

# AEP Energy, Inc.'s Bi-Annual Environmental Disclosure Statement In Maryland's Service Territory



The disclosure of this information is required under the Maryland Public Service Commission Case No. 8738, Order No. 76241, 77412 and 77666.

When you choose a retail electric supplier, that supplier is responsible for purchasing power that is added to the power grid in an amount equivalent to your electricity use. Electricity customers served by AEP Energy that are located in Maryland's service territory are supplied by system power purchased from PJM, the local regional transmission organization. AEP Energy does not provide power from any particular generating facilities; rather, the PJM system power purchased by AEP Energy consists of electricity from a variety of power plants that PJM then transmits throughout the region as needed to meet the requirements of all customers in the PJM territory (including Pennsylvania, New Jersey, Maryland, Delaware, Washington, DC, and the Commonwealth Edison territory in Illinois).

AEP Energy reports fuel sources and emissions data from PJM to its customers bi-annually, allowing customers to compare data among the companies providing electricity service in Maryland. This product mix is subject to change and is updated on a bi-annual basis.

## Average Amount of Emissions and Amount of Nuclear Waste per 1 megawatt hour (MWh) Produced from Known Sources for the 12 months ending December 31, 2018

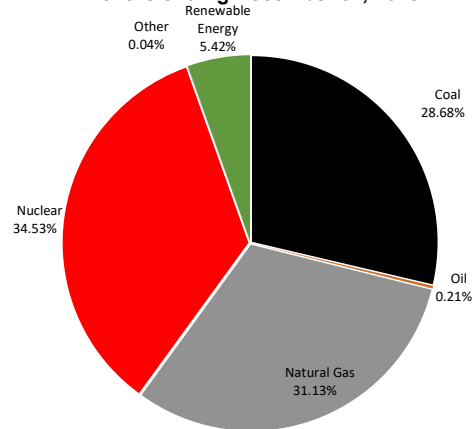
### Air Emissions

Average Nitrogen Oxides (NO<sub>x</sub>), Sulfur Dioxide (SO<sub>2</sub>), and Carbon Dioxide (CO<sub>2</sub>) emissions for the system mix used by AEP Energy in the PJM region as compared to the overall Supply Mix.

Emission Type	lbs./MWh
Carbon Dioxide	924.25 lbs
Nitrogen Oxides	0.53 lbs
Sulfur Dioxides	0.70 lbs

CO<sub>2</sub> is a "greenhouse gas" which may contribute to global climate change. SO<sub>2</sub> and NO<sub>x</sub> released into the atmosphere react to form acid rain. Nitrogen Oxides also react to form ground level ozone, an unhealthy component of "smog".

Sources of Electricity Supplied for the 12 months ending December 31, 2018



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### PJM System Mix

The following distribution of energy resources was used to produce electricity in the PJM Region from the System Mix.

Coal	28.68%
Oil	0.21%
Natural Gas	31.13%
Nuclear	34.53%
Other	0.04%
Renewable Energy	
Biomass	0.00%
Captured Methane Gas	0.30%
Solar Voltaic	0.26%
Solid Waste	0.51%
Water	1.50%
Wind	2.63%
Wood/Wood Waste	0.22%
Renewable Energy Subtotal	5.42%
Total	100%

The PJM System average emission levels are based on data from the system mix for 12 months ending December 31, 2018 from PJM Generation Attributes Tracking System (GATS).