



CHP FEASIBILITY STUDY APPLICATION

The DP&L Energy Audit Program provides funds to subsidize the cost of a CHP Feasibility Study and encourage the implementation of CHP projects.

To participate in the Program, complete the following steps:

1. Submit this Application and a Facility Data Form for the facility that will be studied. DP&L will then provide its decision regarding approval of the program application.
2. Submit the request for proposal (RFP) that will be issued for the study to DP&L for approval. Issue the RFP and select the CHP study vendor.
3. Submit the Firm Selection Form and the winning proposal to DP&L for approval.
4. Upon DP&L approval of the selected firm and its study proposal, proceed with the study.

CONTACT INFORMATION

Please complete the information below for the primary contact for this program.

Primary Contact Name		Title	
Applying Entity			
Street			
City	State	Zip	
Tax Identification Number		County	
Email	Phone	Fax	

DISCLAIMER

Acceptance into the Program is dependent on DP&L approval of the Scope of Work and cost proposal. Acceptance into the Program does not guarantee approval of the feasibility report. The Applicant must meet all Program rules to receive incentive funds from the Program. Dayton Power & Light is not responsible for work performed by third parties.

SCOPE OF WORK REQUIREMENTS

I. Site Description

- a. Primary business and operating schedule
- b. Existing energy supplier, terms, and rates (CHP may affect the Terms & Conditions of any existing gas or electric supply contract)
- c. Pressure and availability of natural gas/fuel
- d. Reason CHP is being considered
- e. 12-24 Month energy use profile, including electricity and fuel use, thermal loads and cost.

II. Energy Efficiency Status

Energy efficiency measure installed in the past 5 years

III. Project Description

- a. Major equipment list
 1. Prime mover (capacity, efficiency, cut sheets, estimated load performance)
 2. Heat recovery equipment
 3. Duct burners
 4. Absorption chillers and dehumidifiers or other thermal recovery.
 5. Gas clean-up equipment if required
- b. Estimated facility monthly load profiles after installation
 1. Useful electricity production (list any parasitic load requirements)
 2. Useful thermal energy production
 3. Grid supplied electricity requirements
 4. Thermal load supplied by on site/preexisting equipment (chiller, boiler)
- c. Estimated CHP AFUE (LHV) and related calculations
 1. System Efficiency = $[\text{Annual Electricity Production (Btu)} + \text{Annual Waste Heat Capture (Btu)}] / \text{Annual CHP fuel consumption (Btu)}$
 2. Emissions – NO_x, SO₂ and CO₂ – Emissions abatement strategy
- d. Interconnection requirements
 1. Include type of grid being connected to (radial or network)
 2. Potential issues and resolutions
 3. Financial impacts of interconnection
 4. One line diagrams of interconnection requirements are recommended
- e. Any requirement of local gas utility regarding pressure and or distribution lines (issues, cost, status)

IV. Project Financials

- a. Installed Costs
 1. Major equipment
 2. Engineering
 3. Design
 4. Construction
 5. Permitting
 6. Interconnection
 7. Other
- b. Maintenance
 1. Estimated fixed and variable cost of O&M (5 year maintenance contract on prime mover is required)
 2. Estimated downtime due to routine maintenance

SCOPE OF WORK REQUIREMENTS (CONT.)

- c. Electricity and fuel price assumptions
 - 1. Electric supplier and rates before and after CHP (specific tariffs, stand-by charges) (CHP may affect the Terms & Conditions of any existing gas or electric supply contract)
 - 2. Fuel supplier and price (CHP may affect the Terms & Conditions of any existing gas or electric supply contract)
 - 3. Price escalation factors for both electricity and fuel
 - 4. Expected month-by-month savings and simple pay back with and without incentives
 - 5. Financing mechanism
 - 6. 10 year cash flow analysis
 - a) Annual fuel and purchased power costs
 - b) Annual O&M
 - c) Annual operating savings
 - d) Assumed unit gas and electric cost & escalations
 - e) IRR and NPV
 - 7. Sensitivity Analysis on simple payback based on varying
 - a) Electric prices
 - b) Fuel prices

V. **Permitting Plan**

A brief description of the necessary environmental and building permits or certificates that the customer needs to obtain must be provided. A schedule of realistic permit receipt dates is to be included.

VI. **Metering Plan**

A detailed metering plan shall be included outlining the steps that will be taken to measure system performance post-installation. After the system is installed, applicant must provide 12 months of hourly operational data demonstrating that minimum CHP AFUE was achieved, in order to qualify for rebate incentives. This shall be done by implementing appropriate metering as part of the system installation. Data collected should include but not limited to, fuel input (kBtu), useful electric energy output (kWh), useful thermal energy output (kBtu). All applicants are responsible for the delivery of requisite data.

VII. **Project Team**

Describe the qualifications of the Applicant and/or contractor's individual and combined expertise that will enable successful completion of the CHP project. List related projects that have been undertaken and successfully completed by the Applicant and/or contractors.

VIII. **Anticipated Schedule**

A detailed project schedule that includes design, engineering, permitting, interconnection, construction, start-up, commissioning and 12 month data collection must be provided.



PROGRAM TERMS AND CONDITIONS

Applicant makes this application to DP&L’s Energy Audit Program, seeking a reimbursement incentive for completing a CHP feasibility report. Payment of the incentive by DP&L will be made according to the following terms and conditions:

1. Eligible facilities must receive electric distribution service from DP&L.
2. Customer must complete, submit and receive DP&L approval for all of the following, prior to commencing with the study process:
 - a. Application Form
 - b. Facility Data Form
 - c. Request for Proposal
 - d. Firm Selection Form

A study will not be eligible for rebate if the Customer proceeds with the study prior to DP&L’s approval.

3. Rebates will be based on the final cost of the study, and will be capped as follows:

Customer Usage (kWh)	Max Audit Cost
Up to 500,000	\$3,500
500,001 - 2,000,000	\$7,500
2,000,001 and greater	\$10,000

Reimbursement:

- 50% of the study cost, at receipt of the Feasibility Report by DP&L, and
 - 50% of the study cost upon Customer installation of a CHP system:
 - Exceeding the cost of the study, and
 - Initiated within one year of receiving the Feasibility Report.
4. Studies must be delivered by a Registered Professional Engineer (PE) or Certified Energy Manager (CEM).
 5. Funds are awarded on a first-come, first-serve and case-by-case basis, until program funds are exhausted. DP&L reserves the right to withhold funds until all Program requirements are met. The reservation of funds does not guarantee payment. If the CHP feasibility study is not performed within 6 months of the application approval, DP&L reserves the right to discontinue the reservation of all incentive funds for the project. Extensions may be granted on a case-by-case basis.
 6. Rebates may be subject to federal and/or state income tax reporting. DP&L is not responsible for any taxes that may be incurred.
 7. The parties recognize that DP&L does not guarantee energy savings and does not make any warranties associated with the study. Furthermore, only the Customer can judge the overall feasibility and benefit to its business of the study and identified CHP projects.
 8. DP&L respects the privacy of its customers, but cannot guarantee the confidentiality of information provided to it.
 9. Customers in arrears on their DP&L bill at the time that the rebate payment is scheduled to take place will not be eligible for a cash payment. The rebate instead will be distributed to the Customer as a credit to their DP&L account. Customers will be notified of this situation prior to receiving payment.

Checking here indicates Customer has read, understands, and agrees to these Terms and Conditions.



APPLICANT AUTHORIZATION

This application must be signed by an authorized representative of the business customer applying to participate in the DP&L CHP Feasibility Study Program.

<i>I have read the Program Guidelines and understand the Program rules and procedures. I understand and agree that DP&L is not responsible for work performed by a third party.</i>
Applicant Representative Signature
Applicant Representative Printed Name
Applicant Representative Title
Date Submitted

Please mail, fax or email your completed application to:

**Dayton Power & Light
Energy Efficiency Programs
1900 Dryden Road
Dayton, Ohio 45439
Fax: 937-331-4088**

Email: energyefficiency@dplinc.com

For further questions, please call 937-331-4028 or visit our website at
www.dpandl.com/save

STAFF USE ONLY

Date Received: _____	Project No.: _____
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