

MIDAMERICAN ENERGY COMPANY

Forecasted MISO Costs

Total Company Electric Operations
Year Ending December 31, 2019

Line No.	Billing Determinant	Forecast Jan-19	Forecast Feb-19	Forecast Mar-19	Forecast Apr-19	Forecast May-19	Forecast Jun-19	Forecast Jul-19	Forecast Aug-19	Forecast Sep-19	Forecast Oct-19	Forecast Nov-19	Forecast Dec-19	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)	3,937	3,795	3,481	3,244	3,896	4,666	4,967	4,802	4,427	3,439	3,579	3,812	
3	Schedule 10 Demand Charge Rate (\$/MW-Hr)	\$0.07670	\$0.07640	\$0.07900	\$0.09190	\$0.07530	\$0.07300	\$0.06500	\$0.06550	\$0.07610	\$0.07310	\$0.08150	\$0.06710	
4	Schedule 10 - Demand Charge Component	\$224,675	\$194,827	\$204,605	\$214,653	\$218,277	\$245,219	\$240,199	\$233,988	\$242,570	\$187,018	\$210,040	\$190,292	
5	Monthly Energy (MWHr)	2,480,498	2,261,137	2,239,111	2,064,725	2,108,879	2,209,983	2,478,389	2,694,827	2,237,304	2,228,627	2,130,217	2,200,342	
6	Schedule 10 Energy Charge Rate (\$/MW-Hr)	\$0.10750	\$0.10710	\$0.11080	\$0.12870	\$0.10550	\$0.10230	\$0.09100	\$0.09180	\$0.10660	\$0.10240	\$0.11420	\$0.09400	
7	Schedule 10 - Energy Charge Component	\$266,653	\$242,168	\$248,093	\$265,730	\$222,487	\$226,081	\$225,533	\$247,385	\$238,497	\$228,211	\$243,271	\$206,832	
8	Total Schedule 10 Charge	\$491,328	\$436,994	\$452,698	\$480,383	\$440,763	\$471,300	\$465,733	\$481,373	\$481,067	\$415,229	\$453,310	\$397,124	\$5,467,304

Sources

- Line 2 MidAmerican Demand Forecast
- Line 3 Projected MISO 2019 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 2019 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, 2019

Line No.	Billing Determinant	Forecast Jan-19 (b)	Forecast Feb-19 (c)	Forecast Mar-19 (d)	Forecast Apr-19 (e)	Forecast May-19 (f)	Forecast Jun-19 (g)	Forecast Jul-19 (h)	Forecast Aug-19 (i)	Forecast Sep-19 (j)	Forecast Oct-19 (k)	Forecast Nov-19 (l)	Forecast Dec-19 (m)	Total (n)
1	Days in Month	31	28	31	30	31	30	31	31	30	31	30	31	
2	Monthly Peak Demand (MW)	3,937	3,795	3,481	3,244	3,896	4,666	4,967	4,802	4,427	3,439	3,579	3,812	
3	Schedule 10 FERC Rate (\$/MW-Hr)	\$0.0560	\$0.0560	\$0.0560	\$0.0560	\$0.0560	\$0.0560	\$0.0560	\$0.0560	\$0.0560	\$0.0560	\$0.0560	\$0.0560	
4	Schedule 10 - FERC Charge	<u>\$164,039</u>	<u>\$142,805</u>	<u>\$145,036</u>	<u>\$130,801</u>	<u>\$162,331</u>	<u>\$188,113</u>	<u>\$206,941</u>	<u>\$200,051</u>	<u>\$178,501</u>	<u>\$143,269</u>	<u>\$144,322</u>	<u>\$158,813</u>	<u>\$1,965,021</u>

Sources

Line 2 MidAmerican Demand Forecast

Line 3 MISO Posted Schedule 10-FERC Rate for 2019

Line 4 = Line 1 x 24 hrs/day x Line 2 x Line 3

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Line No.	Billing Determinant	Forecast Jan-19 (b)	Forecast Feb-19 (c)	Forecast Mar-19 (d)	Forecast Apr-19 (e)	Forecast May-19 (f)	Forecast Jun-19 (g)	Forecast Jul-19 (h)	Forecast Aug-19 (i)	Forecast Sep-19 (j)	Forecast Oct-19 (k)	Forecast Nov-19 (l)	Forecast Dec-19 (m)	Total (n)
1	Days in Month	31	28	31	30	31	30	31	31	30	31	30	31	
2	Monthly Peak Demand (MW)	3,937	3,795	3,481	3,244	3,896	4,666	4,967	4,802	4,427	3,439	3,579	3,812	
3	Schedule 26 FERC Rate (\$/MW-Month)	\$7.5313	\$7.5313	\$7.5313	\$7.5313	\$7.5313	\$7.5313	\$7.5313	\$7.5313	\$7.5313	\$7.5313	\$7.5313	\$7.5313	
4	Schedule 26 - Charge	<u>\$29,652</u>	<u>\$28,580</u>	<u>\$26,217</u>	<u>\$24,432</u>	<u>\$29,343</u>	<u>\$35,137</u>	<u>\$37,407</u>	<u>\$36,162</u>	<u>\$33,342</u>	<u>\$25,898</u>	<u>\$26,958</u>	<u>\$28,707</u>	<u>\$361,835</u>

Sources

Line 2 MidAmerican Demand Forecast

Line 3 MISO Posted Sch. 26 Transmission Rate for January 2019

Line 4 = Line 2 x Line 3

MIDAMERICAN ENERGY COMPANY

Forecasted MISO Costs
Total Company Electric Operations
Year Ending December 31, 2019

Line No.	Billing Determinant (a)	Forecast Jan-19 (b)	Forecast Feb-19 (c)	Forecast Mar-19 (d)	Forecast Apr-19 (e)	Forecast May-19 (f)	Forecast Jun-19 (g)	Forecast Jul-19 (h)	Forecast Aug-19 (i)	Forecast Sep-19 (j)	Forecast Oct-19 (k)	Forecast Nov-19 (l)	Forecast Dec-19 (m)	Total (n)
1	Monthly Energy (MWHr)	2,480,498	2,261,137	2,239,111	2,064,725	2,108,879	2,209,983	2,478,389	2,694,827	2,237,304	2,228,627	2,130,217	2,200,342	27,334,038
2	Schedule 26-A MVP Usage Rate (\$/MW-Hr)	1.29	1.52	1.47	1.58	1.45	1.38	1.27	1.27	1.50	1.57	1.57	1.39	1.43
3	Schedule 26-A Charge	<u>\$3,207,868</u>	<u>\$3,448,010</u>	<u>\$3,286,848</u>	<u>\$3,269,867</u>	<u>\$3,065,666</u>	<u>\$3,041,550</u>	<u>\$3,154,813</u>	<u>\$3,433,447</u>	<u>\$3,366,853</u>	<u>\$3,507,386</u>	<u>\$3,333,835</u>	<u>\$3,067,758</u>	<u>\$39,183,901</u>

Sources

Line 1 MidAmerican Energy Forecast
Line 2 MEC Estimated MISO 2019 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, 2019

<u>Line No.</u>	<u>Description</u>	<u>Value</u>
	(a)	(b)
1	Rate Template Attachment MM Annual Allocation Factor for Other Expense	\$ 4,688,036
2	MidAmerican Energy Ratio as a Percentage of Total MISO Energy	0.054925
3	Allocation of Other Expenses to MidAmerican	<u>\$ 257,492</u>

Sources

Line 1: MidAmerican's 2019 Attachment MM Rate Template

Line 2: Calculation of MidAmerican's 2019 energy forecast divided by total MISO energy

Line 3: Line 1 x Line 2

Month	2019				
January	2,480,498	31	2,200,174	(280,324)	2480498
February	2,261,137	28	2,005,899	(255,239)	2261137
March	2,239,111	31	2,034,652	(204,459)	2239111
April	2,064,725	30	1,895,440	(169,284)	2064725
May	2,108,879	31	1,919,849	(189,030)	2108879
June	2,209,983	30	2,268,780	58,797	2209983
July	2,478,389	31	2,519,875	41,486	2478389
August	2,694,827	31	2,495,274	(199,553)	2694827
September	2,237,304	30	1,963,512	(273,791)	2237304
October	2,228,627	31	2,058,729	(169,898)	2228627
November	2,130,217	30	2,025,142	(105,076)	2130217
December	2,200,342	31	2,205,231	4,888	2200342
Total	27,334,038		25,592,555	(1,741,483)	27334038
Average	2,277,837		2,132,713		

Source: MidAmerican 2018 Net Energy for Load Forecast

Month	2019
January	3,937
February	3,795
March	3,481
April	3,244
May	3,896
June	4,666
July	4,967
August	4,802
September	4,427
October	3,439
November	3,579
December	3,812
Annual Peak	4,967
Average	4,004

Source: MidAmerican 2019 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)	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	45,905,363	9.2%	\$59,366,461	1.293236	1.293236
Feb	38,954,242	41,228,964	41,237,990	38,464,462	35,876,755	38,697,633	38,931,366	7.8%	\$59,366,461	1.524901	1.524901
Mar	41,024,875	41,736,099	39,735,293	36,765,373	39,161,023	40,199,609	40,442,414	8.1%	\$59,366,461	1.467926	1.467926
Apr	36,898,326	35,919,469	35,144,595	34,585,069	34,664,351	37,261,301	37,486,359	7.5%	\$59,366,461	1.583682	1.583682
May	38,497,650	38,125,731	37,266,277	36,503,871	36,971,953	40,593,142	40,838,325	8.2%	\$59,366,461	1.453695	1.453695
Jun	40,531,882	41,774,134	40,481,714	42,436,406	41,375,261	42,876,556	43,135,530	8.7%	\$59,366,461	1.376278	1.376278
Jul	45,735,613	42,894,585	45,263,223	46,616,864	46,115,979	46,357,692	46,637,692	9.4%	\$59,366,461	1.272929	1.272929
Aug	45,437,483	45,472,253	43,642,164	47,604,083	42,433,075	46,315,496	46,595,242	9.4%	\$59,366,461	1.274088	1.274088
Sep	39,923,426	39,963,374	38,390,975	40,544,359	40,104,812	39,212,697	39,449,542	7.9%	\$59,366,461	1.504871	1.504871
Oct	38,918,059	38,926,517	37,722,199	36,675,815	37,191,524	37,495,547	37,722,020	7.6%	\$59,366,461	1.573788	1.573788
Nov	39,271,395	39,262,750	40,118,268	36,192,214	36,294,359	37,705,586	37,933,327	7.6%	\$59,366,461	1.565021	1.565021
Dec	44,250,348	44,226,568	42,111,459	39,521,093	42,899,177	42,324,817	42,580,459	8.6%	\$59,366,461	1.394218	1.394218
Total	493,045,894	495,853,801	485,243,650	478,601,767	475,857,508	494,669,834	497,657,639		\$712,397,526	1.431501	1.431501

2019 Growth is 0.604% based on 2018 actual and average of LRZ 1 -7 EnergyGrowth Rates with Energy Efficiency Adjustment
From MISO Independent Load Forecast Study - Table ES-2. LRZ Metered Load Growth Rates (2019-2038)

Trans. Owner	Schedule 26-A Annual Rev. Req.	Schedule 26-A True-Up Adjustment	Schedule 26-A Net Annual Rev. Req.	Annual Incentive Return Charge	Schedule 26-A Rev. Req. Adjustment for Attach O
AMIL	\$11,661,768.00	\$ 706,181.00	\$12,367,949.00		\$ 11,661,768.00
ATXI	\$170,052,845.00	\$10,252,356.00	\$180,305,201.00		\$ 170,052,845.00
ATC	\$ 37,435,634.00	\$ 2,564,511.00	\$ 40,000,145.00		\$ 37,435,634.00
CFU	\$ 626,522.00	\$ -	\$ 626,522.00		\$ 626,522.00
UPLS	\$4,608,434.00	\$1,412,415.00	\$6,020,849.00		\$ 4,608,434.00
DPC	\$2,991,325.00	\$ -	\$2,991,325.00		\$ 2,991,325.00
CIN	\$ -	\$ -	\$ -		\$ -
GRE	\$ 16,720,936.00	\$ 3,285,083.00	\$ 20,006,019.00		\$ 16,720,936.00
DECO	\$79,898,469.00	\$7,762,636.00	\$87,661,105.00		\$ 79,898,469.00
ITCM	\$92,775,302.00	(\$15,997,691.00)	\$76,777,611.00		\$ 92,775,302.00
CONS	\$57,431.00	\$5,274.00	\$62,705.00		\$ 57,431.00
MEC	\$59,343,025.00	\$6,539,474.00	\$65,882,499.00		\$ 59,343,025.00
MRET	\$4,820,793.00	\$ 651,889.00	\$5,472,682.00		\$ 4,820,793.00
MDU	\$14,498,244.00	(\$2,287,134.00)	\$12,211,110.00		\$ 14,498,244.00
NIPS	\$69,688,803.00	\$910,286.00	\$70,599,089.00		\$ 69,688,803.00
NSP	\$75,022,531.00	\$6,947,651.00	\$81,970,182.00		\$ 75,022,531.00
OTP	\$24,482,096.00	\$29,481.00	\$24,511,577.00		\$ 24,482,096.00
PION	\$24,930,956.00	\$0.00	\$24,930,956.00		\$ 24,930,956.00
SMP	\$ -	\$ -	\$ -		\$ -
WPPT	\$ -	\$ -	\$ -		\$ -
Total	\$689,615,114.00	\$22,782,412.00	\$712,397,526.00	\$ -	\$ 689,615,114.00