

Ephraim City, UT
Electric Financial Study and Rate Design

12/12/2024

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Submitted Respectfully by:
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Ephraim City, UT

Electric Financial Study and Rate Design

Projection Summary as of 12/12/2024

* 6 month grace for FY2025 rates to become effective January 1, 2025, future years effective July 1 of each new fiscal year

Fiscal Year	Projected Rate Adjustments	Total Capital	Debt Coverage Ratio	Adjusted Operating Income	Target Operating Income	Projected Cash Balances	Targeted Minimum Cash	Bond Issues Including Fees	Period	Rate
2025	3.25%	\$ 138,000	67.94	\$ 1,321,173	\$ 351,246	\$ 5,862,340	\$ 2,346,274	\$ -	-	0.00%
2026	3.25%	9,320,000	4.13	\$ 1,263,180	616,024	\$ 3,383,704	2,555,043	5,500,000	20	4.00%
2027	3.25%	302,000	4.43	\$ 1,213,776	616,517	\$ 4,553,711	2,568,713	-	-	0.00%
2028	0.00%	3,162,000	4.28	\$ 1,073,230	725,457	\$ 2,798,301	2,614,793	-	-	0.00%
2029	0.00%	347,000	4.16	\$ 959,870	727,789	\$ 3,805,935	2,629,403	-	-	0.00%
								\$ 5,500,000	<-Total Bonding	

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Rate Design Summary as of 12/12/2024

*** 6 month grace for FY2025 rates to become effective January 1, 2025, future years effective July 1 of each new fiscal year**

Customer Class	Percent of Revenue	Average % Change (1-3 Year)	Average % Change (4-5 Year)	Average % Change (1-5 Year)
Residential Service (Schedule A - 101)	40%	5.3%	0.5%	3.4%
Solar Residential Service (Schedule D - 102)	1%	1.5%	-0.7%	0.7%
Commercial Service (Schedule B - 111)	8%	3.3%	0.5%	2.2%
Commercial Service (Schedule B - 112)	46%	1.6%	-0.6%	0.7%
Pumping Service (Schedule C - 113)	3%	4.1%	-1.3%	2.0%
Solar Commercial Service (Schedule E - 114)	1%	-2.3%	-1.3%	-1.9%
Commercial In County (Rate Class 115)	2%	5.0%	4.4%	4.8%
Totals	100%	3.25%	0.00%	1.95%

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Residential Service (Schedule A - 101)

* 6 month grace for FY2025 rates to become effective January 1, 2025, future years effective July 1 of each new fiscal year

	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029
Rates	Current	Year 1	Year 2	Year 3	Year 4	Year 5
Monthly Facilities Charge: (FY2024 as Minimum, FY2025-FY2029 as Base)	\$ 9.25	\$ 6.00	\$ 12.00	\$ 18.00	\$ 19.00	\$ 20.00
Energy Charge: (All kWh)						
Block 1 (0 - 50 kWh)	\$ 0.1850	\$ 0.1327	\$ 0.1297	\$ 0.1270	\$ 0.1260	\$ 0.1250
Block 2 (51 - 150 kWh)	\$ 0.1405	\$ 0.1327	\$ 0.1297	\$ 0.1270	\$ 0.1260	\$ 0.1250
Block 3 (Excess)	\$ 0.1290	\$ 0.1327	\$ 0.1297	\$ 0.1270	\$ 0.1260	\$ 0.1250
Demand Charge (All kW)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Block 1 (0 - 15 kW)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Block 2 (Excess)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Power Cost Adjustment:						
All Energy * As calculated and balanced by Staff via PCA model	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revenue from Rate	\$ 2,055,649	\$ 2,163,687	\$ 2,279,330	\$ 2,399,500	\$ 2,411,228	\$ 2,422,955
Average Usage	563					
Monthly Customers	2,235					
Average Bill \$	\$ 76.65	\$ 80.67	\$ 84.99	\$ 89.47	\$ 89.90	\$ 90.34
Average % Change		5.3%	5.3%	5.3%	0.5%	0.5%
Average Monthly Change \$		\$ 4.03	\$ 4.31	\$ 4.48	\$ 0.44	\$ 0.44

Average Monthly \$ Change Over 3 Years	Average Monthly \$ Change Over 5 Years
\$ 4.27	\$ 2.74

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Solar Residential Service (Schedule D - 102)

Rates tied to Residential Rate A - 101

* 6 month grace for FY2025 rates to become effective January 1, 2025, future years effective July 1 of each new fiscal year

	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029
Rates	Current	Year 1	Year 2	Year 3	Year 4	Year 5
Monthly Facilities Charge: (FY2024 as Minimum, FY2025-FY2029 as Base)	\$ 9.25	\$ 6.00	\$ 12.00	\$ 18.00	\$ 19.00	\$ 20.00
Monthly Solar Interconnection Fee	\$ 13.00	\$ 16.25	\$ 10.25	\$ 4.25	\$ 3.25	\$ 2.25
Energy Charge: (All kWh)						
Block 1 (0 - 50 kWh)	\$ 0.1850	\$ 0.1327	\$ 0.1297	\$ 0.1270	\$ 0.1260	\$ 0.1250
Block 2 (51 - 150 kWh)	\$ 0.1405	\$ 0.1327	\$ 0.1297	\$ 0.1270	\$ 0.1260	\$ 0.1250
Block 3 (Excess)	\$ 0.1290	\$ 0.1327	\$ 0.1297	\$ 0.1270	\$ 0.1260	\$ 0.1250
Other:						
Solar Production Rate Rate * As updated by Staff	\$ (0.0410)	\$ (0.0410)	\$ (0.0410)	\$ (0.0410)	\$ (0.0410)	\$ (0.0410)
Power Cost Adjustment:						
All Energy * As calculated and balanced by Staff via PCA model	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revenue from Rate	\$ 30,555	\$ 33,079	\$ 32,450	\$ 31,883	\$ 31,674	\$ 31,464
Average Usage	760					
Monthly Customers	23					
Average Bill \$	\$ 110.71	\$ 119.85	\$ 117.57	\$ 115.52	\$ 114.76	\$ 114.00
Average % Change		8.3%	-1.9%	-1.7%	-0.7%	-0.7%
Average Monthly Change \$	\$	\$ 9.15	\$ (2.28)	\$ (2.05)	\$ (0.76)	\$ (0.76)

Average Monthly \$ Change Over 3 Years	Average Monthly \$ Change Over 5 Years
\$ 1.60	\$ 0.66

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Projected Commercial Service (Schedule B - 111) Rates

* 6 month grace for FY2025 rates to become effective January 1, 2025, future years effective July 1 of each new fiscal year

	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029
Rates	Current	Year 1	Year 2	Year 3	Year 4	Year 5
Monthly Facilities Charge: (FY2024 as Minimum, FY2025-FY2029 as Base)	\$ 15.00	\$ 22.00	\$ 32.00	\$ 42.00	\$ 47.00	\$ 52.00
Energy Charge: (All kWh)						
Block 1 (0 - 500 kWh)	\$ 0.1812	\$ 0.1265	\$ 0.1240	\$ 0.1218	\$ 0.1175	\$ 0.1132
Block 2 (501 - 500 kWh)	\$ 0.1452	\$ 0.1265	\$ 0.1240	\$ 0.1218	\$ 0.1175	\$ 0.1132
Block 3 (501 - 5,000 kWh)	\$ 0.1310	\$ 0.1265	\$ 0.1240	\$ 0.1218	\$ 0.1175	\$ 0.1132
Block 4 (Excess)	\$ 0.1221	\$ 0.1265	\$ 0.1240	\$ 0.1218	\$ 0.1175	\$ 0.1132
Demand Charge (All kW)	\$ 0.85	\$ 5.50	\$ 6.50	\$ 7.50	\$ 8.50	\$ 9.50
Block 1 (0 - 15 kW)	\$ -	\$ 5.50	\$ 6.50	\$ 7.50	\$ 8.50	\$ 9.50
Block 2 (Excess)	\$ 5.78	\$ 5.50	\$ 6.50	\$ 7.50	\$ 8.50	\$ 9.50
Power Cost Adjustment:						
All Energy * As calculated and balanced by Staff via PCA model	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revenue from Rate	\$ 427,231	\$ 432,045	\$ 450,733	\$ 470,284	\$ 472,576	\$ 474,868
Average Usage	1,219					
Average Demand	2					
Average LF	109.0%					
Monthly Customers	187					
Average Bill \$	\$ 190.39	\$ 192.53	\$ 200.86	\$ 209.57	\$ 210.60	\$ 211.62
Average % Change		1.1%	4.3%	4.3%	0.5%	0.5%
Average Monthly Change \$		\$ 2.14	\$ 8.33	\$ 8.71	\$ 1.02	\$ 1.02

Average Monthly \$ Change Over	Average Monthly \$ Change Over
3 Years	5 Years
\$ 6.40	\$ 4.25

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Projected Commercial Service (Schedule B - 112) Rates

* 6 month grace for FY2025 rates to become effective January 1, 2025, future years effective July 1 of each new fiscal year

	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029
Rates	Current	Year 1	Year 2	Year 3	Year 4	Year 5
Monthly Facilities Charge: (FY2024 as Minimum, FY2025-FY2029 as Base)	\$ 30.00	\$ 22.00	\$ 34.00	\$ 46.00	\$ 58.00	\$ 70.00
Energy Charge: (All kWh)						
Block 1 (0 - 500 kWh)	\$ 0.1812	\$ 0.1265	\$ 0.1240	\$ 0.1218	\$ 0.1175	\$ 0.1132
Block 2 (501 - 500 kWh)	\$ 0.1452	\$ 0.1265	\$ 0.1240	\$ 0.1218	\$ 0.1175	\$ 0.1132
Block 3 (501 - 5,000 kWh)	\$ 0.1310	\$ 0.1265	\$ 0.1240	\$ 0.1218	\$ 0.1175	\$ 0.1132
Block 4 (Excess)	\$ 0.1221	\$ 0.1265	\$ 0.1240	\$ 0.1218	\$ 0.1175	\$ 0.1132
Demand Charge (All kW)	\$ 4.82	\$ 5.50	\$ 6.50	\$ 7.50	\$ 8.50	\$ 9.50
Block 1 (0 - 15 kW)	\$ -	\$ 5.50	\$ 6.50	\$ 7.50	\$ 8.50	\$ 9.50
Block 2 (Excess)	\$ 5.78	\$ 5.50	\$ 6.50	\$ 7.50	\$ 8.50	\$ 9.50
Power Cost Adjustment:						
All Energy * As calculated and balanced by Staff via PCA model	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revenue from Rate	\$ 2,511,275	\$ 2,591,279	\$ 2,608,700	\$ 2,631,553	\$ 2,616,384	\$ 2,601,215
Average Usage	3,267					
Monthly Customers	83					
Average Bill \$	\$ 2,521.36	\$ 2,601.69	\$ 2,619.18	\$ 2,642.12	\$ 2,626.89	\$ 2,611.66
Average % Change		3.2%	0.7%	0.9%	-0.6%	-0.6%
Average Monthly Change \$		\$ 80.32	\$ 17.49	\$ 22.94	\$ (15.23)	\$ (15.23)

Average Monthly \$ Change Over 3 Years	Average Monthly \$ Change Over 5 Years
\$ 40.25	\$ 18.06

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Projected Pumping Service (Schedule C - 113) Rates

* 6 month grace for FY2025 rates to become effective January 1, 2025, future years effective July 1 of each new fiscal year

	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029
Rates	Current	Year 1	Year 2	Year 3	Year 4	Year 5
Monthly Facilities Charge: (FY2024 as Minimum, FY2025-FY2029 as Base)	\$ 10.00	\$ 22.00	\$ 32.00	\$ 42.00	\$ 47.00	\$ 52.00
Energy Charge: (All kWh)						
Block 1 (0 - 1,000 kWh)	\$ 0.1221	\$ 0.1265	\$ 0.1240	\$ 0.1218	\$ 0.1175	\$ 0.1132
Block 2 (Excess)	\$ 0.1163	\$ 0.1265	\$ 0.1240	\$ 0.1218	\$ 0.1175	\$ 0.1132
Demand Charge (All kW)	\$ 5.78	\$ 5.50	\$ 6.50	\$ 7.50	\$ 8.50	\$ 9.50
All Demand	\$ 5.78	\$ 5.50	\$ 6.50	\$ 7.50	\$ 8.50	\$ 9.50
Power Cost Adjustment:						
All Energy * As calculated and balanced by Staff via PCA model	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revenue from Rate	\$ 151,421	\$ 167,766	\$ 168,919	\$ 170,434	\$ 168,213	\$ 165,992
Average Usage	5,031					
Monthly Customers	20					
Average Bill \$	\$ 630.92	\$ 699.02	\$ 703.83	\$ 710.14	\$ 700.89	\$ 691.63
Average % Change		10.8%	0.7%	0.9%	-1.3%	-1.3%
Average Monthly Change \$		\$ 68.10	\$ 4.80	\$ 6.31	\$ (9.25)	\$ (9.25)

Average Monthly \$ Change Over 3 Years	Average Monthly \$ Change Over 5 Years
\$ 26.41	\$ 12.14

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Electric Rate Design

Projected Solar Commercial Service (Schedule E - 114) Rates

kWh Rates tied to Commercial Rate B - 111

* 6 month grace for FY2025 rates to become effective January 1, 2025, future years effective July 1 of each new fiscal year

	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029
Rates	Current	Year 1	Year 2	Year 3	Year 4	Year 5
Monthly Facilities Charge: (FY2024 as Minimum, FY2025-FY2029 as Base)	\$ 15.00	\$ 22.00	\$ 32.00	\$ 42.00	\$ 47.00	\$ 52.00
Monthly Solar Interconnection Fee	\$ 27.00	\$ 20.00	\$ 10.00	\$ -	\$ -	\$ -
Block 1 (0 - 500 kWh)	\$ 0.1812	\$ 0.1265	\$ 0.1240	\$ 0.1218	\$ 0.1175	\$ 0.1132
Block 2 (501 - 500 kWh)	\$ 0.1452	\$ 0.1265	\$ 0.1240	\$ 0.1218	\$ 0.1175	\$ 0.1132
Block 3 (501 - 5,000 kWh)	\$ 0.1310	\$ 0.1265	\$ 0.1240	\$ 0.1218	\$ 0.1175	\$ 0.1132
Block 4 (Excess)	\$ 0.1221	\$ 0.1265	\$ 0.1240	\$ 0.1218	\$ 0.1175	\$ 0.1132
Demand Charge (All kW)	\$ 5.78	\$ 5.50	\$ 6.50	\$ 7.50	\$ 8.50	\$ 9.50
All Demand	\$ 5.78	\$ 5.50	\$ 6.50	\$ 7.50	\$ 8.50	\$ 9.50
Other:						
Solar Production Rate Rate * As updated by Staff	\$ (0.0410)	\$ (0.0410)	\$ (0.0410)	\$ (0.0410)	\$ (0.0410)	\$ (0.0410)
Power Cost Adjustment:						
All Energy * As calculated and balanced by Staff via PCA model	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revenue from Rate	\$ 69,207	\$ 65,599	\$ 64,963	\$ 64,465	\$ 63,607	\$ 62,749
Average Usage	3,498					
Monthly Customers	10					
Average Bill \$	\$ 576.73	\$ 546.66	\$ 541.36	\$ 537.21	\$ 530.06	\$ 522.91
Average % Change		-5.2%	-1.0%	-0.8%	-1.3%	-1.3%
Average Monthly Change \$		\$ (30.07)	\$ (5.30)	\$ (4.15)	\$ (7.15)	\$ (7.15)

Average Monthly \$ Change Over	Average Monthly \$ Change Over
3 Years	5 Years
\$ (13.17)	\$ (10.76)

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Projected Commercial In County (Rate Class 115) Rates

* 6 month grace for FY2025 rates to become effective January 1, 2025, future years effective July 1 of each new fiscal year

	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029
Rates	Current	Year 1	Year 2	Year 3	Year 4	Year 5
Monthly Facilities Charge: (FY2024 as Minimum, FY2025-FY2029 as Base)	\$ 15.00	\$ 23.00	\$ 36.00	\$ 49.00	\$ 62.00	\$ 75.00
Energy Charge: (All kWh)						
Block 1 (0 - 500 kWh)	\$ 0.1812	\$ 0.1265	\$ 0.1240	\$ 0.1218	\$ 0.1175	\$ 0.1132
Block 2 (501 - 500 kWh)	\$ 0.1452	\$ 0.1265	\$ 0.1240	\$ 0.1218	\$ 0.1175	\$ 0.1132
Block 3 (501 - 5,000 kWh)	\$ 0.1310	\$ 0.1265	\$ 0.1240	\$ 0.1218	\$ 0.1175	\$ 0.1132
Block 4 (Excess)	\$ 0.1221	\$ 0.1265	\$ 0.1240	\$ 0.1218	\$ 0.1175	\$ 0.1132
Demand Charge (All kW)	\$ 5.26	\$ 5.50	\$ 6.50	\$ 7.50	\$ 8.50	\$ 9.50
Block 1 (0 - 15 kW)	\$ -	\$ 5.50	\$ 6.50	\$ 7.50	\$ 8.50	\$ 9.50
Block 2 (Excess)	\$ 5.78	\$ 5.50	\$ 6.50	\$ 7.50	\$ 8.50	\$ 9.50
Power Cost Adjustment:						
All Energy * As calculated and balanced by Staff via PCA model	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revenue from Rate	\$ 87,176	\$ 89,667	\$ 95,180	\$ 100,847	\$ 105,434	\$ 110,021
Average Usage	949					
Monthly Customers	22					
Average Bill \$	\$ 330.21	\$ 339.65	\$ 360.53	\$ 382.00	\$ 399.37	\$ 416.74
Average % Change		2.9%	6.1%	6.0%	4.5%	4.4%
Average Monthly Change \$		\$ 9.44	\$ 20.88	\$ 21.47	\$ 17.37	\$ 17.37

Average Monthly \$ Change Over	Average Monthly \$ Change Over
3 Years	5 Years
\$ 17.26	\$ 17.31