584,580,000 0 92,000,000 18,000,000	(30,928,000)

Water Enterprise FY 2016 - 2025 Ten Year CIP

			_	_												
A	В	С	D	E	Н	l	J	K	L	M	N	0	P Q	R	S	T
JSES	Project	Available Balance as of 12/31/14	FY 14-15	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	FY 24-25 1	FY 15-24	FY 16-25	Change
													63			
Base Funded by WSIP													64			
San Francisco Groundwater Supply	CUW30102	38,614,811	0	0	3,122,000	1,873,000	0	0	0	0	0	0	0 65		4,995,000	
SF Westside Recycled Water Project	CUW30201	136,401,897	0	0	19,806,000	5,500,000	5,500,000	272,000	0	0	0	0	0 66		31,078,000	
Calaveras Dam - WSIP Augmentation	CUW374	62,266,097	50,000,000	40,000,000	5,000,000	0	0	0	0	0	0	0	0 67	95,000,000	45,000,000	(50,00
New Irvington Tunnel	CUW359	16,311,105	10,000,000	0	0	0	0	0	0	0	0	0	0 68	-,,	0	(10,0
Alameda Creek - WSIP Augmentation	CUW352	18,599,164	0	0	5,000,000	0	0	0	0	0	0	0	0 69		5,000,000	
Crystal Springs/San Andreas Upgrade	CUW371	16,902,163	5,000,000	0	0	0	0	0	0	0	0	0	0 70	5,000,000	0	(5,0
Regional Groundwater Storage & Recovery	CUW30103	82,657,451	7,178,000	1,074,000	3,222,000	0	0	0	0	0	0	0	0 71	-,,	4,296,000	(6,1
Regional Groundwater Storage & Recovery (Non-W	SIP)				3,932,000	0	0	0	0	0	0	0	0 72	<u> </u>	3,932,000	3,9
WSIP Augmentation - S	ubtotal	371,752,688	72,178,000	41,074,000	40,082,000	7,373,000	5,500,000	272,000	0	0	0	0	0 73	161,473,000	94,301,000	(67,1
													74			
													75			
otal USES		577,214,802	252,357,000	158,368,000	140,925,000	106,941,000	126,839,000	129,989,000	76,248,000	99,726,000	147,250,000	83,433,000	253,945,000 76	1,289,157,000	1,323,664,000	34,50
													77			
OURCES			FY 14-15	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	FY 24-25 78	FY 15-24	FY 16-25	Chan
Revenue Funding													79			
Regional Revenue			15,275,000	21,712,600	18,341,000	18.952.000	51,804,000	51.804.000	11,371,000	11,377,000	11.377.000	11.733.000	12,320,000 80	223.746.600	220,791,600	(2.9
Local Revenue			13,944,000	15,771,400	10,541,000	10,932,000	20,000,000	25,000,000	30,000,000	35,000,000	36,750,000	38,587,500	40,516,000 81	215,052,900	241,624,900	26,5
Total Revenue S	Sources		29,219,000	37,484,000	18.341.000	18,952,000	71,804,000	76,804,000	41,371,000	46,377,000	48,127,000	50,320,500	52,836,000 82		462,416,500	23,6
Pebt Funding	Jources		23,213,000	37,404,000	10,541,000	10,332,000	71,004,000	70,004,000	41,571,000	40,377,000	40,127,000	30,320,300	83	430,733,300	402,410,300	20,0
Regional Bonds			72,178,000	56,311,000	43,663,000	5,898,000	18,475,000	22,985,000	9,677,000	3,149,000	19,673,000	17,500,000	187,000,000 84	235,435,000	384,331,000	148,
Local Bonds			72,170,000	61,573,000	77,921,000	81,091,000	35,560,000	29,200,000	24,200,000	1,200,000	16,450,000	14,612,500	13,109,000 85		354,916,500	11,
General Obligation Bonds - ESER 2010			30,928,000	01,070,000	0	01,001,000	00,000,000	0	2-1,200,000	1,200,000	0	0	0 86		00-1,0-10,000	(30,
General Obligation Bonds - ESER 2014			55,000,000	0	0	0	0	0	0	0	0	0	0 87	55,000,000	0	(55,
General Obligation Bonds - ESER 2020 & Beyond			00,000,000	0	0	0	0	0	0	48.000.000	62.000.000	0	0 88	110.000.000	110.000.000	(00,
Total Debt S	iources		158,106,000	117.884.000	121,584,000	86.989.000	54,035,000	52,185,000	33.877.000	52,349,000	98.123.000	32,112,500	200,109,000 89	774.325.500	849,247,500	74,
ther Fundina			.00,.00,000	, , , , , , , , ,	,00 .,000	00,000,000	0 1,000,000	02,.00,000	33,5.1,533	02,010,000	00,120,000	02,112,000	90	,020,000	0.10,2.11,000	,-
BAWSCA Pre-payment Bonds - Retail Customers S	hare		62,532,000	0	0	0	0	0	0	0	0	0	0 91	62.532.000	0	(62.5
Capacity Fee - Fund Balance			2,500,000	3.000.000	0	0	0	0	0	0	0	0	0 92	- , ,	3.000.000	(02,0
Capacity Fee - New Development			2,000,000	0	1.000.000	1.000.000	1,000,000	1.000.000	1,000,000	1.000.000	1.000.000	1.000.000	1.000.000 93	11.000.000	9.000,000	(2.0
Total Other S	ources		65,032,000	3,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000 94	, ,	12,000,000	(64,0
. 514. 511.51	- Cu. CCC		00,002,000	3,555,555	1,000,000	1,000,000	1,000,000	1,000,000	.,000,000	1,000,000	.,000,000	1,000,000	95		12,000,000	(0.,0
otal SOURCES			252,357,000	158,368,000	140,925,000	106,941,000	126,839,000	129,989,000	76,248,000	99,726,000	147,250,000	83,433,000	253,945,000 96	1,289,157,000	1,323,664,000	34,50
			, , , , , ,	, , ,	, , , , , ,	, , , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , , ,	, , ,	, , , , ,		, , , , , ,	, , , , , ,	97	, , ,	. , ,	, , ,
Surplus / Shortfall			0	0	0	0	0	0	0	0	0	0	0 98	0	0	
													99			
FY 2015-2024 Approved Plan			252,357,000	158,368,000	126,449,000	103,498,000	126,839,000	129,989,000	76,248,000	117,726,000	130,750,000	66,933,000	0 100			
Variance			(252,357,000)	0	14,476,000	3,443,000	0		0	(18.000.000)	16,500,000	16.500.000	253,945,000 101			

Hetch Hetchy Enterprise FY 2016 - 2025 Ten Year CIP

1 US	A A SES	В	C Available	D	E	F	G	Н		J	K	L	М	N	0	Р	Q	R
1 US	BES		Available															
		Project	Balance as of 12/31/2014	FY 14-15	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	FY 24-25	1 F	FY 15-24	FY 16-25	Change
2 Ha	tch Hetchy Power														2	- ,		
	reetlights														3			
4	Various Streetlighting Replacement & Repairs	CUH896	27,316,147	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	_	4	5,500,000	5,500,000	0
5	Various Streetlighting Area Improvements	CUH896	27,510,147	1,500,000	1,500,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	,	5	11,000,000	10,500,000	(500,000)
6	LED Conversion Project	CUH896	15,036,124	0	0	0	0	0	0	0	0	0	0		6	0	0	(000,000)
7	High Voltage 5 kV Series Loop Conversion	CUH896	0	3,000,000	2,000,000	1,500,000	1,500,000	1,500,000	1,500,000	0	0	0	0		7	11,000,000	8,000,000	(3,000,000)
8	Van Ness Bus Rapid Transit Project	CUH896	462,491	0,000,000	1,500,000	0	0	0	0	0	0	0	0	-	8	1,500,000	1,500,000	(0,000,000)
9	HHP-3rd St SL Rehabilitation	CUH896	0	1,920,000	1,920,000	0	0	0	0	0	0	0	0	_	9	3,840,000	1,920,000	(1,920,000)
10	HHP-Holiday & Festivity Pole Use	CUH896	0	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	10	2,000,000	2,000,000	0
11	HHP-Pedestrian Lighting Project -	CUH896	0	1,280,000	960,000	960,000	960,000	960,000	960,000	1,296,000	960,000	960,000	960,000		11	10,256,000	9,936,000	(320,000)
12	HHP-Street & Pedestrian Light Pole Assessment	CUH896	0	500,000	500,000	500,000	500,000	500,000	500,000	500,000	470,000	500,000	500,000		12	4,970,000	4,970,000	0
13	HHP-Streetlight Ownership Consolidation			0	0	0	0	0	0	0	0	0	0		13	0	0	0
14	HHP-Streetlights Pole Rehabilitation -	CUH896	0	5,120,000	2,816,000	1,024,000	1,024,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	14	9,984,000	11,864,000	1,880,000
15		Subtotal	42,814,762	14,070,000	11,946,000	5,734,000	5,734,000	5,710,000	5,710,000	4,546,000	4,180,000	4,210,000	4,210,000	4,210,000	15	60,050,000	56,190,000	(3,860,000)
16 Tra	ansmission/Distribution														16			
17	Install SCADA at Substation - Millbrae Annex	CUH885	2,697,909	0	0	0	0	0	0	0	0	0	0	0	17	0 /	0	0
18	Load Meter Program	CUH972	4,389,150	1,000,000	0	0	0	0	0	0	0	0	0	0	18	1,000,000	0	(1,000,000)
19	Transbay Transit Center	CUH985	7,732,600	0	1,250,000	0	0	0	0	0	0	0	0		19	1,250,000	1,250,000	0
20		Subtotal	14,819,659	1,000,000	1,250,000	0	0	0	0	0	0	0	0	0		2,250,000	1,250,000	(1,000,000)
	newable/Generation														21			
22	Renewable/Generation - Small Renewables	CUH993	6,758,676	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	_	22	10,000,000	10,000,000	0
23	Renewable/Generation - Small Hydro	CUH994	3,480,108	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000		2,000,000	2,000,000	0
24	GoSolarSF Program	CUH94763	6,726,126	5,000,000	5,000,000	2,000,000	2,000,000	0	0	0	0	0	0	0		14,000,000	9,000,000	(5,000,000)
25	Hetchy Cap & Trade Allowances	CUHCAP	2,369,798	0	0	0	0	0	0	0	0	0	0	-	25	0	0	0
26		Subtotal	19,334,708	6,200,000	6,200,000	3,200,000	3,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	· · · · · · · · · · · · · · · ·	26	26,000,000	21,000,000	(5,000,000)
	ergy Efficiency													_	27			
28	Civic Center Sustainability District	CUH983	3,074,004	162,000	162,000	162,000	162,000	162,000	162,000	162,000	162,000	162,000	162,000	_	28	1,620,000	1,620,000	0
29	Energy Efficiency - General Fund	CUH986	3,800,424	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	,	29	5,000,000	5,000,000	0
30	Energy Efficiency - All Others	CUH995	972,620	338,000	338,000	338,000	338,000	338,000	338,000	338,000	338,000	338,000	338,000	338,000		3,380,000	3,380,000	0
31	Hetchy Cap & Trade Allowances	CUHCAP	218,000	0	0	0	0	0	0	0	0	0	0		31	0	0	0
32		Subtotal	8,065,048	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000		10,000,000	10,000,000	0
	development													_	33			(0.000.000)
34	New Underground 12-kV Distribution System in TI & YI		8,269,426	3,050,000	2,950,000	2,100,000	2,100,000	2,100,000	2,100,000	2,100,000	2,100,000	0	0	0		18,600,000	15,550,000	(3,050,000)
35	New Underground 12-kV Distribution System in Oaklar	d	0	0	0	3,100,000	2,850,000	0	0	0	0	0	0	0		5,950,000	5,950,000	0
36	New 115-kV Substation in Oakland		0	0	0	3,150,000	0	0	0	0	0	0	0		36	3,150,000	3,150,000	0
	Treasure Island Utility Setup Cost		0	0	0	1,250,000	0	0	0	0	0	0	0	0		1,250,000	1,250,000	0
38	HHP- HP Phase 2 - Alice Griffith/Candlestick Point	Cultatal	0 200 420	2.050.000	2.050.000	0 000 000	4,000,000	5,000,000	2 400 000	0 400 000	0 400 000	0	0		38	9,000,000	9,000,000	(2.050.000)
40		Subtotal	8,269,426	3,050,000	2,950,000	9,600,000	8,950,000	7,100,000	2,100,000	2,100,000	2,100,000	U	U	0	40	37,950,000	34,900,000	(3,050,000)
41	HETCHY POW	ED TOTAL	93,303,603	25,320,000	23,346,000	19,534,000	18,884,000	15,010,000	10,010,000	8,846,000	8,480,000	6,410,000	6,410,000	_	41	136,250,000	123,340,000	(12,910,000)
	tch Hetchy Water	IN TOTAL	93,303,003	23,320,000	23,340,000	19,334,000	10,004,000	13,010,000	10,010,000	0,040,000	0,400,000	0,410,000	0,410,000	-, ,	42	130,230,000	123,340,000	(12,910,000)
	ater Infrastructure													_	43			
44	Water Infrastructure - Unallocated	CUH10000	8,130,388	0	0	0	0	0	0	0	0	0	0		44			
45	Water Infrastructure - Project Development	CUH100PD		0	0	0	0	0	0	0	0	0	0		45	0	782,000	782,000
46	San Joaquin Pipeline Rehabilitation	CUH10001	2,217,466	300,000	600,000	8,600,000	8,600,000	8,600,000	8,600,000	8,600,000	8,600,000	8,600,000	8,600,000		46	69,700,000	77,220,000	7,520,000
47	Mountain Tunnel Lining	CUH10002	2,198,848	0	0	0	0	0	0	0	0	0	0		47	0	0	0
48	Lower Cherry Aqueduct	CUH10003	10,599,837	18,100,000	0	0	0	0	0	0	0	0	0	0	48	18,100,000	0	(18,100,000)
49	Priest Reservoir Lining, Water Quality	CUH10005	20,019	700,000	1,400,000	0	0	0	0	0	0	0	0	0	49	2,100,000	1,400,000	(700,000)
50	<u> </u>	Subtotal	23,379,170	19,100,000	2,000,000	8,600,000	8,600,000	8,600,000	8,600,000	8,600,000	8,600,000	8,600,000	8,600,000	8,602,000	50	89,900,000	79,402,000	(10,498,000)
51 Po	wer Infrastructure														51			
52	Power Infrastructure - Unallocated	CUH10100		0	0	0	0	0	0	0	0	0	0	0		0 /	0	0
53	Power Infrastructure - Project Development	CUH101PD		0	0	0	0	0	0	0	0	0	0		53	0 /	0	0
54	Transmission Lines/Distribution System	CUH10101	911,607	0	0	0	0	0	0	0	0	0	0		54	0 /	0	0
55	O'Shaughnessy Dam to Moccasin		0	2,266,000	666,000	400,000	400,000	400,000	400,000	400,000	666,000	666,000	666,000	666,000		6,930,000	5,330,000	(1,600,000)
56	Moccasin to Warnerville		0	2,266,000	666,000	400,000	400,000	400,000	400,000	400,000	666,000	666,000	666,000		56	6,930,000	5,330,000	(1,600,000)
57	Warnerville to San Francisco	0.	0	2,266,000	666,000	400,000	400,000	400,000	400,000	400,000	666,000	666,000	666,000	666,000		6,930,000	5,330,000	(1,600,000)
58	Other Powerhouse Projects	CUH10102	1,262,683	2,000,000	1,050,000	500,000	500,000	500,000	1,000,000	0	0	0	0	_	58	5,550,000	3,550,000	(2,000,000)
59	Powerhouse Control Upgrade	CUH10103	1,568,509	1,000,000	1,000,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	1,000,000		59	4,750,000	4,000,000	(750,000)
60	Switchyard/Substations Rehabilitation	CUH10104	94,253	9,000,000	9,000,000	7,000,000	0	0	0	0	0	0	0	3,000,000	61	25,000,000	19,000,000	(6,000,000)
62	Oil Containments Upgrade	CUH10105		3,000,000	3,000,000	1 735 000	U E 000 000	2 775 000	0	0	0	0	0	_		6,000,000	3,000,000	(3,000,000)
63	Cherry Reservoir Pumps	CUH10106		0	0	1,725,000	5,000,000	2,775,000	0	0	0	0	0		62	9,500,000	9,500,000	2 000 000
64	Step-up Transformers Moccasin Low Head Rehabilitation Project	CUH10108 CUH10109	333,592 141,111	0	0	U	Ü	0	U	0	0	U	U	3,000,000 5,000,000		0	3,000,000 5,000,000	3,000,000 5,000,000
65	Moccasin Low Head Renabilitation Project Moccasin GSU Transformers & Oil Containment	CUH10109	24,895	3,500,000	3,250,000	1,245,000	0	0	0	0	0	0	0		65	7,995,000	4,495,000	(3,500,000)
66	Kirkwood Powerhouse Refurbishment & TSOV Replace		90,000	3,150,000	7,260,000	2,275,000	500,000	0	0	0	0	0	0	0		13,185,000	10,035,000	(3,150,000)
67	Governors	oment COITIOTIZ	90,000	2,000,000	7,200,000	2,275,000	0 000,000	0	0	0	0	0	0		67	2,000,000	10,035,000	(2,000,000)
68	Transformer Fire Protection Systems		0	2,000,000	0	3,000,000	3,000,000	3,000,000	0	0	0	0	0	0		9,000,000	9,000,000	(2,000,000) n
69	Kirkwood Powerhouse Generator Unit 3 Rewind		n	0	0	0,555,555	0	0,000,000	n	0	0	0	1,000,000	12,000,000		13,000,000	13,000,000	0
70	Auto Transformers		0	2,000,000	2,000,000	n	0	0	0	0	n	0	1,000,000		70	4,000,000	2,000,000	(2,000,000)
71	Warnerville Switchyard Upgrade Phase II		0	2,000,000	2,300,000	n	8,000,000	9,000,000	4,500,000	0	n	0	0		71	21,500,000	21,500,000	(=,000,000)
72	Moccasin Generator Rewind (1)		0	3,000,000	0	0	0,000,000	9,000,000	4,500,000	0	0	0	0		72	3,000,000	21,300,000	(3,000,000)
73	Moccasin Powerhouse Refurbishment		0	0,000,000	2,650,000	925,000	700,000	1,000,000	0	0	0	0	0	_	73	5,275,000	5,275,000	(2,230,030)
74	Moccasin Switchyard Upgrade		0	560,000	370,000	3,500,000	2,570,000	960,000	700,000	0	0	0	0	0		8,660,000	8,100,000	(560,000)
/ -+	Turbine Rehabilitation		0	0	0	0	0	0	0	0	0	0	500,000	20,000,000		500,000	20,500,000	20,000,000
75			•	3	=======================================	-	2,000,000	2,000,000	2,000,000	2,000,000	0	0	000,000				10,500,000	(500,000)
	Kirkwood Penstock	CUH10204	506,232	500,000	500,000	2,000,000					U	U	U	0 1	76	11,000,000	10,500.000	
75		CUH10204 CUH10212		500,000	500,000	2,000,000	2,250,000	4,750,000	5,000,000	4,500,000	4,500,000	0	0	0		42,000,000	21,000,000	(21,000,000)
75 76	Kirkwood Penstock				0						4,500,000 0	ŭ	0	0				

Hetch Hetchy Enterprise FY 2016 - 2025 Ten Year CIP

	A	В	C	D			G	ш		1	V	1	М	N	0	Р	Q Q	
	A	Ь	C	U		F	G	П	ı	J	N N	L	IVI	IN	U	P	Q	R
1 U:	SES	Project	Available Balance as of 12/31/2014	FY 14-15	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	FY 24-25	1	FY 15-24	FY 16-25	Change
00 1-	ted Best tests														00	<u>.</u>		
80 30	int Projects	CUH10200	22 820 000	0	0	0	0	0	0	0	0	0	0		80			
82	Water Infrastructure - Unallocated Water Infrastructure - Project Development	CUH10200 CUH102PD	23,820,000 (181,178)	0	0	0	0	0	0	0	0	0	0	364,800		0	364,800	364,800
83	Microwave System	CUH102PD CUH10201	140,753	3,300,000	2,375,000	0	0	0	0	0	0	0	0	364,800	83	5,675,000	2,375,000	(3,300,000)
84	Hetch Hetchy Facilities - Upgrades	CUH10201		2,000,000	500,000	1,000,000	950,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	2,000,000		10,450,000	10,450,000	(3,300,000)
85	Dam Condition Assessment & Repair	CUH10202	2,439,696	500,000	300,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	10,000,000		5,600,000	15,100,000	9,500,000
86	O'Shaughnessy Outlet Works	CUH10203		500,000	5,000,000	5,750,000	5,750,000	3,000,000	4,500,000	4,250,000	000,000	000,000	000,000		86	28,750,000	28,250,000	(500,000)
87	Remote Terminal Unit Replacement	CUH10208	154,645	2,000,000	3,000,000	3,730,000	3,730,000	3,000,000	4,300,000	4,230,000	0	0	0		87	2,000,000	20,230,000	(2,000,000)
88	Road Improvements	CUH10209	399,356	1,990,000	1,990,000	1,800,000	1,800,000	1,800,000	1,800,000	1,800,000	1,800,000	1,800,000	1,800,000	2,000,000		18,380,000	18,390,000	10,000
89	Hetchy Fiber Projects	CUH10210	·	7,000,000	1,990,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000		89	10,000,000	3,000,000	(7,000,000)
90	Facilities Security	CUH10211	992,392	1,500,000	1,500,000	1,500,000	1,500,000	500,000	500,000	500,000	500,000	500,000	500,000	1.840.000		9,000,000	9,340,000	340,000
91	Hetch Hetchy Facilities New Construction - Moccasin	CUH10214	529,915	2,000,000	3,260,000	10,000,000	200,000	20,000	0 000,000	0	0	0.00,000	0	10,000,000		15,480,000	23,480,000	8,000,000
92	Canyon Tunnel Rehabilitation	CUH10214		2,000,000	3,200,000	10,000,000	200,000	20,000	0	0	0	0	0		92	13,480,000	23,480,000	0,000,000
93	Cherry Dam Outlet Works	CUH10216	261,484	3,832,000	958,000	0	0	0	0	0	0	0	0		93	4,790,000	958,000	(3,832,000)
94	Mountain Tunnel Rehabilitation/Bypass	CUH10210	201,404	0,002,000	9,317,000	9,117,000	24,017,000	23,849,000	113,907,000	110,907,000	110,907,000	82,907,000	82,907,000		94	627,835,000	567,835,000	(60,000,000)
95	Mountain Tunnel Access Improvement Project	CUH102	0	0	2,000,000	2,000,000	28,000,000	28,000,000	113,907,000	110,907,000	110,907,000	02,907,000	02,907,000	U	95	027,833,000	60,000,000	60,000,000
96	Cherry Spillway	CUH102	0	0	4,000,000	5,000,000	5,000,000	28,000,000	0	0	0	0	0	0	96	14,000,000	14,000,000	00,000,000
97	Moccasin Wastewater Treatment Plant	CUH102 CUH102	0	1,000,000	2,000,000	1,000,000	5,000,000	0	0	0	0	0	0		97	4,000,000	3,000,000	(1,000,000)
98	Communication Systems Upgrades	CUH102 CUH102	0	300,000	300,000	300,000	300,000	300,000	300,000	300,000	2,900,000	300,000	300,000			5,600,000	10,300,000	4,700,000
99	Early Intake Dam Rehabilitation	CUH102 CUH102	0	720.000	1.960.000	1.880.000	1.135.000	3,905,000	23,625,000	375.000	375.000	300,000	300,000		99	33,975,000	33.255.000	(720.000)
100	Early Intake Dam Renabilitation Subtota		29,787,738	26,642,000	35,460,000	39,947,000	69,252,000	62,974,000	146,232,000	119,732,000	119,082,000	88,107,000	88,107,000	31,204,800		795,535,000	800,097,800	4,562,800
101	Subiota		23,101,130	20,072,000	33,400,000	55,571,000	33,232,000	32,314,000	0,202,000	3, 1 32,000	3,002,000	30,107,000	30, 107,000	31,204,000	101	. 33,333,000	550,037,000	7,302,000
102	HETCHY WATER TOTAL	L	109,570,897	82,250,000	69,538,000	73,767,000	105,422,000	98,609,000	171,082,000	137,882,000	134,430,000	98,955,000	101,205,000	85,054,800	102	1,106,140,000	1,075,944,800	(30,195,200)
103	HEIGHT WATER TOTAL	_	. 00,010,001	32,200,000	30,000,000	70,707,000	. 50,422,000	30,003,000	1,002,000	.01,002,000	. 5-,50,000	30,333,000	. 51,200,000	30,004,000	103	.,.50,1-0,000	.,0.0,044,000	(30,103,200)
	otal Uses		202,874,500	107,570,000	92,884,000	93,301,000	124,306,000	113,619,000	181,092,000	146,728,000	142,910,000	105,365,000	107,615,000	91,464,800	104	1,242,390,000	1,199,284,800	(43,105,200)
105			,,	, , , , , , , , , , , ,	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,	.,,	,,,	.,,	,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , ,	, ,	105	, ,,,,,,,,,,	, , , , , , , , , , , , , , , , , , , ,	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	tal USES - Water			31,088,900	17,957,000	26,576,150	39,763,400	36,938,300	74,404,400	62,479,400	62,186,900	48,248,150	48,248,150	22,644,160	106	494,027,000	439,446,010	(54,580,990)
	tal USES - Power			76,481,100	74,927,000	66,724,850	84,542,600	76,680,700	106,687,600	84,248,600	80,723,100	57,116,850	59,366,850			748,363,000	759,838,790	11,475,790
	tal USES			107,570,000	92,884,000	93,301,000	124,306,000	113,619,000	181,092,000	146,728,000	142,910,000	105,365,000	107,615,000	91,464,800	108	1,242,390,000	1,199,284,800	(43,105,200)
109															109			
110 50	DURCES			FY 14-15	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	FY 24-25	110	FY 15-24	FY 16-25	Change
				111710	111010	111017	111710	11 10 13	1 1 13 20	1112021	112122	1112220	1 1 20 27	112420	110	111024	11 10 20	Onlange
	venue Funding														111			
112	Power Revenue			23,251,796	17,353,662	19,700,273	37,152,400	28,876,446	43,673,416	17,248,600	10,723,100	0	0	23,251,796	112	162,287,747	197,979,693	35,691,946
113	Power Fund Balance			0	0	0	0	0	0	0	0	0	0		113	0	0	0
114	Power CEC Loan			0	0	0	0	0	0	0	0	0	0		114	0	0	0
115	Total Revenue Source	s		23,251,796	17,353,662	19,700,273	37,152,400	28,876,446	43,673,416	17,248,600	10,723,100	0	0	23,251,796	115	162,287,747	197,979,693	35,691,946
	bt Funding														116			
117	Power Bonds			34,511,304	55,873,338	45,000,000	45,000,000	45,000,000	60,000,000	67,000,000	70,000,000	57,116,850	59,366,850	- , , -		555,424,038	549,925,882	(5,498,156)
118	Water Bonds			31,088,900	17,957,000	26,576,150	39,763,400	36,938,300	74,404,400	62,479,400	62,186,900	48,248,150	48,248,150	==,0 : ., : 00	_	494,027,000	439,446,010	(54,580,990)
119	Total Debt Source	s		65,600,204	73,830,338	71,576,150	84,763,400	81,938,300	134,404,400	129,479,400	132,186,900	105,365,000	107,615,000	68,213,004		1,049,451,038	989,371,892	(60,079,146)
	her Funding														120			
121	Project De-Appropriation CUH978 CCA			17,300,000	. =										121	17,300,000	0	(17,300,000)
122	Power - Cap and Trade Auction Revenue			1,418,000	1,700,000	2,024,577	2,390,200	2,804,254	3,014,184	0	0	0	0		122	13,351,215	11,933,215	(1,418,000)
123 124	Total Other Source	s		18,718,000	1,700,000	2,024,577	2,390,200	2,804,254	3,014,184	0	0	0	0	0	123	30,651,215	11,933,215	(18,718,000)
	otal SOURCES			107,570,000	92.884.000	93,301,000	124,306,000	113,619,000	181,092,000	146.728.000	142,910,000	105.365.000	107.615.000	91,464,800		1,242,390,000	1.199.284.800	(43.105,200)
126	oldi SOURCES			107,570,000	92,004,000	93,301,000	124,300,000	113,019,000	101,092,000	140,720,000	142,910,000	105,365,000	107,615,000	91,404,000	126	1,242,390,000	1,199,204,000	(43,103,200)
127	Power Surplus / Shortfall			0	0	0	0	0	0	0	0	0	0	0	127		0	
128	Water Surplus / Shortfall			0	0	0	0	0	0	0	0	0	0	0	128		0	
129	Tota	<u> </u>		0	0	0	0	0	0	0	0	0	0		129	0	0	0
133	Tota	41		U	O	U	0	U	U	O	U	O	O		133	O	O	O
	andidates														134			
135	andidates etch Hetchy Power														135			
136 He		Dower				^	^	9 000 000	^	0	0	^	•		136	0	9,000,000	9 000 000
137	Fiber Projects	Power			0	0	1 000 000	8,000,000	0	-	0	0	0		137		8,000,000	8,000,000
137	Riverbank Substation Upgrade	Power			0	0	1,000,000	3,500,000	0	0	0	0	0			0	4,500,000	4,500,000
139	Holm TSOV Replacement	Power			0	0	0	0	0	0	0	0	0	20,000,000 10,000,000	120	0	20,000,000	20,000,000
140	Holm Penstock (recoat)	Power			0	0	0	Û	0	0	0	0	-			0	10,000,000	10,000,000
141	Other Powerhouse Projects	Power			0	0	0	5 000 000	5 000 000	0	0	0	0	12,500,000		0	12,500,000	12,500,000
	GoSolarSF Program	Power			0	3,000,000	3,000,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000		0	41,000,000	41,000,000
142	Distribution Facilities - City Reloation/Reconfiguration, Small	Power			0	35,000,000	35,000,000	35,000,000	35,000,000	35,000,000	35,000,000	35,000,000	35,000,000	35,000,000		0	315,000,000	315,000,000
143	Distribution Facilities - City Reloation/Reconfiguration, Large	Power			0	37,500,000	37,500,000	37,500,000	37,500,000	37,500,000	37,500,000	37,500,000	37,500,000	37,500,000	143	0	337,500,000	337,500,000
144	HHP-Streetlight Ownership Consolidation	Power			0	774,000	11,688,000	21,736,000	11,582,000	11,582,000	11,582,000	11,582,000	11,582,000	11,582,000	144	0	103,690,000	103,690,000
145	Distribution Facilities - Redevelopment	Power			0	2,000,000	7,000,000	2,000,000	0	0	0	0	0	0	145	0	11,000,000	11,000,000
146	Moccasin Penstock	Power .			0	0	2,250,000	4,750,000	5,000,000	4,500,000	4,500,000			464 =====	146	0	21,000,000	21,000,000
	HETCHY POWER TOTAL	L			0	78,274,000	97,438,000	117,486,000	94,082,000	93,582,000	93,582,000	89,082,000	89,082,000	131,582,000		0	884,190,000	884,190,000
	etch Hetchy Water														148			,
149	SJPL pH Treatment Construction	Water			0	0	10,000,000	0	0	0	0	0	0		149	0	10,000,000	10,000,000
150	LCA Phase II (aerial pipe & rockfall protection)	Water .			0	0	0	2,000,000	10,000,000	0	0	0	0		150	0	12,000,000	12,000,000
151	HETCHY WATER TOTAL	L			0	0	10,000,000	2,000,000	10,000,000	0	0	0	0		151	0	22,000,000	22,000,000
	int Projects														152			
153	Hetchy Bridge Replacements (design & environmental for all)	Joint			0	0	3,000,000	5,000,000	0	0	0	0	0		153	0	8,000,000	8,000,000
154	Early Intake Bridge Replacement	Joint			0	0	0	0	8,000,000	0	0	0	0	0	154	0	8,000,000	8,000,000
155	Holm Bridge Replacement	Joint			0	0	0	0	0	10,000,000	0	0	0		155	0	10,000,000	10,000,000
156	O'Shaughnessy Adit Bridge Replacement	Joint			0	0	0	0	0	0	6,000,000	0	0		156	0	6,000,000	6,000,000
157	Cherry Bridge Replacement	Joint			0	0	0	0	0	0	0	12,000,000	1,000,000		157	0	13,000,000	13,000,000
158	Dam Condition Assesment & Repair	Joint			0	0	0	0	0	0	0	0	0	30,000,000		0	30,000,000	30,000,000
159	Hetch Hetchy Facilities New Construction - Moccasin	Joint			0	0	0	0	0	0	0	0	0	-,,		0	40,000,000	40,000,000
160	JOINT TOTAL	L			0	0	3,000,000	5,000,000	8,000,000	10,000,000	6,000,000	12,000,000	1,000,000	70,000,000	160	0	115,000,000	115,000,000
161															161			
162 C	andidates Total - Unfunded				0	78,274,000	110,438,000	124,486,000	112,082,000	103,582,000	99,582,000	101,082,000	90,082,000	201,582,000	162	0	1,021,190,000	1,021,190,000
						.,=,==0	.,,	,,	,,	, , ,	,,-30	,,	, , •	,,			,. ,,	,. ,,



Fiscal Year 2015-16 through 2024-25 10-Year Capital Plan

February 10, 2015

Frances Lee

Interim Assistant General Manager, Business Services and Chief Financial Officer



10-Year Capital Plan Summary

	Fiscal Year 2015-24 Adopted	Fiscal Year 2016-25 Requested	Change
Water	1,093,229,000	1,213,664,000	120,435,000
AWSS	195,928,000	110,000,000	(85,928,000)
Wastewater	5,547,358,000	5,713,380,000	166,022,000
Hetch Hetchy	1,242,390,000	1,199,284,800	(43,105,200)
SFPUC Total	8,078,905,000	8,236,328,800	157,423,800







Calaveras Dam Oceanside Plant Moccasin



Summary of Key Changes 10-Year Capital Program

- ♦ Regional Water ↑\$215.2M
- Local Water ↓\$27.6M

†\$120.4M

= Water

= Wastewater

= Hetch Hetchy

- **♦** AWSS **↓** \$85.9M
- SSIP ↑\$145.5M
- Renewal and Replacement †\$30.2M
- - Ocean Beach Protection, Southeast Community Center Improvements

[∮] Hetchy Power **↓** \$12.9M

- Water Infrastructure
 \$10.5M
- Joint Projects †\$4.6M

↓\$43.1M

1\$166.0M



Water Key Changes \$120.4M

Regional Water †215.2M

Regional Desalinization 1219.8M Others 14.6M

Pacific Rod & Gun Club (FY 2014-15)

11.1M

Local Water Conveyance

13.0M

Others

3.5M

♦ WSIP Augmentation → 67.2M

Calaveras Dam ↓ 50.0M New Irvington Tunnel ↓ 10.0M Others ↓ 7.2M



AWSS Key Changes (♥\$85.9M)

▲ Auxiliary Water Supply System (AWSS) +85.9M

The Earthquake Safety and Emergency Response (ESER)

ESER1 Bond √35.9M

ESER2 Bond ₹50.0M



Wastewater Key Changes \$166.0M

○ SSIP 145.5M

Program Management 10.0M

Sewer/Collection System 168.3M

Storm Water Management 12.5M

Treatment Facilities 0.3M

○ Renewal and Replacement 130.2M

Collection System 22.4M

Treatment Facilities 7.8M

○ Wastewater Facilities & Infrastructure • 9.7M

Ocean Beach Protection

2.7M

Southeast Community Center Improvements

7.0M



Hetch Hetchy Key Changes (↓\$43.1M)

Hetchy Power

↓ 12.9M

Hetchy Water (Up-Country)

↓ 30.2M

TOTAL HETCHY

\$43.1M



Hetchy Power Key Changes (♥\$12.9M)



Hetchy Water Up-Country Key Changes (♥\$30.2M)

- - Cherry Aqueduct

 18.1M
 Others ↑7.6M

Turbine Rehabilitation ↑ 20.0M Moccasin Penstock ↓ 21.0M Others ↓ 23.3M

√ Joint Projects ↑ 4.6M

Dam Condition Assessment & Repair ↑ 9.5M Hetchy Facilities Moccasin ↑ 8.0M Others ↓ 12.9M



Questions