

COMBINED HEAT and POWER
Southwest Gas Incentive Program Application

For questions regarding this application, please contact Key Accounts at (602) 395-4058

Project Name: _____ Date: _____

Project Address: _____

Project Contact Name: _____ Title : _____

Phone: _____ Cell: _____ E-Mail: _____

Section I. Proposed Project

A. Size of Project in kW (or Hp if not producing electricity): _____

B. Project Description (e.g. 100 kW generator with waste heat to displace boiler load):

C. Size and Description of Proposed Equipment (e.g: 100 kW Caterpillar model XXX natural gas generator, 600,000 Btu/hour heat exchanger, electric switchgear, concrete supporting structure, process piping, etc).

Section II. Existing Equipment

A. Size and Description of Pertinent Existing Equipment (e.g. 3,000,0000 Btu/hour boiler, etc.)

B. Thermal load on site during normal operations: _____ Btu/hour

Section III. Costs

A. CHP Equipment Cost (Please list each major piece of equipment and related cost):

- | | |
|----------|-------------|
| 1. _____ | Cost: _____ |
| 2. _____ | Cost: _____ |
| 3. _____ | Cost: _____ |
| 4. _____ | Cost: _____ |
| 5. _____ | Cost: _____ |
| 6. _____ | Cost: _____ |

TOTAL Equipment Cost **Cost:** _____

B. CHP Installed Cost (Please list elements of total installed cost, e.g. equipment, engineering, taxes, overhead, profit, etc):

- | | |
|----------|-------------|
| 1. _____ | Cost: _____ |
| 2. _____ | Cost: _____ |
| 3. _____ | Cost: _____ |
| 4. _____ | Cost: _____ |
| 5. _____ | Cost: _____ |
| 6. _____ | Cost: _____ |

TOTAL Installed Cost: _____ **Cost:** _____

Section IV. Utility/Operation Information

A. Monthly utility bills (Attach 12 monthly electric and gas utility bills showing the following:)

- Current monthly kW demand on site
- Current monthly kWh on site
- Current monthly natural gas use on site

B. Operation

Hours per day: _____ hours per day
Days per week: _____ days per week
Weeks per year: _____ weeks per year

Section V. Projected Energy Savings and Fuel Efficiency

Please enclose a copy of a preliminary project economic feasibility study. A final Engineering Study for this project, which has been stamped by an Arizona registered Professional Engineer (PE) will be required prior to award.

A. Projected Energy Savings

Reduction in kW demand: _____ kW
Reduction in annual kWh from grid: _____ kWh/year
Reduction in annual thermal use: _____ Btu/year

_____ therms/year

_____ kWh/year (if applicable)
Annual fuel use by prime mover: _____ therms

B. Projected Fuel Efficiency (during normal operation, using the higher heating value. Insert values into equation below as shown:)

Prime mover output: _____ Btu/hour
Heat recovery: _____ Btu/hour
Prime mover input: _____ Btu/hour

$$\text{Efficiency} = \frac{[\text{Prime Mover Output} + \text{Heat Recovery}]}{\text{Prime Mover Input}} \times 100\%$$

Efficiency = _____ %

Company official with responsibility for this project

Name (print): _____

Signature: _____ **Date:** _____

Title: _____

Supplemental Information (to be completed by Southwest Gas)

Section VI. Projected Estimated Annual and Lifespan Emissions, Energy, and Water Savings

A. Emissions Savings

B. Energy Savings

C. Water Savings
