



IRR 2021 Sch A-5 F.Z23.XLSM
09/21/2020

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

A	B	C	D	E	F	G
Component/Facility	Irrigation Construction Costs at 09/30/19	Historical & Projected (1981-2030) KWH Per AF 1/	Ratio of Total	Allocation of Project Use Energy Construction Costs		Total Irrigation Construction Costs at 09/30/19
				CVP PUE Construction Costs at 09/30/19 (BOR) 1/	CVP PUE Construction Costs at 09/30/19 (DOE) 1/	
Ref	<Cost Allocation>	<Sch A-7>	(C/Total C)	(D*PUE BOR)	(D*PUE DOE)	(B+E+F)
Storage 2/						
San Felipe Unit Contractors	\$ 3,425,093					\$ 3,425,093
All Other Contractors	\$ 341,160,466	8,708,023,029	0.206562	\$ 21,177,468	\$ 16,578,922	\$ 378,916,857
Total Storage	\$ 344,585,559	8,708,023,029	0.206562	\$ 21,177,468	\$ 16,578,922	\$ 382,341,950
Conveyance						
Contra Costa WD 3/	\$ -					\$ -
All Other Contractors 4/	\$ 380,685,459					\$ 380,685,459
Total Conveyance	\$ 380,685,459					\$ 380,685,459
Conveyance Pumping						
Corning Pumping Plant	\$ 2,529,063	70,855,564	0.001681	\$ 172,317	\$ 134,900	\$ 2,836,279
DMC - California Aqueduct Intertie	\$ 26,962,641	-	-	\$ -	\$ -	\$ 26,962,641
Dos Amigos Pumping Plant	\$ 14,363,965	5,712,950,202	0.135516	\$ 13,893,604	\$ 10,876,700	\$ 39,134,269
O'Neill Pump-Generator Plant	\$ 13,737,491	2,466,202,226	0.058501	\$ 5,997,678	\$ 4,695,322	\$ 24,430,491
Jones Pumping Plant	\$ 20,649,492	19,105,052,592	0.453189	\$ 46,462,515	\$ 36,373,488	\$ 103,485,495
Total Conveyance Pumping	78,242,652	27,355,060,584	0.648887	\$66,526,114	\$52,080,410	\$196,849,176
Direct Pumping 2/						
Bella Vista WD (Wintu PP)	\$ 686,781	153,588,799	0.003643	\$ 373,520	\$ 292,413	\$ 1,352,714
Colusa County WD Canalside Relifts	\$ 12,606,909	236,540,543	0.005611	\$ 575,255	\$ 450,342	\$ 13,632,506
Colusa Service Area - Cortina	\$ 141,792					\$ 141,792
Colusa Service Area - Davis	\$ 180,305					\$ 180,305
Contra Costa Pumping Plants	\$ -					\$ -

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				CVP PUE Construction Costs at 09/30/19 (BOR) 1/ (D*PUE BOR)	CVP PUE Construction Costs at 09/30/19 (DOE) 1/ (D*PUE DOE)	
Ref	<Cost Allocation>					
Corning WD Canalside Relifts	\$ 2,779,835	111,450,542	0.002644	\$ 271,042	\$ 212,187	\$ 3,263,064
Dunnigan WD Canalside Relifts	\$ 1,700,384	2,681,951	0.000064	\$ 6,522	\$ 5,106	\$ 1,712,012
Kanawha WD Canalside Relifts	\$ 2,753,037	34,443,374	0.000817	\$ 83,765	\$ 65,576	\$ 2,902,377
Orland-Artois WD Canalside Relifts	\$ 7,496,789	71,530,116	0.001697	\$ 173,958	\$ 136,184	\$ 7,806,931
Panoche WD Relifts	\$ 17,104	1,905,938	0.000045	\$ 4,635	\$ 3,629	\$ 25,368
Proberta WD Canalside Relifts	\$ 172,158	5,476,037	0.000130	\$ 13,317	\$ 10,426	\$ 195,901
San Benito County WD:						
Pacheco Pumping Plant	\$ -	123,246,176	0.002924	\$ 299,728	\$ 234,644	\$ 534,373
Gianelli, William R. Pump-Generator Plant 2/	\$ 124,369	185,866,021	0.004409	\$ 452,017	\$ 353,864	\$ 930,250
San Luis WD Canalside Relift Pumping Plants	\$ 8,367,156	925,156,973	0.021946	\$ 2,249,935	\$ 1,761,376	\$ 12,378,467
Santa Clara Valley WD:						
Coyote Pumping Plant	\$ -	36,814,129	0.000873	\$ 89,530	\$ 70,089	\$ 159,619
Pacheco Pumping Plant	\$ -	127,906,400	0.003034	\$ 311,062	\$ 243,517	\$ 554,579
Gianelli, William R. Pump-Generator Plant 2/	\$ 129,072	192,894,047	0.004576	\$ 469,108	\$ 367,245	\$ 965,425
State-Delta Pumping Plant (Cross Valley Canal)	\$ -	739,330,713	0.017538	\$ 1,798,015	\$ 1,407,588	\$ 3,205,602
Westlands WD:						
Pleasant Valley Canalside Relifts	\$ 1,336,431	8,525,227	0.000202	\$ 20,733	\$ 16,231	\$ 1,373,395
Pleasant Valley Pumping Plant	\$ 9,874,191	667,155,637	0.015826	\$ 1,622,489	\$ 1,270,176	\$ 12,766,855
Westlands WD Canalside Relifts	\$ 36,170,004	2,431,826,945	0.057685	\$ 5,914,079	\$ 4,629,876	\$ 46,713,960
Westside WD Canalside Relifts	\$ 7,002,377	37,497,149	0.000889	\$ 91,191	\$ 71,390	\$ 7,164,957
Total Direct Pumping	\$ 91,538,696	6,093,836,717	0.144551	\$ 14,819,901	\$ 11,601,858	\$ 117,960,454
San Luis Drain	\$ 52,381,552					\$ 52,381,552
Other Costs	\$ 47,484,898					\$ 47,484,898
Grand Total	\$ 994,918,816	42,156,920,330	1.000000	\$102,523,483	\$ 80,261,190	\$ 1,177,703,488

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Footnotes:

- 1/ The costs (BOR - \$102,523,483.11 and DOE - \$80,261,189.53) are allocated to components based on the ratios identified under "Allocation of Project Use Energy Costs". They are then suballocated to individual facilities based on the historical and projected 1981-2030 KWHs per A/F.
- 2/ Allocation of Storage Costs:

	San Felipe Unit Storage	San Felipe Unit San Benito	San Felipe Unit Santa Clara	All Other Storage Contractors	Total
Historical and Projected 1981-2030 Irrigation Del. (Sch A-7)	1,194,827	586,328	608,499	110,812,528	112,007,354
Ratios	0.010667	0.490722	0.509278	0.989333	1.000000
Allocated Gianelli, WR Pump-Generator Costs	\$ 253,441	\$ 124,369	\$ 129,072	\$ 23,505,032	\$ 23,758,473
Allocated Other Storage Costs	\$ 3,425,093			\$ 317,655,434	\$ 321,080,527
Total	\$ 3,678,534	\$ 124,369	\$ 129,072	\$ 341,160,466	\$ 344,839,000

- 3/ Contra Costa Water District's conveyance facility costs are recovered through a repayment contract.
- 4/ Glide WD's cost of the Relift Pumping Plant is included in conveyance for ratesetting purposes.