

QUESTIONNAIRE

BIOETHANOL PLANT

GENERAL DATA

Client (end user)	
Address, telephone, email	
Project code/name	
Site location	
Responsible project manager	
Form completed by (name, company)	
Date	

1. PROJECT DATA

Provisional time schedule	
Contract award	
Plant start-up	
Implementation of a new plant	<input type="checkbox"/> Yes <input type="checkbox"/> No
Expansion of an existing plant	<input type="checkbox"/> Yes <input type="checkbox"/> No
Budget available	<input type="checkbox"/> No, development of new business case <input type="checkbox"/> Approval pending feasibility study <input type="checkbox"/> Approval pending financing <input type="checkbox"/> Financing approved

2. BASIC DATA FOR PRODUCTION

Production capacity in liters per day (minimum 100,000 lpd)	
Operating time in days per year in continuous process. (24 hours per day, 7 days per week)	
Raw Material (e. g. corn, wheat, molasses, sugar juice etc.) Please provide raw material analysis, if available.	
Product quality requirements Please provide standard or specification, if available.	
By-products Following by-products can be obtained:	<input type="checkbox"/> CO ₂ gas formed in fermentation that can be liquefied and sold or used for the production of dry ice. Please provide specification. <input type="checkbox"/> DDGS (grain plants only) <input type="checkbox"/> Slops concentrate (molasses, sugar syrup plants - if the slops resulting from distillation cannot be drained into the sewer) please specify concentration in %.

3. UTILITIES

Process water supply

Secured supply quantity during the whole working time of the factory, m ³ /h	
Quality Please enclose the water analysis, for which the plant shall be designed or make adequate notes at the attached standard analysis.	
Temperature, °C max/min	

Cooling water supply

Secured supply quantity during the whole working time of the factory, m ³ /h	
Temperature, °C max/min	

Power supply

Available voltage up to the main distributing frame in the plant, V / ± V	
Available frequency, Hz / ± Hz	
Connected load, MW	
Typical downtime due to power outages (short time, a few hours, days) and how frequently	

Steam supply

Available steam quantity, t/h	
Steam pressure, bar	
Steam temperature, °C	
Distance to existing steam boiler, m	

Fuel Source for DDGS driers

Drier fuel (e. g. steam, natural gas, heavy fuel oil, ...)	
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4. BUILDING SITE

Available area for erection of the plant Please adjoin map to this questionnaire	
Altitude of the site above sea-level, m	
Seismic factor	
Climatic conditions on site	
Outdoor temperature, °C min/max	
Relative humidity, % min/max	

<p>Wet bulb temperature, °C min/max</p> <p>Special conditions (floodwater, rainfall, wind velocity, snow loads)</p>	
<p>Storage capacities</p> <p>Available/required capacities (tanks, pumping station) in weeks for:</p> <p>Raw material</p> <p>Solid auxiliary material (nutrient salts)</p> <p>Liquid auxiliary material (sulfuric acid)</p> <p>Alcohol</p> <p>Thick sludge</p>	
<p>Logistics</p> <p>Kind of supply and dispatch to/from plant</p>	<p><input type="checkbox"/> Rail</p> <p><input type="checkbox"/> Road</p>
<p>Buildings</p> <p>Please provide plans of existing buildings, if available.</p>	