



June 2, 2021

Ms. Brinda Westbrook-Sedgwick  
Commission Secretary  
Public Service Commission of the District of Columbia  
1325 G Street N. W., Suite 800  
Washington, DC 20005

**RE: Fuel Mix and Emission Report of Verde Energy USA DC, LLC for the District of Columbia from January 2020 – December 2020**

Dear Ms. Westbrook-Sedgwick:

Please find enclosed, from Verde Energy USA DC, LLC ("Verde Energy"), the Annual Fuel Mix and Emissions Report for the time period from January 2020 through December 2020. In accordance with D.C. Code §§ 34-1504(c)(2)(A)(i) and 34-1517(b), and under Order 13589, issued May 19, 2005 Verde Energy hereby submits the Fuel Mix under 4201.6, relating to non-specific generation resources.

The enclosed **Exhibit A:** Verde Energy DC Annual Fuel Mix Report is based on PJM EIS Public Reports for the Calendar year 2020.

Respectfully submitted,

  
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**Martha Lopez**

Manager, Regulatory

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Attachment(s)

Fuel Mix and Emission Report  
January–December 2020

### Power Sources

Sources of Electricity for all Verde Energy USA DC, LLC customers in the reporting period 01/01/2020-12/31/2020 was met by generation from the following sources.

<https://gats.pjm-eis.com/GATS2/PublicReports/PJMSysMix/Filter>

Fuel	Percentage
Biomass - Other Biomass Gases	0.0002
Captured Methane - Coal Mine Gas	0.0568
Captured Methane - Landfill Gas	0.2442
Coal - Bituminous and Anthracite	17.7757
Coal - Sub-Bituminous	0.9540
Coal - Waste/Other	0.7102
Fuel Cell - Non-Renewable	0.0284
Gas - Natural Gas	39.7758
Gas - Other	0.0658
Hydro - Conventional	1.2913
Nuclear	34.4900
Oil - Distillate Fuel Oil	0.0192
Oil - Jet Fuel	0
Oil - Petroleum Coke	0.1325
Other	0.0067
Solar - Photovoltaic	0.4777
Solid Waste - Municipal Solid Waste	0.5233
Wind	3.2958
Wood - Black Liquor	0.0235
Wood - Wood/Wood Waste Solids	0.1215
Total	100

**Air Emissions:** Carbon Dioxide (CO<sub>2</sub>), Nitrogen Oxides (NO<sub>x</sub>), and Sulfur dioxide (SO<sub>x</sub>) emission rates from the PJM Annual System Mix Report.

Emissions	Emissions per Lbs / mWh	Percentage of PJM Regional Average
Carbon Dioxide (CO <sub>2</sub> )	791.1457	100%
Nitrogen Oxides (NO <sub>x</sub> )	.3589	100%
Sulfur Dioxides (SO <sub>2</sub> )	.4287	100%

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.” 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 Major Energy Electric Services, LLC in the PJM region as compared to the overall Supply Mix.