

Obsessively, Relentlessly
**At Your
Service**

MidAmerican Energy is working toward a **100% Renewable Energy Vision** to provide renewable energy equal to 100% of our Iowa customers' annual retail energy use. We reached a significant milestone in 2017, delivering more than half – **50.8%*** – of our electricity from renewable sources.

Our **100% Renewable Energy Vision** and commitment to clean wind energy is good for our customers because it helps to keep rates low, is great for the environment and benefits Iowa communities. It's our GreenAdvantage™ and it's another way we are obsessively, relentlessly at your service.

*Verified by the Iowa Utilities Board




 **MIDAMERICAN**
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Iowa AEP Annual Fuel Reporting Requirements - Per 199 IAC 15.17(5)


For the year January 1 - December 31, 2017

Generation Mix Fuel Type	Energy (GWh)	Percent of Mix	SO ₂ lb/1000 kWh	NO _x lb/1000 kWh	CO ₂ lb/1000 kWh
Coal	12,290	42.1%	2.46	1.75	2,192
Nuclear	3,395	11.6%	0.00	0.00	0
Natural Gas	354	1.2%	0.01	0.34	1,005
Oil	0.3	0%	0.51	17.83	1,643
Energy Advantage Program ¹					
Wind	0.2	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 	11,305	38.7%	0.00	0.00	0
Solar	0	0%	0.00	0.00	0
Biomass 	62	0.2%	Unknown	Unknown	Unknown
Hydropower	8	0%	0.00	0.00	0
Other	0	0%	Unknown	Unknown	Unknown
Null ²	1,820	6.2%	1.10	0.79	996
Unknown Purchases	2,369	0%			
Total ³	31,603	100%			
Total Energy used by Iowa Customers	22,365				
Renewable Energy used by Iowa Customers 	11,367	50.8%			

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.

 MidAmerican Energy GreenAdvantage™ program.