Eligible CHP Projects

Combined Heat and Power (CHP) Systems are considered those that simultaneously provide thermal and electrical energy at a host site. The system should intend to meet the requirement for efficient CHP, defined as an application of technology that achieves an average, annual, fuel-conversion efficiency meeting or exceeding an efficiency of 60%.

The CHP system should intend to meet the following criteria:

- Sum of all usable thermal energy products must constitute at least 20% of the technology's total usable energy output, and
- Sum of all usable power must constitute at least 15% of the technology's total usable energy output.

The following are ineligible:

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- Scopes of work proposing to evaluate systems utilizing fuel sources other than natural gas;
- Scopes of Work seeking assistance with evaluating systems using highly processed or treated materials (including materials painted, or pressure treated with chromium, chlorine and arsenic bearing compounds);
- Scopes of Work seeking assistance with evaluating systems using Municipal Solid Waste;
- Scopes of Work seeking assistance with evaluating studies for which the potential CHP system would be larger in total prime mover capacity than 50 MW; and
- Scopes of Work seeking assistance with evaluating CHP systems for which less than 75% of the electricity generated would be used on-site.

Please note that other NYSERDA programs have limited installation funds available for combined heat and power projects. Solicitations are released on a periodic basis. Please visit www.nyserda.ny.gov for more information.

Please also note, all CHP projects performed by FlexTech-Independent Consultants must undergo review by an independent panel of experts to determine eligibility of acceptance into the FlexTech Program.

CHP Evaluation Criteria

All CHP submissions must follow the scope of work requirements as outlined in Appendix B-1 and comply with the evaluation criteria listed below. Scopes of work that do not expand upon the requirements in Appendix C-2 or C-3 (as appropriate), to include site and project specific issues, may be rejected.

Combined Heat and Power Scopes of Work must identify assumptions and include site specific supporting detail to:

- Analyze the thermal and electric usage on an hourly profile per year.
- Provide the thermal and electrical profiles using engineering analysis or metered data for at least a year (Metered data is preferred.)
- Identify the tariff impacts that would result from installation of the system.
- Provide a schematic of the electrically interconnect of the proposed system.
- Identify the necessary permits for the proposed system.
- Describe the engineering analysis that will be used to identify the match between the electric and thermal load profiles at the site. There must be at least a potential for a 60% Fuel Conversion Efficiency.
- Also identify the generating technologies that would be used. Only reciprocating engines, turbines, microturbines and fuel cells are to be considered. Proposals evaluating fuel cells and microturbines also need to evaluate reciprocating engines.

• Sufficient detail that will support the methodology proposed for each of the required tasks as outlined in Appendix C-2 or C-3.

Additional Requirements

- The scope of work and related estimates must demonstrate an economically justified project.
- The cost of the study must be reasonable and must contain a detailed budget broken out by task that shows hours and dollars allocated to each task of the scope of work
- Consultant staff allocations and schedule must be sufficient to meet the objectives of the scope of work cost effectively.
- Involved consultant staff, contractors, sub-contractors, etc. must have had at least three completed and related projects.