



M&I 2021 Sch A-5 F.Z23.XLSM
09/18/2020

CENTRAL VALLEY PROJECT
SCHEDULE OF M&I CONSTRUCTION AND PROJECT USE ENERGY COSTS BY COMPONENT
AS OF SEPTEMBER 30, 2019
2021 M&I WATER RATES

A	B	C	D	E	F	G
Facility/Contractor Ref	M&I Construction Cost at 09/30/19 <Cost Allocation>	Allocation of Project Use Energy Construction Costs				Total M&I Construction Costs at 09/30/19 (B+E+F)
		Historical & Projected (1981-2030) KWH Per AF ^{2/} <Sch A-7 & CVO>	Ratio of Total (C/Total C)	CVP PUE Construction Costs as of 09/30/19 (BOR) ^{2/} (D*Total PUE BOR)	CVP PUE Construction Costs as of 09/30/19 (DOE) ^{2/} (D*Total PUE DOE)	
Storage ^{1/}						
San Felipe Unit Contractors	\$ 10,178,654	-	-	\$ -	\$ -	\$ 10,178,654
All Other Contractors	\$ 39,508,213	176,763,055	0.031503	\$ 563,543	\$ 487,113	\$ 40,558,869
Total Storage	\$ 49,686,867	176,763,055	0.031503	\$ 563,543	\$ 487,113	\$ 50,737,523
Conveyance						
Contra Costa WD ^{3/}	\$ -					\$ -
All Other Contractors	\$ 26,082,397					\$ 26,082,397
Total Conveyance	\$ 26,082,397					\$ 26,082,397
Conveyance Pumping						
Dos Amigos Pumping Plant	\$ 281,406	87,590,610	0.015611	\$ 279,250	\$ 241,377	\$ 802,033
O'Neill Pump-Generator Plant	\$ 2,459,184	281,331,014	0.050139	\$ 896,919	\$ 775,275	\$ 4,131,379
Jones Pumping Plant	\$ 2,447,221	1,783,809,650	0.317913	\$ 5,687,015	\$ 4,915,715	\$ 13,049,950
Total Conveyance Pumping	\$ 5,187,811	2,152,731,274	0.383663	\$ 6,863,184	\$ 5,932,366	\$ 17,983,362
Direct Pumping						
Bella Vista WD (Wintu PP)	\$ 472,981	67,811,994	0.012086	\$ 216,193	\$ 186,872	\$ 876,047
Colusa County WD	\$ 28,522	690,486	0.000123	\$ 2,201	\$ 1,903	\$ 32,626
Contra Costa Pumping Plants	\$ -	831,289,198	0.148153	\$ 2,650,257	\$ 2,290,816	\$ 4,941,073
Kanawha WD	\$ 787	8,397	0.000001	\$ 27	\$ 23	\$ 837
Pleasant Valley Canalside Relifts	\$ 26,035	3,843,804	0.000685	\$ 12,255	\$ 10,593	\$ 48,882
Pleasant Valley Pumping Plant	\$ 206,650	49,118	0.000009	\$ 157	\$ 135	\$ 206,942

CENTRAL VALLEY PROJECT
SCHEDULE OF M&I CONSTRUCTION AND PROJECT USE ENERGY COSTS BY COMPONENT
AS OF SEPTEMBER 30, 2019
2021 M&I WATER RATES

A	B	C	D	E	F	G	
Facility/Contractor Ref	M&I Construction Cost at 09/30/19 <Cost Allocation>	Allocation of Project Use Energy Construction Costs			CVP PUE Construction Costs as of 09/30/19 (BOR) ^{2/} (D*Total PUE BOR)	CVP PUE Construction Costs as of 09/30/19 (DOE) ^{2/} (D*Total PUE DOE)	Total M&I Construction Costs at 09/30/19 (B+E+F)
		Historical & Projected (1981-2030) KWH Per AF ^{2/} <Sch A-7 & CVO>	Ratio of Total (C/Total C)	CVP PUE Construction Costs as of 09/30/19 (BOR) ^{2/} (D*Total PUE BOR)			
San Benito County WD							
Pacheco Pumping Plant	\$ -	38,194,451	0.006807	\$ 121,769	\$ 105,254	\$ 227,023	
Gianelli, William R. Pump-Generator Plant ^{1/}	\$ 42,483	57,600,576	0.010266	\$ 183,638	\$ 158,732	\$ 384,853	
San Luis WD Canalside Relifts & Turnouts	\$ -	12,158,461	0.002167	\$ 38,763	\$ 33,506	\$ 72,268	
Santa Clara Valley WD							
Coyote Pumping Plant	\$ -	227,267,766	0.040504	\$ 724,559	\$ 626,291	\$ 1,350,850	
Pacheco Pumping Plant	\$ -	789,614,588	0.140726	\$ 2,517,393	\$ 2,175,972	\$ 4,693,365	
Gianelli, William R. Pump-Generator Plant ^{1/}	\$ 878,280	1,190,807,919	0.212227	\$ 3,796,449	\$ 3,281,556	\$ 7,956,286	
Shasta Pumping Plant	\$ 314,152	45,256,770	0.008066	\$ 144,284	\$ 124,716	\$ 583,152	
State-Delta Pumping Plant (Cross Valley Canal)	\$ -	2,901,987	0.000517	\$ 9,252	\$ 7,997	\$ 17,249	
Westlands WD Canalside Relift PP	\$ 704,631	14,010,922	0.002497	\$ 44,669	\$ 38,610	\$ 787,910	
Total Direct Pumping	\$ 2,674,522	3,281,506,437	0.584834	\$ 10,461,865	\$ 9,042,977	\$ 22,179,363	
Other Costs ^{4/}	\$ 6,220,873					\$ 6,220,873	
Total	\$ 89,852,469	5,611,000,766	1.000000	\$ 17,888,593	\$ 15,462,456	\$ 123,203,518	

CENTRAL VALLEY PROJECT
SCHEDULE OF M&I CONSTRUCTION AND PROJECT USE ENERGY COSTS BY COMPONENT
AS OF SEPTEMBER 30, 2019
2021 M&I WATER RATES

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)	<u>3,938,197</u>	<u>181,705</u>	<u>3,756,492</u>	<u>14,017,968</u>	<u>17,956,165</u>
Ratios	<u>0.219323</u>	<u>0.046139</u>	<u>0.953861</u>	<u>0.780677</u>	<u>1.000000</u>
Allocated Gianelli, WR Pump-Generator Costs	\$ 920,763	\$ 42,483	\$ 878,280	\$ 3,277,444	\$ 4,198,207
Allocated Other Storage Costs	<u>\$ 10,178,654</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 36,230,769</u>	<u>\$ 46,409,423</u>
Total	<u>\$ 11,099,417</u>	<u>\$ 42,483</u>	<u>\$ 878,280</u>	<u>\$ 39,508,213</u>	<u>\$ 50,607,630</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