



Energy Disclosure Label January – December 2016

Electric Providers are required by the New Hampshire Public Utilities Commission to provide customers with an environmental disclosure label with information to evaluate services offered by competitive suppliers and electric utilities, and to provide information about the environmental and public health impacts of electric generation. Further information can be obtained by calling your electric utility or competitive electric supplier, or by contacting the Public Utilities Commission. Additional Information on disclosure labels is also available at <http://www.puc.nh.gov>.

Energy Sources
January 2016-December 2016

| Power Sources | | | Air Emissions | |
|---|----------------|------------------------|---|---------|
| PNE Energy Supply Provided electricity with the following resources as compared to the New England System Mix | | | This table compares air emissions from PNE's electricity mix compared to average emission levels from all New England power sources | |
| Power Source | PNE Mix | New England System Mix | PNE Mix (lbs /MWh) | |
| Coal | 2.46% | 2.61% | Carbon Dioxide (CO ₂) | 674.0 |
| Diesel | 1.78% | 1.44% | This is 16.83% less than the NE System Average | |
| Hydroelectricity/Hydropower | 6.29% | 4.78% | | |
| Municipal Solid Waste | 0.04% | 1.12% | Nitrogen Oxide (NO _x) | 0.64888 |
| Natural Gas | 45.67% | 41.77% | This is 10.84% less than the NE System Average | |
| Nuclear | 11.86% | 29.20% | | |
| Oil | 9.77% | 8.37% | Sulfur Dioxide (SO ₂) | 1.34063 |
| Trash-to-Energy | 0.11% | 2.03% | This is 9.59% less than the NE System Average | |
| Other | 22.02% | 8.68% | | |
| Total | 100.00% | 100.00% | | |

Power Sources: The electricity you consume comes from the New England power grid, which receives power from a variety of power plants and transmits the power as needed to meet the requirements of all customers in New England. When you choose a power supplier, that supplier is responsible for generating and/or purchasing power that is added to the power grid in an amount equivalent to your electricity use. **'Known Resources'** include resources that are owned by, or under contract to, the supplier. **'System Power'** represents power purchased in the regional electricity market. Electric suppliers are required to obtain a certain amount of renewable energy in accordance with RSA 362-F, the state's Renewable Portfolio Standard. They may also choose to obtain amounts of renewable energy above their legal obligation and utilities must also offer a renewable energy option to allow customers to choose to support the purchase of additional renewable energy by the utility.

Emissions: **Carbon Dioxide (CO₂)** is released when fossil fuels (e.g., coal, oil and natural gas) are burned. CO₂, a greenhouse gas is a major contributor to climate change. **Nitrogen Oxides (NO_x)** form when fossil fuels and biomass are burned at high temperatures. They contribute to acid rain and ground-level ozone (or smog) and may cause respiratory illness when there is frequent high level exposure. NO_x also contributes to oxygen deprivation of lakes and coastal waters which is destructive to fish and other animal life. **Sulfur Dioxide (SO₂)** is formed when fuels containing sulfur are burned, primarily coal and oil. Major health effects associated with SO₂ include asthma, respiratory illness and aggravation of existing cardiovascular disease. SO₂ combines with water and oxygen in the atmosphere to form acid rain, which raises the acid level of lakes and streams, and accelerates the decay of buildings and monuments.