



MASSACHUSETTS POWER INFORMATION DISCLOSURE LABEL Q3 '19 – SWAMPSCOTT COMMUNITY POWER

GENERATION PRICE

Average price per kWh at different levels of use.
 Prices do not include regulated charges for customer service and delivery.

The price you pay for generation is set forth in the town aggregation agreement of Swampscott and Direct Energy Services, LLC. If you have any further questions about what you pay for electricity per kWh, please contact the Direct Energy Services, LLC customer service number below. The generation price will not vary based on the amount of electricity the customer uses.

CUSTOMER SUPPORT CONTRACT

Contact the Town's consultants at 1-844-483-5004.

Program Generation Price	Standard Green Offering	NE Green Optional	Basic Optional	Period
Standard/Optional Rate Customers	11.444 ¢/kWh	13.499 ¢/kWh	11.244 ¢/kWh	7/2019 – 11/2021

Direct Energy Services, LLC (Town's electric supplier)
 Toll-Free: 1-866-968-8065
 Address: 12 Greenway Plaza, Ste. 250
 Houston, TX 77046
www.directenergy.com
csdirectenergy@directenergy.com

For energy emergencies or general inquiries, please contact National Grid at (800) 233-5325.
 For general inquiries, please contact National Grid at (800) 732-3400
 You can also write to National Grid – Customer Correspondence, PO Box 1040
 Northborough, MA 01532-4040 or visit National Grid online at visit www.nationalgrid.com.

Power Attribute Content – Direct Energy Services, LLC	
Standard Green	
Source	Percentage
MA Renewable Portfolio Standard Requirements (includes MA Class I RECs)	14.00
Additional renewable electricity (added voluntarily MA Class I RECs)	5.00
Wind projects outside of New England, added voluntarily	81.00
Total	100.00
New England Green Optional	
Source	Percentage
Renewable electricity (MA Class I RECs) based on renewable energy projects located in New England	100.00
Total	100.00
Basic Optional	
Source	Percentage
MA Renewable Portfolio Standard Requirements (includes MA Class I RECs)	24.94
Remaining System Mix	75.06
Total	100.00

Regional Average Fuel Mix*		
Year	System Power	Fuel%
2018-2019	Air-source Heat Pump	0.03
2018-2019	Biogas	0.01
2018-2019	Biomass	1.97
2018-2019	Coal	9.08
2018-2019	Diesel	0.77
2018-2019	Digester Gas	0.08
2018-2019	Efficient Resource (Maine)	0.21
2018-2019	Fuel Cell	0.32
2018-2019	Hydroelectric/Hydropower	6.98
2018-2019	Jet	0.02
2018-2019	Landfill Gas	0.53
2018-2019	Liquid Biofuels	0.28
2018-2019	Municipal Solid Waste	0.65
2018-2019	Natural Gas	35.09
2018-2019	Nuclear	28.81
2018-2019	Oil	5.19
2018-2019	Solar Photovoltaic	3.08
2018-2019	Solar Thermal	0.03
2018-2019	Trash-to-Energy	2.33
2018-2019	Wind	3.16
2018-2019	Wood	1.32
2018-2019	Other	0.08
	Total	100

*Demand for electricity supplied by Direct Energy Services, LLC ("DES") for the period of 04/01/18 through 03/31/19 was met by the generating resources or fuel types noted above equating to 75.06% and minimum 24.94% state RPS requirements.

Please note Direct Energy purchases additional RECs for all product offerings through this aggregation agreement to meet required compliance Class II and APS obligations by the Commonwealth of Massachusetts.

NOTES: 1. Electricity customers in New England are served by an integrated power grid, not particular generating units. The above information is on generating units under contract to DES in the period 04/01/18-03/31/19. 2. You may also call DES at 1-866-968-8065 or the Massachusetts Division of Energy Resources at 1-617-626-7300



AIR EMISSIONS

Emissions for each of the following pollutants are based on System Mix data by the New England Power Pool (NEPOOL) and ISO New England for the most current data reporting period.

Emission Type	Lbs. per MWh
Nitrogen Oxides (NO_x)	1.78
Sulfur Dioxide (SO₂)	3.33
Carbon Dioxide (CO₂)	987.46

LABOR INFORMATION**REGIONAL AVERAGE GENERATION RESOURCE LABOR CHARACTERISTICS**

January 1, through December 31, 2016, Provided by ISO New England Inc.

Generating Workforce	Output (MWh)	%
Collective Bargaining	36,593,812	32%
Non-Collective Bargaining	76,609,202	68%
Total	113,203,014	100%

GENERATION PRICE CONTRACT

Generation prices do not include regulated charges for customer service and delivery. Those charges are billed by your local distribution company.

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 throughout the region 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. Biomass refers to power plants that are fueled by wood or other plant matter. Hydro resources of greater than 30 megawatts in size are deemed "large hydro." All other hydro resources are deemed "small hydro." Other Renewables include fuel cells utilizing renewable fuel sources, landfill gas and ocean thermal.

EMISSIONS

Emissions for each of the following pollutants are presented as a percent of the regional average emission rate. Arrows represent, for each pollutant, the emission rate from a hypothetical new generation facility.

- Carbon Dioxide (CO₂) 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.
- 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 in children with frequent high-level exposure. NO_x also contribute 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.

LABOR DATA

The information on this label regarding whether generators or suppliers operate under collective bargaining agreements is provided to inform you about whether the energy was produced in plants where employee wages and working conditions are mutually determined by employees and management and protected by union contracts. The information on this label regarding the use of replacement employees during a labor dispute is provided to inform you of whether a generator or supplier during a strike by or lockout of its employees has replaced them with other workers.

RENEWABLE ENERGY CONTENT

** New Renewable energy projects are those projects that came into commercial operation after January 1, 1998.