



# Project Evaluation - Gas

Thank you for completing the information about your prospective project. We will rely on this information for preliminary analysis for the potential of your application in order to quote you. *If actual data is not available, please indicate estimates with an \**.

**1 Project Planner's Information**

Company: \_\_\_\_\_ Contact Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

**2 Project Site Information:**

Project Description: \_\_\_\_\_

Project Location: \_\_\_\_\_

Does source flow 24/7 all year? If not, explain \_\_\_\_\_

Power Supply: 480V/60Hz/1800RPM/3ph  400V/50/1500 RPM/3ph  Other \_\_\_\_\_

Output Power conditions: 480V/60Hz/1800RPM/3ph  400V/50/1500 RPM/3ph  Other \_\_\_\_\_

Electric Code: UI  IEC  NEMA  Other \_\_\_\_\_ Pressure Vessel Code: ASME  Other \_\_\_\_\_

**VERY IMPORTANT to calculate payback period**

Highest Average Electrical Cost \_\_\_\_\_ per kWh\* Cost per Million BTU of gas: \_\_\_\_\_ (per MMBTU)

*\* To determine your true cost of power, take your total bill and divide it by the kilowatt hours used*

**3 GAS COMPOSITION (% OF GAS MUST = 100%)**

Methane: \_\_\_\_\_ Nitrogen: \_\_\_\_\_ Ethane: \_\_\_\_\_ Propane: \_\_\_\_\_ Butane: \_\_\_\_\_ CO2: \_\_\_\_\_

Other Gases + %: \_\_\_\_\_

If you do not know the composition of your gases, we will run the calculation based on reasonable assumptions for clean natural gas.

**4 INLET Conditions**

**Pressure** (usual max is 580 PSIA/40 BARA):  
 PSIG  PSIA  BARG  BARA  kPa   
 Min \_\_\_\_\_ Average \_\_\_\_\_ Max \_\_\_\_\_

**INLET Temp** (usual max is 482 °F/250 °C): °F  °C   
 Min \_\_\_\_\_ Average \_\_\_\_\_ Max \_\_\_\_\_

**Flow Rate:** SCFH  SCFD  Nm<sup>3</sup>/hr  Nm<sup>3</sup>/day   
 Min \_\_\_\_\_ Average \_\_\_\_\_ Max \_\_\_\_\_

**5 Desired OUTLET Conditions**

**Pressure** (usual min is -13.5 PSIG/1 PSIA/-0.9 BARG/8kPa relative to vacuum; Min Pressure Ratio is approx. 2:1):  
 PSIG  PSIA  BARG  BARA  kPa   
 Min \_\_\_\_\_ Average \_\_\_\_\_ Max \_\_\_\_\_

**Preferred Temp** (usual min is -4 °F/-20 °C): °F  °C   
 Min \_\_\_\_\_ Average \_\_\_\_\_ Max \_\_\_\_\_

There is an economic benefit to cooler outlet temperatures.  
 What is the coldest acceptable Temp? °F  °C

Completed by: \_\_\_\_\_ Date: \_\_\_\_\_

**PROJECT DEVELOPMENT STAGE:** (check all started): Feasibility  Planning  Funding  Design   
Engineering  Construction  Operational

**REASON FOR PURCHASE** (Check all that pertain to your company's needs)

Energy Efficiency  Tax Incentives  Pressure Control  Energy Savings  Carbon Credits

Process Cooling  Emission Reduction  Grant  Other \_\_\_\_\_

**NOTES:**