



Massachusetts Department of Environmental Protection
 Bureau of Waste Prevention – Climate Strategies
Application for Award of Early Reduction CO₂ Allowances

Facility AQ Identification Number _____

The purpose of this form is to allow CO₂ budget sources to apply for Early Reduction Allowances (ERAs) pursuant to 310 CMR 7.70(5)(c)2. See Section H (Filing Instructions) for additional information on submitting this form. To be eligible to receive ERAs, the CO₂ budget authorized account representative must submit this form by May 1, 2009.

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



A. Facility Information

1. Facility Name & Location:

Facility Name _____

Facility Street Address Line 1 _____

Facility Street Address Line 2 _____

City/Town _____ State _____ Zip Code _____

2. Mailing Address & Contact Person

Facility Mailing Address / P.O. Box Line 1 _____

Facility Mailing Address / P.O. Box Line 2 _____

City/Town _____ State _____ Zip Code _____

Contact Person First Name _____ Contact Person Last Name _____

Contact Person Telephone _____ Contact Person Email _____

3. CO₂ Allowance Tracking System (COATS) Compliance Account Information

Compliance Account Name _____ Compliance Account Number _____

Filing Deadline:
 To be eligible to receive ERAs, the CO₂ budget authorized account representative must submit this form by May 1, 2009.

B. CO₂ Budget Unit Information

1. Baseline Period

List **all** CO₂ budget units that existed at the source during the baseline period (2003, 2004 and 2005)

2003: _____

2004: _____

2005: _____



B. CO₂ Budget Unit Information (continued)

2. Early Reduction Period

List all CO₂ budget units that existed at the source during the early reduction period (2006, 2007 and 2008)

2006: _____

2007: _____

2008: _____

C. Data Source Information

310 CMR 7.70(5)(C)2. indicates that an application shall include: a demonstration that the data submitted in support of the ERA application is consistent with 310 CMR 7.70(8) for all of the baseline years and the early reduction years or a petition to the Department for the use of an alternative data source or sources for the calculation of Early Reduction CO₂ Allowances. Please check the appropriate box below indicating the source of the data supporting your application.

- The data submitted in support of the ERA application is consistent with 310 CMR 7.70(8) for all of the baseline years and the early reduction years.
- A petition to the Department for the use of an alternative data source or sources for the calculation of Early Reduction CO₂ Allowances is attached.

D. Early Reduction Allowance Calculation

All CO₂ budget sources must complete Numbers 1 and 2 below to apply for ERAs.

1. CO₂ Emissions from all CO₂ budget units at the CO₂ budget source (Shorts Tons CO₂)

Baseline Period: (2003, 2004 & 2005)	_____	Early Reduction Period: (2006, 2007 & 2008)	_____
	Total Short Tons CO ₂		Total Short Tons CO ₂

2. Heat input to all CO₂ budget units at the CO₂ budget source (MMBtu)

Baseline Period: (2003, 2004 & 2005)	_____	Early Reduction Period: (2006, 2007 & 2008)	_____
	Total MMBtu		Total MMBtu

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D. Early Reduction Allowance Calculation (continued)

If total heat input to all CO₂ budget units at the CO₂ budget source during the early reduction period is greater than or equal to the total heat input to all the CO₂ budget units at the CO₂ budget source during the baseline period, then:

$$ERAs = E_{BASELINE} - E_{ERP}$$

where:

“E_{BASELINE}” are total CO₂ emissions during the baseline period from the all of the CO₂ budget units at the CO₂ budget source (in tons)

and:

“E_{ERP}” are total CO₂ emissions during the early reduction period from the all of the CO₂ budget units at the CO₂ budget source (in tons).

(If you are able to calculate the number of ERAs using the equation above, then you may skip Numbers 3 through 6 and continue to Section E.)

Otherwise, if total heat input to all CO₂ budget units at the CO₂ budget source during the early reduction period is less than or equal to the total heat input to all the CO₂ budget units at the CO₂ budget source during the baseline period, then the CO₂ budget source must complete Numbers 3 through 6 below to apply for ERAs.

3. Total net electric energy output from all CO₂ budget units at the CO₂ budget source (MWhe)

Baseline Period: (2003, 2004 & 2005)	_____	Early Reduction Period: (2006, 2007 & 2008)	_____
	Total MWhe		Total MWhe

4. Total useful thermal energy output from all CO₂ budget units at the CO₂ budget source (MMBtu)

Baseline Period: (2003, 2004 & 2005)	_____	Early Reduction Period: (2006, 2007 & 2008)	_____
	Total MMBtu		Total MMBtu

5. Average CO₂ emissions rate resulting from electric energy output and thermal energy output during the baseline period for all of the CO₂ budget units at the CO₂ budget source (Pounds of CO₂/MWh_{th+e})

AEER_{BASELINE}: _____
 Pounds CO₂/MWh_{th+e}

6. Average CO₂ emissions rate resulting from electric energy output and thermal energy output during the early reduction period for all of the CO₂ budget units at the CO₂ budget source (pounds of CO₂/MWh_{th+e})

AEER_{ERP}: _____
 Pounds CO₂/MWh_{th+e}

If total heat input to all CO₂ budget units at the CO₂ budget source during the early reduction period is less than or equal to the total heat input to all the CO₂ budget units at the CO₂ budget source during the baseline period, then ERAs shall be calculated as follows:

$$ERAs = ((AEER_{BASELINE} - AEER_{ERP}) \times (EO_{ERP} + (TO_{ERP}/3.413)))/2000$$

where:

“AEER_{BASELINE}” is the average CO₂ emissions rate resulting from electric energy output and thermal energy output during the baseline period for all of the CO₂ budget units at the CO₂ budget source (in pounds of CO₂/MWh_{th+e});

“AEER_{ERP}” is the average CO₂ emissions rate resulting from electric energy output and thermal energy output during the early reduction period for all of the CO₂ budget units at the CO₂ budget source (in pounds of CO₂/MWh_{th+e});

“EO_{ERP}” is the total electric energy output during the early reduction period from all CO₂ budget units at the CO₂ budget source (in MWh_e); and,

“TO_{ERP}” is the total useful thermal energy output during the early reduction period from all CO₂ budget units at the CO₂ budget source (in MMBtu).

For the purposes of 310 CMR 7.70(5)(c)2., thermal energy output shall be converted to units of MWh by the conversion factor 1 MWh = 3.413 MMBtu. For the purposes of 310 CMR 7.70(5)(c)2., output shall be monitored in accordance with 310 CMR 7.70(8).

E. Attachments

Attach completed calculations that include, for the baseline period and the early reduction period, all units that existed at any time during the baseline period and the early reduction period. Include in this attachment all information necessary to calculate the number of ERAs to be awarded to a particular CO₂ budget source for the early reduction period.

F. Total Early Reduction Allowances

Total Number of ERAs for Which You are Applying: _____

Number

G. Certification

"I certify that I was selected as the CO₂ authorized account representative or alternate CO₂ authorized account representative, as applicable, by an agreement binding on the owners and operators of the CO₂ budget source and each CO₂ budget unit at the source. I certify that I have all the necessary authority to carry out my duties and responsibilities under the CO₂ Budget Trading Program on behalf of the owners and operators of the CO₂ budget source and of each CO₂ budget unit at the source and that each such owner and operator shall be fully bound by my representations, actions, inactions, or submissions and by any decision or order issued to me by the Department or a court regarding the source or unit."

Signature CO₂ Authorized Account Representative

Printed Name of CO₂ Authorized Account Representative

Date (MM/DD/YYYY)

"I am authorized to make this submission on behalf of the owners and operators of the CO₂ budget sources or CO₂ budget units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment."

H. Filing Instructions

Submit this form via the RGGI CO₂ Allowance Tracking System (COATS, available at <https://rggi-coats.org/eats/rggi/>) between **April 24, 2009**, and **May 1, 2009**. Questions about this form and how to submit it should be directed to Loreen Kelley at loreen.kelley@state.ma.us or 617-574-6815.

Filing Deadline: To be eligible to receive ERAs, the CO₂ budget authorized account representative must submit this form by **May 1, 2009**.