

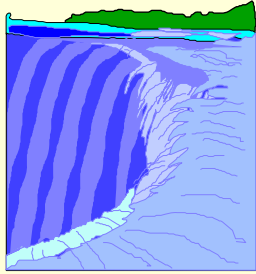
Maine Disclosure and Portfolio Requirements

Workshop on Electric Imports
and “Emission Leakage”

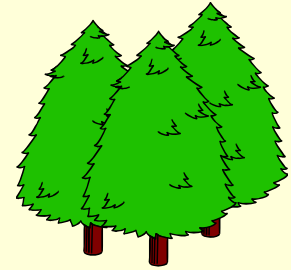
In Support of the Regional Greenhouse Gas Initiative

June 15, 2006

Faith Huntington
Maine Public Utilities Commission



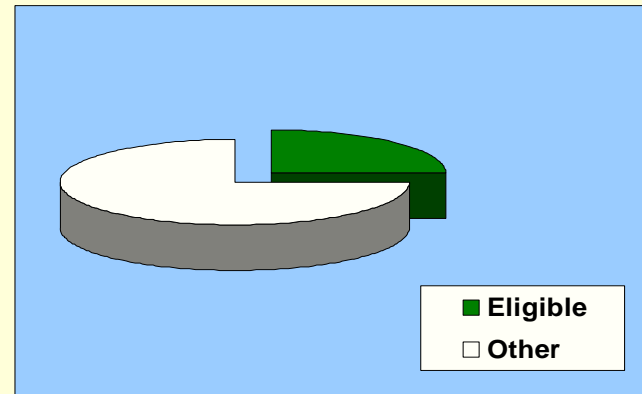
Resource Portfolio Requirement



MPUC Chapter 311

Requirement

- **30% kWhs sold to Maine customers must come from “eligible” resources**
- **Applicable to all Maine retail suppliers**
- **Must be met with eligible GIS certificates** *(with limited exceptions)*





Eligible Resources

- **Small Power Production (*PURPA QF*)**
- **Efficient Cogeneration built before 1/1/97**
- **Renewable Generation < 100 MW**

Fuel Cells Geothermal

Tidal Hydro

Solar Biomass

Wind Municipal Solid Waste

Compliance

- **Use ISO-NE GIS system to comply with Maine's RPS requirement** (*with limited exceptions*)
- **Supplier must have sufficient quantity of certificates from “eligible” resources in its GIS account**
- **GIS has “Maine Eligible” as attribute**

Verification

- **Verify compliance in supplier's annual report, including by GIS settled certificates reports**
- **MPUC can confirm through own access to GIS reports**
- **MPUC may audit**

Uniform Information Disclosure

MPUC Chapter 306

Label Purpose

- Consumer information
- Compare:
 - supplier portfolios
 - emissions profiles
 - among products, e.g. “green” vs standard offer
 - to regional average

Consumers see the environmental attributes of their power supply.

Label Provides:

- **Attributes associated with supplier's load obligations over recent 12 month period**
- **Comparability – must conform visually to MPUC sample label**

Label Content

- **Fuel attributes** of resource portfolio
-- biomass, MSW, fossil fuel cogen, fuel cells, geothermal, hydro, solar, tidal, wind, nuclear, gas, oil, coal
- **Emissions attributes** of resource portfolio --
CO₂, NO_x, SO₂
- Must compare fuel mix and emissions to regional average

RESIDENTIAL AND SMALL NON RESIDENTIAL STANDARD OFFER SERVICE CONSUMER INFORMATION ABOUT YOUR ELECTRICITY SUPPLY

April 2006

Electricity suppliers in Maine must, by Maine law, provide fact sheets, or "uniform disclosure labels" from time to time to educate consumers about their electricity service. Your electricity is *delivered by* Central Maine Power Company, but the electricity itself is supplied by:

Constellation Energy Commodities Group Maine, LLC.

This fact sheet provides consumer information about the power sources and air emissions of service provided by this electricity supplier

Power Sources

(October 1, 2004-September 30, 2005)

This supplier provided electricity with the following resources:

	<u>Supplier's</u> <u>Mix</u>	<u>New</u> <u>England</u> <u>Mix</u>
Sources meeting Maine's 30% renewable and efficient resources requirement		
Biomass	3.7 %	} 5.0 %
Municipal Waste	6.8 %	
Fossil Fuel	8.6 %	0.2 %
Cogeneration		
Fuel Cells	0.0 %	0.0 %
Geothermal	0.0 %	0.0 %
Hydro	8.9 %	5.1 %
Solar	0.0 %	0.0 %
Tidal	0.0 %	0.0 %
Wind	0.0 %	0.0 %

Other Choices

Air Emissions

(October 1, 2004- September 30 2005)

This table compares air emissions from this supplier's electricity mix to average emission levels from all New England power sources.

	<u>Supplier's</u> <u>Mix</u> (lbs/MWh)	
Carbon Dioxide (CO₂)	882.47	This is 14.5% less than the New England Average.
Nitrogen Oxide (NO_x)	2.00	This is 35.2% more than the New England Average.
Sulfur Dioxide (SO₂)	3.00	This is 26.8% less than the New England Average.

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

Additional Information and Required Notes:

Notes:

Power Sources—Maine law requires retail electricity providers to supply no less than 30% of their total annual kilowatt-hour sales with electric energy generated from eligible resources. Either a renewable fuel or an efficient process, such as co-generation, must be used to generate the electricity used to satisfy this requirement. Co-generation sometimes uses fossil fuels, such as gas, coal or oil, and is considered to be efficient because the process yields both electricity and thermal energy.

Emissions—**Carbon Dioxide** (CO₂) is released when certain fuels are burned. It is considered a greenhouse gas and a major contributor to global warming. **Nitrogen Oxides** (NO_x) form when certain fuels are burned at high temperatures. They are considered contributors to acid rain and

If you have questions or need further explanation, please contact Constellation Energy Commodities Group Maine, LLC toll-free at 1-888-808-3826 or the Maine Public Utilities Commission, toll-free, at 1-877-782-3228. Additional information can also be found at <http://www.maine.gov/mpuc>.

This fact sheet provides consumer information about the power sources and air emissions of service provided by this electricity supplier.

Power Sources

(October 1, 2004-September 30, 2005)

This supplier provided electricity with the following resources:

	<u>Supplier's</u> <u>Mix</u>	<u>New</u> <u>England</u> <u>Mix</u>
<i>Sources meeting Maine's 30% renewable and efficient resources requirement</i>		
Biomass	3.7 %	} 5.0 %
Municipal Waste	6.8 %	
Fossil Fuel	8.6 %	0.2 %
Cogeneration		
Fuel Cells	0.0 %	0.0 %
Geothermal	0.0 %	0.0 %
Hydro	8.9 %	5.1 %
Solar	0.0 %	0.0 %
Tidal	0.0 %	0.0 %
Wind	0.0 %	0.0 %
<i>Other Choices</i>		
Nuclear	26.6%	27.3 %
Gas	28.4 %	35.3 %
Oil	8.2%	11.3 %
Coal	8.8 %	15.8 %
TOTAL	100.0%	100.0%

Air Emissions

(October 1, 2004- September 30 2005)

This table compares air emissions from this supplier's electricity mix to average emission levels from all New England power sources.

	<u>Supplier's</u> <u>Mix</u> (lbs/MWh)	
Carbon Dioxide (CO₂)	882.47	This is 14.5% less than the New England Average.
Nitrogen Oxide (NO_x)	2.00	This is 35.2% more than the New England Average.
Sulfur Dioxide (SO₂)	3.00	This is 26.8% less than the New England Average.

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

Product Offerings

- **Separate label for each product offering**
- **Green products**, for example
- **Maine Green Power Connection:**

Green Electricity

- [Clean Energy Maine](#)
- [What Is It?](#)
- [Why Buy it?](#)
- [Links](#)

How to Buy

- [Buying Guide](#)
- [Power Basics](#)
- [Supply](#)
- [Certificates](#)
- [On-site Generation](#)
- [Product Menu](#)
- [Wizard](#)

Tools for Action

- [Calculator](#)
- [Businesses](#)
- [Campuses](#)
- [Healthcare](#)

"Connected" Companies

- [Directory](#)
- [List](#)

About Us

- [News](#)
- [Press Coverage](#)
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- [Mission](#)
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[Search](#)

Company	Form	Eligibility	Certified	Sources % type, locations	Price per kilowatt-hour (per block)	Product Details	Buy Now
Bonneville Environmental Foundation / Maine Interfaith Power & Light	Certificates	Available to all	Green-e Climate Cool™	99% new wind, 1% solar. MT, WY, OR.	2.0¢/kWh (\$20.00 per 1,000 kWh)	Green Tags	Buy Now
Community Energy Inc.	Certificates	Residential/Small commercial accounts	Green-e	100% new wind. Mid-Atlantic	2.5¢/kWh (\$25.00 per 1,000 kWh)	NewWind Energy®	Buy Now
Community Energy Inc.	Certificates	Medium/Large commercial accounts	Green-e	100% new wind. Mid-Atlantic, New England and/or national.	1.0-2.0¢/kWh (\$10.00-\$20.00 per 1,000 kWh)	NewWind Energy®	Buy Now
Constellation NewEnergy	Supply	Accounts 100kW or larger. BHE & CMP.	Green-e	15% new LFG, 10% new wind, 30% biomass, 45% small hydro. New England	~\$0.03 over prevailing commodity price.	ElectricGreen: Green-e Supply	Buy Now
Constellation NewEnergy	Supply	Commercial customers 100kW or larger. BHE & CMP.	None	50% hydro, 50% biomass. Maine.	~\$0.0068 over prevailing commodity price	ElectricGreen: MaineMade Supply	Buy Now
Constellation NewEnergy	Certificates + Supply	Commercial customers 100kW or larger. BHE & CMP	Green-e	100% wind.	Prices Vary+	ElectricGreen: Wind Certificates	Buy Now
Endless Energy Corporation / Maine Interfaith Power & Light	Certificates	Limited Availability.	None	100% new wind. Maine.	4.0¢/kWh (\$20.00 per 500 kWh)	FirstWind of Maine	Buy Now
Maine PowerOptions	Certificates	Non-profits. CMP & BHE.	None	50% small hydro, 50% biomass. Maine	0.55¢/kWh over prevailing commodity price.	MPO MaineMade Certificates	Buy Now
Maine PowerOptions	Supply	Non-profits only. Medium & larger accounts only.	None	50% small hydro,	0.55¢/kWh over prevailing	MPO MaineMade	Buy Now

Label Distribution

- ***Mailed quarterly*** to all residential and small commercial customers
- ***Available*** to all customers on request
- ***Sent with Terms of Service*** to residential and small commercial customers

Compliance and Verification

- **Suppliers provide labels and evidence of validity with annual report**
- **GIS account reports**
- **MPUC may audit**

Sample Annual Report Information

Select Energy, 2004

CEP Name: Select Energy, Inc.

- c. To obtain information in a comparable format, please complete the information on Attachment 2. Also, if available, please provide the information to the Commission in an Excel spreadsheet or other electronic format.³

Please refer to Attachment 2.

- 7 Chapter 306(2)(H)(3)(d) – if you disaggregate your portfolio, provide the table requested in Item #6 showing any disaggregation during the year.
8. Chapter 311 (5)(D)(1 to 2) – provide the following information:

Information required:	Total – Kilowatt-hours
Total retail kWh sales in Maine	710,857,000*
Total retail kWh sales in Maine served from eligible resources	232,877,000

* Minor discrepancy exists in Attachment # 2 due to arithmetic calculation and rounding.

9. Chapter 311 (5) (E) – Officer Certification – Each annual report must contain a certification by a corporate officer that the competitive energy provider has complied with the portfolio requirement and that all eligible GIS certificates or eligible resources used to satisfy the portfolio requirement in Maine have not been used by the competitive electricity provider to satisfy any load obligations in other jurisdictions.

Please refer to the attached Officer Certification document.

Name of Generating Unit and GIS Unit ID Number	Location by State	Eligible* Resource (Y/N)	KWH to Meet Load Requirement for Year		
Hydro					
BULLS BRIDGE	CT	Y	2,966,000		
CABOT/TURNERS FALLS	MA	Y	67,772,000		
COBBLE MOUNTAIN	MA	Y	5,548,000		
SHEPAUG	CT	Y	80,968,000		
STEVENSON	CT	Y	58,278,000		
TAFTVILLE CT	CT	Y	3,846,000		
TUNNEL	CT	Y	5,164,000		232,877,000
POWDER MILL HYDRO	MA	Y*	129,000		
Hydro from System Power		N	9,090,871		
Total Hydro			233,761,871		
Biomass					
PINETREE POWER	MA	Y	8,206,000		
Biomass from System Power			3,098,790		
Total Biomass			11,304,790		
Coal					
Coal from System Power			34,984,363		
Total Coal			34,984,363		
Nuclear					
Nuclear from System Power			161,306,299		
Total Nuclear			161,306,299		
Oil					
Oil from System Power			65,630,922		
Total Oil			65,630,922		
Natural Gas					
Natural Gas from System Power			171,089,911		
Total Natural Gas			171,089,911		
Wind					
Wind from System Power			29,376		
Total Wind			29,376		
Solar					
Solar from System Power			-		
Total Solar			-		
Municipal Solid Waste					
MSW from System Power			2,981,793		
Total Municipal Solid Waste			2,981,793		
Other					
MADISON COMPOSITE	ME	Y	24,000		
Other from System Power			29,481,039		
Total Other			29,505,039		
Total from All Sources			710,594,365		

* The Powder Mill Hydro Facility is an Eligible Resource, however, within GIS the Eligible Resource box was not checked as Y.

IMPORTANT NOTICE

2004 Select Energy, Inc. - 1st Quarter

Maine Disclosure Label



Generation Price Average unit price per kWh at different levels of use. Prices do not include regulated charges for customer service and delivery.	<table><tr><th colspan="7">Average use per month (kWh)</th></tr><tr><td>205</td><td>500</td><td>1,000</td><td>2,000</td><td>10,000</td><td>20,000</td><td>40,000</td></tr><tr><td colspan="7">6.45 cents per kWh</td></tr></table> Price shown is currently in effect. Actual price may vary over time based upon the energy usage profile of individual customer.	Average use per month (kWh)							205	500	1,000	2,000	10,000	20,000	40,000	6.45 cents per kWh									
Average use per month (kWh)																									
205	500	1,000	2,000	10,000	20,000	40,000																			
6.45 cents per kWh																									
Contract	Please refer to your individual contract for specific details pertaining to price and terms of service.																								
Power Sources Electricity from Select Energy is derived from the following generation sources:	<table><tr><th>Power Sources</th><th>Percent*</th></tr><tr><td>Biomass</td><td>7.6%</td></tr><tr><td>Coal</td><td>4.3%</td></tr><tr><td>Hydro</td><td>40.9%</td></tr><tr><td>Nuclear</td><td>18.7%</td></tr><tr><td>Natural Gas</td><td>20.2%</td></tr><tr><td>Solar</td><td>0.0%</td></tr><tr><td>Oil</td><td>8.0%</td></tr><tr><td>Other Renewable</td><td>0.1%</td></tr><tr><td>Wind</td><td>0.0%</td></tr><tr><td>Municipal Solid Waste</td><td>0.2%</td></tr><tr><td>TOTAL</td><td>100%</td></tr></table> *Percent values are rounded.	Power Sources	Percent*	Biomass	7.6%	Coal	4.3%	Hydro	40.9%	Nuclear	18.7%	Natural Gas	20.2%	Solar	0.0%	Oil	8.0%	Other Renewable	0.1%	Wind	0.0%	Municipal Solid Waste	0.2%	TOTAL	100%
Power Sources	Percent*																								
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Other Renewable	0.1%																								
Wind	0.0%																								
Municipal Solid Waste	0.2%																								
TOTAL	100%																								
Air Emissions Carbon dioxide (CO ₂), nitrogen oxides (NO _x), and sulfur dioxide (SO ₂) emission rates from these sources, relative to the regional average.	<table><tr><td></td><td></td><td>Regional Average</td></tr><tr><td>CO₂</td><td>41.9%</td><td rowspan="3"></td></tr><tr><td>NO_x</td><td>53.2%</td></tr><tr><td>SO₂</td><td>38.3%</td></tr><tr><td colspan="2">Lower emissions</td><td>Higher emissions</td></tr></table>			Regional Average	CO ₂	41.9%		NO _x	53.2%	SO ₂	38.3%	Lower emissions		Higher emissions											
		Regional Average																							
CO ₂	41.9%																								
NO _x	53.2%																								
SO ₂	38.3%																								
Lower emissions		Higher emissions																							
NOTES: Select Energy's air emissions are measured against the ISO-New England GIS System Mix Data. See your contract terms and conditions for further information on this label. You may also call Select Energy at 1-888-810-5678, or the Maine Public Utilities Commission at 1-207-287-3831 or 1-800-452-4699. TTY Relay: 1-800-437-1220.																									

Electricity Facts

All licensed electricity Suppliers in Maine are required to develop and disclose to their customers information pertaining to their power supply. This information or energy disclosure label allows consumers to compare prices, length of contract, sources of power, air emissions and labor information.

Generation Price and Contract

Generation Prices displayed are representative average prices for electricity at usage levels that are typical for non-residential customers. Contract items displayed present the length of your contract for generation service, and the price terms included in your contract. Refer to your Energy Supply Agreement to determine your actual generation price. For additional information, refer to your Terms of Service.

Power Sources

The actual electricity you use will be indistinguishable from the electricity used by your friends and neighbors. There is no way to identify the actual power plant that produced the electricity you consume in your business because everyone is served through the same transmission and distribution system. But it is possible to track the dollars you pay for electricity. Your electricity dollars will support electricity generation from various energy resources in the proportions listed on the power content label.

Emissions

Emissions for each of the following pollutants are presented as a percent of the regional average emission rate.

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.

The production of electricity can produce other harmful emissions and have other environmental impacts. Environmental impacts differ among individual power plants.

Settled

Reserved

Banked

Unsettled

My Settled Certificates Disposition - Account Holder ID:50168 - Year: 2004 - Q1

SubAccount	Product	Unit Name	Fuel Type	Month of Generation	Certificate Serial Numbers	Quantity	CT Class I	CT Class II	MA New Renewable Gen	MA Renewable Resource	Eligible MA NOx Allowances	ME Renew Energy Source
My Exports		New England Residual Mix	Residual Mix	2004/1	230488 - 487700 to 499987	12,288	No	No	No	No	No	No
My Unassigned Obligation		New England Residual Mix	Residual Mix	2004/1	230488 - 13491132 to 13515816	24,685	No	No	No	No	No	No
Select - MA Retail		MASS POWER	Natural Gas	2004/3	228901 - 1 to 28103	28,103	No	No	No	No	No	No
Select - MA Retail		MASS POWER	Natural Gas	2004/2	228902 - 1 to 34473	34,473	No	No	No	No	No	No
Select - MA Retail		MASS POWER	Natural Gas	2004/1	228903 - 1 to 39195	39,195	No	No	No	No	No	No
Select - MA Retail		New England Residual Mix	Residual Mix	2004/1	230488 - 9252645 to 9859593	606,948	No	No	No	No	No	No
Select - CT Retail		JOHNSTON LANDFILL	Landfill gas	2004/1	229178 - 1 to 423	423	Yes	No	No	Yes	No	Yes
Select - CT Retail		New England Residual Mix	Residual Mix	2004/1	230488 - 9210800 to 9252644	41,845	No	No	No	No	No	No
Select - MA Non RPS Muni Load		New England Residual Mix	Residual Mix	2004/1	230488 - 9859594 to 9982577	122,984	No	No	No	No	No	No
Select - Maine - BHE-- SOS		COBBLE MOUNTAIN	Hydroelectric/Hydropower	2004/2	229344 - 1 to 1083	1,083	No	No	No	Yes	No	Yes



My Account

Help

Year - Quarter: 2004 - Q1

Settled

Reserved

Banked

Unsettled

My Settled Certificates Disposition - Account Holder ID:50168 - Year: 2004 - Q1

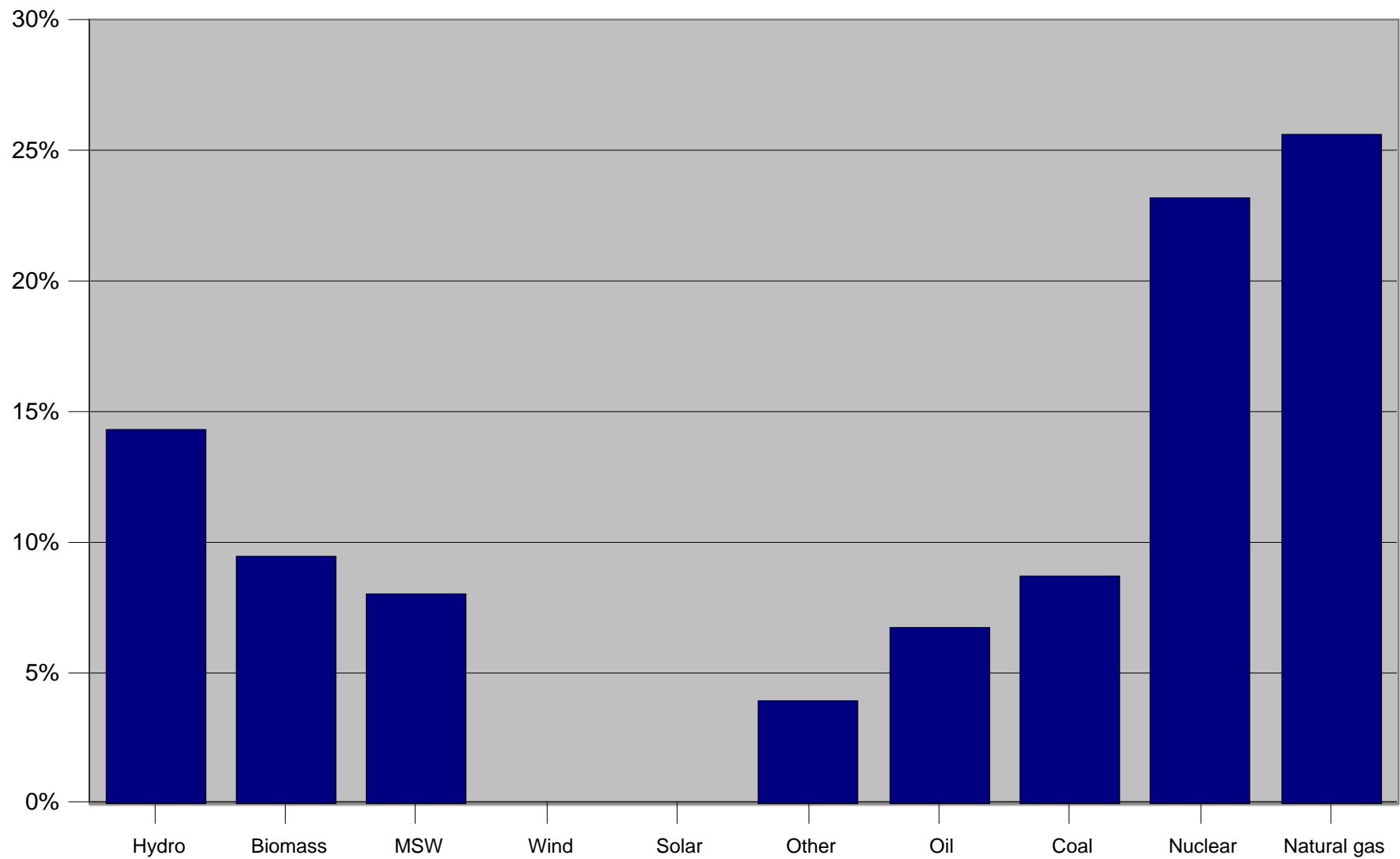
SubAccount	Product	Unit Name	Fuel Type	Month of Generation	Certificate Serial Numbers	Quantity	CT Class I	CT Class II	MA New Renewable Gen	MA Renewable Resource	Eligible MA NOx Allowances	ME F En Source
Select - Maine Retail		CABOT/TURNERS FALLS	Hydroelectric/Hydropower	2004/2	229367 - 1 to 12000	12,000	No	No	No	Yes	No	Yes
Select - Maine Retail		MADISON COMPOSITE	Trash-to-energy	2004/3	229913 - 1 to 2	2	No	No	No	Yes	No	No
Select - Maine Retail		MADISON COMPOSITE	Trash-to-energy	2004/2	229914 - 1 to 4	4	No	No	No	Yes	No	No
Select - Maine Retail		MADISON COMPOSITE	Trash-to-energy	2004/1	229915 - 1 to 18	18	No	No	No	Yes	No	No
Select - Maine Retail		New England Residual Mix	Residual Mix	2004/1	230488 - 10053756 to 10150785	97,030	No	No	No	No	No	No
Select - Maine Retail		STEVENSON	Hydroelectric/Hydropower	2004/1	229365 - 1 to 11817	11,817	No	No	No	Yes	No	Yes
Select - Maine Retail		STEVENSON	Hydroelectric/Hydropower	2004/3	229363 - 1 to 10036	10,036	No	No	No	Yes	No	Yes
Select - Maine Retail		STEVENSON	Hydroelectric/Hydropower	2004/2	229364 - 1 to 5596	5,596	No	No	No	Yes	No	Yes
Select - Maine Retail		TUNNEL	Hydroelectric/Hydropower	2004/3	229573 - 1 to 1166	1,166	No	Yes	No	Yes	No	Yes
Select - Maine Retail		TUNNEL	Hydroelectric/Hydropower	2004/2	229574 - 1 to 532	532	No	Yes	No	Yes	No	Yes
Select - Maine Retail		TUNNEL	Hydroelectric/Hydropower	2004/1	229575 - 1 to 881	881	No	Yes	No	Yes	No	Yes
Select NH		New England Residual Mix	Residual Mix	2004/1	230488 - 10150905 to 10155187	4,283	No	No	No	No	No	No
Select RI		New England Residual Mix	Residual Mix	2004/1	230488 - 10155188 to	43,314	No	No	No	No	No	No

				10198501								
Select-NIMO- SENY-MA Retail	New England Residual Mix	Residual Mix	2004/1	230488 - 9982578 to 9984795	2,218	No	No	No	No	No	No	No
Select-NIMO- SENY-Maine Retail	New England Residual Mix	Residual Mix	2004/1	230488 - 10150786 to 10150904	119	No	No	No	No	No	No	No
Select-NIMO- SENY-Maine Retail	POWDER MILL HYDRO	Hydroelectric/Hydropower	2004/2	229853 - 1 to 2	2	No	No	No	No	No	No	No
Select-NIMO- SENY-Maine Retail	POWDER MILL HYDRO	Hydroelectric/Hydropower	2004/1	229851 - 1 to 54	54	No	No	No	No	No	No	No
Select-NIMO- SENY-Maine Retail	POWDER MILL HYDRO	Hydroelectric/Hydropower	2004/3	229852 - 1 to 73	73	No	No	No	No	No	No	No
Total:					1,201,650							
					21 - 38 : 38							

Other Applications

- **Reports to Maine Legislature**
- **Other analysis, summary statistics**

Resources Serving Maine's Electricity Customers in 2004



Why GIS?

Market perspective

- Liquidity
- Credibility
 - kWh was generated
 - no double counting

Regulator perspective

- Simplifies attribute-to-load mapping
 - no need to examine stacks of bilateral contracts
- Credibility
 - kWh was generated
 - kWh “owned” by supplier
 - no double counting

A Bit More About GIS . . .

- **Public reports**
- **State regulator reports**
detailed and confidential
information
need account w/ password

Public Reports

- [GIS Account Holders](#)
- [GIS Generators](#)
- [NEPOOL Residual Mix](#)
- [Import System Mix](#)
- GIS Generator Production [Quarterly](#) [Annual](#)
- Imports [Quarterly](#) [Annual](#)
- Exports [Quarterly](#) [Annual](#)
- GIS Certificate Statistics [Quarterly](#)
- LSE Certificate Obligations [Quarterly](#) [Annual](#)
- Reserved Certificate Transfers [Quarterly](#) [Annual](#)
- NEPOOL System Mix [Quarterly](#)

State Regulator Reports

- GIS Generators Import Generators
- Retail LSEs with GIS Subaccounts in NEPOOL states
- Settled Certificates by LSE and State Emission Defaults for each Fuel Type
- Total Certificates Allocated to Load by State Quarterly
- Certificates Allocated to Load by State Quarterly
- Energy Summary Quarterly Annual
- Total Emissions by GIS Generator Quarterly Annual
- Units Reporting Emissions via an Approved Emissions Protocol (Rule 2.5(d))
- Reserved Certificate Transactions Quarterly
- GIS Certificate Statistics Quarterly
- Residual Mix including Reserved Certificates Quarterly
- NEPOOL Residual Mix Quarterly
- NEPOOL System Mix Quarterly
- State Emissions by Subaccount and Averaged per Certificate Quarterly Annual
- Banked Certificates Quarterly
- Retired Banked Certificates Quarterly
- Retired MA Qualified New Renewable Certificates
- Load Detail by Asset ID –
- Current GIS Billable Amount by Participant
- GIS Billable Load Detail by Asset ID

NEPOOL System Mix - System Mix By Fuel

(Contribution to 1 MWh of System Mix emissions from each Fuel in lbs/MWh)

Fuel	No. of Certificates	Percentage by Fuel	Carbon Dioxide	Carbon Monoxide	Mercury	Nitrogen Oxides	Particulates	Particulates (<10 microns)	Sulphur Dioxide	Organic Compounds
Biomass	275,584	0.7541	12.86563	0.03185	0	0.03335	0.01099	0.00789	0.00322	0.00157
Coal	5,371,529	14.69852	299.61331	0.08827	0.00002	0.36393	0.18593	0.05102	1.45171	0.00617
Diesel	802,830	2.19684	41.20575	0.00888	0	0.08995	0.04696	0.04694	0.71262	0.00188
Digester gas	5,208	0.01425	0.19792	0.0001	0	0.00016	0	0	0.00003	0.00002
Efficient Resource (Maine)	51,324	0.14044	4.3888	0.00772	0	0.02317	0.04354	0.01132	0.04803	0.00091
Fuel cell	2,780	0.00761	0.0799	0	0	0	0	0	0	0
Hydroelectric/Hydro power	1,042,772	2.85341	0	0	0	0	0	0	0	0
Jet	1,041,803	2.85076	53.15659	0.01051	0	0.11774	0.06085	0.06079	0.92273	0.00237
Landfill gas	112,438	0.30767	5.50203	0.01931	0	0.00504	0.00104	0.00081	0.00261	0.0008
Municipal solid waste	374,200	1.02395	20.61952	0.01594	0.00001	0.04537	0.10583	0.10382	0.01178	0.00051
Natural Gas	13,729,142	37.56808	388.1248	0.17556	0	0.50508	0.01808	0.01482	0.05368	0.01055
Nuclear	9,643,465	26.38813	0	0	0	0	0	0	0	0
Oil	3,153,897	8.63024	134.52925	0.13461	0	0.16426	0.0381	0.03495	1.16918	0.00343
Solar Photovoltaic	265	0.00073	0	0	0	0	0	0	0	0
Trash-to-energy	584,384	1.59909	45.64008	0.01066	0.00002	0.08344	0.23825	0.2378	0.01899	0.00053
Wind	2,269	0.00621	0	0	0	0	0	0	0	0
Wood	350,812	0.95995	14.64575	0.02827	0	0.02667	0.03151	0.02814	0.00136	0.00082
	36,544,702	100	1,020.57	0.53167	0.00006	1.45817	0.78108	0.59829	4.39595	0.02957

Import System Mix (Year: 2005 - Month: 7 certificate creation)										
	Control Area ↑↓	FuelList ↑↓	CO2 ↑↓	CO ↑ ↓	Hg ↑ ↓	NOx ↑ ↓	Particulates ↑ ↓	Fine Particulates ↑ ↓	SO2 ↑ ↓	Organic Compounds ↑ ↓
	New York System Mix	29% Natural Gas 22.7% Nuclear 18.1% Coal 17.3% Hydroelectric/Hydropower 10.8% Oil 1.6% Biomass 0.5% Other	978.47998	0.23000	0.00001	1.46000	0.03000	0.21000	4.13000	0.02000
	Quebec System Mix	93.97% Hydroelectric/Hydropower 3.56% Nuclear 0.85% Coal 0.71% Other 0.53% Natural Gas 0.38% Oil	31.64000	0.17000	0.00000	0.08000	0.05000	0.00000	0.19000	0.03000
	PJM System Mix	48.24% Coal 36.33% Nuclear 8.59% Natural Gas 3.74% Oil 1.25% Hydroelectric/Hydropower 1.2% Biomass 0.65% Other	1,217.93005	0.24000	0.00004	2.88000	0.04000	0.00000	9.14000	0.19000
	New Brunswick System Mix	34.03% Oil 25.58% Coal 24.25% Nuclear 16.14% Hydroelectric/Hydropower 0% Other 0% Natural Gas	1,400.64001	0.24000	0.00002	3.86000	0.19000	0.00000	14.54000	0.04000
	Ontario Hydro Power Pool	39.18% Nuclear 27.7% Hydroelectric/Hydropower 11.04% Coal 11.04% Natural Gas 11.04% Oil 0% Other	669.76001	0.21000	0.00001	1.25000	0.05000	0.00000	2.71000	0.03000
1 - 5 : 5										
← first ← prev goto next → last →→										

DISCLAIMER: NEITHER THE GIS ADMINISTRATOR NOR NEPOOL NOR THE SYSTEM OPERATOR NOR THE NEPOOL GIS PROJECT MANAGER KNOWS OR ENDORSES THE CREDITWORTHINESS OR REPUTATION OF ANY GIS ACCOUNT HOLDER LISTED IN THIS DIRECTORY

For More Information . . .

- MPUC home page

[**http://www.maine.gov/mpuc/**](http://www.maine.gov/mpuc/)

- GIS home page

[**http://www.nepoolgis.com/**](http://www.nepoolgis.com/)