



BWP AQ 31 Optional Greenhouse Gas Emissions Reporting Form for Retail Sellers of Electricity Instructions and Supporting Materials

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Introduction

MassDEP *Forms*, as well as *Instructions & Supporting Materials*, are available for download from the MassDEP Web site at mass.gov/dep in two file formats: Microsoft Word™ and Adobe Acrobat PDF™. Either format allows documents to be printed.

Instructions & Supporting Materials files in Microsoft Word™ format contain a series of documents that provide guidance on how to prepare a submittal.

Forms in Microsoft Word™ format must be downloaded separately. Users with Microsoft Word™ 97 or later may complete these forms electronically.

Submittal packages in Adobe Acrobat PDF™ format combine *Forms* and *Instructions & Supporting Materials* in a single document. Adobe Acrobat PDF™ files may only be viewed and printed without alteration. *Forms* in this format may not be completed electronically.



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1. What is the purpose of this submittal?

The purpose of this optional Form AQ 31 is to allow retail sellers subject to MassDEP regulation 310 CMR 7.71(9) “Reporting Requirements for Retail Sellers of Electricity” to account annually for the ownership and/or use of particular generation sources in reporting greenhouse gas (GHG) emissions released in the course of generating the electricity they sell. A separate form, BWP AQ 32 “Mandatory Greenhouse Gas Emissions Reporting Form for Retail Sellers of Electricity” will be posted for use in reporting annual GHG emissions. Form AQ 32 must be submitted by all retail sellers subject to MassDEP regulation 310 CMR 7.71(9), whether or not Form AQ 31 is submitted.

2. Who must submit?

This submission is optional. Only retail sellers that wish to account for the ownership and/or use of particular generation sources in reporting GHG emissions need to submit this Form. “Retail Seller” means a competitive supplier licensed by the Department of Public Utilities or, as each is defined in Massachusetts General Law (MGL) chapter 164A §1, an electric utility, municipal electric department or municipal light board.

3. What is the overall process for retail sellers to determine their GHG emissions?

Emission factors (EFs) will be posted by the Department for public comment each year. Draft emission factors will reflect draft average emission rates that do not account for ownership and/or use of particular generation sources. After accounting for submittals of this optional Form AQ 31, and any other comments received on the draft EFs, final EFs will be posted.

Final EFs will be used by retail sellers in determining their annual GHG emissions to be reported on BWP AQ 32 “Mandatory Greenhouse Gas Emissions Reporting Form for Retail Sellers of Electricity.” Retail sellers will determine GHG emissions (in short tons) by:

- multiplying:
 - their electricity sales (in megawatt hours, MWh)(less any non-emitting generation sources submitted on optional Form AQ 31) by
 - final EFs (in pounds of GHG per megawatt hour, lb GHG/MWh) by
 - 1 short ton per 2000 pounds
- and adding the emissions of any particular generation sources submitted on optional Form AQ 31.

4. What are the submittal deadlines for Form AQ 31?

Retail sellers wishing to submit optional Form AQ 31 information on the ownership and/or use of particular generation sources must do so no later than the first day of July after the calendar year in which the MWh were generated. Any verification must be submitted no later than the last day of December after the calendar year in which the MWh were generated.

5. How will this submittal be used?

Submittals of BWP AQ 31 “Optional Greenhouse Gas Emissions Reporting Form for Retail Sellers of Electricity” will be used for two purposes: to allow an individual retail seller to account for ownership and/or use of particular generation sources, and for the Department to modify the EFs used by retail sellers to determine their annual GHG emissions associated with MWh that are not reported on Form AQ 31.

Allowing individual retail sellers to make adjustments in their GHG reporting affects the EFs representing the remaining MWh consumed in Massachusetts. Specifically, once individual retail sellers “take credit” for MWh generated by particular generation sources, the draft EFs must be recalculated by the Department based on the emissions of the remaining MWh consumed in Massachusetts to ensure accuracy and avoid double counting. The final EFs to be used by retail sellers in determining annual GHG emissions will likely be higher than the draft EFs. This outcome is expected because most retail sellers choosing to submit Form AQ 31 will



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likely be reporting low- or non-emitting MWh, which will then be removed from the calculation of the final EFs to be used by retail sellers in determining GHG emissions associated with MWh consumed in Massachusetts that are not reported on Form AQ 31.

6. How do I decide whether I want to submit this optional form? Will submitting optional Form AQ 31 enable me to report lower GHG emissions on mandatory Form AQ 32?

Some retail sellers may wish to submit this form to account for all electricity for which they have a contract specifying supply from particular generating units. Other retail sellers may wish to report only those MWh which are non-emitting, as less information and documentation needs to be submitted for non-emitting generation than for emitting generation. Other retail sellers may choose not to submit Form AQ 31 at all, and simply calculate GHG emissions in Form AQ 32 using the final EFs published by MassDEP.

In general, if you use Form AQ 31 to report low- or non-emitting MWh, then the total GHG emissions that you report on Form AQ 32 will be lower than they would have been if you did not submit Form AQ 31. In fact, MassDEP expects that this difference will be the primary reason that retail sellers choose to submit Form AQ 31. However, because submitted AQ 31 forms will be used to adjust the draft EFs to final EFs (and it is the final EFs that will be used to determine the GHG emissions from MWh not reported on Form AQ 31), the full impact of a Form AQ 31 submittal on the final EFs is difficult to predict, and, therefore, it is difficult to predict the impact on any individual retail seller's GHG emissions reported on Form AQ 32.

7. What categories of ownership and/or use of particular generation sources can retail sellers subject to DOER's RPS provide in this optional submittal?

Generally, ownership and/or use is demonstrated by retail sellers subject to the Massachusetts Department of Energy Resources (DOER) Renewable Portfolio Standard (RPS) by retiring RPS-eligible certificates from the retail seller's account in the regional certificate tracking system¹. Additionally, for non-RPS-eligible MWh, such retail sellers must provide a contract showing purchase of electricity from the particular generation source.

More specifically, retail sellers subject to DOER's RPS may submit the following types of generation on Form AQ 31:

1. MWh used to comply with RPS;
2. MWh that are eligible for RPS but that were in excess of the amounts needed for compliance; the renewable energy certificates used to track ownership of the attributes of the MWh must also be retired from the retail seller's account in the regional certificate tracking system;
3. MWh that were not eligible to be used for compliance with RPS, provided that (1) the certificates used to track ownership of the attributes of the MWh have been retired from the retail seller's account in the regional certificate tracking system, and (2) the retail seller provides a contract showing that they bought the power from the particular power plant that generated it, if the retail seller does not own the plant; and/or
4. emitting MWh whose emissions are documented in Form AQ 31.

8. What categories of ownership and/or use of particular generation sources can municipal retail sellers provide in this optional submittal?

Generally, ownership and/or use is demonstrated by municipal retail sellers by providing:

1. a report from the owner's account in the regional certificate tracking system showing that the associated certificates were not used by others, and

¹ The regional certificate tracking system is called the New England Power Pool Generation Information System (GIS). The Operating Rules governing the tracking system can be found at http://www.nepoolgis.com/GeneralDoc/NEPOOL%20GIS%20Rules%20-%201_09.DOC.



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2. a contract showing purchase of electricity from the particular generation source for MWh generated by a source not owned by the retail seller.

More specifically, municipal retail sellers must submit documentation with the Form AQ 31 for certain MWh to show that:

1. the certificates used to track ownership of the attributes of the MWh in the regional certificate tracking system have not been used by another party²;
2. the municipal retail seller has contracted to purchase the power from the particular power plant that generated it,^{3,4} if the retail seller does not own the plant; and
3. the emissions from emitting MWh have been documented in Form AQ 31.

9. If I am a competitive supplier, where do I find my Massachusetts Department of Public Utilities (MassDPU) license number to enter in Part A of Form AQ 31?

The Massachusetts Department of Public Utilities (MassDPU) license number can be found at:
http://www.env.state.ma.us/DPU_FileRoom/frmElectricSuppliersSP.aspx.

10. Do I need to complete Parts B, C and D of Form AQ 31? Why are there separate sections for emitting and non-emitting generation?

If you choose to submit this form, you will need to complete Part B for any non-emitting MWh, Parts C and D for any emitting MWh, or both parts if appropriate. Different information is needed for emitting and non-emitting MWh.

11. If I am a municipal retail seller and I am submitting the optional AQ Form 31, which sections of my Annual Return to MassDPU must I submit, and in what format do I submit them?

A municipal retail seller that includes MWh for which it has contracted power must submit the “Purchased Power” pages 54 and 55 of their Annual Return. A municipal retail seller that includes MWh from generating stations which it owns must submit the “Generating Station Statistics (Large Stations)” pages 58 and 59 and/or the “Generating Station Statistics (Small Stations)” page 66, of their Annual Return, as appropriate. (The “Electric Energy Account” on page 57 of the Annual Return will be required as part of the documentation that municipal retail sellers will submit with Form AQ 32.)

The Annual Return pages should be submitted in electronic format, either as a spreadsheet or converted to a legible .pdf file. Please ensure that the Annual Return pages you send are the same as were sent to DPU.

12. Where do I get NEPOOL GIS reports required in Parts B and D of Form AQ 31, and in what format do I submit them?

Each competitive supplier or utility can get their “My Certificate Disposition” reports, showing settled certificates for the four calendar quarters of the year, from their account in the New England Power Pool Generation Information System (NEPOOL GIS) at <http://www.nepoolgis.com/>. Each owner of a generating

² While municipal electric departments and light boards document MWh generated by large and small stations they own on pages 58-59 line 12 and page 66 column (e), respectively, of the “annual return” they provide to the Massachusetts Department of Public Utilities (MassDPU), the values listed on the “annual return” can include MWh for which the municipality has sold the certificates representing the “clean” attribute of the power. Therefore, the Department cannot rely solely on the annual return to document such MWh.

³ While municipal electric departments and light boards document purchases of electricity on page 55 column (k) of the “annual return” they provide to the DPU, it is not obvious in all cases whether this electricity is from emitting or non-emitting electricity generators. Therefore, the Department cannot rely solely on the annual return to document such MWh.

⁴ While municipal electric departments and light boards document MWh generated by contracted power on the “annual return” they provide to the Massachusetts Department of Public Utilities (MassDPU), the values listed on the “annual return” can include MWh for which the owner or the municipality has sold the certificates representing the “clean” attribute of the power. Therefore, the Department cannot rely solely on the contract and the annual return to document such MWh



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unit connected to the New England electricity grid can get an Annual “Generator Certificate Disposition” report from their account in the NEPOOL GIS. Retail sellers submitting AQ31 may need to obtain these reports from the owner of the generating unit, as detailed in Questions 7 and 8 above.

These reports should be submitted in electronic spreadsheet format (which can be downloaded from NEPOOL GIS).

13. What “Fuel Code” do I use to complete Parts B and C of Form AQ 31?

Fuel codes to use are the same as used by units reporting to the United States Department of Energy’s Energy Information Administration (EIA) on the “Power Plant Operations” Form 923, as follows:

Fuel Code	Description
BIT	Anthracite Coal and Bituminous Coal
LIG	Lignite Coal
SUB	Sub-bituminous Coal
WC	Waste/Other Coal (includes anthracite culm, bituminous gob, fine coal, lignite waste, waste coal)
DFO	Distillate Fuel Oil (Diesel, No. 1, No. 2, and No. 4 Fuel Oils)
JF	Jet Fuel
KER	Kerosene
PC	Petroleum Coke
RFO	Residual Fuel Oil (No. 5, No. 6 Fuel Oils, and Bunker C Fuel Oil)
WO	Waste/Other Oil (including Crude Oil, Liquid Butane, Liquid Propane, Oil Waste, Re-Refined Motor Oil, Sludge Oil, Tar Oil, or other petroleum-based liquid wastes)
BFG	Blast Furnace Gas
NG	Natural Gas
OG	Other Gas (specify)
PG	Gaseous Propane
SG	Synthetic Gas
SGC	Coal-Derived Synthetic Gas
NUC	Nuclear Fission (Uranium, Plutonium, Thorium)

Fuel Code	Description
MSB	Municipal Solid Waste – Biogenic component
OBS	Other Biomass Solids (specify)
TDF	Tire-derived Fuels
WDS	Wood/Wood Waste Solids (paper pellets, railroad ties, utility poles, wood chips, bark, and other wood waste solids)
OBL	Other Biomass Liquids (specify)
BLQ	Black Liquor
SLW	Sludge Waste
WDL	Wood Waste Liquids excluding Black Liquor (BLQ) (Includes red liquor, sludge wood, spent sulfite liquor, and other wood-based liquids)
LFG	Landfill Gas
OBG	Other Biomass Gas (includes digester gas, methane, and other biomass gases) (specify)
GEO	Geothermal
WAT	Water at a Conventional Hydroelectric Turbine
SUN	Solar
WND	Wind
WAT-HPS	Hydroelectric Pumped Storage or Compressed Air Units
OTH	Other (specify)
MSN	Municipal Solid Waste – Non-biogenic components



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14. What documentation do I need to submit to show the calculation of GHGs from emitting MWh in Parts C and D of Form AQ 31?

This documentation should show how you determined the emissions you entered on Form AQ 31 Part C. For example, the documentation may include quantity of fuel combusted, fuel heat content, carbon content of fuel, carbon emission rate, etc. The documentation should indicate the source of each piece of information used to determine emissions (e.g., fuel sampling, stack test(s), emission factor(s) published by EPA in a specified document, etc.). Documentation must be submitted in electronic spreadsheet form, so that calculations are transparent. If possible, emissions should be quantified in accordance with The Climate Registry’s General Reporting Protocol. The General Reporting Protocol is available for download at <http://www.mass.gov/dep/air/climate/reporting.htm>.

Emissions must be broken out by fuel (see Form AQ 31 for list of fuel types). In particular:

- N₂O and CH₄ emissions must be reported for all fuels. These emissions are not considered biogenic, even if they result from the combustion of biomass.
- Non-biogenic CO₂ emissions must be reported for fossil fuels, including the non-biogenic component of emissions that result from combustion of municipal waste.
- Biogenic CO₂ emissions must be reported for biomass, liquid biofuels, landfill and digester gas, black liquor, the biogenic component of municipal waste, and any other biomass-derived fuel.

If completing Parts C and D, please use the following table for further guidance on the type of documentation to submit.

		Retail seller using all MWh from stationary emission source, and source not Combined Heat and Power?	
		Yes	No
Stationary emission source reporting CO ₂ in accordance with 40 CFR Part 75?	Yes	Category I: Use CO ₂ emissions reported in accordance with 40 CFR Part 75 and provide documentation of calculation of CH ₄ and N ₂ O emissions	Category III: Provide documentation of calculation of a portion of CO ₂ emissions reported in accordance with 40 CFR Part 75 and provide documentation of calculation of CH ₄ and N ₂ O emissions
	No	Category II: Provide documentation of calculation of CO ₂ , CH ₄ and N ₂ O emissions	Category IV: Provide documentation of calculation of CO ₂ , CH ₄ and N ₂ O emissions

If you are reporting emissions from a Part 75 unit that co-fires biomass, please contact Sue Ann Richardson at 617-348-4098 to discuss your documentation, before submitting Form AQ 31.

15. How do I verify my emissions from emitting sources listed in Parts C and D of Form AQ 31?

As per 310 CMR 7.71(9)(d)6.d.iii, verification of emissions from particular stationary emission sources listed on AQ 31 is required. If the emissions you report on Form AQ 31 are from a stationary emission source that reported under the facility reporting requirements of 310 CMR 7.71(5) or (8), then verification will be conducted under 310 CMR 7.71(7). If the emissions you report on Form AQ 31 are from a stationary emission source that did not report under the facility reporting requirements of 310 CMR 7.71(5) or (8), you should be aware that it will be necessary to hire an approved verification body to verify emissions from these units. Verification of emissions is due by December 31st of the year following the emissions year.

Verification bodies are accredited to verify that emissions are quantified in accordance with The Climate Registry’s General Reporting Protocol. A list of MassDEP-recognized GHG verification bodies can be found on the Department’s website at: <http://www.mass.gov/dep/air/climate/verifiers.htm>.



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16. In what format and where do I send my BWP AQ 31 “Optional Greenhouse Gas Emissions Reporting Form for Retail Sellers of Electricity”?

Submit electronic copies of signed Form AQ 31 and any supporting materials in Word or Adobe format (for non-spreadsheets) and spreadsheet format (to show calculations) to MassDEP by email to: sue.ann.richardson@state.ma.us.

You are not required to submit a hardcopy of Form AQ 31 or supporting documents, but if you choose to do so, submit one hardcopy of all materials to: Massachusetts Department of Environmental Protection, Bureau of Waste Prevention, 1 Winter Street, Boston, MA 02108, Attn: Sue Ann Richardson.

17. What are the reporting fees and timelines?

Reporting under BWP AQ 31 “Optional Greenhouse Gas Emissions Reporting Form for Retail Sellers of Electricity” is not subject to 310 CMR 4.00 and therefore is not subject to fees and review timelines established under that regulation as of May 1, 2012.

18. What is the annual compliance fee?

As of May 1, 2012 there is no annual compliance fee specifically for this program.

19. What are the regulations that apply to these submittals? Where can I get copies?

The applicable regulations include, but are not limited to:

Massachusetts Air Quality Regulations, 310 CMR 7.00. The specific requirement for retail electricity sellers to report greenhouse gas emissions is at 310 CMR 7.71(9).

The state regulations may be purchased at:

State Bookstore (in State House)
Room 116
Boston, MA 02133
617-727-2834

State House West Bookstore
436 Dwight Street, Room 102
Springfield, MA 01103
413-784-1376

An unofficial copy of these regulations may also be obtained at <http://www.mass.gov/dep/air/laws/regulati.htm>



Massachusetts Department of Environmental Protection
Bureau of Waste Prevention – Air Quality

**BWP AQ 31 Optional Greenhouse Gas Emissions
Reporting Form for Retail Sellers of Electricity
Submittal Completeness Check List**

- All applicable questions on Form AQ 31 have been answered.
- The retail seller's responsible official has signed Part E.
- For municipal retail sellers: A copy of the "Purchased Power" pages (54 & 55), "Generating Station Statistics (Large Stations)" pages (58 & 59) and/or the "Generating Station Statistics (Small Stations)" page 66 of the Annual Return to DPU has been included with the submittal, as appropriate.
- All applicable attachments required in Parts B, C and D have been included in the submittal.
- If submitting a hardcopy, one original (to submit) and one copy (for your records) have been made of all of the required hardcopy materials.
- Electronic copies have been made of Form AQ 31 and any supporting materials in Word or Adobe format (for non-spreadsheets) and spreadsheet format (to show calculations).

To submit Form AQ 31:

- Submit electronic copies of signed Form AQ 31 and any supporting materials in Word or Adobe format (for non-spreadsheets) and spreadsheet format (to show calculations) to MassDEP by email to: sue.ann.richardson@state.ma.us.
- You are not required to submit a hardcopy of Form AQ 31 or supporting documents, but if you choose to do so, submit one hardcopy of all materials to:

Department of Environmental Protection
Bureau of Waste Prevention
1 Winter Street
Boston, MA 02108
Attn: Sue Ann Richardson

Note that as of May 1, 2012 there is no fee associated with this report.



Massachusetts Department of Environmental Protection

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Optional Greenhouse Gas Emissions Reporting Form for Retail Sellers of Electricity

A. Basic Information

Important:

When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



Retail Seller Company/Organization Information:

Company/Organization Name

Mailing Address

City/Town State ZIP Code

http://

Web Site

Type of Retail Seller (check one):

- Competitive Supplier/Electric Utility (Complete Field Below if Competitive Supplier)
- Municipal Electric Department/Light Board

Massachusetts Department of Public Utilities License #

Retail Seller Contact Person:

Contact Person Name Contact Person Title

Mailing Address

City/Town State ZIP Code

Telephone Number Fax Number Email Address

Alternate Contact Person (optional):

Contact Person Name Contact Person Title

Mailing Address

City/Town State ZIP Code

Telephone Number Fax Number Email Address

Electricity Generation & Greenhouse Gas Emissions Summary:

Summarize total megawatt hours (MWh) and total short tons of greenhouse gases (GHGs) in carbon dioxide equivalents (CO₂e) as detailed in Parts B and C of this form.

Note: The sum of the MWh from Parts B and C must not exceed the total MWh sold to customers.

Emissions Year	Total Non-Emitting MWh (From Part B of This Form)	Total Emitting MWh (From Part C of This Form)	Emitting Short Tons CO ₂ e (From Part C of This Form)

Please note that the final Emission Factors (EFs) provided to all retail sellers in the BWP AQ 32 Mandatory Greenhouse Gas Emissions Reporting Form for Retail Sellers of Electricity will be determined based on the draft EFs and information submitted in BWP AQ 31 Optional Greenhouse Gas Emissions Reporting Form for Retail Sellers of Electricity. Your company/organization will need to submit a BWP AQ 32 Mandatory Form within 30 days of MassDEP posting final EFs on its web site whether or not you submit a BWP AQ 31 Optional Form first.



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B. Non-Emitting Megawatt Hours (MWh)

Provide a breakdown of Total Non-Emitting MWh reported.

State/Province Where MWh Were Generated	Total Non-Emitting MWh	State/Province Where MWh Were Generated	Total Non-Emitting MWh
Massachusetts		Vermont	
Connecticut		New York	
Maine		New Brunswick	
New Hampshire		Quebec	
Rhode Island		Other:	
Total Non-Emitting MWh for Part B			

Complete if a Competitive Supplier/Electric Utility:

Amount of Non-Emitting MWh (total must equal Total Non-Emitting MWh above)	Type of MWh	Documentation Required
	Massachusetts Department of Energy Resources (DOER) Renewable Portfolio Standard (RPS) eligible	New England Power Pool Generation Information System (NEPOOL GIS) "My Certificate Disposition" reports for the four calendar quarters of the year
	Not RPS eligible and retired from Retail Seller's NEPOOL GIS subaccount; Retail Seller has contract for the electricity	1. Enter each unit's MWh in table on Page 3 2. NEPOOL GIS "My Certificate Disposition" reports for the four calendar quarters of the year 3. Copies of contract(s)

Complete if a Municipal Electric Department/Light Board:

Amount of Non-Emitting MWh (total must equal Total Non-Emitting MWh above)	Type of MWh	Documentation Required
	From a municipally-owned generator	1. NEPOOL GIS Annual "Generator Certificate Disposition" report showing Unsettled Certificates whose attributes were aggregated in Residual Mix Certificates 2. "Generating Station Statistics (Large Stations)" pages 58 & 59 and/or "Generating Station Statistics (Small Stations)" page 66 from Annual Return to DPU, as appropriate
	From a generator that the municipality does not own but for which it has a contract for the electricity	1. Enter each unit's MWh in table on Page 3 2. NEPOOL GIS Annual "Generator Certificate Disposition" report showing Unsettled Certificates whose attributes were aggregated in Residual Mix Certificates 3. Copies of contract(s) 4. "Purchased Power" pages 54 & 55 from Annual Return to DPU



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B. Non-Emitting Megawatt Hours (MWh) (continued)

Complete if a Retail Seller submitting a contract to document Non-Emitting MWh. **Attach copy of contract.**

Note: Use the same Fuel Codes as when reporting to the U.S. Department of Energy / Energy Information Administration (EIA) on Power Plant Operations Form 923. See instructions for a list.

Municipalities Note: Round Annual Return kWh values to MWh.

Municipalities Note: Any pages of your Annual Return listed here **must** be attached to this form.

Facility Name & Unit Number(s)	State/Province	ISO Resource ID (MSS, NON or IMP #)	Municipal Annual Return to DPU Attached (from "Purchased Power": a. line #(s) from pages 54 & 55 that include Resource; b. name(s) from Column (a) of page 54 (e.g., Project 1); c. total MWh for Resource from column (k) on Page 55.)	Fuel Code	MWh (Municipalities: MWh must not be greater than total MWh shown in item c. at left.)
			a. b. c.		
			a. b. c.		
			a. b. c.		
			a. b. c.		
			a. b. c.		
			a. b. c.		
			a. b. c.		

Continue to Part C. Emitting Megawatt Hours (MWh) & Emissions ►



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C. Emitting Megawatt Hours (MWh) & Emissions

The table below summarizes the calculations performed to determine Emitting MWh and corresponding GHG Emissions. You must complete this table only if your company/organization is seeking to account for the ownership or use of particular Emitting MWh. The Emitting MWh and Emissions reported in Part A are from the following stationary emission sources:

Row ID	Facility Name & Unit Number(s)	State/Province	ISO Resource ID (MSS, NON or IMP #)	MA AQ ID (if MA facility)	Fuel Code (One row per fuel type per unit)	MWh (Munis: MWh must not be greater than MWh shown on Annual Return)	Non-Biogenic CO ₂ (Short tons)	CH ₄ (Short tons CO ₂ e)	N ₂ O (Short tons CO ₂ e)	Non-Biogenic CO ₂ e (Sum of blue columns in short tons CO ₂ e)	Biogenic CO ₂ (Short tons)
1											
2											
3											
4											

Notes for Completing This Table:

- If MWh are from a facility located in Massachusetts, provide the Air Quality (AQ) ID number assigned to the facility.
- Use the same Fuel Codes as when reporting to the U.S. Department of Energy / Energy Information Administration (EIA) on Power Plant Operations Form 923. See instructions for a list.
- Nitrous oxide (N₂O) and methane (CH₄) emissions must be reported for all fuels.
- Non-biogenic CO₂ emissions must be reported for fossil fuels.
- Biogenic CO₂ emissions must be reported for biogenic fuels, such as biomass, landfill gas, and black liquor.
- Non-biogenic CO₂ emissions must be reported for the non-biogenic component of Municipal Waste.
- Biogenic CO₂ emissions must be reported for the biogenic component of Municipal Waste.

Continue to Part D. Stationary Emission Source Documentation & Categorization ►



D. Stationary Emission Source Documentation & Categorization

Stationary Emission Source Documentation Table for all Retail Sellers

Any Competitive Supplier/Electric Utility seeking to account for the ownership and/or use of particular Emitting MWh must submit the "Annual Account Holder Report" from its NEPOOL GIS account at <http://www.nepoolgis.com>. All Retail Sellers seeking to account for the ownership and/or use of particular Emitting MWh must also complete the table below, indicating which additional information is attached to this form for each unit.

Note: Please see verification information on next page if the emission source is **NOT** reporting GHGs under 310 CMR 7.71(5) or (8).

Municipalities Note: Round Annual Return kWh values to MWh.

Municipalities Note: Any pages of your Annual Return listed here **must** be attached to this form.

Stationary Emission Source Information (Please be sure that unit Row IDs match with the table in C.)		Contract vs. Unit Ownership				Calculation Documentation
		Municipal Electric Department/ Light Board Only (Complete only one column for each unit & attach the appropriate page(s) of your Annual Return & attach the NEPOOL GIS "Annual Account Holder Report")		Competitive Supplier/ Electric Utility Only (Complete one column for each unit & attach your NEPOOL GIS "Annual Account Holder Report")		All Retail Sellers
Row ID	Source reports GHGs under 310 CMR 7.71 (5) or (8)? (If 'No' then emissions in table in C must be verified by Dec. 31)	Municipality does not own source. Attach Contract & "Purchased Power" (pages 54 & 55) from Annual Return. Enter below: a. line #(s) from pages 54 & 55 that include source b. MWh from column (k).	Municipality owns source. Attach Generating Station Statistics (pages 58 & 59 for Large or page 66 for Small) from Annual Return. Enter below: a. Identify Large Source with Page & Column(s) or Small Source with Page & line#(s) b. MWh: Large from line 12 or Small from column (e).	Retail Seller owns source, or MWh are RPS-eligible.	Retail Seller does not own source and MWh are not RPS-eligible. Contract Attached (List contract page number(s) that identify: a. Retail Seller, b. Stationary Emission Source & c. Quantity of electricity purchased.)	Identify Category (I, II, III or IV) from Table Below & Attach Required Documentation
1	<input type="checkbox"/> Yes <input type="checkbox"/> No	a. b.	a. b.	<input type="checkbox"/>	a. b. c.	
2	<input type="checkbox"/> Yes <input type="checkbox"/> No	a. b.	a. b.	<input type="checkbox"/>	a. b. c.	
3	<input type="checkbox"/> Yes <input type="checkbox"/> No	a. b.	a. b.	<input type="checkbox"/>	a. b. c.	
4	<input type="checkbox"/> Yes <input type="checkbox"/> No	a. b.	a. b.	<input type="checkbox"/>	a. b. c.	



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D. Stationary Emission Source Documentation & Categorization (continued)

Stationary Emission Source Calculation Category Table

Use this table to determine which category to list in the last column of the table above. Attach documentation to show calculation of emissions (e.g., from quantity of fuel combusted, fuel heat content, carbon content of fuel, carbon emission rate, etc.) and indicate the source of each piece of information used (e.g., fuel sampling, stack test(s), emission factor(s) published by EPA or The Climate Registry in a specified document, etc.).

		Retail Seller using all MWh from stationary emission source that is not Combined Heat and Power?	
		Yes	No
Stationary emission source reporting CO₂ in accordance with 40 CFR Part 75?	Yes	Category I: Use CO ₂ emissions reported per 40 CFR Part 75 and provide documentation of calculation of CH ₄ and N ₂ O emissions	Category III: Provide documentation of calculation of a portion of CO ₂ emissions reported per 40 CFR Part 75 and provide documentation of calculation of CH ₄ and N ₂ O emissions
	No	Category II: Provide documentation of calculation of CO ₂ , CH ₄ and N ₂ O emissions	Category IV: Provide documentation of calculation of CO ₂ , CH ₄ and N ₂ O emissions

Stationary Emission Sources and Emissions Verification

If the stationary emission source is reporting greenhouse gas emissions under 310 CMR 7.71(5) or (8) then no further verification of emissions is required. If the stationary emission source does NOT report greenhouse gas emissions under 310 CMR 7.71(5) or (8) then verification by a MassDEP-recognized GHG verification body of any greenhouse gas emissions reported in Parts C and D is required. Verification is due by December 31st of the year after the calendar year in which the megawatt hours were generated. A list of MassDEP-recognized GHG verification bodies can be found on the Department's website at: <http://www.mass.gov/dep/air/climate/reporting.htm>.

Continue to Part E. Certification Statement ►



Massachusetts Department of Environmental Protection

Bureau of Waste Prevention

BWP AQ 31

Optional Greenhouse Gas Emissions Reporting Form for Retail Sellers of Electricity

E. Certification Statement

Note: "The authorized signature...of the responsible official of the entity subject to the requirement to report greenhouse gas emissions in accordance with 310 CMR 7.71(9)" is required by 310 CMR 7.71(9)(e)3.

"I certify that I have personally examined the optional greenhouse gas emissions report I am submitting and am familiar with the information contained in that report and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including possible fines and imprisonment."

Authorized Signature

Printed Name

Title

Date Signed (MM/DD/YYYY)

Source of Signatory Authority:

If a Corporation:

- President
- Secretary
- Treasurer
- Vice President (if authorized by corporate vote)
- Representative of the above (if authorized by corporate vote and if responsible for overall operation of the facility)

If a Partnership:

- General Partner

If a Sole Proprietorship:

- Proprietor

If a Municipality or Public Agency:

- Principal Executive Officer
- Ranking Elected Official (empowered to enter into contracts on behalf of the municipality or public agency)