IRR 2019 Sch A-5 F.Z21.XLSM
09/19/2018

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

A	B	C	D	E	F	G
		Allocation of Project Use Energy Construction Costs				
Component/Facility	**Irrigation Construction Costs at 09/30/17**	**Historical & Projected (1981-2030) KWH Per AF 1/**	Ratio of Total	**CVP PUE Construction Costs at 9/30/17 (BOR) 1/**	**CVP PUE Construction Costs at 9/30/17 (DOE) 1/**	**Total Irrigation Construction Costs at 09/30/17**
Ref	<Cost Allocation>	<Sch A-7>	(C/Total C)	(D*PUE BOR)	(D*PUE DOE)	(B+E+F)
Storage 2/						
San Felipe Unit Contractors	$ 3,657,946					$ 3,657,946
All Other Contractors	$ 369,217,803	8,544,143,009	0.205901	$ 23,188,096	$ 17,198,393	$ 409,604,292
Total Storage	$ 372,875,749	8,544,143,009	0.205901	$ 23,188,096	$ 17,198,393	$ 413,262,238
Conveyance						
Contra Costa WD **3/**	$ -					$ -
All Other Contractors **4/**	$ 410,415,733					$ 410,415,733
Total Conveyance	$ 410,415,733					$ 410,415,733
Conveyance Pumping						
Corning Pumping Plant	$ 2,529,063	74,274,673	0.001790	$ 201,575	$ 149,507	$ 2,880,144
DMC - California Aqueduct Intertie	$ 29,866,539	-	-	$ -	$ -	$ 29,866,539
Dos Amigos Pumping Plant	$ 14,429,606	5,605,597,320	0.135087	$ 15,213,126	$ 11,283,433	$ 40,926,165
O'Neill Pump-Generator Plant	$ 11,792,998	2,418,856,674	0.058291	$ 6,564,577	$ 4,868,885	$ 23,226,459
Jones Pumping Plant	$ 22,330,534	18,844,149,724	0.454117	$ 51,141,460	$ 37,931,141	$ 111,403,135
Total Conveyance Pumping	80,948,738	26,942,878,391	0.649284	$73,120,739	$54,232,965	$208,302,442
Direct Pumping 2/						
Bella Vista WD (Wintu PP)	$ 842,568	158,278,984	0.003814	$ 429,556	$ 318,598	$ 1,590,721
Colusa County WD Canalside Relifts	$ 12,635,431	242,224,616	0.005837	$ 657,378	$ 487,571	$ 13,780,379
Colusa Service Area - Cortina	$ 141,792					$ 141,792
Colusa Service Area - Davis	$ 180,305					$ 180,305
Contra Costa Pumping Plants	$ -					

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

A	B	C	D	E	F	G
		Allocation of Project Use Energy Construction Costs				
Component/Facility	**Irrigation Construction Costs at 09/30/17**	**Historical & Projected (1981-2030) KWH Per AF 1/**	Ratio of Total	**CVP PUE Construction Costs at 9/30/17 (BOR) 1/**	**CVP PUE Construction Costs at 9/30/17 (DOE) 1/**	**Total Irrigation Construction Costs at 09/30/17**
Ref	<Cost Allocation>	<Sch A-7>	(C/Total C)	(D*PUE BOR)	(D*PUE DOE)	(B+E+F)
Corning WD Canalside Relifts	$ 2,779,835	115,519,837	0.002784	$ 313,511	$ 232,528	$ 3,325,875
Dunnigan WD Canalside Relifts	$ 1,700,384	2,761,299	0.000067	$ 7,494	$ 5,558	$ 1,713,436
Kanawha WD Canalside Relifts	$ 2,753,824	34,909,882	0.000841	$ 94,743	$ 70,270	$ 2,918,836
Orland-Artois WD Canalside Relifts	$ 7,496,789	74,357,389	0.001792	$ 201,800	$ 149,673	$ 7,848,262
Panoche WD Relifts	$ 17,775	1,917,283	0.000046	$ 5,203	$ 3,859	$ 26,837
Proberta WD Canalside Relifts	$ 172,158	5,889,149	0.000142	$ 15,983	$ 11,854	$ 199,995
San Benito County WD:						
Pacheco Pumping Plant		126,111,232	0.003039	$ 342,255	$ 253,848	$ 596,103
Gianelli, William R. Pump-Generator Plant **2/**	$ 128,097	190,186,777	0.004583	$ 516,151	$ 382,824	$ 1,027,072
San Luis WD Canalside Relifts & Turnouts	$ 8,366,485	934,965,071	0.022531	$ 2,537,418	$ 1,881,979	$ 12,785,882
Santa Clara Valley WD:						
Coyote Pumping Plant		33,501,996	0.000807	$ 90,922	$ 67,436	$ 158,357
Pacheco Pumping Plant		116,398,520	0.002805	$ 315,896	$ 234,297	$ 550,193
Gianelli, William R. Pump-Generator Plant **2/**	$ 118,231	175,539,158	0.004230	$ 476,399	$ 353,340	$ 947,970
State-Delta Pumping Plant (Cross Valley Canal)	$ -	720,823,582	0.017371	$ 1,956,255	$ 1,450,936	$ 3,407,192
Westlands WD:						
Pleasant Valley Canalside Relifts	$ 1,342,547	8,335,409	0.000201	$ 22,622	$ 16,778	$ 1,381,947
Pleasant Valley Pumping Plant	$ 9,919,378	652,301,138	0.015720	$ 1,770,291	$ 1,313,008	$ 13,002,678
Westlands WD Canalside Relifts	$ 36,335,528	2,377,681,302	0.057299	$ 6,452,830	$ 4,786,003	$ 47,574,362
Westside WD Canalside Relifts	$ 7,002,377	37,559,324	0.000905	$ 101,933	$ 75,603	$ 7,179,912
Total Direct Pumping	$ 91,933,504	6,009,261,948	0.144814	$ 16,308,639	$ 12,095,964	$ 120,338,107
San Luis Drain	$ 52,381,552					$ 52,381,552
Other Costs	$ 20,753,005					$ 20,753,005
Grand Total	$ 1,029,308,281	41,496,283,348	1.000000	$112,617,473	$ 83,527,322	$ 1,225,453,076

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

Footnotes:

1/ The costs (BOR - $112,617,473 DOE - $83,527,322) 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)	1,153,710	599,958	553,751	109,103,550	110,257,259
Ratios	0.010464	0.520025	0.479975	0.989536	1.000000
Allocated Gianelli, WR Pump-Generator Costs	$ 246,328	$ 128,097	$ 118,231	$ 23,294,611	$ 23,540,938
Allocated Other Storage Costs	$ 3,657,946			$ 345,923,192	$ 349,581,138
Total	$ 3,904,274	$ 128,097	$ 118,231	$ 369,217,803	$ 373,122,077

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.