

# ELECTRICITY FACTS

## CONSTELLATION NEWENERGY, INC.

January 1, 2019 – December 31, 2019

*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 supplier, or by contacting the Public Utilities Commission. Additional information on disclosure labels is also available at <http://www.puc.nh.gov> or on your electric provider's website.*

### Power Sources

| Power Sources    | Constellation |             |              | New England Regional Average |
|------------------|---------------|-------------|--------------|------------------------------|
|                  | Known         | System      | Total        |                              |
| Biomass          | 6.6           | 1.4         | 8.0          | 1.8                          |
| Coal             | 0.0           | 1.5         | 1.5          | 1.9                          |
| Hydro: large     | 1.7           | 5.4         | 7.1          | 6.8                          |
| Hydro: small     | 0.0           | 0.0         | 0.0          | 0.0                          |
| Imported power   | 0.0           | 0.0         | 0.0          | 0.0                          |
| Landfill Gas     | 3.4           | 0.7         | 4.1          | 0.9                          |
| Municipal Trash  | 0.0           | 1.9         | 1.9          | 0.5                          |
| Nat Gas          | 0.0           | 25.3        | 25.3         | 31.8                         |
| Nuclear          | 0.0           | 17.5        | 17.5         | 22.0                         |
| Oil              | 0.0           | 3.4         | 3.4          | 4.2                          |
| Other            | 0.0           | 15.3        | 15.3         | 19.6                         |
| Other Renewables | 0.8           | 1.1         | 1.9          | 2.9                          |
| Solar            | 0.1           | 2.3         | 2.4          | 3.0                          |
| Wind             | 7.9           | 3.7         | 11.6         | 4.7                          |
| <b>Total</b>     | <b>20.5</b>   | <b>79.5</b> | <b>100.0</b> | <b>100.0</b>                 |

### **Definitions**

**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 law. They may also choose to obtain amounts of renewable energy above their legal obligation.

### **AIR EMISSIONS:**

**Carbon Dioxide (CO<sub>2</sub>)** is released when fossil fuels (e.g., coal, oil and natural gas) are burned. CO<sub>2</sub>, a greenhouse gas, is a major contributor to climate change.

**Nitrogen Oxides (NO<sub>x</sub>)** form when fossil fuels and biomass are burned at high temperatures. They contribute to acid rain and ground-level ozone (smog), and may cause respiratory illness with frequent high level exposure. NO<sub>x</sub> also contribute to oxygen deprivation of lakes and coastal waters which is destructive to fish and other animal life.

**Sulfur Dioxide (SO<sub>2</sub>)** is formed when fuels containing sulfur are burned, primarily coal and oil. Major health effects associated with SO<sub>2</sub> include asthma, respiratory illness and aggravation of existing cardiovascular disease. SO<sub>2</sub> 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.

### Air Emissions

|                        | <i>Constellation</i><br>(lbs/MWh) | <i>New England</i><br><i>Average</i><br>(lbs/MWh) | <i>% of Regional</i><br><i>Average</i> |
|------------------------|-----------------------------------|---|--|
| <b>Carbon Dioxide</b>  | 833.62                            | 656.16  | 127.0%                                 |
| <b>Nitrogen Oxides</b> | 1.25                              | 0.84  | 149.7%                                 |
| <b>Sulphur Dioxide</b> | 1.56                              | 0.88  | 178.5%                                 |

*Notes: lbs/MWh = pounds per Megawatt-hour  
1 Megawatt-hour = 1,000 kilowatt-hours*

**For further information on this label, please contact Constellation NewEnergy, Inc. toll-free at 1-844-636-3749 or go to the New Hampshire Public Utilities Commission's Environmental Disclosure FAQ Website at <http://www.puc.state.nh.us/Consumer/Environmental%20Disclosure%20FAQs.html>**