

INNOVAS PROSPECTIVE CUSTOMER QUESTIONNAIRE FOR BIOGAS PLANT

INNOVAS requests that prospective customers fully and completely furnish all information and data requested in this questionnaire in order to enable *INNOVAS* to preliminary calculate the initial specifications of the Biogas Plant necessary to digest the organic substrates and the estimated Biogas yield from it.

INNOVAS requests that the information furnished be based on the customer's actual data, as the more accurate the data, the more precise *INNOVAS'* calculations will be regarding the proposed Biogas Plant. In the event actual figures are not yet available not known or cannot be projected, then *INNOVAS* will make its initial calculations using averages or empirical data from similar plants previously designed by *INNOVAS* or data established from applicable industry standards and references.

1. General Company Information

1.1	Name:	
1.2	Physical Address:	
1.3	Mailing Address (if different):	
1.4	Phone:	
1.5	Fax:	
1.6	E-mail:	
1.7	Physical Location of Biogas Plant:	
1.8	Company Project Coordinator: Name: Position: Address (if different to 1.2): Mail (if different to 1.3): Phone: Fax: E-mail:	

2. Specific Company Biogas Plant Information:

2.1	Normal Hours of Production		
	Days per week:	d	Hours per day: h
	Working days per year:	d	
2.2	If production is seasonal		
	Start of working season:		End of working season:
	Days per week during season:	d	Hours per day: h
	Working days per season:	d	
2.3	Projected site Information		
	Distance from place of origin of organic substrate waste materials and proposed Bio-gas plant in m (or km): (If possible please provide site plan of existing physical plant, estate layout and road map)		m (km)
	Mean annual average ambient temperature in Centigrade:		°C
	Maximum average ambient temperature in Centigrade:		°C
	Minimum average ambient temperature in Centigrade:		°C
2.4	Actual current costs incurred for removal and disposal of the organic substrate waste material		
	Substrate/Material 1	Actual cost to remove or dispose per t or m ³ :	€(\$)
		or Actual revenue from removal or disposition per t or m ³ :	€(\$)
	Substrate/Material 2	Actual cost to remove or dispose per t or m ³ :	€(\$)
		or Actual revenue from removal or disposition per t or m ³ :	€(\$)
Substrate/Material 3	Actual cost to remove or dispose per t or m ³ :	€(\$)	
	or Actual revenue from removal or disposition per t or m ³ :	€(\$)	
Substrate/Material 4	Actual cost to remove or dispose per t or m ³ :	€(\$)	
	or Actual revenue from removal or disposition per t or m ³ :	€(\$)	

(If there are more than four (4) organic substrate waste materials, please continue list on a separate page)

2.5	Projected use and removal of organic substrate fermentation residues from Biogas plant				
	If to be used as fertilizer				
	Available farmland:			ha	
	If to be discharged (direct or indirect) into sanitary sewer or waste water network (or outlet ditch)				
	List any required discharge conditions and specifications:				
	COD:	mg/l	Temperature:	°C	Total N: mg/l
	BOD:	mg/l	pH-Value:		Other limits:

3. Current Energy Consumption

3.1	Current consumption of the company / shop (if possible please attach the last annual invoice)			
	Installed wattage:	kW	Peak wattage:	kW
	Minimum necessary wattage (nights or weekends or when plant not operating):			kW
	Last three (3) years annual average consumption:	kWh/a	Peak consumption per year:	kWh/a
	Average daily consumption:	kWh/d	Peak consumption per day:	kWh/d
	Other annual non-plant electrical energy consumption (offices, warehouse, home etc):			kWh/a
	Cost per kWh	Electricity:		€(\$)

3.2	Current Plant Heat Consumption (please include last 12 months heating bills)			
	Plant installed boiler capacity:	kW	Peak capacity:	kW
	Temperature level inlet / outlet:	°C	Steam generating capacity:	kg/h
	Minimum necessary heat capacity (nights or weekends or when plant not operating):			kW
	Last three (3) years annual average heat consumption:	kWh/a	Peak consumption per year:	kWh/a
	Average daily heat consumption:	kWh/d	Peak consumption per day:	kWh/d
	Other annual heat consumption (offices, warehouse, home etc):			kWh/a
	Cost per kWh	Heating oil:		€(\$)
		or		
		Natural Gas:		€(\$)
		or		
		Other:		€(\$)

4. Table of Substrate Waste Material output from current plant operations

No.	Description of Organic Waste Materials (Input substrate)	Quantity per day [t or m ³]	Quantity variation per day (from a high of _t to a low of _t/d)	Quantity per week [t or m ³]	Days of output per week [d]	days of output per year [d]	Chemical Composition of Organic Substrate Waste Material			
							DM – Value	%Weight	COD	mg/l
1							ODM- Value	%DM	BOD	mg/l
							Carbohydrates:	%DM	Kijeldal N:	mg/l
							Protein:	%DM	Total P:	%DM
							Raw Fat:	%DM	Total S:	%DM
							Raw Fiber:	%DM		
							Temperature	°C	pH - Value	
2							DM – Value	%Weight	COD	mg/l
							ODM- Value	%DM	BOD	mg/l
							Carbohydrates:	%DM	Kijeldal N:	mg/l
							Protein:	%DM	Total P:	%DM
							Raw Fat:	%DM	Total S:	%DM
							Raw Fiber:	%DM		
							Temperature	°C	pH - Value	
3							DM – Value	%Weight	COD	mg/l
							ODM- Value	%DM	BOD	mg/l
							Carbohydrates:	%DM	Kijeldal N:	mg/l
							Protein:	%DM	Total P:	%DM
							Raw Fat:	%DM	Total S:	%DM
							Raw Fiber:	%DM		
							Temperature	°C	pH - Value	
4							DM – Value	%Weight	COD	mg/l
							ODM- Value	%DM	BOD	mg/l
							Carbohydrates:	%DM	Kijeldal N:	mg/l
							Protein:	%DM	Total P:	%DM
							Raw Fat:	%DM	Total S:	%DM
							Raw Fiber:	%DM		
							Temperature	°C	pH - Value	

If there are more than four (4) organic substrate waste materials, please continue list on a separate page)

Please answer all questions as good as you can and forward them to *INNOVAS* for a response.