

PROJECT QUESTIONNAIRE

In Order to properly evaluate project scope and applicable costs, the following information is required, noting that the system must be designed for the purpose intended requiring all system components to be balanced for maximum performance and efficiency. If there are specifics that are unknown, please indicate as such.

(A) Project Coordination

- 1) Location
- 2) Project Manager / Project Coordinator
- 3) Civil Engineer / Land Planner
- 4) Regulatory and environmental requirements
- 5) EPC or General Contractor
- 6) Expected dates for equipment delivery, setup, commissioning and training

(B) Site Characteristics

- 1) Project Size – Acres
- 2) Elevation
- 3) Delivery Mode – Land, Sea, Rail, etc.
- 4) Topography – Access, Ingress / Egress
- 5) Soil Conditions – Compaction or Liquefaction Concerns
- 6) Utilities available – gas (or other fuel) – BTU value, volume, pressure, cost
- 7) Electricity (both purchased and sold) - volts, phase, hertz, cost / kWh, income / kWh

(C) System Concept Layout & Flow Diagrams:

- 1) Concept of equipment use
- 2) Envisioned equipment layout
- 3) Stack height requirement
- 4) Envisioned system flow diagram
- 5) Envisioned equipment list

(D) Client Requested System Requirements:

- 1) Size and tonnage capacity of requested system
- 2) Envisioned fuel source(s)
- 3) Gross & net plant heat rates
- 4) Secondary heat recovery – air, oil, water, steam, etc.
- 5) Envisioned secondary Retort fuel source – if required
- 6) Auxiliary plant equipment, if any (MRF system, carbon processing, etc)

(E) System specification Information:

- 1) Envisioned fuel source BTUs per pound
- 2) Envisioned feed rate of system, solid, liquid or gas
- 3) Material feed stream characteristic – studies, if available
- 4) Environmental secondary systems & or related requirements for intended primary feed stock
- 5) Power generation systems & subsystems requirements – designs, if available
- 6) Boiler plant or other subsystems as envisioned – designs, if available
- 7) Byproduct discharge systems as envisioned – designs, if available
- 8) Feed stock delivery systems as envisioned – designs, if available
- 9) System material heat balance
- 10) System material chemical balance / blend – studies, if available

The above requested information will be used as base design criteria for the completion of your requested price quotation including Design, Equipment, Erection, and Commissioning. This information, once provided, will enable us to professionally assist you in the shortest time possible.