



UTILITIES CO.

A Subsidiary of MDU Resources Group, Inc.

400 North Fourth Street  
Bismarck, ND 58501  
701-222-7900

March 16, 2023

Executive Secretary  
North Dakota Public Service Commission  
State Capitol Building  
600 East Boulevard  
Bismarck, ND 58505-0480

Re: Fuel and Purchased Power Adjustment  
Case No. PU-23-010  
April 2023

Montana-Dakota Utilities Co. (Montana-Dakota) electronically submits its Fuel and Purchased Power (F&PP) adjustment pursuant to its Rate 58.

Exhibit A, page 1 summarizes the fuel and purchase power adjustment calculated pursuant to the terms of Rate 58 that will apply during the month of April 2023. Pages 2 through 4 show the calculation of the adjustment which is based on a four-month historical average cost of fuel and purchased power.

Exhibit B shows the calculation of the surcharge adjustment that will be applicable to Montana-Dakota’s customers from April 1, 2023 through March 31, 2024. The total surcharge is a negative 0.219 cents per kWh for primary service customers and a negative 0.212 cents per kWh for secondary service customers. The change in the surcharge adjustment effective April 1, 2022, is a reduction of 0.519 cents per kWh for primary and a reduction of 0.532 cents per kWh for secondary service customers.

The net effect of this F&PP adjustment is a reduction of 0.809 cents per kWh for primary service customers and a reduction of 0.832 cents per kWh for secondary service customers for service rendered in the month of April 2023 from current effective rates as shown below. The decrease was the result of the reduction in the surcharge adjustment and lower per unit MISO market prices.

	<u>Primary</u>	<u>Secondary</u>
F&PP Effective April 1, 2023	\$0.01883	\$0.01975
F&PP Effective March 1, 2023	0.02692	0.02807
Change	<u>(\$0.00809)</u>	<u>(\$0.00832)</u>

The current and historical Fuel and Purchased Power Adjustment for primary and secondary service customers can be found by selecting the Fuel and Purchased Power Adjustment link at <https://www.montana-dakota.com/rates-services/rates-tariffs>.

All of Montana-Dakota's retail electric customers in North Dakota may be affected by this proposal. There were 93,782 electric customers in North Dakota as of February 28, 2023.

In response to Paragraph No. 11 of NDAC Section 69-09-02-39, Montana-Dakota purchases natural gas used for electric generation from its own gas operations or transports natural gas purchased from others under the applicable gas tariff approved and on file with the Commission in the state where the purchase is made or the transportation occurs. Montana-Dakota also has an agreement with its own gas operations associated with the pipeline utilized to transport firm natural gas service to the Heskett III Station pursuant to the order in Case Nos. PU-14-108 and PU-14-109.

Montana-Dakota will submit the \$50.00 filing fee following this filing.

Montana-Dakota respectfully requests this electronic filing, in lieu of an original and two (2) physical copies, be accepted as being in full compliance with the filing requirements of this Commission.

If you have any questions regarding this filing, please contact me at (701) 222-7855 or [Travis.Jacobson@mdu.com](mailto:Travis.Jacobson@mdu.com).

Sincerely,

*/s/ Travis R. Jacobson*

Travis R. Jacobson  
Director of Regulatory Affairs

Attachment

**MONTANA-DAKOTA UTILITIES CO.  
ELECTRIC INTEGRATED SYSTEM - NORTH DAKOTA  
FUEL AND PURCHASED POWER ADJUSTMENT  
APRIL 2023 ADJUSTMENT**

	<u>Primary</u>	<u>Secondary</u>
Current Cost of Fuel (Page 2)	\$0.02102	\$0.02187
Prior Cost of Fuel	0.02392	0.02487
Change in Cost of Fuel	<u>(\$0.00290)</u>	<u>(\$0.00300)</u>
 <u>Surcharge Adjustment</u>		
Current Adjustment (Exhibit B)	(\$0.00219)	(\$0.00212)
Prior Adjustment	0.00300	0.00320
Change in Surcharge Adjustment	<u>(\$0.00519)</u>	<u>(\$0.00532)</u>
 Cost of Fuel	 \$0.02102	 \$0.02187
Surcharge Adjustment	<u>(0.00219)</u>	<u>(0.00212)</u>
Total	<u><u>\$0.01883</u></u>	<u><u>\$0.01975</u></u>

**MONTANA-DAKOTA UTILITIES CO.  
ELECTRIC INTEGRATED SYSTEM - NORTH DAKOTA  
FUEL AND PURCHASED POWER ADJUSTMENT  
FUEL AND PURCHASED POWER COST TRACKING**

	<u>Total 1/</u>	<u>Allocation to 2/ North Dakota</u>	<u>Allocation to 3/ Primary</u>	<u>Secondary</u>
Fuel & Purchased Power Cost				
Accounts 501 Coal and 547 Gas	\$6,549,706	\$4,689,247	\$913,077	\$3,776,170
Account 502 Reagent	259,004	185,433	36,107	149,326
Account 555 Energy	16,872,796	12,080,040	2,352,191	9,727,849
Accounts 555 Demand and 547 Pipeline Charges	1,101,529	774,293	75,958	698,335
Account 575 Market Admin.	156,054	111,727	21,755	89,972
Total F&PP Cost	<u>\$24,939,089</u>	<u>\$17,840,740</u>	<u>\$3,399,088</u>	<u>\$14,441,652</u>
Less:				
Wholesale Sales Revenue	\$159,626	\$114,284	\$22,253	\$92,031
Sale of RECs Revenue 4/	1,525,048	1,071,889	208,715	863,174
Total Revenue	<u>\$1,684,674</u>	<u>\$1,186,173</u>	<u>\$230,968</u>	<u>\$955,205</u>
Net System Cost	\$23,254,415	\$16,654,567	\$3,168,120	\$13,486,447
kWh Retail Sales	1,076,724,562	767,278,071	<u>150,723,168</u>	<u>616,554,903</u>
Cost Per kWh	\$0.02160	\$0.02171	<u><u>\$0.02102</u></u>	<u><u>\$0.02187</u></u>

1/ Page 3.

2/ Energy is allocated on kWh sales and demand and pipeline are allocated on Allocation Factor No. 15, Integrated System 12 Month Peak Demand.

3/ Energy is allocated on kWh sales at generation and demand and pipeline are allocated on class Allocation Factor No. 2, Coincident Peak Demand from PU-16-666.

Factor No. 15 ND	70.292541%
Factor No. 2 Primary	9.810000%
Factor No. 2 Secondary	90.190000%

**MONTANA-DAKOTA UTILITIES CO.  
ELECTRIC INTEGRATED SYSTEM - NORTH DAKOTA  
FUEL AND PURCHASED POWER ADJUSTMENT  
FUEL AND PURCHASED POWER COST TRACKING**

	2022		2023		Total
	November	December	January	February	
Fuel & Purchased Power Cost					
Accounts 501 Coal and 547 Gas	\$1,410,218	\$1,944,443	\$1,520,683	\$1,674,362	\$6,549,706
Account 502 Reagent	61,422	66,014	69,075	62,493	259,004
Account 555 Energy 1/ Accounts 555 Demand and 547 Pipeline Charges	3,419,648	7,605,349	4,725,776	1,122,023	16,872,796
Account 575 Market Admin.	271,744	268,517	277,897	283,371	1,101,529
Total F&PP Cost	41,364	35,873	33,587	45,230	156,054
	<u>\$5,204,396</u>	<u>\$9,920,196</u>	<u>\$6,627,018</u>	<u>\$3,187,479</u>	<u>\$24,939,089</u>
Less:					
Wholesale Sales Revenue	\$73,662	\$25,000	\$29,112	\$31,852	\$159,626
Sale of RECs Revenue	694,615	0	69,152	761,281	1,525,048
Total Revenue	<u>\$768,277</u>	<u>\$25,000</u>	<u>\$98,264</u>	<u>\$793,133</u>	<u>\$1,684,674</u>
Net System Cost	\$4,436,119	\$9,895,196	\$6,528,754	\$2,394,346	\$23,254,415
kWh Retail Sales	214,549,291	294,169,127	313,004,099	255,002,045	<u>1,076,724,562</u>
Cost Per kWh	\$0.02068	\$0.03364	\$0.02086	\$0.00939	<u><u>\$0.02160</u></u>

**MONTANA-DAKOTA UTILITIES CO.  
ELECTRIC INTEGRATED SYSTEM  
FUEL AND PURCHASED POWER ADJUSTMENT  
ACCOUNT 555 ENERGY**

Account No.	Account Description	2022		2023	
		November	December	January	February
	<u>Midcontinent Independent System Operator (MISO)</u>				
555.111	Day-Ahead Asset Energy	\$3,561,288	\$7,921,815	\$6,033,636	\$2,204,657
555.114	Real-Time Asset Energy	(169,153)	(840,124)	(249,844)	(102,977)
555.117	Real-Time Excessive Energy	876	(190)	0	132
555.118	Real-Time Non-Excessive Energy	(154,287)	(12,558)	(779,289)	(367,708)
555.1212	Day-Ahead Financial Bilateral Congestion Loss	72,232	48,068	76,991	(7,175)
555.1230	Revenue Rights Transaction	(1,281,988)	(1,664,180)	(1,664,181)	(1,664,181)
555.1232	Revenue Rights Infeasible Uplift	13,914	5,157	5,156	5,155
555.1233	Revenue Rights Stage 2 Distribution	(49,545)	(65,670)	(65,670)	(65,670)
555.1234	Auction Revenue Rights Real-Time MVP Distribution	(2,872)	(18,663)	8	(14,645)
555.132	Day-Ahead Financial Bilateral Transaction Loss	30,821	27,752	20,749	15,985
555.135	Real-Time Asset Loss	285,956	488,884	324,404	42,252
555.136	Real-Time Distribution of Loss	(49,071)	(116,589)	(54,628)	(46,402)
555.151	Day-Ahead Rev Suff Guarantee Distribution	16,617	7,194	6,321	8,475
555.152	Day-Ahead Rev Suff Guarantee Make Whole Pmt	(1)	0	0	0
555.153	Real-Time Miscellaneous	(3,842)	5,545	2,619	(18,825)
555.154	Real-Time Net Inadvertent Distribution	6,666	10,708	(174)	(5,143)
555.155	Real-Time Revenue Neutrality Uplift	(22,133)	(117,403)	39,920	74,359
555.156	Real-Time Rev Suff Guarantee First Pass Distribution	14,428	41,400	1,989	1,179
555.157	Real-Time Rev Suff Guarantee Make Whole Payment	(24,181)	(193,168)	0	0
555.159	Day-Ahead Schedule 24	5,373	5,919	4,650	5,043
555.160	Real-Time Schedule 24	935	934	676	876
555.162	Real-Time Price Volatility Make Whole Payment	(14,102)	(73,166)	(8,899)	(7,624)
555.164	Real-Time Schedule 49	10,335	10,252	9,987	33,548
555.1701	Day-Ahead Spinning Reserve Amount	(13,042)	(3,691)	(876)	(5,637)
555.1702	Day-Ahead Supplemental Reserve Amount	0	(101)	0	0
555.1703	Day-Ahead Ramp Capability	(266)	(94)	0	(150)
555.1704	Day-Ahead Short Term Reserve Amount	(1,415)	(8,735)	(727)	(599)
555.1710	Real-Time Net Regulation Adjustment	0	(22)	0	0
555.1711	Real-Time Excessive Deficient Energy Deployment	18	3,802	0	30
555.1713	Real-Time Regulation Amount	(3)	(122)	0	0
555.1714	Real-Time Spinning Reserve Amount	1,908	(42,301)	(727)	(489)
555.1715	Real-Time Supplemental Reserve Amount	0	(23,867)	0	0
555.1716	Real-Time Regulation Cost Distribution	14,543	16,517	13,046	10,435
555.1717	Real-Time Spinning Reserve Cost Distribution Amount	18,032	16,517	9,339	5,911
555.1718	Real-Time Supplemental Reserve Cost Distribution	878	(45)	1,251	1,043
555.1719	Real-Time Demand Response Allocation Uplift	45	12	488	1,725
555.1720	Real-Time Ramp Capability	(428)	(501)	(8)	34
555.1721	Real-Time Short Term Cost Distribution Amount	5,794	60,410	1,919	569
555.1723	Real-Time Short Term Reserve Amount	1,780	(57,375)	127	140
	<u>Southwest Power Pool (SPP)</u>				
555.185	Real-Time Asset Losses	88,432	199,315	218,881	64,938
555.186	Real-Time Over Collected Losses	(165,576)	(164,469)	(177,487)	(113,012)
555.1915	Real-Time Asset Congestion	227,864	1,057,969	(102,199)	67,457
555.1920	Auction Revenue Rights-Daily	(195,320)	(152,121)	(184,186)	(110,512)
	<u>Other</u>				
555.X	Purchased Power	1,188,000	1,232,303	1,242,502	1,108,800
555.5	Purchased Power Cogeneration	138	31	12	29
	<b>Total Account 555 Energy</b>	<b>\$3,419,648</b>	<b>\$7,605,349</b>	<b>\$4,725,776</b>	<b>\$1,122,023</b>

**MONTANA-DAKOTA UTILITIES CO.  
ELECTRIC UTILITY - NORTH DAKOTA  
FUEL AND PURCHASED POWER COST SURCHARGE ADJUSTMENT  
TO BE EFFECTIVE APRIL 1, 2023 THROUGH MARCH 31, 2024  
PRIMARY**

(Over)/Under Recovered Electric Costs as of January 31, 2023 (Page 3) (\$739,859)

Less: Projected Recovery From Rates Already Established

	Volume	Rate	Amount
February 1/	36,531,832	\$0.00300	\$109,595
March	33,236,000	0.00300	99,708
	69,767,832		\$209,303

Additional Recovery Required (\$949,162)

Projected Sales Volumes (kWh)

April	32,603,000	
May	30,635,000	
June	37,159,000	
July	36,370,000	
August	34,595,000	
September	33,895,000	
October	40,125,000	
November	40,423,000	
December	38,332,000	
January 2024	37,334,000	
February	38,941,000	
March	33,552,000	
Total		<u><u>433,964,000</u></u>

Total (Over)/Under Recovered Fuel Cost Adjustment  
To Be Effective April 1, 2023 Through March 31, 2024 (\$0.00219)

1/ Based on actual volumes.

**MONTANA - DAKOTA UTILITIES CO.  
ELECTRIC UTILITY - NORTH DAKOTA  
FUEL AND PURCHASE POWER COST SURCHARGE ADJUSTMENT  
TO BE EFFECTIVE APRIL 1, 2023 THROUGH MARCH 31, 2024  
SECONDARY**

(Over)/Under Recovered Electric Costs as of January 31, 2023 (Page 4) (\$2,608,898)

Less: Projected Recovery From Rates Already Established

	Volume	Rate	Amount
February 1/	147,010,601	\$0.00320	\$470,434
March	153,570,000	0.00320	491,424
	300,580,601		\$961,858

Additional Recovery Required (\$3,570,756)

Projected Sales Volumes (kWh)

April	122,262,000	
May	121,333,000	
June	124,169,000	
July	147,702,000	
August	140,570,000	
September	122,688,000	
October	120,216,000	
November	136,558,000	
December	162,952,000	
January 2023	171,777,000	
February	156,708,000	
March	155,033,000	
Total		<u><u>1,681,968,000</u></u>

Total (Over)/Under Recovered Fuel Cost Adjustment  
To Be Effective April 1, 2023 through March 31, 2024 (\$0.00212)

1/ Based on actual volumes.

**MONTANA-DAKOTA UTILITIES CO.  
ELECTRIC UTILITY - NORTH DAKOTA  
FUEL AND PURCHASED POWER COST SURCHARGE ADJUSTMENT  
FUEL AND PURCHASED POWER COST ACCOUNT BALANCE  
PRIMARY**

	(Over)/Under Recovered 1/	Interest 2/	Total Additions	Actual Kwh Sales	Surcharge Adjustment per kWh	Adjustment Total	Additions less Adjustment	Cumulative Balance
<b>Balance at January 31, 2022</b>								<b>\$1,281,654</b>
February	\$113,338	\$201	\$113,539	32,243,569	\$0.00003	\$967	\$112,572	\$1,394,226
March	(698,452)	300	(698,152)	38,081,694	0.00003	1,142	(699,294)	694,932
April	(442,242)	183	(442,059)	34,659,194	0.00300	43,551 3/	(485,610)	209,322
May	(246,704)	(85)	(246,789)	30,064,577	0.00300	90,194	(336,983)	(127,661)
June	(332,540)	(548)	(333,088)	35,347,596	0.00300	106,043	(439,131)	(566,792)
July	342,433	(1,635)	340,798	31,923,553	0.00300	95,771	245,027	(321,765)
August	53,081	(1,387)	51,694	39,020,845	0.00300	117,063	(65,369)	(387,134)
September	(150,506)	(1,818)	(152,324)	38,479,640	0.00300	115,439	(267,763)	(654,897)
October	(53,122)	(2,985)	(56,107)	37,048,115	0.00300	111,144	(167,251)	(822,148)
November	(59,433)	(3,898)	(63,331)	34,330,519	0.00300	102,992	(166,323)	(988,471)
December	495,131	(4,567)	490,564	39,641,017	0.00300	118,923	371,641	(616,830)
January 2023	1,086	(3,456)	(2,370)	40,219,800	0.00300	120,659	(123,029)	(739,859)
	(\$977,930)	(\$19,695)	(\$997,625)	431,060,119		\$1,023,888	(\$2,021,513)	
<b>Balance at January 31, 2023</b>								<b><u>(\$739,859)</u></b>

1/ See page 5.

2/ Interest calculated at three-month Treasury Bill rate.

3/ Reflects 20,345,554 kWh at \$0.00003 and 14,313,640 kWh at \$0.00300.

**MONTANA - DAKOTA UTILITIES CO.  
ELECTRIC UTILITY - NORTH DAKOTA  
FUEL AND PURCHASED POWER COST SURCHARGE ADJUSTMENT  
FUEL AND PURCHASED POWER COST ACCOUNT BALANCE  
SECONDARY**

	(Over)/Under Recovered 1/	Interest 2/	Total Additions	Actual Kwh Sales	Surcharge Adjustment per kWh	Adjustment Total	Additions less Adjustment	Cumulative Balance
<b>Balance at January 31, 2022</b>								<b><u>\$5,389,457</u></b>
February	\$498,432	\$847	\$499,279	154,088,283	\$0.00000	\$0	\$499,279	\$5,888,736
March	(3,342,172)	1,268	(3,340,904)	175,962,555	0.00000	0	(3,340,904)	2,547,832
April	(1,667,237)	589	(1,666,648)	129,971,260	0.00320	153,950 3/	(1,820,598)	727,234
May	(955,501)	(482)	(955,983)	119,075,103	0.00320	381,040	(1,337,023)	(609,789)
June	(1,078,855)	(2,393)	(1,081,248)	118,115,171	0.00320	377,969	(1,459,217)	(2,069,006)
July	1,471,776	(6,289)	1,465,487	129,644,903	0.00320	414,864	1,050,623	(1,018,383)
August	236,560	(5,100)	231,460	158,553,566	0.00320	507,371	(275,911)	(1,294,294)
September	(583,062)	(6,777)	(589,839)	139,280,565	0.00320	445,698	(1,035,537)	(2,329,831)
October	(153,075)	(11,243)	(164,318)	110,996,527	0.00320	355,189	(519,507)	(2,849,338)
November	(188,876)	(14,300)	(203,176)	115,976,767	0.00320	371,126	(574,302)	(3,423,640)
December	2,041,237	(16,628)	2,024,609	168,515,123	0.00320	539,248	1,485,361	(1,938,279)
January 2023	(66,371)	(12,080)	(78,451)	185,052,412	0.00320	592,168	(670,619)	(2,608,898)
	<u>(\$3,787,144)</u>	<u>(\$72,588)</u>	<u>(\$3,859,732)</u>	1,705,232,235		<u>\$4,138,623</u>	<u>(\$7,998,355)</u>	
<b>Balance at January 31, 2023</b>								<b><u>(\$2,608,898)</u></b>

1/ See page 6.

2/ Interest calculated at three-month Treasury Bill rate.

3/ Reflects 81,861,946 kWh at \$0.00000 and 48,109,314 kWh at \$0.00320.

**MONTANA-DAKOTA UTILITIES CO.  
ELECTRIC UTILITY - NORTH DAKOTA  
FUEL AND PURCHASED POWER COST SURCHARGE ADJUSTMENT  
COMPUTATION OF (OVER)/UNDER RECOVERED FUEL AND PURCHASED POWER COST  
PRIMARY**

	2022 1/											2023 1/	Total
	February	March	April	May	June	July	August	September	October	November	December	January	
Fuel & Purchased Power Cost													
Accounts 501 Coal and 547 Gas	\$291,011	\$304,386	\$96,629	\$170,874	\$540,887	\$520,107	\$402,822	\$396,338	\$306,367	\$224,943	\$260,857	\$194,472	\$3,709,693
Account 502 Reagent	16,411	15,712	6,433	9,042	22,897	22,773	26,378	23,817	14,813	9,797	8,856	8,834	185,763
Account 502 Sand	(23)	0	0	0	0	0	0	0	0	0	0	0	(23)
Account 555 Energy	612,834	224,952	516,133	432,506	13,501	466,170	345,533	168,971	455,325	545,466	1,020,295	604,354	5,406,040
Accounts 555 Demand and 547 Pipeline Charges	24,692	24,873	24,335	24,375	19,188	28,254	26,177	25,938	19,231	18,930	18,705	19,163	273,861
Account 575 Market Adim.	3,368	5,951	5,133	4,116	4,738	5,594	5,316	5,662	5,349	6,598	4,813	4,295	60,933
<b>Total F&amp;PP Cost</b>	<b>\$948,293</b>	<b>\$575,874</b>	<b>\$648,663</b>	<b>\$640,913</b>	<b>\$601,211</b>	<b>\$1,042,898</b>	<b>\$806,226</b>	<b>\$620,726</b>	<b>\$801,085</b>	<b>\$805,734</b>	<b>\$1,313,526</b>	<b>\$831,118</b>	<b>\$9,636,267</b>
Less:													
Wholesale Sales Revenue	\$9,452	\$23,339	\$284	\$2,417	\$35,278	\$27,978	\$37,713	\$74,206	\$21,718	\$11,750	\$3,354	\$3,723	\$251,212
Sales of RECs Revenue 2/	49,417	113,261	16,795	0	0	0	0	0	19,682	110,553	0	8,601	318,309
<b>Total Revenue</b>	<b>\$58,869</b>	<b>\$136,600</b>	<b>\$17,079</b>	<b>\$2,417</b>	<b>\$35,278</b>	<b>\$27,978</b>	<b>\$37,713</b>	<b>\$74,206</b>	<b>\$41,400</b>	<b>\$122,303</b>	<b>\$3,354</b>	<b>\$12,324</b>	<b>\$569,521</b>
<b>Net System Cost</b>	<b>\$889,424</b>	<b>\$439,274</b>	<b>\$631,584</b>	<b>\$638,496</b>	<b>\$565,933</b>	<b>\$1,014,920</b>	<b>\$768,513</b>	<b>\$546,520</b>	<b>\$759,685</b>	<b>\$683,431</b>	<b>\$1,310,172</b>	<b>\$818,794</b>	<b>\$9,066,746</b>
kWh Retail Sales	32,243,569	38,081,694	34,659,194	30,064,577	35,347,596	31,923,553	39,020,845	38,479,640	37,048,115	34,330,519	39,641,017	40,219,800	431,060,119
Cost per kWh	\$0.02758	\$0.01154	\$0.01822	\$0.02124	\$0.01601	\$0.03179	\$0.01969	\$0.01420	\$0.02051	\$0.01991	\$0.03305	\$0.02036	\$0.02103
Recovered through Rates	\$776,086	\$1,137,726	\$1,073,826	\$885,200	\$898,473	\$672,487	\$715,432	\$697,026	\$812,807	\$742,864	\$815,041	\$817,708	\$10,044,676
<b>Total (Over)/Under Recovered</b>	<b>\$113,338</b>	<b>(\$698,452)</b>	<b>(\$442,242)</b>	<b>(\$246,704)</b>	<b>(\$332,540)</b>	<b>\$342,433</b>	<b>\$53,081</b>	<b>(\$150,506)</b>	<b>(\$53,122)</b>	<b>(\$59,433)</b>	<b>\$495,131</b>	<b>\$1,086</b>	<b>(\$977,930)</b>

1/ Energy is allocated on kWh sales at generation and demand and pipeline are allocated on Class Allocation Factor No. 2, Coincident Peak Demand from PU-16-666.  
2/ North Dakota's portion is allocated between primary and secondary based on kWh sales at generation.

**MONTANA-DAKOTA UTILITIES CO.  
ELECTRIC UTILITY - NORTH DAKOTA  
FUEL AND PURCHASED POWER COST SURCHARGE ADJUSTMENT  
COMPUTATION OF (OVER) UNDER RECOVERED FUEL AND PURCHASED POWER COST  
SECONDARY**

	2022 1/												2023 1/	Total
	February	March	April	May	June	July	August	September	October	November	December	January		
<b>Fuel &amp; Purchased Power Cost</b>														
Accounts 501 Coal and 547 Gas	\$1,406,008	\$1,421,942	\$366,346	\$684,216	\$1,827,280	\$2,135,450	\$1,654,800	\$1,450,367	\$927,978	\$768,274	\$1,121,110	\$904,615	\$14,668,386	
Account 502 Reagent	79,291	73,400	24,388	36,207	77,355	93,502	108,360	87,157	44,868	33,463	38,062	41,091	737,144	
Account 502 Sand	(109)	0	0	0	0	0	0	0	0	0	0	0	(109)	
Account 555 Energy	2,960,888	1,050,863	1,956,787	1,731,851	45,612	1,913,998	1,419,453	618,334	1,379,170	1,862,992	4,385,026	2,811,243	22,136,217	
Accounts 555 Demand and 547 Pipeline Charges	227,007	228,679	223,724	224,099	176,408	259,758	240,666	238,462	176,805	174,033	171,966	176,178	2,517,785	
Account 575 Market Adim.	16,272	27,802	19,460	16,481	16,006	22,966	21,840	20,721	16,204	22,535	20,683	19,980	240,950	
<b>Total F&amp;PP Cost</b>	<b>\$4,689,357</b>	<b>\$2,802,686</b>	<b>\$2,590,705</b>	<b>\$2,692,854</b>	<b>\$2,142,661</b>	<b>\$4,425,674</b>	<b>\$3,445,119</b>	<b>\$2,415,041</b>	<b>\$2,545,025</b>	<b>\$2,861,297</b>	<b>\$5,736,847</b>	<b>\$3,953,107</b>	<b>\$40,300,373</b>	
<b>Less:</b>														
Wholesale Sales Revenue	\$45,666	\$109,028	\$1,076	\$9,679	\$119,178	\$114,873	\$154,925	\$271,552	\$65,785	\$40,130	\$14,414	\$17,318	\$963,624	
Sales of RECs Revenue 2/	238,757	529,100	63,674	0	0	0	0	0	59,615	377,585	0	40,009	1,308,740	
<b>Total Revenue</b>	<b>\$284,423</b>	<b>\$638,128</b>	<b>\$64,750</b>	<b>\$9,679</b>	<b>\$119,178</b>	<b>\$114,873</b>	<b>\$154,925</b>	<b>\$271,552</b>	<b>\$125,400</b>	<b>\$417,715</b>	<b>\$14,414</b>	<b>\$57,327</b>	<b>\$2,272,364</b>	
<b>Net System Cost</b>	<b>\$4,404,934</b>	<b>\$2,164,558</b>	<b>\$2,525,955</b>	<b>\$2,683,175</b>	<b>\$2,023,483</b>	<b>\$4,310,801</b>	<b>\$3,290,194</b>	<b>\$2,143,489</b>	<b>\$2,419,625</b>	<b>\$2,443,582</b>	<b>\$5,722,433</b>	<b>\$3,895,780</b>	<b>\$38,028,009</b>	
<b>kWh Retail Sales</b>	<b>154,088,283</b>	<b>175,962,555</b>	<b>129,971,260</b>	<b>119,075,103</b>	<b>118,115,171</b>	<b>129,644,903</b>	<b>158,553,566</b>	<b>139,280,565</b>	<b>110,996,527</b>	<b>115,976,767</b>	<b>168,515,123</b>	<b>185,052,412</b>	<b>1,705,232,235</b>	
<b>Cost per kWh</b>	<b>\$0.02859</b>	<b>\$0.01230</b>	<b>\$0.01943</b>	<b>\$0.02253</b>	<b>\$0.01713</b>	<b>\$0.03325</b>	<b>\$0.02075</b>	<b>\$0.01539</b>	<b>\$0.02180</b>	<b>\$0.02107</b>	<b>\$0.03396</b>	<b>\$0.02105</b>	<b>\$0.02230</b>	
<b>Recovered through Rates</b>	<b>\$3,906,502</b>	<b>\$5,506,730</b>	<b>\$4,193,192</b>	<b>\$3,638,676</b>	<b>\$3,102,338</b>	<b>\$2,839,025</b>	<b>\$3,053,634</b>	<b>\$2,726,551</b>	<b>\$2,572,700</b>	<b>\$2,632,458</b>	<b>\$3,681,196</b>	<b>\$3,962,151</b>	<b>\$41,815,153</b>	
<b>Total (Over)/Under Recovered</b>	<b>\$498,432</b>	<b>(\$3,342,172)</b>	<b>(\$1,667,237)</b>	<b>(\$955,501)</b>	<b>(\$1,078,855)</b>	<b>\$1,471,776</b>	<b>\$236,560</b>	<b>(\$583,062)</b>	<b>(\$153,075)</b>	<b>(\$188,876)</b>	<b>\$2,041,237</b>	<b>(\$66,371)</b>	<b>(\$3,787,144)</b>	

1/ Energy is allocated on kWh sales at generation and demand and pipeline are allocated on Class Allocation Factor No. 2, Coincident Peak Demand from PU-16-666.

2/ North Dakota's portion is allocated between primary and secondary based on kWh sales at generation.

**MONTANA-DAKOTA UTILITIES CO.  
ELECTRIC INTEGRATED SYSTEM  
FUEL AND PURCHASED POWER COST SURCHARGE ADJUSTMENT  
FUEL AND PURCHASED POWER COST**

	2022											2023	Total
	February	March	April	May	June	July	August	September	October	November	December	January	
Fuel & Purchased Power Cost													
Accounts 501 Coal and 547 Gas	\$2,385,400	\$2,397,344	\$657,911	\$1,216,685	\$3,364,913	\$3,757,525	\$2,926,303	\$2,656,755	\$1,756,792	\$1,410,218	\$1,944,443	\$1,520,683	\$25,994,972
Account 502 Reagent	134,522	123,749	43,798	64,383	142,447	164,525	191,622	159,652	84,941	61,422	66,014	69,075	1,306,150
Account 502 Sand	(186)	0	0	0	0	0	0	0	0	0	0	0	(186)
Account 555 Energy	5,023,371	1,771,719	3,514,142	3,079,606	83,993	3,367,859	2,510,123	1,132,654	2,610,961	3,419,648	7,605,349	4,725,776	38,845,201
Accounts 555 Demand and 547 Pipeline Charges	354,460	357,070	349,335	349,919	275,453	405,599	375,788	372,347	276,072	271,744	268,517	277,897	3,934,201
Account 575 Market Admin.	27,607	46,873	34,948	29,307	29,475	40,411	38,621	37,956	30,675	41,364	35,873	33,587	426,697
<b>Total F&amp;PP Cost</b>	<b>\$7,925,174</b>	<b>\$4,696,755</b>	<b>\$4,600,134</b>	<b>\$4,739,900</b>	<b>\$3,896,281</b>	<b>\$7,735,919</b>	<b>\$6,042,457</b>	<b>\$4,359,364</b>	<b>\$4,759,441</b>	<b>\$5,204,396</b>	<b>\$9,920,196</b>	<b>\$6,627,018</b>	<b>\$70,507,035</b>
Less:													
Wholesale Sales Revenue	\$77,476	\$183,817	\$1,933	\$17,211	\$219,465	\$202,130	\$273,966	\$497,423	\$124,540	\$73,662	\$25,000	\$29,112	\$1,725,735
Sale of RECs Revenue	410,068	914,026	114,506	0	0	0	0	0	112,838	694,615	0	69,152	2,315,205
<b>Total Revenue</b>	<b>\$487,544</b>	<b>\$1,097,843</b>	<b>\$116,439</b>	<b>\$17,211</b>	<b>\$219,465</b>	<b>\$202,130</b>	<b>\$273,966</b>	<b>\$497,423</b>	<b>\$237,378</b>	<b>\$788,277</b>	<b>\$25,000</b>	<b>\$98,264</b>	<b>\$4,040,940</b>
<b>Net System Cost</b>	<b>\$7,437,630</b>	<b>\$3,598,912</b>	<b>\$4,483,695</b>	<b>\$4,722,689</b>	<b>\$3,676,816</b>	<b>\$7,533,789</b>	<b>\$5,768,491</b>	<b>\$3,861,941</b>	<b>\$4,522,063</b>	<b>\$4,436,119</b>	<b>\$9,895,196</b>	<b>\$6,528,754</b>	<b>\$66,466,095</b>
kWh Retail Sales	263,197,611	298,416,324	235,077,789	213,275,736	219,208,657	229,854,711	282,254,179	256,873,753	211,802,370	214,549,291	294,169,127	313,004,099	3,031,683,647
Cost Per kWh	\$0.02826	\$0.01206	\$0.01907	\$0.02214	\$0.01677	\$0.03278	\$0.02044	\$0.01503	\$0.02135	\$0.02068	\$0.03364	\$0.02086	\$0.02192

**ELECTRIC UTILITY - NORTH DAKOTA**

	2022 1/											2023 1/	Total
	February	March	April	May	June	July	August	September	October	November	December	January	
Fuel & Purchased Power Cost													
Accounts 501 Coal and 547 Gas	\$1,697,019	\$1,726,328	\$462,975	\$855,090	\$2,368,167	\$2,655,557	\$2,057,622	\$1,846,705	\$1,234,345	\$993,217	\$1,381,967	\$1,099,087	\$18,378,079
Account 502 Reagent	95,702	89,112	30,821	45,249	100,252	116,275	134,738	110,974	59,681	43,260	46,918	49,925	922,907
Account 502 Sand	(132)	0	0	0	0	0	0	0	0	0	0	0	(132)
Account 555 Energy	3,573,722	1,275,815	2,472,920	2,164,357	59,113	2,380,168	1,764,986	787,305	1,834,495	2,408,458	5,405,321	3,415,597	27,542,257
Accounts 555 Demand and 547 Pipeline Charges	251,699	253,552	248,059	248,474	195,596	288,012	266,843	264,400	196,036	192,963	190,671	195,341	2,791,646
Account 575 Market Admin.	19,640	33,753	24,593	20,597	20,744	28,560	27,156	26,383	21,553	29,133	25,496	24,275	301,883
<b>Total F&amp;PP Cost</b>	<b>\$5,637,650</b>	<b>\$3,378,560</b>	<b>\$3,239,368</b>	<b>\$3,333,767</b>	<b>\$2,743,872</b>	<b>\$5,468,572</b>	<b>\$4,251,345</b>	<b>\$3,035,767</b>	<b>\$3,346,110</b>	<b>\$3,667,031</b>	<b>\$7,050,373</b>	<b>\$4,784,225</b>	<b>\$49,936,640</b>
Less:													
Wholesale Sales Revenue	\$55,118	\$132,367	\$1,360	\$12,096	\$154,456	\$142,851	\$192,638	\$345,758	\$87,503	\$51,880	\$17,768	\$21,041	\$1,214,836
Sale of RECs Revenue	288,174	642,361	80,469	0	0	0	0	0	79,297	488,138	0	48,610	1,627,049
<b>Total Revenue</b>	<b>\$343,292</b>	<b>\$774,728</b>	<b>\$81,829</b>	<b>\$12,096</b>	<b>\$154,456</b>	<b>\$142,851</b>	<b>\$192,638</b>	<b>\$345,758</b>	<b>\$166,800</b>	<b>\$540,018</b>	<b>\$17,768</b>	<b>\$69,651</b>	<b>\$2,841,885</b>
<b>Net System Cost</b>	<b>\$5,294,358</b>	<b>\$2,603,832</b>	<b>\$3,157,539</b>	<b>\$3,321,671</b>	<b>\$2,589,416</b>	<b>\$5,325,721</b>	<b>\$4,058,707</b>	<b>\$2,690,009</b>	<b>\$3,179,310</b>	<b>\$3,127,013</b>	<b>\$7,032,605</b>	<b>\$4,714,574</b>	<b>\$47,094,755</b>
kWh Retail Sales	186,331,852	214,044,249	164,630,454	149,139,680	153,462,767	161,568,456	197,574,411	177,760,205	148,044,642	150,307,286	208,156,140	225,272,212	2,136,292,354
Cost Per kWh	\$0.02841	\$0.01216	\$0.01918	\$0.02227	\$0.01687	\$0.03296	\$0.02054	\$0.01513	\$0.02148	\$0.02080	\$0.03379	\$0.02093	\$0.02205

1/ Energy is allocated on kWh sales and demand and pipeline are allocated on Allocation Factor No. 15, Integrated System 12 Month Peak Demand.