

SMUD Acquisition Study, Scenario 4, All Regions, Build Option
Comparison of Capital Assets in R.W. Beck Report with PG&E Inventory/Beck Report Comparison

item	Description	Unit	Quantity		Unit Price		Replacement Cost New (RCN)		Difference	
			Beck	PG&E	Beck	PG&E	Beck	PG&E		
Substations										
1	West Sacramento	MVA	90	115	\$70,171	\$125,361	\$6,315,387	\$14,416,472	\$8,101,085	
2	Deepwater	MVA	16	16	\$84,441	\$169,580	\$1,351,056	\$2,713,274	\$1,362,218	
3	Davis	MVA	120	135	\$60,277	\$65,401	\$7,233,206	\$8,829,200	\$1,595,994	
4	Woodland	MVA	135	120	\$56,646	\$74,865	\$7,647,224	\$8,983,816	\$1,336,592	
5	Plainfield	MVA	12	10	\$48,831	\$104,738	\$585,972	\$1,047,381	\$461,409	
	Subtotal Distbn. Substation		373	396			\$23,132,845	\$35,990,143	\$12,857,298	
6	Tyco Plastics	MVA	10.50	0	\$79,672	\$0	\$836,556	\$0	(\$836,556)	
7	Hunt	MVA	10.50	0	\$92,245	\$0	\$968,570	\$0	(\$968,570)	
8	Post Office	MVA	11.20	0	\$167,671	\$0	\$1,877,915	\$0	(\$1,877,915)	
	Subtotal Cust Subs		32.20	0.00			\$3,683,041	\$0	(\$3,683,041)	
	Total Substations		405	396			\$26,815,886	\$35,990,143	\$9,174,257	
9	Transmission	mi	137.86	138.23			\$54,669,880	\$71,175,834	\$16,505,954	
10	R/Ws						\$0	\$7,500,000	\$7,500,000	
	Total Transmission	mi	137.86	138.23	\$396,561	\$569,166	\$54,669,880	\$78,675,834	\$24,005,954	
Feeders										
11	12kv Overhead	mi	442.94	537.03	\$25,593	\$37,589	\$11,336,251	\$20,186,188	\$8,849,937	
12	12kv Underground	mi	259.65	353.53	\$108,030	\$273,246	\$28,050,074	\$96,600,739	\$68,550,665	
	Total Feeders		702.59	890.56			\$39,386,325	\$116,786,927	\$77,400,602	
13	Trenching	mi	0	353		\$237,962	\$0	\$84,000,645	\$84,000,645	
14	Distribution R/W's	Unit	0	4,600		\$3,500	\$0	\$16,100,000	\$16,100,000	
Poles										
15	Poles w/Hardware	Unit	10,999	18,588	\$2,103	\$946	\$23,138,717	\$17,576,098	(\$5,562,619)	
Transformers										
OH transformers										
16	5KVA	Unit	47	137	\$822	\$1,051	\$38,657	\$144,001	\$105,344	
17	10KVA	Unit	616	1027	\$822	\$1,111	\$506,654	\$1,140,738	\$634,084	
18	15KVA	Unit	536	821	\$832	\$1,157	\$446,215	\$949,624	\$503,409	
19	25KVA	Unit	1,467	1289	\$1,061	\$1,298	\$1,557,044	\$1,673,314	\$116,270	
20	37.5KVA	Unit	399	725	\$1,249	\$1,692	\$498,351	\$1,226,482	\$728,131	
21	50KVA	Unit	961	638	\$1,671	\$1,698	\$1,605,831	\$1,083,564	(\$522,267)	
22	75KVA	Unit	230	287	\$1,766	\$3,027	\$406,180	\$868,841	\$462,661	
23	100KVA	Unit	70	85	\$1,858	\$3,079	\$130,060	\$261,744	\$131,684	
24	167KVA	Unit	4	0	\$3,547		\$14,190	\$0	(\$14,190)	
25	45KVA 3PH	Unit	23	96	\$1,670	\$3,076	\$38,410	\$295,320	\$256,910	
26	75KVA 3PH	Unit		65		\$2,951		\$191,809	\$191,809	
27	100KVA 3PH	Unit		74		\$2,997		\$221,771	\$221,771	
28	112.5KVA 3PH	Unit	48		\$3,360		\$161,304		(\$161,304)	
29	150KVA 3PH	Unit	31	59	\$3,547	\$4,702	\$109,957	\$277,436	\$167,479	
30	225KVA 3PH	Unit	7	23	\$3,733	\$4,702	\$26,134	\$108,154	\$82,020	
31	250KVA 3PH	Unit	3	6	\$3,733	\$4,702	\$11,200	\$28,214	\$17,014	
32	500KVA 3PH	Unit	3		\$3,733		\$11,200		(\$11,200)	
	OH Total		4,445	5,332			\$5,561,388	\$8,471,012	\$2,909,624	
Pad Mount										
33	15KVA	Unit	1		\$1,432		\$1,432	\$0	(\$1,432)	
34	25KVA	Unit	1	70	\$1,432	\$3,184	\$1,432	\$222,905	\$221,473	
35	37.5KVA	Unit	4		\$7,401		\$29,604	\$0	(\$29,604)	
36	50KVA	Unit	362	240	\$1,851	\$3,175	\$670,062	\$761,896	\$91,834	
37	75KVA	Unit	186	180	\$2,454	\$3,719	\$456,535	\$669,438	\$212,903	
38	100KVA	Unit	182	590	\$2,871	\$4,158	\$522,522	\$2,453,101	\$1,930,579	
39	167KVA	Unit	4		\$2,964	\$0	\$11,856	\$0	(\$11,856)	
40	45KVA 3PH	Unit	14		\$2,124	\$0	\$29,736	\$0	(\$29,736)	
41	50KVA 3PH	Unit	4		\$1,850	\$0	\$7,400	\$0	(\$7,400)	
42	75KVA 3PH	Unit	172	254	\$3,780	\$7,134	\$650,160	\$1,812,121	\$1,161,961	
43	112.5KVA 3PH	Unit	23		\$4,309	\$0	\$99,107	\$0	(\$99,107)	
44	150KVA 3PH	Unit	231	247	\$7,287	\$7,271	\$1,683,297	\$1,796,018	\$112,721	
45	225KVA 3PH	Unit	6	119	\$8,058	\$7,354	\$48,348	\$875,146	\$826,798	
46	300KVA 3PH	Unit	159	177	\$8,930	\$7,884	\$1,419,948	\$1,395,508	(\$24,440)	
47	500KVA 3PH	Unit	44	75	\$10,844	\$15,900	\$477,136	\$1,192,506	\$715,370	
48	750KVA 3PH	Unit	28	71	\$15,126	\$16,080	\$423,528	\$1,141,700	\$718,172	
49	1000KVA 3PH	Unit	34	32	\$16,294	\$16,489	\$553,996	\$527,638	(\$26,358)	
50	1500KVA 3PH	Unit	28	22	\$24,818	\$32,404	\$694,904	\$712,878	\$17,974	
51	2000KVA 3PH	Unit	3		\$30,039		\$90,117	\$0	(\$90,117)	
52	2500KVA 3PH	Unit	1	16	\$30,039	\$32,404	\$30,039	\$518,457	\$488,418	
53	3000KVA 3PH	Unit	1		\$30,039		\$30,039	\$0	(\$30,039)	

54	5000KVA 3PH	Unit	1		\$30,039		\$30,039	0	(\$30,039)
	Total Pad Mount		1,489	2,093			\$8,092,993	\$14,079,312	\$5,986,319
	Subsurface								
55	50KVA	Unit	496		\$2,124		\$1,053,504		(\$1,053,504)
56	75KVA	Unit	20	750	\$2,541	\$7,145	\$50,820	\$5,358,713	\$5,307,893
57	100KVA	Unit	365	627	\$2,957	\$7,806	\$1,079,400	\$4,894,487	\$3,815,087
58	112.5KVA 3PH	Unit	9		\$4,303		\$38,727		(\$38,727)
59	150KVA 3PH	Unit	26		\$7,290		\$189,540		(\$189,540)
60	225KVA 3PH	Unit	1		\$8,163		\$8,163		(\$8,163)
61	300KVA 3PH	Unit	23		\$9,034		\$207,782		(\$207,782)
62	500kVA 3PH	Unit	21		\$10,965		\$230,265		(\$230,265)
63	1000KVA 3PH	Unit	1		\$15,265		\$15,265		(\$15,265)
64	1500KVA 3PH	Unit	1		\$25,096		\$25,096		(\$25,096)
65	2500KVA 3PH	Unit	2		\$30,318		\$60,636		(\$60,636)
66	3000KVA 3PH	Unit	1		\$30,318		\$30,318		(\$30,318)
	Total subsurface		966	1,377			\$2,989,516	\$10,253,200	\$7,263,684
	Total UG Transformers		2,455	3,470			\$11,082,509	\$24,332,512	\$13,250,003
	OH Low Voltage Circuit								
67	OH Secondary	mi	55.760	134.25	* \$25,343.38	\$10,877	\$1,413,147	\$1,460,301	\$47,154
	UG Low Voltage Circuit								
68	UG Secondary	mi	140.37	240.4	* \$115,406	\$21,121	\$16,199,128	\$5,077,372	(\$11,121,756)
	Total Low Voltage Circuits		196.13	374.65			\$17,612,275	\$6,537,673	(\$11,074,602)
	Service Drops								
69	OH Services	Unit	40,682	45017	\$326.04	\$280	\$13,194,131	\$12,604,760	(\$589,371)
70	UG Services	Unit	0	24239	\$0	\$1,021	\$0	\$24,748,292	\$24,748,292
	Total Svc. Drops		40,682	69,256			\$13,194,131	\$37,353,052	\$24,158,921
	Meters								
71	Residential	Unit	36,613	65938	\$131	\$60	\$4,791,264	\$3,956,280	(\$834,984)
72	Commercial	Unit	3,661	4059	\$290	\$775	\$1,061,294	\$3,145,725	\$2,084,431
73	Industrial	Unit	407	3	\$538	\$80,000	\$218,984	\$240,000	\$21,016
	Total Meters		40,681	70,000			\$6,071,543	\$7,342,005	\$1,270,462
	Risers								
74	Three-phase Riser 3# 1000 MCM /	Unit	117	0	\$496		\$58,032	\$0	(\$58,032)
75	Three-phase Riser 3# 350 Al	Unit	12	0	\$408		\$4,896	0	(\$4,896)
76	Three-phase Riser 3# 4/0 Al	Unit	7	0	\$408		\$2,856	\$0	(\$2,856)
77	Three-phase Riser 3# 1/0 Al	Unit	380	0	\$371		\$140,980	\$0	(\$140,980)
78	Three-phase Riser 2# 1/0 A	Unit	157	0	\$371		\$58,247	\$0	(\$58,247)
	Total Risers		673	0			\$265,011	\$0	(\$265,011)
	Switches								
79	OH Switch	Unit	407	567	\$3,475	\$15,000	\$1,414,169	\$8,505,000	\$7,090,831
80	OH Cutouts/fuses	Set	297	1064	* \$1,370	\$4,000	\$406,827	\$4,256,000	\$3,849,173
81	Pad Mount Switch	Unit	114	48	* \$6,574	\$35,000	\$749,445	\$1,680,000	\$930,555
82	Subsurface	Unit	169	378	* \$6,868	\$15,061	\$1,160,649	\$5,693,000	\$4,532,351
	Total Switches		987	2,057			\$3,731,090	\$20,134,000	\$16,402,910
83	Recloser	Unit	31	33	\$9,404	\$50,000	\$291,523	\$1,650,000	\$1,358,477
	Capacitor Banks								
84	OH Capacitor	Unit	176	213	* \$6,105	\$16,000	\$1,074,482	\$3,408,000	\$2,333,518
85	PM Capacitor	Unit	13	6	\$8,623	\$30,000	\$129,955	\$180,000	\$50,045
	Total Capacitors		189	219			\$1,204,437	\$3,588,000	\$2,383,563
	Regulators								
86	Voltage Regulator	Unit	8	5	\$1,810	\$50,000	\$14,483	\$250,000	\$235,517
	Misc Equipment								
87	OH Booster	Unit	0	7	\$0	\$6,000	\$0	\$42,000	\$42,000
88	PM Fuses	Unit	0	106	\$0	\$25,000	\$0	\$2,650,000	\$2,650,000
89	SS Fuses	Unit	0	21	\$0	\$35,000	\$0	\$735,000	\$735,000
90	Interruption	Unit	0	6	\$0	\$75,000	\$0	\$450,000	\$450,000
91	Jbox	Unit	0	359	\$0	\$6,000	\$0	\$2,154,000	\$2,154,000
	Total Misc Equipment		0	499			\$0	\$6,031,000	\$6,031,000
92	Street Lights						\$0	\$1,827,518	\$1,827,518
	Less Davis 1107 Adjustment						-\$2,112,673	\$0	\$2,112,673
	Total SMUD Acquisition						\$200,926,524	\$466,646,419	\$265,719,895