

**PARKER-DAVIS PROJECT
COST APPORTIONMENT STUDY
FY2017**

Annual Expenses	Total	Allocation Factor	Generation	Transmission
Western O&M				
Systemwide Expenses	5,678,248	Customers/Gen/Tran	1,844,048	3,834,200
Substation & Transmission Lines	17,751,191	Transmission	0	17,751,191
Communication & Control Equipment	996,105	SCADA	10,664	985,441
System Operation & Load Dispatch	5,940,919	SCADA/Tran	58,008	5,882,911
Subtotal Western O&M	<u>30,366,463</u>		<u>1,912,720</u>	<u>28,453,743</u>
	100%		6.3%	93.7%
Western General Expenses				
Western General Expenses	7,961,383	% of Subtotal	501,471	7,459,912
Bureau of Reclamation O&M	8,920,000	Generation	8,920,000	0
Purchase Power	3,240,000	Gen & Tran	1,340,000	1,900,000
Capitalized Movable Equipment	1,063,196	% of Subtotal	66,969	996,227
Multi-Project (SCADA, Mead, Phoenix Service Center)	(2,412,334)	Transmission	(5,256)	(2,407,078)
Bureau of Reclamation Replacements	2,950,000	Generation	2,950,000	0
Principal/Interest Payments - Reclamation	83,522	Generation	83,522	0
Principal/Interest Payments - Western	26,465,428	Transmission	0	26,465,428
Total Annual Gross Expenses	<u>78,637,658</u>		<u>15,769,426</u>	<u>62,868,232</u>
	100%		20.1%	79.9%
Other Revenues				
Transmission				
Nonfirm/Short-Term Firm (OASIS)	3,150,000	Transmission	0	3,150,000
Losses	4,150,000	Transmission	0	4,150,000
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	257,938	Transmission	0	257,938
Total Annual Other Revenues	<u>8,807,938</u>		<u>250,000</u>	<u>8,557,938</u>
	100%		2.8%	97.2%
Expenses Less Other Revenues	69,829,720		15,519,426	54,310,294
Interest Credits	0		0	0
Carryover Application	(6,079,819)		(228,693)	(5,851,126)
Total Credits & Carryover	<u>(6,079,819)</u>		<u>(228,693)</u>	<u>(5,851,126)</u>
Revenue Requirement	63,749,902		15,290,733	48,459,168

**PARKER-DAVIS PROJECT
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FY2017**

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	56	60.87%
Generation	36	39.13%
	92	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	2,421,029	0
	2,692,176	1,425,045

**PARKER-DAVIS PROJECT
COST APPORTIONMENT STUDY
FY2018**

Annual Expenses	Total	Allocation Factor	Generation	Transmission
Western O&M				
Systemwide Expenses	6,504,998	Customers/Gen/Tran	1,953,228	4,551,770
Substation & Transmission Lines	15,929,241	Transmission	0	15,929,241
Communication & Control Equipment	1,196,611	SCADA	12,811	1,183,800
System Operation & Load Dispatch	6,128,398	SCADA/Tran	59,522	6,068,876
Subtotal Western O&M	<u>29,759,249</u>		<u>2,025,561</u>	<u>27,733,688</u>
	100%		6.8%	93.2%
Western General Expenses				
Bureau of Reclamation O&M	4,002,979	% of Subtotal	272,462	3,730,517
Purchase Power	9,584,500	Generation	9,584,500	0
Capitalized Movable Equipment	3,580,000	Gen & Tran	1,680,000	1,900,000
Multi-Project (SCADA, Mead, Phoenix Service Center)	1,063,196	% of Subtotal	72,366	990,830
Bureau of Reclamation Replacements	(2,410,649)	Transmission	(5,204)	(2,405,445)
Principal/Interest Payments - Reclamation	3,030,000	Generation	3,030,000	0
Principal/Interest Payments - Western	84,297	Generation	84,297	0
Total Annual Gross Expenses	<u>76,220,344</u>	Transmission	<u>0</u>	<u>27,526,772</u>
	100%		16,743,982	59,476,361
			22.0%	78.0%
Other Revenues				
Transmission				
Nonfirm/Short-Term Firm (OASIS)	3,150,000	Transmission	0	3,150,000
Losses	4,150,000	Transmission	0	4,150,000
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	252,182	Transmission	0	252,182
Total Annual Other Revenues	<u>8,802,182</u>		<u>250,000</u>	<u>8,552,182</u>
	100%		2.8%	97.2%
Expenses Less Other Revenues				
	67,418,162		16,493,982	50,924,179
Interest Credits				
Interest Credits	0		0	0
Carryover Application	(2,826,760)		(1,203,250)	(1,623,511)
Total Credits & Carryover	<u>(2,826,760)</u>		<u>(1,203,250)</u>	<u>(1,623,511)</u>
Revenue Requirement				
	64,591,402		15,290,733	49,300,668

**PARKER-DAVIS PROJECT
COST APPORTIONMENT STUDY
FY2018**

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	57	61.29%
Generation	36	38.71%
	93	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	2,467,779	0
	2,738,926	1,425,045

**PARKER-DAVIS PROJECT
COST APPORTIONMENT STUDY
FY2019**

Annual Expenses	Total	Allocation Factor	Generation	Transmission
Western O&M				
Systemwide Expenses	6,672,633	Customers/Gen/Tran	2,002,549	4,670,084
Substation & Transmission Lines	16,305,356	Transmission	0	16,305,356
Communication & Control Equipment	1,225,827	SCADA	13,124	1,212,703
System Operation & Load Dispatch	6,303,953	SCADA/Tran	61,243	6,242,710
Subtotal Western O&M	<u>30,507,769</u>		<u>2,076,916</u>	<u>28,430,853</u>
	100%		6.8%	93.2%
Western General Expenses				
Western General Expenses	4,056,411	% of Subtotal	276,153	3,780,257
Bureau of Reclamation O&M	10,147,000	Generation	10,147,000	0
Purchase Power	3,920,000	Gen & Tran	2,020,000	1,900,000
Capitalized Movable Equipment	1,063,196	% of Subtotal	72,381	990,815
Multi-Project (SCADA, Mead, Phoenix Service Center)	(2,320,263)	Transmission	(4,488)	(2,315,775)
Bureau of Reclamation Replacements	2,635,000	Generation	2,635,000	0
Principal/Interest Payments - Reclamation	83,521	Generation	83,521	0
Principal/Interest Payments - Western	29,505,423	Transmission	0	29,505,423
Total Annual Gross Expenses	<u>79,598,057</u>		<u>17,306,483</u>	<u>62,291,573</u>
	100%		21.7%	78.3%
Other Revenues				
Transmission				
Nonfirm/Short-Term Firm (OASIS)	3,150,000	Transmission	0	3,150,000
Losses	4,150,000	Transmission	0	4,150,000
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>8,813,374</u>		<u>250,000</u>	<u>8,563,374</u>
	100%		2.8%	97.2%
Expenses Less Other Revenues	70,784,683		17,056,483	53,728,199
Interest Credits	0		0	0
Carryover Application	(3,868,275)		(1,765,751)	(2,102,525)
Total Credits & Carryover	<u>(3,868,275)</u>		<u>(1,765,751)</u>	<u>(2,102,525)</u>
Revenue Requirement	66,916,408		15,290,733	51,625,674

**PARKER-DAVIS PROJECT
COST APPORTIONMENT STUDY
FY2019**

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	57	61.29%
Generation	36	38.71%
	----- 93	----- 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	2,596,946	0
	----- 2,868,093	----- 1,425,045

**PARKER-DAVIS PROJECT
COST APPORTIONMENT STUDY
FY2020**

Annual Expenses	Total	Allocation Factor	Generation	Transmission
Western O&M				
Systemwide Expenses	6,844,644	Customers/Gen/Tran	2,053,125	4,791,519
Substation & Transmission Lines	16,690,483	Transmission	0	16,690,483
Communication & Control Equipment	1,255,765	SCADA	13,444	1,242,321
System Operation & Load Dispatch	6,484,575	SCADA/Tran	63,017	6,421,558
Subtotal Western O&M	<u>31,275,467</u>		<u>2,129,586</u>	<u>29,145,881</u>
	100%		6.8%	93.2%
Western General Expenses				
Western General Expenses	4,110,911	% of Subtotal	279,917	3,830,994
Bureau of Reclamation O&M	10,339,000	Generation	10,339,000	0
Purchase Power	4,260,000	Gen & Tran	2,360,000	1,900,000
Capitalized Movable Equipment	1,063,196	% of Subtotal	72,394	990,802
Multi-Project (SCADA, Mead, Phoenix Service Center)	(2,029,408)	Transmission	(4,186)	(2,025,222)
Bureau of Reclamation Replacements	1,763,000	Generation	1,763,000	0
Principal/Interest Payments - Reclamation	84,162	Generation	84,162	0
Principal/Interest Payments - Western	31,815,154	Transmission	0	31,815,154
Total Annual Gross Expenses	<u>82,681,482</u>		<u>17,023,873</u>	<u>65,657,608</u>
	100%		20.6%	79.4%
Other Revenues				
Transmission				
Nonfirm/Short-Term Firm (OASIS)	3,150,000	Transmission	0	3,150,000
Losses	4,150,000	Transmission	0	4,150,000
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>8,813,374</u>		<u>250,000</u>	<u>8,563,374</u>
	100%		2.8%	97.2%
Expenses Less Other Revenues	73,868,108		16,773,873	57,094,234
Interest Credits	0		0	0
Carryover Application	(7,070,878)		(1,483,140)	(5,587,738)
Total Credits & Carryover	<u>(7,070,878)</u>		<u>(1,483,140)</u>	<u>(5,587,738)</u>
Revenue Requirement	66,797,229		15,290,733	51,506,496

**PARKER-DAVIS PROJECT
COST APPORTIONMENT STUDY
FY2020**

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	57	61.29%
Generation	36	38.71%
	93	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	2,590,325	0
	2,861,472	1,425,045

**PARKER-DAVIS PROJECT
COST APPORTIONMENT STUDY
FY2021**

Annual Expenses	Total	Allocation Factor	Generation	Transmission
Western O&M				
Systemwide Expenses	7,021,148	Customers/Gen/Tran	2,104,981	4,916,167
Substation & Transmission Lines	17,084,840	Transmission	0	17,084,840
Communication & Control Equipment	1,286,441	SCADA	13,772	1,272,669
System Operation & Load Dispatch	6,670,412	SCADA/Tran	64,842	6,605,570
Subtotal Western O&M	<u>32,062,842</u>		<u>2,183,595</u>	<u>29,879,247</u>
	100%		6.8%	93.2%
Western General Expenses				
Western General Expenses	4,166,501	% of Subtotal	283,702	3,882,799
Bureau of Reclamation O&M	10,494,500	Generation	10,494,500	0
Purchase Power	4,600,000	Gen & Tran	2,700,000	1,900,000
Capitalized Movable Equipment	1,063,196	% of Subtotal	72,394	990,802
Multi-Project (SCADA, Mead, Phoenix Service Center)	(1,886,177)	Transmission	(2,652)	(1,883,525)
Bureau of Reclamation Replacements	2,624,000	Generation	2,624,000	0
Principal/Interest Payments - Reclamation	84,792	Generation	84,792	0
Principal/Interest Payments - Western	34,663,737	Transmission	0	34,663,737
Total Annual Gross Expenses	<u>87,873,391</u>		<u>18,440,331</u>	<u>69,433,059</u>
	100%		21.0%	79.0%
Other Revenues				
Transmission				
Nonfirm/Short-Term Firm (OASIS)	3,765,397	Transmission	0	3,765,397
Losses	4,765,397	Transmission	0	4,765,397
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>10,044,168</u>		<u>250,000</u>	<u>9,794,168</u>
	100%		2.5%	97.5%
Expenses Less Other Revenues	77,829,223		18,190,331	59,638,891
Interest Credits	0		0	0
Carryover Application	(11,031,994)		(2,899,598)	(8,132,395)
Total Credits & Carryover	<u>(11,031,994)</u>		<u>(2,899,598)</u>	<u>(8,132,395)</u>
Revenue Requirement	66,797,230		15,290,733	51,506,496

**PARKER-DAVIS PROJECT
COST APPORTIONMENT STUDY
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	57	61.29%
Generation	36	38.71%
	93	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	2,590,325	0
	2,861,472	1,425,045