

M&I 2019 Sch A-5 F.Z21.XLSM
9/19/2018

CENTRAL VALLEY PROJECT
SCHEDULE OF M&I CONSTRUCTION AND PROJECT USE ENERGY COSTS BY COMPONENT
AS OF SEPTEMBER 30, 2017
2019 M&I WATER RATES

A	B	C	D	E	F	G	
Facility/Contractor Ref	M&I Construction Cost at 09/30/17 <Cost Allocation>	Allocation of Project Use Energy Construction Costs			CVP PUE Construction Costs as of 9/30/17 (BOR) ^{2/} (D*Total PUE BOR)	CVP PUE Construction Costs as of 9/30/17 (DOE) ^{2/} (D*Total PUE DOE)	Total M&I Construction Costs at 09/30/17 (B+E+F)
		Historical & Projected (1981-2030) KWH Per AF ^{2/} <Sch A-7 & CVO>	Ratio of Total (C/Total C)				
Storage ^{1/}							
San Felipe Unit Contractors	\$ 6,998,230	-	-	\$ -	\$ -	\$ 6,998,230	
All Other Contractors	\$ 27,977,603	178,915,534	0.032026	\$ 514,220	\$ 429,165	\$ 28,920,989	
Total Storage	\$ 34,975,832	178,915,534	0.032026	\$ 514,220	\$ 429,165	\$ 35,919,218	
Conveyance							
Contra Costa WD ^{3/}	\$ -					\$ -	
All Other Contractors	\$ 18,536,154					\$ 18,536,154	
Total Conveyance	\$ 18,536,154					\$ 18,536,154	
Conveyance Pumping							
Dos Amigos Pumping Plant	\$ 215,766	87,030,617	0.015579	\$ 250,134	\$ 208,761	\$ 674,661	
O'Neill Pump-Generator Plant	\$ 1,244,150	278,743,645	0.049896	\$ 801,136	\$ 668,623	\$ 2,713,909	
Jones Pumping Plant	\$ 1,725,050	1,769,301,300	0.316708	\$ 5,085,142	\$ 4,244,029	\$ 11,054,221	
Total Conveyance Pumping	\$ 3,184,965	2,135,075,562	0.382182	\$ 6,136,413	\$ 5,121,413	\$ 14,442,791	
Direct Pumping							
Bella Vista WD (Wintu PP)	\$ 317,195	68,787,942	0.012313	\$ 197,703	\$ 165,002	\$ 679,900	
Colusa County WD	\$ -	698,893	0.000125	\$ 2,009	\$ 1,676	\$ 3,685	
Contra Costa Pumping Plants	\$ -	846,838,779	0.151585	\$ 2,433,896	\$ 2,031,315	\$ 4,465,211	
Kanawha WD	\$ -	5,254	0.000001	\$ 15	\$ 13	\$ 28	
Pleasant Valley Canalside Relifts	\$ 19,919	3,874,988	0.000694	\$ 11,137	\$ 9,295	\$ 40,351	
Pleasant Valley Pumping Plant	\$ 161,463	49,516	0.000009	\$ 142	\$ 119	\$ 161,724	

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		Historical & Projected (1981-2030) KWH Per AF ^{2/} <Sch A-7 & CVO>	Ratio of Total (C/Total C)	CVP PUE Construction Costs as of 9/30/17 (BOR) ^{2/} (D*Total PUE BOR)	CVP PUE Construction Costs as of 9/30/17 (DOE) ^{2/} (D*Total PUE DOE)	
San Benito County WD						
Pacheco Pumping Plant	\$ -	36,600,384	0.006552	\$ 105,193	\$ 87,793	\$ 192,986
Gianelli, William R. Pump-Generator Plant ^{1/}	\$ 31,365	55,196,583	0.009880	\$ 158,640	\$ 132,400	\$ 322,405
San Luis WD Canalside Relifts & Turnouts	\$ -	18,427,168	0.003298	\$ 52,961	\$ 44,201	\$ 97,163
Santa Clara Valley WD						
Coyote Pumping Plant	\$ -	224,438,423	0.040175	\$ 645,058	\$ 538,361	\$ 1,183,419
Pacheco Pumping Plant	\$ -	779,784,585	0.139583	\$ 2,241,176	\$ 1,870,472	\$ 4,111,648
Gianelli, William R. Pump-Generator Plant ^{1/}	\$ 668,237	1,175,983,414	0.210503	\$ 3,379,890	\$ 2,820,835	\$ 6,868,962
Shasta Pumping Plant	\$ 314,152	44,673,769	0.007997	\$ 128,397	\$ 107,159	\$ 549,708
State-Delta Pumping Plant (Cross Valley Canal)	\$ -	3,067,119	0.000549	\$ 8,815	\$ 7,357	\$ 16,172
Westlands WD Canalside Relift PP	\$ 539,107	14,124,590	0.002528	\$ 40,595	\$ 33,881	\$ 613,583
Total Direct Pumping	\$ 2,051,438	3,272,551,407	0.585792	\$ 9,405,628	\$ 7,849,880	\$ 19,306,946
Other Costs ^{4/}	\$ 4,912,567					\$ 4,912,567
Total	\$ 63,660,956	5,586,542,503	1.000000	\$ 16,056,261	\$ 13,400,458	\$ 93,117,675

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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)	3,883,849	174,122	3,709,727	14,115,753	17,999,602
Ratios	0.215774	0.044832	0.955168	0.784226	1.000000
Allocated Gianelli, WR Pump-Generator Costs	\$ 699,601	\$ 31,365	\$ 668,237	\$ 2,542,686	\$ 3,242,288
Allocated Other Storage Costs	\$ 6,998,230	\$ -	\$ -	\$ 25,434,916	\$ 32,433,146
Total	\$ 7,697,831	\$ 31,365	\$ 668,237	\$ 27,977,603	\$ 35,675,434

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