

Required Information in a Preliminary CHP Feasibility Study (Total study cost less than \$20,000 total cost)

The following information must be included in preliminary CHP feasibility studies, in addition to general final report requirements in Appendix B-2.

System Information

- Energy use profiles must be reviewed in detail to accurately determine the level of temporal coincidence between thermal and electrical loads to be satisfied by the CHP system. An electronic copy of a spreadsheet-based model that describes system operation, including electricity produced and heat recovered on a daily basis, must be provided with the final report. Assumptions used in the model should be clearly indicated in the final report. Thermal demands must be shown for the specific heat sinks to be satisfied by the CHP system.
- Preliminary type and rating of and energy balance around the prime mover. The energy balance must be applied to a schematic of the system showing all major components, including the uses for the recovered heat. Annual totals for each energy input/output must be shown.
- Description of the proposed system must include a floor plan showing equipment location.

Economic Evaluation

- Electricity, fuel, operation and maintenance costs before and after the proposed installation along with a summary of project economics must be included.
- Economics must be presented in a simple payback format.
- Operational costs must include any impact to the Customer's energy tariffs.
- Maintenance costs can be listed in \$/kWh, but must also be annualized.
- Capital costs must include any necessary one time costs such as permitting, interconnection or electrical distribution system changes.

Maintenance

- In addition to inclusion in the economic analysis described above, maintenance items must be described in detail. The source of the maintenance costs must be included along with a list of what would be covered (i.e. annual major overhaul of prime mover, oil changes, etc.).

Tariff Impacts and Interconnections

- Site-specific grid interconnection issues and costs must be discussed. A brief, clear plan for if and how the system will be properly interconnected to the grid. In the absence of such a plan, natural gas pipelines interconnect issues must be presented.

Permitting

- A brief description of the necessary environmental and building permits that the Customer needs to obtain must be provided.