

**PARKER-DAVIS PROJECT
COST APPORTIONMENT STUDY**

**0% Principal Payment Option
Amortized Generation Replacements**

FY2020

Annual Expenses	Total	Allocation Factor	Generation	Transmission
Western O&M				
Systemwide Expenses	7,675,890	Customers/Gen/Tran	2,800,723	4,875,167
Substation & Transmission Lines	21,506,290	Transmission	0	21,506,290
Communication & Control Equipment	1,392,399	SCADA	14,907	1,377,492
System Operation & Load Dispatch	7,801,474	SCADA/Tran	75,056	7,726,418
Subtotal Western O&M	38,376,053		2,890,686	35,485,367
	100%		7.5%	92.5%
Western General Expenses				
Western General Expenses	1,457,908	% of Subtotal	109,817	1,348,091
Bureau of Reclamation O&M	11,513,500	Generation	11,513,500	0
Purchase Power	7,160,810	Gen & Tran	5,260,810	1,900,000
Capitalized Movable Equipment	1,487,786	% of Subtotal	112,068	1,375,718
Multi-Project (SCADA, Mead, Phoenix Service Center)	(2,162,144)	Transmission	(3,758)	(2,158,386)
Bureau of Reclamation Replacements	0	Generation	0	0
Principal/Interest Payments - Reclamation	564,154	Generation	564,153	0
Principal/Interest Payments - Western	24,448,964	Transmission	0	24,448,964
Total Annual Gross Expenses	82,847,033		20,447,276	62,399,755
	100%		24.7%	75.3%
Other Revenues				
Transmission				
Nonfirm/Short-Term Firm (OASIS)	2,625,000	Transmission	0	2,625,000
Losses	2,625,000	Transmission	0	2,625,000
Nonfirm Energy				
Other	0	Generation	0	0
Surplus / Excess	0	Generation	0	0
Ancillary Services				
Generation Supported (e.g. VAR Support, Reserves)	250,000	Generation	250,000	0
Transmission Supported (e.g. Scheduling Service)	0	Transmission	0	0
Miscellaneous				
Facilities Use Charges	1,000,000	Transmission	0	1,000,000
Western Miscellaneous	0	Transmission	0	0
Reclamation Miscellaneous	0	Generation	0	0
Transfers from Other Western Projects	263,374	Transmission	0	263,374
Total Annual Other Revenues	6,763,374		250,000	6,513,374
	100%		3.7%	96.3%
Expenses Less Other Revenues				
Expenses Less Other Revenues	76,083,659		20,197,276	55,886,381
Interest Credits				
Interest Credits	0		0	0
Carryover Application	634,703		(18,639)	653,342
Total Credits & Carryover	634,703		(18,639)	653,342
Revenue Requirement				
Revenue Requirement	76,718,362		20,178,637	56,539,723



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Cost Allocation Factors & Rate Design Loads

SCADA Points		
	Number	Percentage
Generation	91	1.071%
Transmission	8,409	98.929%
	----- 8,500	----- 100%

Customers		
	Count	Percentage
Transmission	50	58.14%
Generation	36	41.86%
	----- 86	----- 100%

Rate Design Loads		
	Avg CROD kW	Energy MWh
Firm Electric Service - AOF	233,844	1,229,778
Firm Electric Service - Project Use	37,303	195,267
Firm Transmission	2,331,971	0
	----- 2,603,118	----- 1,425,045



**PARKER-DAVIS PROJECT
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FY2021

Annual Expenses	Total	Allocation Factor	Generation	Transmission
Western O&M				
Systemwide Expenses	6,938,732	Customers/Gen/Tran	2,061,353	4,877,379
Substation & Transmission Lines	21,161,709	Transmission	0	21,161,709
Communication & Control Equipment	1,820,141	SCADA	19,486	1,800,655
System Operation & Load Dispatch	7,396,093	SCADA/Tran	71,492	7,324,601
Subtotal Western O&M	<u>37,316,674</u>		<u>2,152,331</u>	<u>35,164,343</u>
	100%		5.8%	94.2%
Western General Expenses	1,457,908	% of Subtotal	84,088	1,373,820
Bureau of Reclamation O&M	11,363,500	Generation	11,363,500	0
Purchase Power	7,160,810	Gen & Tran	5,260,810	1,900,000
Capitalized Movable Equipment	1,487,786	% of Subtotal	85,812	1,401,974
Multi-Project (SCADA, Mead, Phoenix Service Center)	(2,051,661)	Transmission	(2,155)	(2,049,506)
Bureau of Reclamation Replacements	0	Generation	0	0
Principal/Interest Payments - Reclamation	635,216	Generation	635,216	0
Principal/Interest Payments - Western	25,868,440	Transmission	0	25,868,440
Total Annual Gross Expenses	<u>83,238,673</u>		<u>19,579,602</u>	<u>63,659,071</u>
	100%		23.5%	76.5%
Other Revenues				
Transmission				
Nonfirm/Short-Term Firm (OASIS)	2,625,000	Transmission	0	2,625,000
Losses	2,625,000	Transmission	0	2,625,000
Nonfirm Energy				
Other	0	Generation	0	0
Surplus / Excess	0	Generation	0	0
Ancillary Services				
Generation Supported (e.g. VAR Support, Reserves)	250,000	Generation	250,000	0
Transmission Supported (e.g. Scheduling Service)	0	Transmission	0	0
Miscellaneous				
Facilities Use Charges	1,000,000	Transmission	0	1,000,000
Western Miscellaneous	0	Transmission	0	0
Reclamation Miscellaneous	0	Generation	0	0
Transfers from Other Western Projects	263,374	Transmission	0	263,374
Total Annual Other Revenues	<u>6,763,374</u>		<u>250,000</u>	<u>6,513,374</u>
	100%		3.7%	96.3%
Expenses Less Other Revenues	76,475,299		19,329,602	57,145,697
Interest Credits	0		0	0
Carryover Application	243,060		849,035	(605,974)
Total Credits & Carryover	<u>243,060</u>		<u>849,035</u>	<u>(605,974)</u>
Revenue Requirement	76,718,360		20,178,637	56,539,723



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FY2021

Cost Allocation Factors & Rate Design Loads

SCADA Points		
	Number	Percentage
Generation	91	1.071%
Transmission	8,409	98.929%
	8,500	100%

Customers		
	Count	Percentage
Transmission	50	58.14%
Generation	36	41.86%
	86	100%

Rate Design Loads		
	Avg CROD kW	Energy MWh
Firm Electric Service - AOF	233,844	1,229,778
Firm Electric Service - Project Use	37,303	195,267
Firm Transmission	2,331,971	0
	2,603,118	1,425,045



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FY2022

Annual Expenses	Total	Allocation Factor	Generation	Transmission
Western O&M				
Systemwide Expenses	7,077,506	Customers/Gen/Tran	2,102,582	4,974,924
Substation & Transmission Lines	21,584,943	Transmission	0	21,584,943
Communication & Control Equipment	1,856,543	SCADA	19,876	1,836,667
System Operation & Load Dispatch	7,544,015	SCADA/Tran	72,923	7,471,092
Subtotal Western O&M	38,063,007		2,195,381	35,867,626
	100%		5.8%	94.2%
Western General Expenses				
Western General Expenses	1,457,908	% of Subtotal	84,089	1,373,820
Bureau of Reclamation O&M	12,135,000	Generation	12,135,000	0
Purchase Power	7,160,810	Gen & Tran	5,260,810	1,900,000
Capitalized Movable Equipment	1,487,786	% of Subtotal	85,812	1,401,974
Multi-Project (SCADA, Mead, Phoenix Service Center)	(2,039,533)	Transmission	(2,091)	(2,037,442)
Bureau of Reclamation Replacements	0	Generation	0	0
Principal/Interest Payments - Reclamation	695,916	Generation	695,916	0
Principal/Interest Payments - Western	26,487,888	Transmission	0	26,487,888
Total Annual Gross Expenses	85,448,783		20,454,917	64,993,866
	100%		23.9%	76.1%
Other Revenues				
Transmission				
Nonfirm/Short-Term Firm (OASIS)	2,625,000	Transmission	0	2,625,000
Losses	2,625,000	Transmission	0	2,625,000
Nonfirm Energy				
Other	0	Generation	0	0
Surplus / Excess	0	Generation	0	0
Ancillary Services				
Generation Supported (e.g. VAR Support, Reserves)	250,000	Generation	250,000	0
Transmission Supported (e.g. Scheduling Service)	0	Transmission	0	0
Miscellaneous				
Facilities Use Charges	1,000,000	Transmission	0	1,000,000
Western Miscellaneous	0	Transmission	0	0
Reclamation Miscellaneous	0	Generation	0	0
Transfers from Other Western Projects	263,374	Transmission	0	263,374
Total Annual Other Revenues	6,763,374		250,000	6,513,374
	100%		3.7%	96.3%
Expenses Less Other Revenues				
Expenses Less Other Revenues	78,685,409		20,204,917	58,480,492
Interest Credits				
Interest Credits	0		0	0
Carryover Application	204,951		(26,279)	231,231
Total Credits & Carryover	204,951		(26,279)	231,231
Revenue Requirement				
Revenue Requirement	78,890,360		20,178,637	58,711,723



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FY2022

Cost Allocation Factors & Rate Design Loads

SCADA Points		
	Number	Percentage
Generation	91	1.071%
Transmission	8,409	98.929%
	8,500	100%

Customers		
	Count	Percentage
Transmission	50	58.14%
Generation	36	41.86%
	86	100%

Rate Design Loads		
	Avg CROD kW	Energy MWh
Firm Electric Service - AOF	233,844	1,229,778
Firm Electric Service - Project Use	37,303	195,267
Firm Transmission	2,431,971	0
	2,703,118	1,425,045



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FY2023

Annual Expenses	Total	Allocation Factor	Generation	Transmission
Western O&M				
Systemwide Expenses	7,219,056	Customers/Gen/Tran	2,144,632	5,074,424
Substation & Transmission Lines	20,520,692	Transmission	0	20,520,692
Communication & Control Equipment	1,893,674	SCADA	20,273	1,873,401
System Operation & Load Dispatch	7,694,895	SCADA/Tran	74,381	7,620,514
Subtotal Western O&M	<u>37,328,318</u>		<u>2,239,286</u>	<u>35,089,032</u>
	100%		6.0%	94.0%
Western General Expenses				
Bureau of Reclamation O&M	1,457,908	% of Subtotal	87,458	1,370,450
Purchase Power	12,310,500	Generation	12,310,500	0
Capitalized Movable Equipment	7,160,810	Gen & Tran	5,260,810	1,900,000
Multi-Project (SCADA, Mead, Phoenix Service Center)	1,487,786	% of Subtotal	89,251	1,398,535
Bureau of Reclamation Replacements	(2,012,359)	Transmission	(2,091)	(2,010,268)
Principal/Interest Payments - Reclamation	0	Generation	0	0
Principal/Interest Payments - Western	737,987	Generation	737,987	0
Total Annual Gross Expenses	<u>85,298,082</u>	Transmission	<u>0</u>	<u>26,827,130</u>
	100%		24.3%	75.7%
Other Revenues				
Transmission				
Nonfirm/Short-Term Firm (OASIS)	2,625,000	Transmission	0	2,625,000
Losses	2,625,000	Transmission	0	2,625,000
Nonfirm Energy				
Other	0	Generation	0	0
Surplus / Excess	0	Generation	0	0
Ancillary Services				
Generation Supported (e.g. VAR Support, Reserves)	250,000	Generation	250,000	0
Transmission Supported (e.g. Scheduling Service)	0	Transmission	0	0
Miscellaneous				
Facilities Use Charges	1,000,000	Transmission	0	1,000,000
Western Miscellaneous	0	Transmission	0	0
Reclamation Miscellaneous	0	Generation	0	0
Transfers from Other Western Projects	263,374	Transmission	0	263,374
Total Annual Other Revenues	<u>6,763,374</u>		<u>250,000</u>	<u>6,513,374</u>
	100%		3.7%	96.3%
Expenses Less Other Revenues				
	78,534,708		20,473,201	58,061,506
Interest Credits				
Interest Credits	0		0	0
Carryover Application	355,653		(294,564)	650,217
Total Credits & Carryover	<u>355,653</u>		<u>(294,564)</u>	<u>650,217</u>
Revenue Requirement				
	78,890,361		20,178,637	58,711,723



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Cost Allocation Factors & Rate Design Loads

SCADA Points		
	Number	Percentage
Generation	91	1.071%
Transmission	8,409	98.929%
	8,500	100%

Customers		
	Count	Percentage
Transmission	50	58.14%
Generation	36	41.86%
	86	100%

Rate Design Loads		
	Avg CROD kW	Energy MWh
Firm Electric Service - AOF	233,844	1,229,778
Firm Electric Service - Project Use	37,303	195,267
Firm Transmission	2,431,971	0
	2,703,118	1,425,045



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FY2024

Annual Expenses	Total	Allocation Factor	Generation	Transmission
Western O&M				
Systemwide Expenses	7,363,437	Customers/Gen/Tran	2,187,524	5,175,913
Substation & Transmission Lines	20,931,106	Transmission	0	20,931,106
Communication & Control Equipment	1,931,548	SCADA	20,679	1,910,869
System Operation & Load Dispatch	7,848,793	SCADA/Tran	75,868	7,772,925
Subtotal Western O&M	38,074,884		2,284,071	35,790,813
	100%		6.0%	94.0%
Western General Expenses	1,457,908	% of Subtotal	87,458	1,370,450
Bureau of Reclamation O&M	12,397,500	Generation	12,397,500	0
Purchase Power	7,160,810	Gen & Tran	5,260,810	1,900,000
Capitalized Movable Equipment	1,487,786	% of Subtotal	89,250	1,398,536
Multi-Project (SCADA, Mead, Phoenix Service Center)	(1,929,229)	Transmission	(1,073)	(1,928,156)
Bureau of Reclamation Replacements	0	Generation	0	0
Principal/Interest Payments - Reclamation	765,539	Generation	765,539	0
Principal/Interest Payments - Western	27,543,943	Transmission	0	27,543,943
Total Annual Gross Expenses	86,959,142		20,883,555	66,075,587
	100%		24.0%	76.0%
Other Revenues				
Transmission				
Nonfirm/Short-Term Firm (OASIS)	2,558,520	Transmission	0	2,558,520
Losses	2,558,520	Transmission	0	2,558,520
Nonfirm Energy				
Other	0	Generation	0	0
Surplus / Excess	0	Generation	0	0
Ancillary Services				
Generation Supported (e.g. VAR Support, Reserves)	250,000	Generation	250,000	0
Transmission Supported (e.g. Scheduling Service)	0	Transmission	0	0
Miscellaneous				
Facilities Use Charges	1,000,000	Transmission	0	1,000,000
Western Miscellaneous	0	Transmission	0	0
Reclamation Miscellaneous	0	Generation	0	0
Transfers from Other Western Projects	263,374	Transmission	0	263,374
Total Annual Other Revenues	6,630,414		250,000	6,380,414
	100%		3.8%	96.2%
Expenses Less Other Revenues	80,328,728		20,633,555	59,695,173
Interest Credits	0		0	0
Carryover Application	(1,438,368)		(454,918)	(983,450)
Total Credits & Carryover	(1,438,368)		(454,918)	(983,450)
Revenue Requirement	78,890,360		20,178,637	58,711,723



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FY2024

Cost Allocation Factors & Rate Design Loads

SCADA Points		
	Number	Percentage
Generation	91	1.071%
Transmission	8,409	98.929%
	8,500	100%

Customers		
	Count	Percentage
Transmission	50	58.14%
Generation	36	41.86%
	86	100%

Rate Design Loads		
	Avg CROD kW	Energy MWh
Firm Electric Service - AOF	233,844	1,229,778
Firm Electric Service - Project Use	37,303	195,267
Firm Transmission	2,431,971	0
	2,703,118	1,425,045

