

MIDAMERICAN ENERGY COMPANY

Forecasted MISO Costs

Total Company Electric Operations
Year Ending December 31, 2023

Line No.	Billing Determinant	Forecast Jan-23	Forecast Feb-23	Forecast Mar-23	Forecast Apr-23	Forecast May-23	Forecast Jun-23	Forecast Jul-23	Forecast Aug-23	Forecast Sep-23	Forecast Oct-23	Forecast Nov-23	Forecast Dec-23	Total
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)
1	Days in Month	31	28	31	30	31	30	31	31	30	31	30	31	
2	Monthly Peak Demand (MW)	4,382	4,253	3,960	3,716	4,355	5,064	5,462	5,289	4,930	3,972	4,045	4,261	
3	Schedule 10 Demand Charge Rate (\$/MW-Hr)	\$0.05410	\$0.07210	\$0.07490	\$0.08920	\$0.06320	\$0.05950	\$0.05880	\$0.05900	\$0.05780	\$0.07970	\$0.08200	\$0.09420	
4	Schedule 10 - Demand Charge Component	<u>\$176,379</u>	<u>\$206,066</u>	<u>\$220,663</u>	<u>\$238,669</u>	<u>\$204,780</u>	<u>\$216,943</u>	<u>\$238,934</u>	<u>\$232,171</u>	<u>\$205,160</u>	<u>\$235,548</u>	<u>\$238,840</u>	<u>\$298,630</u>	
5	Monthly Energy (MWHr)	2,503,317	2,383,128	2,566,186	2,230,827	2,246,155	2,520,051	2,679,639	2,935,816	2,623,246	2,381,163	2,309,906	2,591,816	
6	Schedule 10 Energy Charge Rate (\$/MW-Hr)	\$0.07060	\$0.09530	\$0.09850	\$0.11650	\$0.09680	\$0.08880	\$0.08570	\$0.08610	\$0.08620	\$0.11130	\$0.10370	\$0.13130	
7	Schedule 10 - Energy Charge Component	<u>\$176,734</u>	<u>\$227,112</u>	<u>\$252,769</u>	<u>\$259,891</u>	<u>\$217,428</u>	<u>\$223,781</u>	<u>\$229,645</u>	<u>\$252,774</u>	<u>\$226,124</u>	<u>\$265,023</u>	<u>\$239,537</u>	<u>\$340,306</u>	
8	Total Schedule 10 Charge	<u>\$353,113</u>	<u>\$433,178</u>	<u>\$473,432</u>	<u>\$498,560</u>	<u>\$422,208</u>	<u>\$440,724</u>	<u>\$468,579</u>	<u>\$484,945</u>	<u>\$431,283</u>	<u>\$500,572</u>	<u>\$478,377</u>	<u>\$638,936</u>	<u>\$5,623,906</u>

Sources

- Line 2 MidAmerican Demand Forecast
- Line 3 Projected MISO 2023 Schedule 10 Demand rate
- Line 4 = Line 1 x 24 hrs/day x Line 2 x Line 3
- Line 5 MidAmerican Energy Forecast
- Line 6 Projected MISO 2023 Schedule 10 Energy rate
- Line 7 = Line 5 x Line 6
- Line 8 = Line 4 + Line 7

MIDAMERICAN ENERGY COMPANY

Forecasted MISO Costs
 Total Company Electric Operations
 Year Ending December 31, 2023

Line No.	Billing Determinant (a)	Forecast Jan-23 (b)	Forecast Feb-23 (c)	Forecast Mar-23 (d)	Forecast Apr-23 (e)	Forecast May-23 (f)	Forecast Jun-23 (g)	Forecast Jul-23 (h)	Forecast Aug-23 (i)	Forecast Sep-23 (j)	Forecast Oct-23 (k)	Forecast Nov-23 (l)	Forecast Dec-23 (m)	Total (n)
1	Days in Month	31	28	31	30	31	30	31	31	30	31	30	31	
2	Monthly Peak Demand (MW)	4,382	4,253	3,960	3,716	4,355	5,064	5,462	5,289	4,930	3,972	4,045	4,261	
3	Schedule 10 FERC Rate (\$/MW-Hr)	\$0.0640	\$0.0640	\$0.0640	\$0.0640	\$0.0640	\$0.0640	\$0.0640	\$0.0640	\$0.0640	\$0.0640	\$0.0640	\$0.0640	
4	Schedule 10 - FERC Charge	<u>\$208,656</u>	<u>\$182,915</u>	<u>\$188,550</u>	<u>\$171,242</u>	<u>\$207,372</u>	<u>\$233,351</u>	<u>\$260,064</u>	<u>\$251,847</u>	<u>\$227,166</u>	<u>\$189,148</u>	<u>\$186,412</u>	<u>\$202,891</u>	<u>\$2,509,614</u>

Sources

- Line 2 MidAmerican Demand Forecast
- Line 3 MISO Posted Schedule 10-FERC Rate for 2023
- Line 4 = Line 1 x 24 hrs/day x Line 2 x Line 3

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Line No.	Billing Determinant (a)	Forecast Jan-23 (b)	Forecast Feb-23 (c)	Forecast Mar-23 (d)	Forecast Apr-23 (e)	Forecast May-23 (f)	Forecast Jun-23 (g)	Forecast Jul-23 (h)	Forecast Aug-23 (i)	Forecast Sep-23 (j)	Forecast Oct-23 (k)	Forecast Nov-23 (l)	Forecast Dec-23 (m)	Total (n)
1	Days in Month	31	28	31	30	31	30	31	31	30	31	30	31	
2	Monthly Peak Demand (MW)	4,382	4,253	3,960	3,716	4,355	5,064	5,462	5,289	4,930	3,972	4,045	4,261	
3	Schedule 26 FERC Rate (\$/MW-Month)	\$84.1442	\$84.1442	\$84.1442	\$84.1442	\$84.1442	\$84.1442	\$84.1442	\$84.1442	\$84.1442	\$84.1442	\$84.1442	\$84.1442	
4	Schedule 26 - Charge	<u>\$368,724</u>	<u>\$357,870</u>	<u>\$333,195</u>	<u>\$312,696</u>	<u>\$366,456</u>	<u>\$426,109</u>	<u>\$459,570</u>	<u>\$445,048</u>	<u>\$414,816</u>	<u>\$334,251</u>	<u>\$340,396</u>	<u>\$358,537</u>	<u>\$4,517,668</u>

Sources
Line 2 MidAmerican Demand Forecast
Line 3 MISO Posted Sch. 26 Transmission Rate for January 2023
Line 4 = Line 2 x Line 3

MIDAMERICAN ENERGY COMPANY

Forecasted MISO Costs
Total Company Electric Operations
Year Ending December 31, 2023

Line No.	Billing Determinant (a)	Forecast Jan-23 (b)	Forecast Feb-23 (c)	Forecast Mar-23 (d)	Forecast Apr-23 (e)	Forecast May-23 (f)	Forecast Jun-23 (g)	Forecast Jul-23 (h)	Forecast Aug-23 (i)	Forecast Sep-23 (j)	Forecast Oct-23 (k)	Forecast Nov-23 (l)	Forecast Dec-23 (m)	Total (n)
1	Monthly Energy (MWhr)	2,503,317	2,383,128	2,566,186	2,230,827	2,246,155	2,520,051	2,679,639	2,935,816	2,623,246	2,381,163	2,309,906	2,591,816	29,971,251
2	Schedule 26-A MVP Usage Rate (\$/MW-Hr)	1.42	1.63	1.66	1.79	1.69	1.52	1.39	1.43	1.67	1.73	1.71	1.60	1.59
3	Schedule 26-A Charge	<u>\$3,557,058</u>	<u>\$3,889,701</u>	<u>\$4,250,150</u>	<u>\$4,002,432</u>	<u>\$3,790,063</u>	<u>\$3,831,509</u>	<u>\$3,717,119</u>	<u>\$4,195,629</u>	<u>\$4,373,253</u>	<u>\$4,112,764</u>	<u>\$3,954,982</u>	<u>\$4,152,606</u>	<u>\$47,827,266</u>

Sources
 Line 1 MidAmerican Energy Forecast
 Line 2 MEC Estimated MISO 2023 Schedule 26-A MUR rate
 Line 3 = Line 1 x Line 2

MIDAMERICAN ENERGY COMPANY

Multi-Value Project A&G Credit
Total Company Electric Operations
Year Ending December 31, 2023

<u>Line No.</u>	<u>Description</u> (a)	<u>Value</u> (b)
1	Rate Template Attachment MM Annual Allocation Factor for Other Expense	\$ 4,437,048
2	MidAmerican Energy Ratio as a Percentage of Total MISO Energy	0.061590
3	Allocation of Other Expenses to MidAmerican	<u>\$ 273,276</u>

Sources

- Line 1: MidAmerican's 2023 Attachment MM Rate Template
- Line 2: Calculation of MidAmerican's 2023 energy forecast divided by total MISO energy
- Line 3: Line 1 x Line 2

Month	2023				
January	2,503,317	31	2,579,832	76,515	2,503,317
February	2,383,128	28	2,315,880	(67,249)	2,383,128
March	2,566,186	31	2,373,375	(192,810)	2,566,186
April	2,230,827	30	2,145,609	(85,218)	2,230,827
May	2,246,155	31	2,012,480	(233,675)	2,246,155
June	2,520,051	30	2,434,867	(85,184)	2,520,051
July	2,679,639	31	3,002,524	322,884	2,679,639
August	2,935,816	31	2,708,137	(227,680)	2,935,816
September	2,623,246	30	2,351,881	(271,364)	2,623,246
October	2,381,163	31	2,342,181	(38,982)	2,381,163
November	2,309,906	30	2,266,939	(42,967)	2,309,906
December	2,591,816	31	2,520,602	(71,214)	2,591,816
Total	29,971,251		29,054,307	(916,944)	29,971,251
Average	2,497,604		2,421,192		

Source: MidAmerican 2023 Net Energy for Load Forecast

Month	2023
January	4,382
February	4,253
March	3,960
April	3,716
May	4,355
June	5,064
July	5,462
August	5,289
September	4,930
October	3,972
November	4,045
December	4,261
Annual Peak	5,462
Average	4,474

Source: MidAmerican 2023 Monthly Peak Demand Forecast

Month	MNAEW 2013 (MWh)	MNAEW 2014 (MWh)	MNAEW 2015 (MWh)	MNAEW 2016 (MWh)	MNAEW 2017 (MWh)	MNAEW 2018 (MWh)	MNAEW 2019 (MWh)	MNAEW 2020 (MWh)	MNAEW 2021 (MWh)	MNAEW 2022 (MWh)	MNAEW 2023 (MWh)	Monthly Load	Monthly Revenue Requirement	MUR	
Jan	43,602,595	46,323,357	44,129,493	42,692,158	42,769,239	45,629,759	44,131,669	41,384,804	41,376,827	45,056,823	45,447,015	9.3%	\$64,577,397	1.420938	1.420938
Feb	38,954,242	41,228,964	41,237,990	38,464,462	35,876,755	38,697,633	39,184,779	38,301,294	39,671,249	39,225,362	39,565,054	8.1%	\$64,577,397	1.632183	1.632183
Mar	41,024,875	41,736,099	39,735,293	36,765,373	39,161,023	40,199,609	40,148,388	36,726,915	36,647,072	38,656,234	38,990,997	8.0%	\$64,577,397	1.656213	1.656213
Apr	36,898,326	35,919,469	35,144,595	34,585,069	34,664,351	37,261,301	35,082,351	31,463,610	33,871,343	35,684,343	35,993,369	7.4%	\$64,577,397	1.794147	1.794147
May	38,497,650	38,125,731	37,266,277	36,503,871	36,971,953	40,593,142	36,429,894	32,866,391	35,941,953	37,942,765	38,271,349	7.9%	\$64,577,397	1.687356	1.687356
Jun	40,531,882	41,774,134	40,481,714	42,436,406	41,375,261	42,876,556	38,780,936	40,159,647	42,846,323	42,109,028	42,473,692	8.7%	\$64,577,397	1.520409	1.520409
Jul	45,735,613	42,894,585	45,263,223	46,616,864	46,115,979	46,357,692	47,139,103	47,197,043	45,291,985	46,153,612	46,553,302	9.6%	\$64,577,397	1.387171	1.387171
Aug	45,437,483	45,472,253	43,642,164	47,604,083	42,433,075	46,315,496	43,564,511	43,735,261	46,611,559	44,798,926	45,186,885	9.3%	\$64,577,397	1.429118	1.429118
Sep	39,923,426	39,963,374	38,390,975	40,544,359	40,104,812	39,212,697	40,371,346	39,537,771	35,962,238	38,403,439	38,736,013	8.0%	\$64,577,397	1.667115	1.667115
Oct	38,918,059	38,926,517	37,722,199	36,675,815	37,191,524	37,495,547	38,189,443	36,875,574	36,078,556	37,067,318	37,388,321	7.7%	\$64,577,397	1.727208	1.727208
Nov	39,271,395	39,262,750	40,118,268	36,192,214	36,294,359	37,705,586	39,122,836	38,564,159	35,486,299	37,392,595	37,716,415	7.8%	\$64,577,397	1.712183	1.712183
Dec	44,250,348	44,226,568	42,111,459	39,521,093	42,899,177	42,324,817	40,899,704	40,392,233	40,314,450	39,959,425	40,305,474	8.3%	\$64,577,397	1.602199	1.602199
Total	493,045,894	495,853,801	485,243,650	478,601,767	475,857,508	494,669,834	483,044,960	467,186,700	470,099,854	482,449,870	486,627,886		\$774,928,767	1.592446	1.592446

2023 Growth is 0.866% based on 2022 actual and average of LRZ 1 -7 Energy Growth Rates with Energy Efficiency Adjustment
From MISO Independent Load Forecast Study - Table ES2, LRZ Metered Load Growth Rates (2023-2042)

Transmission Owner	NERC ID	Schedule 26-A Annual Rev. Req.	Schedule 26-A True-Up Adjustment	Schedule 26-A Net Annual Rev. Req. ¹
Ameren Illinois Company	AMIL	\$ 11,152,460	\$ 632,365	\$ 11,784,825
Ameren Transmission Company of Illinois	ATXI	\$ 177,905,919	\$ 12,536,036	\$ 190,441,955
American Transmission Company	ATC	\$ 56,003,828	\$ 2,730,031	\$ 58,733,859
Cedar Falls Utilities	CFU	\$ 499,956	\$ 144,299	\$ 644,255
Central Minnesota Municipal Power Agency	UPLS	\$ 7,780,228	\$ 425,493	\$ 8,205,721
Dairyland Power Cooperative	DPC	\$ 2,768,318	\$ 51,086	\$ 2,819,404
Duke Energy Indiana	CIN	\$ 1,613,243	\$ -	\$ 1,613,243
Great River Energy	GRE	\$ 17,139,064	\$ 1,034,670	\$ 18,173,734
International Transmission Company	DECO	\$ 119,626,692	\$ 4,780,874	\$ 124,407,566
ITC Midwest	ITCM	\$ 74,844,589	\$ 2,825,516	\$ 77,670,105
Michigan Electric Transmission Company	CONS	\$ 53,349	\$ 2,253	\$ 55,602
MidAmerican Energy Company	MEC	\$ 53,882,336	\$ 2,347,154	\$ 56,229,490
Missouri Rivers Energy Services	MRET	\$ 4,543,739	\$ 757,832	\$ 5,301,571
Montana-Dakota Utilities	MDU	\$ 13,392,280	\$ 1,095,177	\$ 14,487,457
Northern Indiana Public Service Company	NIPS	\$ 75,640,844	\$ 6,071,826	\$ 81,712,670
NSP Companies	NSP	\$ 64,467,396	\$ 5,427,597	\$ 69,894,993
Otter Tail Power Company	OTP	\$ 23,835,931	\$ 1,865,885	\$ 25,701,816
Pioneer Transmission, LLC	PION	\$ 21,802,238	\$ (1,177,013)	\$ 20,625,225
Southern Minnesota Municipal Power Agency	SMP	\$ 5,601,054	\$ (82,217)	\$ 5,518,837
WPPI Energy	WPPT	\$ 906,439	\$ -	\$ 906,439
TOTALS		\$ 733,459,903	\$ 41,468,864	\$ 774,928,767