

IRR 2018 Sch A-5 F.Z20.XLSM
09/23/2017

CENTRAL VALLEY PROJECT
SCHEDULE OF IRRIGATION CONSTRUCTION AND PROJECT USE ENERGY COSTS BY COMPONENT
AS OF SEPTEMBER 30, 2016
2018 IRRIGATION WATER RATES

A	B	C	D	E	F	G
Component/Facility	Irrigation Construction Costs at 09/30/16	Allocation of Project Use Energy Construction Costs				Total Irrigation Construction Costs at 09/30/16
		Historical & Projected (1981-2030) KWH Per AF 1/	Ratio of Total	CVP PUE Construction Costs at 9/30/16 (BOR) 1/	CVP PUE Construction Costs at 9/30/16 (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	\$ 3,792,787					\$ 3,792,787
All Other Contractors	\$ 369,788,419	8,328,872,271	0.204101	\$ 23,039,414	\$ 16,703,830	\$ 409,531,662
Total Storage	\$ 373,581,206	8,328,872,271	0.204101	\$ 23,039,414	\$ 16,703,830	\$ 413,324,450
Conveyance						
Contra Costa WD 3/	\$ -					\$ -
All Other Contractors 4/	\$ 410,461,133					\$ 410,461,133
Total Conveyance	\$ 410,461,133					\$ 410,461,133
Conveyance Pumping						
Corning Pumping Plant	\$ 2,529,063	75,745,462	0.001856	\$ 209,528	\$ 151,910	\$ 2,890,500
DMC - California Aqueduct Intertie	\$ 29,868,396	-	-	\$ -	\$ -	\$ 29,868,396
Dos Amigos Pumping Plant	\$ 14,430,338	5,481,825,887	0.134333	\$ 15,163,884	\$ 10,993,984	\$ 40,588,206
O'Neill Pump-Generator Plant	\$ 11,801,019	2,361,792,640	0.057876	\$ 6,533,216	\$ 4,736,653	\$ 23,070,888
Jones Pumping Plant	\$ 22,384,071	18,608,903,765	0.456015	\$ 51,476,145	\$ 37,320,774	\$ 111,180,990
Total Conveyance Pumping	81,012,886	26,528,267,754	0.650080	\$73,382,773	\$53,203,321	\$207,598,980
Direct Pumping 2/						
Bella Vista WD (Wintu PP)	\$ 842,834	160,333,313	0.003929	\$ 443,516	\$ 321,554	\$ 1,607,904
Colusa County WD Canalside Relifts	\$ 12,635,431	249,290,938	0.006109	\$ 689,591	\$ 499,961	\$ 13,824,983
Colusa Service Area - Cortina	\$ 141,792					\$ 141,792
Colusa Service Area - Davis	\$ 180,305					\$ 180,305
Contra Costa Pumping Plants	\$ -					\$ -

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		Historical & Projected (1981-2030) KWH Per AF 1/ <Sch A-7>	Ratio of Total (C/Total C)	CVP PUE Construction Costs at 9/30/16 (BOR) 1/ (D*PUE BOR)	CVP PUE Construction Costs at 9/30/16 (DOE) 1/ (D*PUE DOE)	
Corning WD Canalside Relifts	\$ 2,779,835	116,524,332	0.002855	\$ 322,331	\$ 233,693	\$ 3,335,859
Dunnigan WD Canalside Relifts	\$ 1,700,384	2,723,215	0.000067	\$ 7,533	\$ 5,461	\$ 1,713,378
Kanawha WD Canalside Relifts	\$ 2,753,824	35,067,144	0.000859	\$ 97,003	\$ 70,328	\$ 2,921,155
Orland-Artois WD Canalside Relifts	\$ 7,496,789	75,437,344	0.001849	\$ 208,676	\$ 151,292	\$ 7,856,757
Panoche WD Relifts	\$ 17,942	1,920,644	0.000047	\$ 5,313	\$ 3,852	\$ 27,107
Proberta WD Canalside Relifts	\$ 172,158	6,124,669	0.000150	\$ 16,942	\$ 12,283	\$ 201,384
San Benito County WD:						
Pacheco Pumping Plant		128,162,303	0.003141	\$ 354,524	\$ 257,034	\$ 611,558
Gianelli, William R. Pump-Generator Plant 2/	\$ 130,837	193,279,972	0.004736	\$ 534,653	\$ 387,629	\$ 1,053,119
San Luis WD Canalside Relifts & Turnouts	\$ 8,366,318	903,049,860	0.022129	\$ 2,498,026	\$ 1,811,096	\$ 12,675,440
Santa Clara Valley WD:						
Coyote Pumping Plant		35,109,118	0.000860	\$ 97,119	\$ 70,412	\$ 167,532
Pacheco Pumping Plant		121,982,423	0.002989	\$ 337,429	\$ 244,640	\$ 582,069
Gianelli, William R. Pump-Generator Plant 2/	\$ 124,528	183,960,172	0.004508	\$ 508,873	\$ 368,938	\$ 1,002,339
State-Delta Pumping Plant (Cross Valley Canal)	\$ -	740,474,757	0.018145	\$ 2,048,309	\$ 1,485,047	\$ 3,533,356
Westlands WD:						
Pleasant Valley Canalside Relifts	\$ 1,342,615	8,118,007	0.000199	\$ 22,456	\$ 16,281	\$ 1,381,353
Pleasant Valley Pumping Plant	\$ 9,919,881	635,287,962	0.015568	\$ 1,757,340	\$ 1,274,091	\$ 12,951,313
Westlands WD Canalside Relifts	\$ 36,337,372	2,315,667,139	0.056746	\$ 6,405,623	\$ 4,644,147	\$ 47,387,142
Westside WD Canalside Relifts	\$ 7,002,377	38,040,870	0.000932	\$ 105,229	\$ 76,292	\$ 7,183,898
Total Direct Pumping	\$ 91,945,223	5,950,554,182	0.145819	\$ 16,460,486	\$ 11,934,034	\$ 120,339,742
San Luis Drain	\$ 52,381,552					\$ 52,381,552
Other Costs	\$ 20,727,610					\$ 20,727,610
Grand Total	<u>\$ 1,030,109,610</u>	<u>40,807,694,207</u>	<u>1.000000</u>	<u>\$112,882,673</u>	<u>\$ 81,841,184</u>	<u>\$ 1,224,833,467</u>

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Footnotes:

- 1/ The costs (BOR - \$112,882,673 DOE - \$81,841,184) 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)	1,190,032	609,716	580,316	108,706,404	109,896,436
Ratios	0.010829	0.512353	0.487647	0.989171	1.000000
Allocated Gianelli, WR Pump-Generator Costs	\$ 255,365	\$ 130,837	\$ 124,528	\$ 23,326,933	\$ 23,582,298
Allocated Other Storage Costs	\$ 3,792,787			\$ 346,461,486	\$ 350,254,273
Total	\$ 4,048,152	\$ 130,837	\$ 124,528	\$ 369,788,419	\$ 373,836,571

- 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.