

Obsessively, Relentlessly  
**At Your  
Service**

In 2019, we proudly  
delivered clean, renewable  
energy to supply

**61.3%\***

of Iowa customers' electric usage. It's all part of  
our renewable energy vision to serve 100% of your  
annual energy needs with renewable generation.




Delivering reliable, affordable and increasingly cleaner energy is another way we are obsessively, relentlessly  
at your service. Learn more about our 100% renewable energy vision at [MidAmericanEnergy.com](https://www.midamericanelectric.com).



\*Verified by the Iowa Utilities Board

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

For the year January 1 - December 31, 2019

Generation Mix Fuel Type	Energy (GWh)	Percent of Mix	SO <sub>2</sub> lb/1000 kWh	NO <sub>x</sub> lb/1000 kWh	CO <sub>2</sub> lb/1000 kWh
Coal	11,059	35.4%	2.43	1.54	2,227
Nuclear	3,396	10.8%	0.00	0.00	0
Natural Gas	436	1.4%	0.01	0.20	958
Oil	0.7	0%	0.50	17.46	1,608
Renewable Advantage Program <sup>1</sup>					
Wind	0.1	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 	14,703	47.1%	0.00	0.00	0
Solar	0	0%	0.00	0.00	0
Biomass 	53	0.2%	Unknown	Unknown	Unknown
Hydropower	7	0%	0.00	0.00	0
Other	0	0%	Unknown	Unknown	Unknown
Null <sup>2</sup>	1,580	5.1%	0.91	0.58	845
Unknown Purchases	2,957				
Total <sup>3</sup>	34,192	100%			
Total Energy used by Iowa customers	24,073				
Renewable Energy used by Iowa customers 	14,755	<b>61.3%</b>			

## Notes:

- Includes state fair wind turbine and solar array.
- Per the requirements for selling renewable energy credits (RECs), the emission rates for "Null" energy types must be disclosed as equal to the system average emission rates.
- 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