






MidAmerican Energy Company
Iowa AEP Annual Fuel Reporting Requirements - Per 199 IAC 15.17(5)
 For the year January 1 - December 31, 2016

Generation Mix				SO ₂	NO _x	CO ₂
Fuel Type	Energy (GWh)	Percent of Mix	lb/1000 kWh	lb/1000 kWh	lb/1000 kWh	lb/1000 kWh
Coal	11,749	42.5%	1.57	1.05	1,423	
Nuclear	3,362	12.2%	0.00	0.00	0	
Natural Gas	544	2.0%	0.00	0.19	660	
Oil	0.7	0%	0.22	13.53	1,955	
Energy Advantage Program ¹						
Wind	0.3	0%	0.00	0.00	0	
Solar	< 0.1	0%	0.00	0.00	0	
Hydropower	0	0%	0.00	0.00	0	
Biomass	0	0%	Unknown	Unknown	Unknown	
Other	0	0%	Unknown	Unknown	Unknown	
Alternative Energy						
Wind 	10,223	37.0%	0.00	0.00	0	
Solar 	0	0%	0.00	0.00	0	
Biomass 	62	0.2%	Unknown	Unknown	Unknown	
Hydropower	3	0%	0.00	0.00	0	
Other	0	0%	Unknown	Unknown	Unknown	
Null ²	1,674	6.1%	0.71	0.48	658	
Unknown Purchases		0%				
Total ³	27,618	100%				
Total Energy used by Iowa Customers		21,766				
Renewable Energy used by Iowa Customers 		10,285	47%			

- Notes: 1 - Includes state fair wind turbine and solar array.
 2 - Per the requirements for selling renewable energy certificates (RECs), the emission rates for "Null" energy types must be disclosed as equal to the system average emission rates.
 3 - At times, Iowa Generation may produce more energy than required by Iowa Customers and is sold in the wholesale electricity market. However, all renewable qualities of the energy (known as Renewable Energy Credits) are retained for Iowa customers, resulting in Iowa customers receiving a greater share of energy usage from renewable resources.
 Energy from Iowa Green Advantage Program

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Green Advantage Exhibit A

	January	February	March	April	May	June	July	August	September	October	November	December	Total	Fuel Report
Coal	1,141,333	779,808	614,614	262,761	522,388	1,305,494	1,572,825	1,500,768	1,099,062	1,090,448	773,309	1,086,371	11,749,181	42.5
Nuclear	293,300	260,664	215,400	222,216	295,899	284,723	297,259	296,838	290,537	302,822	295,930	306,173	3,361,762	12.2
Natural Gas	18,611	10,647	(3,395)	27,199	77,947	69,411	120,862	139,611	51,251	1,744	13,189	17,322	544,399	2.0
Oil	(0)	(0)	135	135	(0)	39	21	315	(0)	-	7	39	691	0.0
AEP Wind	23	44	38	39	16	13	10	7	7	18	27	42	285	0.0
AEP Solar	-	-	-	-	-	-	-	-	-	-	-	-	5	0.0
Wind	850,826	966,988	971,909	1,234,066	652,297	646,010	491,225	394,280	765,665	916,772	1,072,089	1,260,363	10,222,490	37.0
Solar														0.0
Hydropower	10	414	308	292	359	336	364	389	31	(4)	158	299	2,956	0.0
Biomass	4,968	5,084	5,482	5,277	5,491	5,153	5,280	5,186	4,634	5,292	5,339	5,236	62,422	0.2
Null (RECs)3	133,489	131,629	135,617	151,160	136,566	129,065	97,383	80,606	154,634	166,056	185,730	171,943	1,673,878	6.1
Total	2,442,560	2,155,278	1,940,109	1,903,146	1,690,962	2,440,245	2,585,230	2,417,999	2,365,820	2,483,149	2,345,777	2,847,788	27,618,064	100.00