MARYLAND ENVIRONMENTAL DISCLOSURE LABEL

Spark Energy, LLC ("Spark") reports to its customers, fuel sources and emissions data provided by PJM Interconnection (PJM), the local regional transmission organization, on a semi-annual basis. This allows our customers to see our sources of power and compare that against other retail electric suppliers servicing the region. Spark does not provide power from any particular generating facilities; rather, the PJM residual power purchased by Spark 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. Electricity generation is the process of generating electric energy from other forms of energy. Although electricity is a clean and relatively safe form of energy to use, there are environmental impacts associated with the production and transmission of electricity.

This product mix is subject to change and is updated on a quarterly basis.

***SOURCES OF ELECTRICITY SUPPLIED FOR THE 12 MONTHS ENDING OCTOBER 31, 2022**

	PJM SYSTEM MIX
Coal	19.78 %
Gas	40.24 %
Hydroelectric (large)	1.00 %
Nuclear	32.93 %
Oil	0.22 %

*RENEWABLE ENERGY	
Captured Methane Gas	0.23 %
Fuel Cells	0.03 %
Geothermal	0.00 %
Hydroelectric (small)	0.00 %
Solar	1.11 %
Solid Waste	0.53 %
Wind	3.76 %
Wood	0.19 %
TOTAL	**100 %**

*The data shown above are values from the PJM System Mix for the twelve months ending October 31, 2022 and do not necessarily reflect the energy that Spark Energy, LLC will supply.

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ABOUT POWER SOURCES

Power plants can generate electricity from a number of different fuel sources, resulting in different emissions. Spark Energy is required to report fuel sources and emissions data to customers to compare data among the companies providing electricity service in Maryland.

AIR EMISSIONS FROM POWER SOURCES

The air emissions listed below are produced when certain fuels are used to generate electricity.

AIR EMISSIONS	lbs/kWh
Carbon Dioxide	804.26
Nitrogen Oxides	0.33
Sulfur Dioxide	0.44