

**Electric Utility Capital Fund (591)**

	<b>2017/18 Actual</b>	<b>2018/19 Amended</b>	<b>2018/19 Estimate</b>	<b>2019/20 Proposed</b>	<b>2020/21 Proposed</b>
<b>Beginning Fund Balance</b>					
Encumbrance Carryover	1,882,024	3,907,356	3,907,356	3,907,356	3,907,356
Reserve for Public Benefits Program	0	62,553	62,553	62,553	62,553
Unrestricted	66,576,186	89,445,713	89,445,713	7,461,998	7,461,998
<b>Total Beginning Fund Balance</b>	<b>68,458,210</b>	<b>93,415,622</b>	<b>93,415,622</b>	<b>11,431,907</b>	<b>11,431,907</b>
<b>Revenue</b>					
Other Fees for Services	182,250	0	0	0	0
Grant Funding	0	236,780	236,780	0	0
Other Revenue	4,354,831	23,927,920	23,927,920	12,950,000	20,800,000
<b>Total Revenue</b>	<b>4,537,081</b>	<b>24,164,700</b>	<b>24,164,700</b>	<b>12,950,000</b>	<b>20,800,000</b>
<b>Transfers From</b>					
General Fund - Capital Projects Reserve	0	0	0	330,000	330,000
Street Beautification Capital Fund	0	40,875	40,875	0	0
Storm Drain Capital Fund	0	200,000	200,000	6,000	8,500
Solid Waste Fund	0	0	0	129,000	182,750
Sewer Utility Fund	0	200,000	200,000	276,000	391,000
Water Utility Fund	0	450,000	450,000	437,000	335,750
Electric Utility Fund - Land Sale	11,300,000	0	0	0	0
Electric Utility Fund	34,843,667	22,304,074	22,304,074	18,727,000	47,967,000
<b>Total Transfers From</b>	<b>46,143,667</b>	<b>23,194,949</b>	<b>23,194,949</b>	<b>19,905,000</b>	<b>49,215,000</b>
<b>Total Source of Funds</b>	<b>119,138,958</b>	<b>140,775,271</b>	<b>140,775,271</b>	<b>44,286,907</b>	<b>81,446,907</b>
<b>Expenditures</b>					
2430 - 2nd 420MW 230.115kV Transformer at NRS	0	0	0	0	200,000
2416 - Black Butte Afterbay Erosion Remediation	1,735,985	0	0	0	0
2419 - Brokaw Substation Expansion	81,324	0	0	0	0
2407 - Bucks Creek Relicensing	982,330	840,712	840,712	0	0
2398 - Clean Energy and Carbon Reduction	595	1,397,236	1,397,236	0	0
2411 - Control Center Transmission Outage Application Suite (TOA)	0	159,789	159,789	0	0
2123 - Customer Service Program Development	0	263,922	263,922	100,000	100,000
2116 - De La Cruz Junction Substation 60kV	3,972	0	0	0	0
2413 - Distributed Antenna System Development	11,385	1,580,593	1,580,593	0	0
2006 - Distribution Capital Maintenance and Betterments	2,487,349	2,789,038	2,789,038	2,750,000	2,750,000
2435 - DOT Gas Pipeline Upgrades and Repairs	0	850,000	850,000	250,000	0
2425 - DVR Gas Turbine Control System Upgrade	0	500,000	500,000	800,000	0
2426 - DVR SCR and CO Catalyst Replacement	89,765	410,235	410,235	500,000	0
2408 - Electric Planning and Strategic Services Building and Grounds	16,912	0	0	0	0
2010 - Electric Yard Buildings and Grounds	16,631	638,369	638,369	130,000	130,000
2418 - Esperanca Substation	0	750,000	750,000	0	10,150,000
2004 - Fiber Development, Design, and Expansion	603,940	2,551,231	2,551,231	930,000	830,000
2119 - Generation Capital Maintenance and Betterments	1,330,174	1,572,680	1,572,680	750,000	750,000
2431 - Homestead Substation Rebuild	0	500,000	500,000	0	18,800,000
2439 - Hydro Controls Upgrade	0	175,000	175,000	75,000	75,000
2111 - Implementation of Advanced Metering Infrastructure (AMI)	1,242,657	4,705,812	4,705,812	110,000	0



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	<b>2017/18 Actual</b>	<b>2018/19 Amended</b>	<b>2018/19 Estimate</b>	<b>2019/20 Proposed</b>	<b>2020/21 Proposed</b>
<b>Expenditures</b>					
2403 - Install Fairview Substation	(147,000)	11,386,564	11,386,564	0	0
2404 - Install Phase Shifting Transformer at NRS	2,818,177	6,284,096	6,284,096	0	0
2127 - Major Engine Overhaul and Repair	4,456,707	6,081,795	6,081,795	3,300,000	2,500,000
2427 - Mitsubishi Steam Turbine Major Overhaul	0	2,500,000	2,500,000	0	0
2390 - Network and Cyber Security Infrastructure	440,401	1,149,698	1,149,698	500,000	500,000
2005 - New Business Estimate Work	5,581,654	3,794,837	3,794,837	3,550,000	3,250,000
2422 - Northwestern Substation Expansion	450,325	1,874,662	1,874,662	0	0
2395 - Operations and Planning Technology	119,519	883,660	883,660	0	0
2417 - Outage Management & Communications Program	0	300,000	300,000	0	0
2420 - Overhead Infrastructure Replacement	1,226,768	2,827,728	2,827,728	2,000,000	2,200,000
2433 - Parker Substation	0	3,536,790	3,536,790	0	0
2387 - PC Lifecycle Replacement	77,786	0	0	0	0
2436 - Piping System Repairs	0	300,000	300,000	150,000	150,000
2122 - Power Scheduling	169,928	3,448	3,448	0	0
2125 - Public Benefits Program	0	1,013,476	1,013,476	0	0
2421 - Relocation of Electric Crossings for CalTrain	52,956	2,717,145	2,717,145	0	0
2410 - Replace 115/60kV Transformers	162	11,090,420	11,090,420	7,000,000	7,000,000
2434 - Replace Balance of Plant Control System (DCS)	0	1,500,000	1,500,000	100,000	0
2415 - SCADA EMS	0	268,250	268,250	0	0
2108 - SCADA System II Phase II	47,018	140,842	140,842	0	0
2104 - Serra Substation Re-Build	9,978	15,329,007	15,329,007	3,000,000	0
2126 - Silicon Valley Power Utility Center	7,889	25,014,338	25,014,338	0	14,500,000
2429 - Storm Water Compliance	0	400,000	400,000	0	0
2008 - Substation Capital Maintenance & Betterments	495,380	1,388,442	1,388,442	550,000	600,000
2409 - Substation Protective Relay	256,199	378,408	378,408	250,000	450,000
2424 - Substation Physical Security Improvements	0	500,000	500,000	250,000	0
2405 - SVP Fiber Optic Expansion Project	550,759	0	0	0	0
2106 - System Short Circuit Fault Duty Reduction	12,000	0	0	0	0
2007 - Transmission Capital Maintenance and Betterments	109,882	390,118	390,118	250,000	250,000
2124 - Transmission System Reinforcements	275,444	6,475,290	6,475,290	2,000,000	0
2438 - Underground/Above Ground Tank Replacement and Maintenance	0	300,000	300,000	75,000	0
2423 - Utility Billing CIS Replacement	0	500,000	500,000	3,000,000	4,250,000
2406 - Utility Communications Infrastructure Betterments	108,386	174,732	174,732	150,000	150,000
2437 - Valve Replacement and Repair	0	500,000	500,000	100,000	100,000
2432 - Yard Pavement Project	0	655,000	655,000	235,000	0
<b>Total Expenditures</b>	<b>25,723,336</b>	<b>129,343,364</b>	<b>129,343,364</b>	<b>32,855,000</b>	<b>69,685,000</b>
<b>Ending Fund Balance</b>					
Encumbrance Carryover	3,907,356	3,907,356	3,907,356	3,907,356	3,907,356
Reserve for Public Benefits Program	62,553	62,553	62,553	62,553	62,553
Unrestricted	89,445,713	7,461,998	7,461,998	7,461,998	7,791,998
<b>Total Ending Fund Balance</b>	<b>93,415,622</b>	<b>11,431,907</b>	<b>11,431,907</b>	<b>11,431,907</b>	<b>11,761,907</b>
<b>Total Use of Funds</b>	<b>119,138,958</b>	<b>140,775,271</b>	<b>140,775,271</b>	<b>44,286,907</b>	<b>81,446,907</b>

**Streets and Highways Capital Fund (533)**

	2017/18 Actual	2018/19 Amended	2018/19 Estimate	2019/20 Proposed	2020/21 Proposed
<b>Beginning Fund Balance</b>					
Encumbrance Carryover	1,236,793	2,447,023	2,447,023	1,625,870	1,625,870
Unrestricted	8,240,480	7,140,229	7,140,229	2,378,361	2,378,361
<b>Total Beginning Fund Balance</b>	<b>9,477,273</b>	<b>9,587,252</b>	<b>9,587,252</b>	<b>4,004,231</b>	<b>4,004,231</b>
<b>Revenue</b>					
Other Agencies Revenue	455,665	14,346,748	14,346,748	8,391,000	2,300,000
Other Revenue	116,540	3,504,637	3,504,637	0	0
Interest	31,619	0	0	0	0
State Revenues	761,457	750,000	750,000	750,000	750,000
<b>Total Revenue</b>	<b>1,365,281</b>	<b>18,601,385</b>	<b>18,601,385</b>	<b>9,141,000</b>	<b>3,050,000</b>
<b>Transfers From</b>					
Bridge District #2 Debt Fund	64,000	80,000	80,000	65,000	65,000
Gas Tax Fund	0	3,399,940	3,399,940	4,254,548	2,073,457
General Fund	0	0	0	1,578,562	1,606,090
General Fund - Budget Stabilization Reserve	0	27,600	27,600	0	0
General Fund - Capital Projects Reserve	100,000	413,442	413,442	100,000	100,000
Road Maintenance and Rehabilitation (SB1) Fund	0	2,749,210	2,749,210	2,050,000	2,050,000
Special Gas Tax Fund	0	9,468,603	9,468,603	0	0
Traffic Mitigation Capital Fund	1,354,500	9,094,221	9,094,221	0	0
Traffic Mitigation Fund	0	793,500	593,500	899,500	1,531,500
<b>Total Transfers From</b>	<b>1,518,500</b>	<b>26,026,516</b>	<b>25,826,516</b>	<b>8,947,610</b>	<b>7,426,047</b>
<b>Total Source of Funds</b>	<b>12,361,054</b>	<b>54,215,153</b>	<b>54,015,153</b>	<b>22,092,841</b>	<b>14,480,278</b>
<b>Expenditures</b>					
1239 - Adaptive Signal System	0	350,000	350,000	1,500,000	0
1202 - Agnew Road At-Grade Crossing	2,443	571,307	571,307	0	0
1209 - Agnew Road/De La Cruz Blvd Signal Timing	0	1,118,000	1,118,000	0	0
1213 - Annexed Neighborhood Street Improvements	0	1,464,436	1,464,436	0	0
1203 - Annual Creek Trail Rehabilitation Program	0	200,000	200,000	100,000	100,000
1240 - Annual Curb Ramp Installation	0	4,092,200	4,092,200	0	0
1235 - Annual Street Maintenance and Rehabilitation Program	122,735	14,706,339	14,706,339	4,770,000	6,370,000
1245 - Benton Bicycle Lanes	0	150,000	150,000	0	0
1378 - Bicycle and Pedestrian Improvements	270,355	27,657	27,657	0	0
1206 - Bicycle Lane Improvements on Pruneridge Avenue at Lawrence Expressway	12,145	447,855	447,855	0	0
1379 - Bicycle Plan	16,805	0	0	0	0
1391 - Bowers Avenue Signal Timing Project	0	850,000	850,000	0	0
1325 - Bridge Maintenance Program	544,200	207,644	207,644	65,000	65,000
1217 - Central Control Traffic Signal Upgrade	0	708,622	708,622	212,000	219,000
1227 - Changeable Message Signs	0	1,953,164	1,953,164	0	0
1222 - Citywide Accessible Pedestrian Signal Installation	0	188,768	188,768	0	200,000
1214 - Coleman Avenue Widening	0	189,797	189,797	0	0
1201 - Creek Trail Network Expansion Master Plan	159,420	0	0	0	0
1326 - Development Extensions	0	724,219	724,219	0	0
1199 - PW Capital Projects Management	0	0	0	1,578,562	1,606,090



**Streets and Highways Capital Fund (533)**

	<b>2017/18 Actual</b>	<b>2018/19 Amended</b>	<b>2018/19 Estimate</b>	<b>2019/20 Proposed</b>	<b>2020/21 Proposed</b>
<b>Expenditures</b>					
1208 - Homestead Road Signal Timing	14,580	649,700	649,700	0	0
1243 - Install Sidewalks on San Tomas Expressway	0	60,119	60,119	0	0
1242 - Intersection Improvements - El Camino Real at San Tomas Expressway - Phase "B"	0	330,615	330,615	0	0
1390 - Lafayette Street Signal Timing Project	0	1,123,750	1,123,750	0	0
1212 - LED Traffic Signal & Safety Light Replacements	0	406,692	406,692	400,000	0
1207 - Lick Mill Blvd Signal Timing	5,828	526,300	526,300	0	0
1237 - MCB/GAP Intersection Improvement Project	0	6,774,198	6,774,198	0	0
1210 - Mission College Bike Lanes Project	0	476,355	476,355	0	0
1366 - Mission College Boulevard Traffic Signal Timing and Interconnect	34,494	0	0	0	0
1211 - Neighborhood Traffic Calming	0	543,610	543,610	0	150,000
1370 - Pedestrian and Bicycle Access to Central Park	0	5,714	5,714	0	0
1220 - Pedestrian and Bicycle Enhancement Facilities	0	265,667	265,667	200,000	200,000
1238 - Pedestrian Crosswalk Sensors	0	150,000	150,000	150,000	150,000
1233 - Pedestrian Master Plan	0	307,135	307,135	0	0
1205 - Pepper Tree Neighborhood Traffic Calming Study	3,648	89,745	89,745	0	0
1230 - Public Right-of-Way Landscaping Improvement	0	309,566	309,566	0	0
1224 - Replacement of Traffic Signals in ECR- Lafayette St.-Newhall St.-Scott Blvd. Area	0	1,291,000	1,291,000	0	0
1228 - Replacement of Underground Traffic Signal Infrastructure	0	70,122	70,122	50,000	0
1385 - Santa Clara Citywide ITS Project 1 (Tasman, GAP, Homestead, etc.)	0	328,000	328,000	0	0
1386 - Santa Clara Citywide ITS Project 2 (Lafayette, Benton, and Monroe)	40,099	459,901	459,901	0	0
1225 - Santa Clara Valley Transportation Authority - Congestion Management Program	0	266,135	266,135	254,548	263,457
1231 - Santa Clara Various Streets and Roads Preservation (OBAG 2)	0	0	0	3,956,000	0
1375 - Saratoga Avenue Signal Timing and Interconnect Project	196,593	0	0	0	0
1204 - Saratoga Creek Trail (Homeridge Park to Central Park)	577,675	1,006,965	1,006,965	3,735,000	0
1244 - Scott Boulevard Signal Timing	0	510,000	510,000	0	0
1215 - Sidewalk Installation Program	0	114,062	114,062	0	0
1382 - Sidewalk, Curb and Gutter Repair	380,350	383,816	383,816	380,000	390,000
1392 - SRTS Pedestrian Infrastructure Improvements Project	0	498,022	498,022	0	0
1374 - Stevens Creek Boulevard Bus Priority Project	25,462	20,155	20,155	0	0
1368 - Stevens Creek Boulevard Traffic Signal Timing and Interconnect	27,543	0	0	0	0
1377 - Tasman Drive Bicycle Lanes Project	295,086	0	0	0	0
1221 - Traffic Monitoring at Various Locations - Phase "C"	0	209,712	209,712	37,500	87,500
1218 - Traffic Pre-Emptors	0	258,637	258,637	300,000	0
1223 - Traffic Signal Controller Replacement	0	261	261	0	125,000



**Streets and Highways Capital Fund (533)**

	<b>2017/18 Actual</b>	<b>2018/19 Amended</b>	<b>2018/19 Estimate</b>	<b>2019/20 Proposed</b>	<b>2020/21 Proposed</b>
<b>Expenditures</b>					
1357 - Traffic Signal Controller Upgrade	0	80,872	80,872	400,000	0
1219 - Traffic Signal Enhancements	0	206,264	206,264	0	250,000
1229 - Traffic Signal Installation – Pruneridge Ave/Cronin Dr Intersection	0	693,716	693,716	0	0
1232 - Traffic Signal Interconnect Upgrade	0	0	0	0	100,000
1236 - Traffic Signal Modification - El Camino- Lafayette	0	1,322,967	1,322,967	0	0
1241 - Traffic Signal Modification - San Tomas Expressway at Homestead Road Phase "B"	0	25,194	25,194	0	0
1216 - Traffic Studies and Signal Needs Assessment/Upgrade	0	224,181	224,181	0	0
1234 - Travel Demand Model Update	0	0	0	0	200,000
1226 - Uncontrolled Crosswalks Improvements	0	2,009,958	2,009,958	0	0
1376 - Vehicle Emissions Reductions Based in School (VERBS) Phase 2	44,341	61,808	61,808	0	0
<b>Total Expenditures</b>	<b>2,773,802</b>	<b>50,010,922</b>	<b>50,010,922</b>	<b>18,088,610</b>	<b>10,476,047</b>
<b>Ending Fund Balance</b>					
Encumbrance Carryover	2,447,023	1,625,870	1,625,870	1,625,870	1,625,870
Unrestricted	7,140,229	2,578,361	2,378,361	2,378,361	2,378,361
<b>Total Ending Fund Balance</b>	<b>9,587,252</b>	<b>4,204,231</b>	<b>4,004,231</b>	<b>4,004,231</b>	<b>4,004,231</b>
<b>Total Use of Funds</b>	<b>12,361,054</b>	<b>54,215,153</b>	<b>54,015,153</b>	<b>22,092,841</b>	<b>14,480,278</b>

## Budget Summary

		FY 2017/18 Actuals <sup>1</sup>	FY 2018/19 Adopted <sup>1</sup>	FY 2019/20 Proposed	FY 2019/20 Change %	FY 2020/21 Proposed	FY 2020/21 Change %
<b>Dollars by Division / Program</b>							
<b>Administrative Services Division</b>							
1316	Administrative Services <sup>1</sup>	31,811,017	35,268,197	29,538,068	(16.2%)	31,267,255	5.9%
<b>Total Administrative Services Division</b>		<b>31,811,017</b>	<b>35,268,197</b>	<b>29,538,068</b>	<b>(16.2%)</b>	<b>31,267,255</b>	<b>5.9%</b>
<b>Electric Debt Service<sup>2</sup></b>							
1335	Phase Shifting Transformer	0	0	0	0.0%	0	0.0%
1342	2013A Revenue Bonds	0	0	0	0.0%	0	0.0%
1343	2018A Revenue Bond	0	0	0	0.0%	0	0.0%
1348	2008B Revenue Bonds	0	0	0	0.0%	0	0.0%
1349	2011A Revenue Bonds	0	0	0	0.0%	0	0.0%
<b>Total Electric Debt Service</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0%</b>	<b>0</b>	<b>0.0%</b>
<b>Revenue and Resources Division</b>							
1321	Revenues and Resources Costs <sup>1,3</sup>	259,244,335	313,611,219	375,356,706	19.7%	431,660,964	15.0%
<b>Total Revenue and Resources Division</b>		<b>259,244,335</b>	<b>313,611,219</b>	<b>375,356,706</b>	<b>19.7%</b>	<b>431,660,964</b>	<b>15.0%</b>
<b>Utility Operations Division</b>							
1351	SVP Systems Support	4,374,159	5,851,538	6,284,780	7.4%	6,588,004	4.8%
1362	Power System Controls	3,844,003	4,292,726	4,042,223	(5.8%)	4,088,461	1.1%
1371	Communications and Meter Technical Support	1,193,557	1,793,830	2,072,653	15.5%	1,989,661	(4.0%)
1372	Substation Maintenance	3,427,051	3,827,396	4,626,095	20.9%	4,767,140	3.0%
1376	Transmission and Distribution	8,002,917	10,145,853	11,634,558	14.7%	12,038,991	3.5%
1377	Generation	12,447,297	12,319,481	14,346,530	16.5%	14,255,480	(0.6%)
1378	Field Administration	1,079,358	313,478	0	(100%)	0	0.0%
<b>Total Utility Operations Division</b>		<b>34,368,342</b>	<b>38,544,302</b>	<b>43,006,839</b>	<b>11.6%</b>	<b>43,727,737</b>	<b>1.7%</b>
<b>Business Services Division</b>							
1311	Rates and Budget	880,147	1,055,193	1,434,650	36.0%	1,406,015	(2.0%)
1324	Electric Compliance	1,031,782	1,618,177	2,467,013	52.5%	2,519,147	2.1%
1358	Risk Management	3,006,139	3,272,920	3,510,147	7.2%	3,466,684	(1.2%)
<b>Total Business Services Division</b>		<b>4,918,068</b>	<b>5,946,290</b>	<b>7,411,810</b>	<b>24.6%</b>	<b>7,391,846</b>	<b>(0.3%)</b>
<b>Customer Development and Project Management Division</b>							
1313	Key Accounts	1,978,685	2,117,190	2,288,800	8.1%	2,397,523	4.8%
1317	Fiber Enterprise	693,851	1,209,116	1,403,036	16.0%	1,478,432	5.4%
1361	SVP Engineering <sup>3</sup>	6,077,193	8,352,596	9,256,597	10.8%	9,736,510	5.2%
<b>Total Customer Development and Project Management Division</b>		<b>8,749,729</b>	<b>11,678,902</b>	<b>12,948,433</b>	<b>10.9%</b>	<b>13,612,465</b>	<b>5.1%</b>

<sup>1</sup> Programs 1316 and 1321 have been restructured, starting FY 2019/20. FY 2017/18 Actuals and FY 2018/19 Adopted expenses have been restated in line with FY 2019/20 accounting, to exhibit spending trend based on similar activities.

<sup>2</sup> The Electric Debt Service budget information can be found under the Debt Service section of this document.

<sup>3</sup> Starting with the FY 2019/20 Adopted Budget, transfers to other funds are included in departmental costs and reflected in the Dollars by Category section.





## Budget Summary

		FY 2017/18 Actuals	FY 2018/19 Adopted	FY 2019/20 Proposed	FY 2019/20 Change %	FY 2020/21 Proposed	FY 2020/21 Change %
<b>Dollars by Division / Program</b>							
<b>Resource Planning and Engagement Division</b>							
1312	Public Benefits	6,110,665	12,207,191	12,456,666	2.0%	13,397,474	7.6%
1315	Green Power Program	835,441	1,000,000	1,000,000	0.0%	1,030,000	3.0%
1319	SVP Electric Vehicle Program	0	0	2,405,000	100.0%	2,047,500	(14.9%)
1325	Greenhouse Gas Program <sup>1</sup>	0	0	18,295,719	100.0%	20,230,648	10.6%
1353	Joint Action Coordination	4,441,995	5,612,985	0	(100.0%)	0	0.0%
1356	Resource Management	4,471,529	5,224,430	10,652,812	103.9%	11,039,528	3.6%
1359	GHG Resources	137,657	0	0	0.0%	0	0.0%
<b>Total Resource Planning and Engagement Division</b>		<b>15,997,287</b>	<b>24,044,606</b>	<b>44,810,197</b>	<b>86.4%</b>	<b>47,745,150</b>	<b>6.5%</b>
<b>Total by Division / Program</b>		<b>355,088,778</b>	<b>429,093,516</b>	<b>513,072,053</b>	<b>19.6%</b>	<b>575,405,417</b>	<b>12.1%</b>
<b>Dollars by Fund</b>							
Electric Utility Fund <sup>1</sup>		348,950,879	416,886,325	479,914,668	15.1%	539,729,795	12.5%
Electric Operating Grant Trust Fund <sup>1</sup>		6,113,684	12,207,191	33,157,385	171.6%	35,675,622	7.6%
Other City Departments Operating Grant Fund		24,215	0	0	0.0%	0	0.0%
<b>Total by Fund</b>		<b>355,088,778</b>	<b>429,093,516</b>	<b>513,072,053</b>	<b>19.6%</b>	<b>575,405,417</b>	<b>12.1%</b>

<sup>1</sup>Starting with the FY 2019/20 Adopted Budget, transfers to other funds are included in departmental costs and reflected in the Dollars by Category section.