

## Content label for Town of Dedham Community Choice Program

Constellation's 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.

Constellation New Energy, Inc. ("Constellation") will update fuel sources and emissions data for its customers quarterly, allowing customers to compare data among the companies providing electricity service on Cape Cod and Martha's Vineyard.

Generation Prices (cents per kilowatt hour)	Dedham Basic	Dedham Local Green	Dedham Premium Local Green	Period In effect
All Customers	0.0969	0.0969	0.10465	Nov. 2017–Nov. 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
Biogas	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	
Dedham Basic	
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>

Constellation Power Attribute Content			
Dedham Local Green (5% Green)		Dedham Premium Local Green (100% Green)	
Source	Percentage	Source	Percentage
MA Renewable Portfolio Standard Requirements (includes Wind, Solar, Biomass, and other renewable resources pursuant to MA regulations)	22.34%	MA Renewable Portfolio Standard Requirements (includes Wind, Solar, Biomass, and other renewable resources pursuant to MA regulations)	22.34%
MA Class I Resources (Wind, Solar)	5.00% <small>(Measured against retail kWh)</small>	MA Class I Resources (Wind, Solar)	100.00% <small>(Measured against retail kWh)</small>
<b>Total Green Content</b>	<b>26.03%</b>	<b>Total Green Content</b>	<b>121.03%</b>

Note: The total exceeds 100% green content because the product also includes renewable content to satisfy the mandatory state RPS requirements. The resources in the local green options are sourced from MA.

**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](mailto:DOER.Energy@State.MA.US)  
• [http://www.mass.gov/eea/  
grants-and-tech-assistance/  
guidance-technical-assistance/  
agencies-and-divisions/doer/](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

ConEdison Solutions  
1-855-788-9885  
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## 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 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:

#### ConEdison Solutions

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.