

M&I 2020 Sch A-5 F.Z22.XLSM  
9/23/2019

CENTRAL VALLEY PROJECT  
SCHEDULE OF M&I CONSTRUCTION AND PROJECT USE ENERGY COSTS BY COMPONENT  
AS OF SEPTEMBER 30, 2018  
2020 M&I WATER RATES

A	B	C	D	E	F	G	
Facility/Contractor  Ref	M&I Construction Cost at 09/30/18 <Cost Allocation>	Allocation of Project Use Energy Construction Costs			CVP PUE Construction Costs as of 9/30/18 (BOR) <sup>2/</sup> (D*Total PUE BOR)	CVP PUE Construction Costs as of 9/30/18 (DOE) <sup>2/</sup> (D*Total PUE DOE)	Total M&I Construction Costs at 09/30/18 (B+E+F)
		Historical & Projected (1981-2030) KWH Per AF <sup>2/</sup> <Sch A-7 & CVO>	Ratio of Total (C/Total C)				
<b>Storage</b> <sup>1/</sup>							
San Felipe Unit Contractors	\$ 6,994,203	-	-	\$ -	\$ -	\$ 6,994,203	
All Other Contractors	\$ 27,913,463	176,312,186	0.031440	\$ 567,485	\$ 431,067	\$ 28,912,015	
Total Storage	\$ 34,907,666	176,312,186	0.031440	\$ 567,485	\$ 431,067	\$ 35,906,218	
<b>Conveyance</b>							
Contra Costa WD <sup>3/</sup>	\$ -					\$ -	
All Other Contractors	\$ 20,460,837					\$ 20,460,837	
Total Conveyance	\$ 20,460,837					\$ 20,460,837	
<b>Conveyance Pumping</b>							
Dos Amigos Pumping Plant	\$ 211,958	87,667,030	0.015633	\$ 282,168	\$ 214,338	\$ 708,465	
O'Neill Pump-Generator Plant	\$ 1,244,413	279,511,897	0.049842	\$ 899,647	\$ 683,381	\$ 2,827,441	
Jones Pumping Plant	\$ 1,735,248	1,777,309,955	0.316926	\$ 5,720,516	\$ 4,345,360	\$ 11,801,124	
Total Conveyance Pumping	\$ 3,191,619	2,144,488,882	0.382401	\$ 6,902,332	\$ 5,243,079	\$ 15,337,029	
<b>Direct Pumping</b>							
Bella Vista WD (Wintu PP)	\$ 320,129	68,789,358	0.012266	\$ 221,408	\$ 168,184	\$ 709,721	
Colusa County WD	\$ 36,348	707,143	0.000126	\$ 2,276	\$ 1,729	\$ 40,353	
Contra Costa Pumping Plants	\$ -	852,610,809	0.152036	\$ 2,744,245	\$ 2,084,555	\$ 4,828,800	
Kanawha WD	\$ 414	6,465	0.000001	\$ 21	\$ 16	\$ 450	
Pleasant Valley Canalside Relifts	\$ 19,565	3,860,708	0.000688	\$ 12,426	\$ 9,439	\$ 41,430	
Pleasant Valley Pumping Plant	\$ 158,846	49,334	0.000009	\$ 159	\$ 121	\$ 159,125	

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Facility/Contractor	M&I Construction Cost at 09/30/18 <Cost Allocation>	Allocation of Project Use Energy Construction Costs			CVP PUE Construction Costs as of 9/30/18 (BOR) <sup>2/</sup>	CVP PUE Construction Costs as of 9/30/18 (DOE) <sup>2/</sup>	Total M&I Construction Costs at 09/30/18 (B+E+F)
Ref		Historical & Projected (1981-2030) KWH Per AF <sup>2/</sup> <Sch A-7 & CVO>	Ratio of Total (C/Total C)	CVP PUE Construction Costs as of 9/30/18 (BOR) <sup>2/</sup> (D*Total PUE BOR)	CVP PUE Construction Costs as of 9/30/18 (DOE) <sup>2/</sup> (D*Total PUE DOE)		
San Benito County WD							
Pacheco Pumping Plant	\$ -	33,166,467	0.005914	\$ 106,751	\$ 81,089	\$ 187,840	
Gianelli, William R. Pump-Generator Plant <sup>1/</sup>	\$ 28,171	50,017,936	0.008919	\$ 160,990	\$ 122,289	\$ 311,450	
San Luis WD Canalside Relifts & Turnouts	\$ 120,398	12,085,980	0.002155	\$ 38,900	\$ 29,549	\$ 188,847	
Santa Clara Valley WD							
Coyote Pumping Plant	\$ -	226,918,560	0.040464	\$ 730,369	\$ 554,795	\$ 1,285,164	
Pacheco Pumping Plant	\$ -	788,401,344	0.140586	\$ 2,537,578	\$ 1,927,569	\$ 4,465,147	
Gianelli, William R. Pump-Generator Plant <sup>1/</sup>	\$ 669,660	1,188,978,240	0.212016	\$ 3,826,890	\$ 2,906,943	\$ 7,403,492	
Shasta Pumping Plant	\$ 314,152	44,509,201	0.007937	\$ 143,259	\$ 108,821	\$ 566,232	
State-Delta Pumping Plant (Cross Valley Canal)	\$ -	2,984,553	0.000532	\$ 9,606	\$ 7,297	\$ 16,903	
Westlands WD Canalside Relift PP	\$ 529,520	14,072,539	0.002509	\$ 45,294	\$ 34,406	\$ 609,220	
Total Direct Pumping	\$ 2,197,202	3,287,158,637	0.586159	\$ 10,580,171	\$ 8,036,801	\$ 20,814,174	
Other Costs <sup>4/</sup>	\$ 4,855,277					\$ 4,855,277	
Total	\$ 65,612,601	5,607,959,705	1.000000	\$ 18,049,988	\$ 13,710,947	\$ 97,373,536	

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Footnotes:

1/ Allocation of Storage Costs:

	San Felipe Unit			All Other Storage Contractors	Total
	Storage	Suballocation of Storage Costs (Dir. Pump. Appl. to SL/PG)			
		San Benito County WD	Santa Clara Valley WD		
Historical and Projected 1981-2030 M&I Deliveries (Sch A-7)	3,908,505	157,785	3,750,720	14,183,529	18,092,034
Ratios	0.216035	0.040370	0.959630	0.783965	1.000000
Allocated Gianelli, WR Pump-Generator Costs	\$ 697,831	\$ 28,171	\$ 669,660	\$ 2,532,344	\$ 3,230,175
Allocated Other Storage Costs	\$ 6,994,203	\$ -	\$ -	\$ 25,381,119	\$ 32,375,321
Total	<u>\$ 7,692,033</u>	<u>\$ 28,171</u>	<u>\$ 669,660</u>	<u>\$ 27,913,463</u>	<u>\$ 35,605,497</u>

2/ These costs represent the total Pumping Project Use Power costs allocated to Irrigation for the CVP Bureau of Reclamation (BOR) and Western Area Power Administration (DOE). The costs are allocated to components based on the ratios identified above under "Allocation of Project Use Energy Costs". They are then suballocated to individual facilities based on the historical and projected 1981-2030 KWHs/AF.

3/ Allocated costs are recovered through a repayment contract.

4/ This amount includes Level 2 Refuge Water Supply and Trinity River Restoration Program