

## Content label for Carver Community Choice Electricity Supply Program

Constellation NewEnergy, Inc.'s ("Constellation") customers are served through a regional power grid administered by the New England Independent System Operator. Constellation supplies its customers with system power from this regional power grid, not from specific generating units. Constellation procures renewable energy content to meet the Massachusetts' renewable portfolio standard requirements and to supply voluntary green products chosen by customers. Information about Constellation's renewable power content is shown below in the table on the right.

### Generation Prices (cents per kilowatt hour)

Customer type	Standard Option (cents per kilowatt hour)	Greener Option (cents per kilowatt hour)	Period in effect
All Customers	0.0949	0.0978	Jan. 2016 – Jan. 2018 meter read
Generation prices do not include regulated charges for customer service and delivery. Those charges are billed by your local distribution company.			

### Constellation January 31, 2018 Disclosure Label

Based on the most current data available at the time of filing

New England System Mix	
Fuel	Percentages
Biodiesel	0.00%
Biomass	2.04%
Coal	4.34%
Diesel	0.90%
Digester gas	0.07%
Efficient Resource (Maine)	0.25%
Fuel Cell	0.28%
Geothermal	0.00%
Hydroelectric/Hydropower	6.71%
Hydrokinetic	0.00%
Jet	0.02%
Liquid Biofuels	0.00%
Landfill gas	0.56%
Municipal solid waste	1.16%
Natural Gas	37.54%
Nuclear	30.16%
Oil	7.14%
Solar Photovoltaic	2.17%
Solar Thermal	0.00%
Trash-to-energy	2.08%
Wind	2.90%
Wood	1.64%
<b>Total</b>	<b>100.00%</b>

Constellation Power Attribute Content	
Carver Aggregation–Standard Option	
Source	Percentage
MA Renewable Portfolio Standard Requirements (includes Wind, Solar, Biomass, and other renewable resources pursuant to MA regulations)	22.34%
System Mix	77.66%
<b>Total</b>	<b>100.00%</b>

### Carver Aggregation–Greener Option

Source	Percentage
MA Renewable Portfolio Standard Requirements (includes Wind, Solar, Biomass, and other renewable resources pursuant to MA regulations)	22.34%
MA Class I Resource (Wind)	5.00%
<b>Total</b>	<b>27.34%</b>

**Labor Information:** Constellation is unable to obtain information on how much of the electricity assigned to this electricity product came from power sources with union contracts with their employees. Additionally, Constellation is unable to obtain information on how much of the electricity assigned to this electricity product came from power sources that used employees involving labor disputes during this period.

### For further information contact:

Massachusetts Department of Energy Resources  
 • 617-626-7300  
 • DOER.Energy@State.MA.US  
 • <http://www.mass.gov/eea/grants-and-tech-assistance/guidance-technical-assistance/agencies-and-divisions/doer/>

Massachusetts Department of Public Utilities

• 1-877-886-5066

Constellation

• 1-855-788-9885

• [www.constellation.com](http://www.constellation.com)

## Air Emissions

Emissions for each of the following pollutants are based on System Mix data provided by the New England Power Pool (NEPOOL) and ISO New England for the most current annual data available at the time of filing.

System average emission rates are based on the most current annual data available at the time of filing and were prepared for New England Power Pool (NEPOOL) by ISO New England.

### Emissions data:

#### Constellation

Emission Type	Lbs. per MWh
Nitrogen Oxides (NO <sub>x</sub> )	0.888
Sulfur Dioxide (SO <sub>2</sub> )	1.244
Carbon Dioxide (CO <sub>2</sub> )	874.467

New Unit emissions data for CO<sub>2</sub> is 895 lbs/MWh; for NO<sub>x</sub> is 0.055 lbs/MWh; for SO<sub>2</sub> is 0.011 lbs/MWh

**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.

**Nitrogen Oxide (NO<sub>x</sub>)** is formed when fossil fuels and biomass are burned at high temperatures. NO<sub>x</sub> contributes to acid rain and ground-level ozone (or smog), and may cause respiratory illness in children 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.

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

### Notes

The NEPOOL system mix represents all resources used for electricity generation in the region. Constellation purchases power from the NEPOOL system.



**Constellation**<sup>®</sup>

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