

IRR 2020 Sch A-5 F.Z22.XLSM  
9/23/2019

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

A	B	C	D	E	F	G
Component/Facility	Irrigation Construction Costs at 09/30/18	Allocation of Project Use Energy Construction Costs				Total Irrigation Construction Costs at 09/30/18
		Historical & Projected (1981-2030) KWH Per AF 1/	Ratio of Total	CVP PUE Construction Costs at 9/30/18 (BOR) 1/	CVP PUE Construction Costs at 9/30/18 (DOE) 1/	
Ref	<Cost Allocation>	<Sch A-7>	(C/Total C)	(D*PUE BOR)	(D*PUE DOE)	(B+E+F)
<b>Storage 2/</b>						
San Felipe Unit Contractors	\$ 3,901,972					\$ 3,901,972
All Other Contractors	\$ 370,507,869	8,582,306,002	0.205473	\$ 26,074,428	\$ 17,685,105	\$ 414,267,402
Total Storage	\$ 374,409,840	8,582,306,002	0.205473	\$ 26,074,428	\$ 17,685,105	\$ 418,169,373
<b>Conveyance</b>						
Contra Costa WD 3/	\$ -					\$ -
All Other Contractors 4/	\$ 411,279,412					\$ 411,279,412
Total Conveyance	\$ 411,279,412					\$ 411,279,412
<b>Conveyance Pumping</b>						
Corning Pumping Plant	\$ 2,529,063	72,965,038	0.001747	\$ 221,680	\$ 150,355	\$ 2,901,097
DMC - California Aqueduct Intertie	\$ 29,863,197	-	-	\$ -	\$ -	\$ 29,863,197
Dos Amigos Pumping Plant	\$ 14,433,413	5,632,738,699	0.134856	\$ 17,113,168	\$ 11,607,087	\$ 43,153,668
O'Neill Pump-Generator Plant	\$ 11,797,337	2,434,628,666	0.058289	\$ 7,396,794	\$ 5,016,911	\$ 24,211,042
Jones Pumping Plant	\$ 22,443,265	18,960,709,574	0.453948	\$ 57,605,690	\$ 39,071,333	\$ 119,120,288
Total Conveyance Pumping	81,066,274	27,101,041,977	0.648840	\$82,337,331	\$55,845,686	\$219,249,291
<b>Direct Pumping 2/</b>						
Bella Vista WD (Wintu PP)	\$ 839,633	156,507,000	0.003747	\$ 475,493	\$ 322,506	\$ 1,637,633
Colusa County WD Canalside Relifts	\$ 12,599,083	244,218,405	0.005847	\$ 741,975	\$ 503,248	\$ 13,844,306
Colusa Service Area - Cortina	\$ 141,792					\$ 141,792
Colusa Service Area - Davis	\$ 180,305					\$ 180,305
Contra Costa Pumping Plants	\$ -					\$ -

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Component/Facility  Ref	Irrigation Construction Costs at 09/30/18  <Cost Allocation>	Allocation of Project Use Energy Construction Costs				Total Irrigation Construction Costs at 09/30/18  (B+E+F)
		Historical & Projected (1981-2030) KWH Per AF 1/ <Sch A-7>	Ratio of Total  (C/Total C)	CVP PUE Construction Costs at 9/30/18 (BOR) 1/ (D*PUE BOR)	CVP PUE Construction Costs at 9/30/18 (DOE) 1/ (D*PUE DOE)	
Corning WD Canalside Relifts	\$ 2,779,835	114,331,349	0.002737	\$ 347,357	\$ 235,597	\$ 3,362,789
Dunnigan WD Canalside Relifts	\$ 1,700,384	2,764,047	0.000066	\$ 8,398	\$ 5,696	\$ 1,714,477
Kanawha WD Canalside Relifts	\$ 2,753,410	35,257,887	0.000844	\$ 107,119	\$ 72,654	\$ 2,933,183
Orland-Artois WD Canalside Relifts	\$ 7,496,789	73,999,006	0.001772	\$ 224,821	\$ 152,486	\$ 7,874,096
Panoche WD Relifts	\$ 17,519	1,878,847	0.000045	\$ 5,708	\$ 3,872	\$ 27,099
Proberta WD Canalside Relifts	\$ 172,158	5,717,939	0.000137	\$ 17,372	\$ 11,783	\$ 201,313
San Benito County WD:						
Pacheco Pumping Plant		130,124,310	0.003115	\$ 395,339	\$ 268,140	\$ 663,479
Gianelli, William R. Pump-Generator Plant 2/	\$ 130,693	196,238,850	0.004698	\$ 596,205	\$ 404,379	\$ 1,131,278
San Luis WD Canalside Relifts & Turnouts	\$ 8,246,343	937,370,129	0.022442	\$ 2,847,881	\$ 1,931,589	\$ 13,025,813
Santa Clara Valley WD:						
Coyote Pumping Plant		37,507,943	0.000898	\$ 113,955	\$ 77,291	\$ 191,246
Pacheco Pumping Plant		130,316,793	0.003120	\$ 395,923	\$ 268,537	\$ 664,460
Gianelli, William R. Pump-Generator Plant 2/	\$ 130,887	196,529,131	0.004705	\$ 597,087	\$ 404,977	\$ 1,132,951
State-Delta Pumping Plant (Cross Valley Canal)	\$ -	727,891,079	0.017427	\$ 2,211,450	\$ 1,499,927	\$ 3,711,377
Westlands WD:						
Pleasant Valley Canalside Relifts	\$ 1,342,902	8,385,404	0.000201	\$ 25,476	\$ 17,279	\$ 1,385,657
Pleasant Valley Pumping Plant	\$ 9,921,995	656,213,576	0.015711	\$ 1,993,683	\$ 1,352,225	\$ 13,267,902
Westlands WD Canalside Relifts	\$ 36,345,116	2,391,942,401	0.057267	\$ 7,267,106	\$ 4,928,949	\$ 48,541,172
Westside WD Canalside Relifts	\$ 7,002,377	37,895,434	0.000907	\$ 115,132	\$ 78,089	\$ 7,195,598
Total Direct Pumping	\$ 91,801,222	6,085,089,530	0.145686	\$ 18,487,482	\$ 12,539,223	\$ 122,827,927
San Luis Drain	\$ 52,381,552					\$ 52,381,552
Other Costs	\$ 20,545,966					\$ 20,545,966
Grand Total	<u>\$ 1,031,484,266</u>	<u>41,768,437,509</u>	<u>1.000000</u>	<u>\$126,899,241</u>	<u>\$ 86,070,013</u>	<u>\$ 1,244,453,521</u>

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**Footnotes:**

- 1/ The costs (BOR - \$126,899,242 DOE - \$86,070,013) 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)	1,239,016	619,050	619,966	110,258,050	111,497,066
Ratios	0.011113	0.499630	0.500370	0.988887	1.000000
Allocated Gianelli, WR Pump-Generator Costs	\$ 261,580	\$ 130,693	\$ 130,887	\$ 23,277,586	\$ 23,539,166
Allocated Other Storage Costs	\$ 3,901,972			\$ 347,230,283	\$ 351,132,255
Total	\$ 4,163,552	\$ 130,693	\$ 130,887	\$ 370,507,869	\$ 374,671,420

- 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.