



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

CPA-FUEL (BWP AQ 02 Non-Major, BWP AQ 03 Major)
Comprehensive Plan Application for Fuel Utilization Emission Unit(s)

Transmittal Number _____

Facility ID (if known) _____

Use this form for:

- Boilers firing Natural Gas and having a heat input capacity of 40,000,000 British Thermal Units per hour (Btu/hr) or more.
- Boilers firing Ultra Low Sulfur Distillate Fuel Oil and having a heat input capacity of 30,000,000 Btu/hr or more.
- Emergency turbines with a rated power output of more than 1 Megawatt (MW) and/or in lieu of complying with 310 CMR 7.26(43) for engines or turbines as described at 310 CMR (43)2 and 3.
- Other Fuel Utilization Units as specified at 310 CMR 7.02(5)(a)2. See the instructions for a complete list.

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



Type of Application: BWP AQ 02 Non-Major CPA BWP AQ 03 Major CPA

A. Facility Information

1. Facility Name _____
2. Street Address _____
3. City _____ 4. State MA 5. ZIP Code _____
6. MassDEP Account # / FMF Facility # (if Known) _____ 7. Facility AQ # / SEIS ID # (if Known) _____
8. Standard Industrial Classification (SIC) Code _____ 9. North American Industry Classification System (NAICS) Code _____
10. Are you proposing a new facility? Yes No - If Yes, skip to Section B.

11. List ALL existing Air Quality Plan Approvals, Emission Cap Notifications, and 310 CMR 7.26 Compliance Certifications and associated facility-wide emission caps, if any, for this facility in the table below. If you hold a Final Operating Permit for this facility, you may leave this table blank.

Table 1			
Approval Number(s)/ 25% or 50% Rule/ 310 CMR 7.26 Certification	Transmittal Number(s) (if Applicable)	Air Contaminant (e.g. CO, CO ₂ , NO _x , SO ₂ , VOC, HAP, PM or Other [Specify])*	Existing Facility-Wide Emission Cap(s) Per Consecutive 12-Month Time Period (Tons)

*CO = carbon monoxide, CO₂ = carbon dioxide, NO_x = nitrogen oxides, SO₂ = sulfur dioxide, VOC = volatile organic compound
HAP = hazardous air pollutant, PM = particulate matter, specify if "Other"



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A. Facility Information (continued)

12. Will this proposed project result in an increase in any facility-wide emission cap(s)? Yes No

If Yes, describe:

B. Equipment Description

Note that per 310 CMR 7.02, MassDEP can issue a Plan Approval only for proposed Emission Unit(s) with air contaminant emissions that are representative of Best Available Control Technology (BACT). See Section D: Best Available Control Technology (BACT) Emissions and the MassDEP BACT Guidance.

1. Is this proposed project modifying previously approved equipment? Yes No

If Yes, list pertinent Plan Approval(s):

2. Is this proposed project replacing previously approved equipment? Yes No

If Yes, list pertinent Plan Approval(s):

3. Provide a description of the proposed project, including relevant parameters (including but not limited to operating temperature and pressure) and associated air pollution controls, if any:

Netting & Offsets

4. Is netting being used to avoid 310 CMR 7.00: Appendix A? Yes* No

*If Yes, attach a description of contemporaneous increases and decreases in applicable potential (or allowable) nonattainment pollutant emissions over a period of the most recent five (5) calendar years, including the year that the proposed project will commence operating. For each emission unit, this description must include: a description of the emission unit, the year it commenced operation or was removed from service, any associated MassDEP-issued Plan Approval(s), and its potential (or allowable) nonattainment pollutant emissions. In any case, a proposed project cannot "net out" of the requirement to submit a plan application and comply with Best Available Control Technology (BACT) pursuant to 310 CMR 7.02.

5. Is the proposed project subject to 310 CMR 7.00: Appendix A Nonattainment Review? Yes* No – Skip to 6

*If Yes, pursuant to 310 CMR 7.00: Appendix A(6), federally enforceable emission offsets, such as Emission Reduction Credits (ERCs), must be used for this part of the application. Complete Table 2 on the next page to summarize either the facility providing the federally enforceable emission offsets, or what is being shut down, curtailed or further controlled at this facility to obtain the required emission offsets. Emission offsets must be part of a federally enforceable Plan Approval to be used for offsetting emission increases in applicable nonattainment pollutants or their precursors.



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B. Equipment Description (continued)

Note: Complete this table if you answered Yes to Question 5. Otherwise, skip to Question 6.

Table 2					
Source of Emission Reduction Credits (ERCs) or Emission Offsets	Transmittal No. of Plan Approval Verifying Generation of ERCs, if Any	Air Contaminant	Actual Baseline Emissions (Tons per Consecutive 12-Month Time Period) ¹	New Potential Emissions ² (Tons per Consecutive 12-Month Time Period After Control)	ERC ³ or Emission Offsets, Including Offset Ratio & Required ERC Set Aside (Tons per Consecutive 12-Month Time Period)

¹ Actual Baseline Emissions means the average actual emissions for the source of emission credits or offsets in the previous two years (310 CMR 7.00: Appendix A).
² New Potential Emissions means the potential emissions for the source of emission credits or offsets after project completion (310 CMR 7.00: Appendix A).
³ Emission Reduction Credit (ERC) means the difference between Actual Baseline and New Potential Emissions, including an offset ratio of 1.26:1 (310 CMR 7.00: Appendix B(3)).

6. Complete the table below to summarize the details of the proposed project.

Note: For additional information, see the instructions for a link to the MassDEP BACT Guidance.

Table 3				
Facility-Assigned Identifying Number for Proposed Equipment (Emission Unit No.)	Description of Proposed Equipment Including Manufacturer & Model Number or Equivalent (e.g. Acme Boiler, Model No. AB500)	Manufacturer's Maximum Heat Input Rating in Btu/hr	Proposed Primary Fuel	Proposed Back-Up Fuel (if Any)
<input type="checkbox"/> New <input type="checkbox"/> Modified				
<input type="checkbox"/> New <input type="checkbox"/> Modified				
<input type="checkbox"/> New <input type="checkbox"/> Modified				
<input type="checkbox"/> New <input type="checkbox"/> Modified				



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B. Equipment Description (continued)

7. Complete the table below to summarize the burner details if the proposed project includes boiler(s).

Note: For additional information, see the instructions for a link to the MassDEP BACT Guidance.

Table 4				
Emission Unit No.	Burner Manufacturer & Model Number or Equivalent (e.g. Acme Burner, Model No. AB300)	Manufacturer's Maximum Firing Rate (Gallons per Hour or Cubic Feet per Hour)	Type of Burner (e.g. Ultra Low NOx Burner)	Is Emission Unit Equipped with Flue Gas Recirculation?
				<input type="checkbox"/> Yes <input type="checkbox"/> No
				<input type="checkbox"/> Yes <input type="checkbox"/> No
				<input type="checkbox"/> Yes <input type="checkbox"/> No
				<input type="checkbox"/> Yes <input type="checkbox"/> No

8. Complete the table below if the proposed project includes turbine(s).

Table 5		
Emission Unit No.	Maximum Firing Rate (Gallons per Hour or Cubic Feet per Hour)	Maximum Output Rating (Megawatts [MW] or Kilowatts [kW]; Indicate Unit of Measure)

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B. Equipment Description (continued)

9. Are you proposing an Air Pollution Control Device (PCD)? Yes* No

*If Yes, complete the table below to summarize the details of each PCD being proposed.

Note: If you are proposing one or more Air Pollution Control Devices (PCDs), you must also submit the applicable Supplemental Form(s). See Page 6 for additional information.

Table 6a			
Description of Proposed PCD	Emission Unit No(s). Served by PCD	Air Contaminant(s) Controlled	Overall Control (Percent by Weight)
<input type="checkbox"/> New <input type="checkbox"/> Existing		VOC	
		CO	
		PM ¹	
		NO _x	
		NH ₃	
		Other:	

¹ PM includes particulate matter having a diameter of 10 microns or less (PM₁₀) and particulate matter having a diameter of 2.5 microns or less (PM_{2.5}).

Note: If you are proposing more than two Air Pollution Control Devices (PCDs), complete additional copies of these tables.

Table 6b			
Description of Proposed PCD	Emission Unit No(s). Served by PCD	Air Contaminant(s) Controlled	Overall Control (Percent by Weight)
<input type="checkbox"/> New <input type="checkbox"/> Existing		VOC	
		CO	
		PM ¹	
		NO _x	
		NH ₃	
		Other:	



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B. Equipment Description (continued)

Supplemental Forms Required

If you are proposing one or more PCDs, you will also need to submit the applicable form(s) below.

If Your Project Includes:	You Must File Form(s):
Wet or Dry Scrubbers	BWP AQ Scrubber
Cyclone or Inertial Separators	BWP AQ Cyclone
Fabric Filter	BWP AQ Baghouse/Filter
Adsorbers	BWP AQ Adsorption Equipment
Afterburners or Oxidizers	BWP AQ Afterburner/Oxidizer
Electrostatic Precipitators	BWP AQ Electrostatic Precipitator
Selective Catalytic Reduction	BWP AQ Selective Catalytic Reduction
Sorbent/Reactant Injection	BWP AQ Sorbent/Reactant Injection

10. Is there any external noise generating equipment associated with the proposed project? Yes No – Skip to 12

11. Complete the table(s) below to summarize all associated noise suppression equipment, if any is being proposed, and attach a completed Form BWP AQ Sound to this application (unless MassDEP waives this requirement).

Note: The installation of some fuel burning equipment can cause off-site noise if proper precautions are not taken. For additional guidance, see MassDEP's Noise Pollution Policy Interpretation.

Table 7			
Emission Unit No.	Type of Noise Suppression Equipment (e.g. Mufflers, Acoustical Enclosures)	Equipment Manufacturer	Equipment Model No.



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B. Equipment Description (continued)

12. Have you attached a completed Form BWP AQ Sound to this application? Yes No*

*If No, explain:

13. Describe the potential for visible emissions from the proposed project and how they will be controlled:

14. Describe the potential for odor impacts from the proposed project and how they will be controlled:

C. Stack Description

Complete the table below to summarize the details of the proposed project's stack configuration.

Note: Discharge must meet Good Air Pollution Control Engineering Practice. When designing stacks, special consideration must be given to nearby structures and terrain to prevent emissions downwash and adverse impacts upon sensitive receptors. Stack must be vertical, must not impede vertical exhaust gas flow, and must be a minimum of 10 feet above rooftop or fresh air intake, whichever is higher. For additional guidance, refer to the MassDEP "Stack Design General Guidelines." See the instructions for a link.

Table 8						
Emission Unit No.	Stack Height Above Ground (Feet)	Stack Height Above Roof (Feet)	Stack Exit Diameter or Dimensions (Feet)	Exhaust Gas Exit Temperature Range (Degrees Fahrenheit)	Exhaust Gas Exit Velocity Range (Feet per Second)	Stack Liner Material

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D. Best Available Control Technology (BACT) Emissions

1. Complete the table(s) below to summarize the proposed project's BACT emissions.

Note: Complete a separate table for each proposed fuel to be used in each Emission Unit. For example, if one Emission Unit will be capable of burning two different fuels, you will need to complete two tables.

Table 9A						
Emission Unit No. & Fuel Used	Air Contaminant	Uncontrolled Emissions (Pounds per Hour [lbs/hr], Pounds per 1 Million British Thermal Units [lb/MMBtu] or Parts per Million Dry Volume Corrected Basis [ppmvd@ %O ₂ or CO ₂])	Proposed BACT Emissions (lbs/hr, lb/MMBtu or ppmvd@ %O ₂ or CO ₂)	Proposed Consecutive 12-Month Time Period Emissions Restrictions (Tons, if Any) ⁵	Proposed Monthly Time Period Emissions Restrictions (Tons, if Any) ⁵	Proposed Fuel Usage Limit(s) (if Any) ⁵
Unit No.	PM ¹					
	Fuel Used					
	PM _{2.5}					
	PM ₁₀					
	NO _x ²					
	CO					
	VOC					
	SO ₂					
	HAP ³					
	Total HAPs ³					
	CO ₂ ⁴					

¹PM includes particulate matter having a diameter of 10 microns or less (PM₁₀) and particulate matter having a diameter of 2.5 microns or less (PM_{2.5}).

² NO_x emissions from this proposed project need to be included for the purposes of NO_x emissions tracking for 310 CMR 7.00: Appendix A, if applicable.

³Operating Permit facilities are required to track emissions of Hazardous Air Pollutants.

⁴Pounds of CO₂ per unit product (e.g. pounds CO₂ per megawatt, pounds CO₂ per 1,000 pounds of steam).

⁵Enter "N/A" if not requesting emissions restrictions and/or fuel usage limit.



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D. Best Available Control Technology (BACT) Emissions (continued)

Table 9B						
Emission Unit No. & Fuel Used	Air Contaminant	Uncontrolled Emissions (Pounds per Hour [lbs/hr], Pounds per 1 Million British Thermal Units [lb/MMBtu] or Parts per Million Dry Volume Corrected Basis [ppmvd@ %O ₂ or CO ₂])	Proposed BACT Emissions (lbs/hr, lb/MMBtu or ppmvd@ %O ₂ or CO ₂)	Proposed Consecutive 12-Month Time Period Emissions Restrictions (Tons, if Any) ⁵	Proposed Monthly Time Period Emissions Restrictions (Tons, if Any) ⁵	Proposed Fuel Usage Limit(s) (if Any) ⁵
Unit No.	PM					
Fuel Used	PM _{2.5}					
	PM ₁₀					
	NO _x					
	CO					
	VOC					
	SO ₂					
	HAP					
	Total HAPs					
	CO ₂					

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D. Best Available Control Technology (BACT) Emissions (continued)

Note: If you are proposing more additional Emissions Units or fuels, complete additional copies of these tables.

Table 9C						
Emission Unit No. & Fuel Used	Air Contaminant	Uncontrolled Emissions (Pounds per Hour [lbs/hr], Pounds per 1 Million British Thermal Units [lb/MMBtu] or Parts per Million Dry Volume Corrected Basis [ppmvd@ %O ₂ or CO ₂])	Proposed BACT Emissions (lbs/hr, lb/MMBtu or ppmvd@ %O ₂ or CO ₂)	Proposed Consecutive 12-Month Time Period Emissions Restrictions (Tons, if Any) ⁵	Proposed Monthly Time Period Emissions Restrictions (Tons, if Any) ⁵	Proposed Fuel Usage Limit(s) (if Any) ⁵
Unit No.	PM					
Fuel Used	PM _{2.5}					
	PM ₁₀					
	NO _x					
	CO					
	VOC					
	SO ₂					
	HAP					
	Total HAPs					
	CO ₂					

Note: Top-Case BACT is the emission rate identified via the MassDEP BACT Guidance or a pre-application meeting with MassDEP.

2. Are proposed BACT emission limits in the tables above Top-Case BACT as referenced in 310 CMR 7.02(8)(a)2.a? Yes No*

*If No, you must submit form BWP AQ BACT to demonstrate that this project meets BACT as provided in 310 CMR 7.02(8)(a)2 or 310 CMR 7.02(8)(a)2.c..

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E. Monitoring Procedures

Complete the table below to summarize the details of the proposed project's monitoring procedures.

Table 10			
Emission Unit No.	Type or Method of Monitoring (e.g. CEMS ¹ , Fuel Flow)	Parameter/Emission Monitored	Frequency of Monitoring

¹ CEMS = Continuous Emissions Monitoring System

F. Record Keeping Procedures

Complete the table below to summarize the details of the proposed project's record keeping procedures. Proposed record keeping procedures need to be able to demonstrate your compliance status with regard to all limitations/restrictions proposed herein. Record keeping may include, but is not limited to, hourly or daily logs, meter charts, time logs, fuel purchase receipts, CEMS records, etc.

Table 11			
Emission Unit No.	Parameter/Emission (e.g. Temperature, Material Usage, Air Contaminant)	Record Keeping Procedures (e.g. Data Logger or Manual)	Frequency of Data Record (e.g. Hourly, Daily)

Examples of emissions calculations for record keeping purposes:

NO_x: $\{(0.085 \text{ pounds per } 1,000,000 \text{ British thermal units (MMBtu)} \times (\text{X cubic feet}) \times (1,000 \text{ Btu per cubic feet}) + (0.10 \text{ pounds per MMBtu}) \times (\text{Y gallons of fuel oil}) \times (130,000 \text{ Btu per gallon})\} \times 1 \text{ ton per } 2000 \text{ pounds} = \text{NO}_x \text{ in tons per consecutive twelve month time period}$

CO: $\{(0.035 \text{ pounds per MMBtu}) \times (\text{X cubic feet}) \times (1000 \text{ Btu per cubic feet}) + (0.035 \text{ pounds per MMBtu}) \times (\text{Y gallons of fuel oil}) \times (130,000 \text{ Btu per gallon})\} \times 1 \text{ ton per } 2000 \text{ pounds} = \text{CO in tons per consecutive twelve month time period}$

VOC: $\{(0.035 \text{ pounds per MMBtu}) \times (\text{X cubic feet}) \times (1000 \text{ Btu per cubic feet}) + (0.035 \text{ pounds per MMBtu}) \times (\text{Y gallons of fuel oil}) \times (130,000 \text{ Btu per gallon})\} \times 1 \text{ ton per } 2000 \text{ pounds} = \text{VOC in tons per consecutive twelve month time period}$

SO₂: $\{(0.0015 \text{ lb per MMBtu}) \times (\text{Y gallons of fuel oil}) \times (130,000 \text{ Btu per gallon})\} \times 1 \text{ ton per } 2000 \text{ pounds} = \text{SO}_2 \text{ in tons per consecutive twelve month time period}$

Where: **X** = cubic feet of natural gas burned per consecutive twelve month time period
Y = gallons of ULSD oil burned per consecutive twelve month time period



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G. Additional Information Checklist

Attach a specific facility description and the following required additional information that MassDEP needs to process your application. Check the box next to each item to ensure that your application is complete.

- Plot Plan
- Combustion Equipment Manufacturer Specifications, Including but not Limited to Emissions Data
- Combustion Equipment Standard Operating Procedures
- Combustion Equipment Standard Maintenance Procedures, Including Cleaning Method & Frequency
- Calculations to Support This Plan Application
- Air pollution control device manufacturer specifications, if applicable
- Air pollution control device standard operating procedures, if applicable
- Air pollution control device standard maintenance procedures, if applicable
- BWP AQ BACT Form, if not proposing Top-Case BACT
- Air quality dispersion modeling demonstration documenting that National Ambient Air Quality Standards (NAAQS) are not exceeded
- Process flow diagram for the proposed equipment and any PCD, if applicable, including relevant parameters (e.g. flow rate, pressure and temperature)

Note: Pursuant to 310 CMR 7.02(5)(c), MassDEP may request additional information.

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H. Other Regulatory Considerations

Indicate below whether the proposed project is subject to any additional regulatory requirements.

310 CMR 7.00: Appendix A Nonattainment Review, or is netting used to avoid review under 310 CMR 7.00 Appendix A or 40 CFR 52.21? Yes No

40 CFR 60: New Source Performance Standards (NSPS)? Yes No

If Yes: Which subpart? Applicable emission limitation(s):

40 CFR 61: National Emission Standards for Hazardous Air Pollutants (NESHAPS) Yes No

If Yes: Which subpart? Applicable emission limitation(s):

40 CFR 63: NESHAPS for Source Categories – Maximum Achievable (MACT) or Generally Available (GACT) Control Technology Yes No

If Yes: Which subpart? Applicable emission limitation(s):

301 CMR 11.00: Massachusetts Environmental Policy Act (MEPA)? Yes No

If Yes: EOE No.:

Other Applicable Requirements? Yes No

If Yes: Specify:

Facility-Wide Potential-to-Emit Hazardous Air Pollutants (HAPS): Major* Non-Major

*A Major source has a facility-wide potential-to-emit of 25 tons per year or more of the sum of all hazardous air pollutants or 10 tons per year or more of any individual hazardous air pollutant.

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I. Professional Engineer’s Stamp

The seal or stamp and signature of a Massachusetts Registered Professional Engineer (P.E.) must be entered below. Both the seal or stamp impression and the P.E. signature must be original. This is to certify that the information contained in this form has been checked for accuracy, and that the design represents good air pollution control engineering practice.

P.E. Name (Type or Print)

P.E. Signature

Position/Title

Company

Date (MM/DD/YYYY)

P.E. Number



J. Certification by Responsible Official

The signature below provides the affirmative demonstration pursuant to 310 CMR 7.02(5)(c)8 that any facility(ies) in Massachusetts, owned or operated by the proponent for this project (or by an entity controlling, controlled by or under common control with such proponent) that is subject to 310 CMR 7.00, et seq., is in compliance with, or on a MassDEP approved compliance schedule to meet, all provisions of 310 CMR 7.00, et seq., and any plan approval, order, notice of noncompliance or permit issued thereunder. This Form must be signed by a Responsible Official working at the location of the proposed new or modified facility. Even if an agent has been designated to fill out this Form, the Responsible Official must sign it. (Refer to the definition given in 310 CMR 7.00.)

I certify that I have personally examined the foregoing and am familiar with the information contained in this document and all attachments 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.

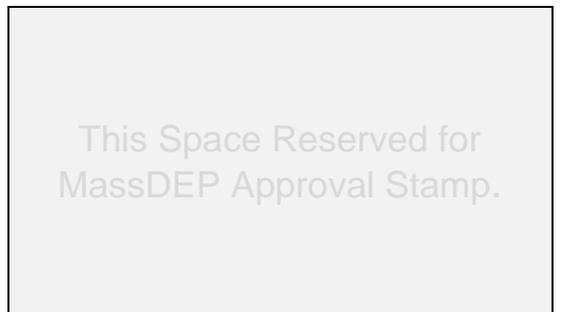
Responsible Official Name (Type or Print)

Responsible Official Signature

Responsible Official Title

Responsible Official Company/Organization Name

Date (MM/DD/YYYY)





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K. Energy Efficiency Evaluation Survey

1. Do you know where your electricity and/or fuel and/or water and/or heat and/or compressed air is being used/consumed? Yes No

2. Has your facility had an energy audit performed by your utility supplier (or other) in the past two years?¹
 - a. Did the audit include evaluations for heat loss, lighting load, cooling requirements and compressor usage? Yes No

 - b. Did the audit influence how this project is configured? Yes No

3. Does your facility have an energy management plan? Yes No
 - a. Have you identified and prioritized energy conservation opportunities? Yes No

 - b. Have you identified opportunities to improve operating and maintenance procedures by employing an energy management plan? Yes No

4. Has each emission unit proposed herein been evaluated for energy consumption including average and peak electrical use; efficiency of electric motors and suitability of alternative motors such as variable speed; added heat load and/or added cooling load as a result of the operation of the proposed process; added energy load due to building air exchange requirements as a result of exhausting heat or emissions to the ambient air; and/or use of compressors? Yes No

5. Has your facility considered alternative energy methods such as solar, geothermal or wind power as a means of supplementing all or some of the facility's energy demand? Yes No

6. Does your facility comply with Leadership in Energy & Environmental Design (LEED) Green Building Rating System design recommendations?² Yes No

¹A facility wide energy audit would include an inspection of such things as lighting, air-conditioning, heating, compressors and other energy-demand equipment. It would also provide you with information on qualifying equipment rebates and incentive programs; analysis of your energy consumption patterns and written cost-savings recommendations and estimated cost savings for installing new, high-efficiency equipment.

²To understand the LEED Rating System, it is important to become familiar with its comprising facets. To be considered for LEED New Construction and Major Renovations, a building must meet specific prerequisites and additional credit areas within six categories:

- Sustainable Sites
- Materials and Resources
- Water Efficiency
- Indoor Environmental Quality
- Energy and Atmosphere
- Innovation and Design