



COMPANYI	NFORMATION				Date: 31st January 2017	
Company Name: Sustec BV						
Phone:	+31 317 763	749		Web Site:	www.sustec.nl	
Address:	Agro Business Park 7a			City:	Wageningen	
State:	The Netherla	nds		Zip Code:	6708 PV	
BUSINESS CONTACT				TECHNICAL	L CONTACT	
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Address:	Agro Business Park 7a			Address:	Agro Business Park 7a	
City:	Wageningen			City:	Wageningen	
State:	The Netherlands			State:	The Netherlands	
Zip Code:	6708 PV			Zip Code:	6708 PV	
BUSINESS HISTORY						
How long have you been in business? 9 years						
Are you part of a larger company? Yes No						
Did you exist as another company before this company was formed? Yes No No No No						
Sustec Consulting & Contracting BV						
Number of employees? 7						
What is your business structure? Private enterprise, family owned						
What types of insurance and or surety do you provide?						

References. Please provide customers or colleagues with whom we can discuss your business and performance. Please include a separate list with company name, location, contact name and contact information.						
WWTP Venlo, WBL, The Netherlands	WWTP Apeldoorn, Waterboard Vallei & Veluwe, The Netherlands					
Describe your business service(s). For example: consulting, dev	velopment, engineering, equipment sales, finance, other.					
Sustec provides sustainable technologies for a circular econo processes and resource recovery, we offer our customers Turand laboratory services, pilot testing, engineering and operat	boTec® and NutriTec® installations, supportive consultancy					
Area or region of operation.						
The Netherlands, Europe, North-America and Asia.						
Does your company hold any patents or the rights to any pa	itents? Please identify.					
Yes, two (2) patents.						
Do you manufacture equipment? Yes No Please	describe.					
Do you integrate equipment manufactured by others? If you integrate, please list the names of the companies you represent	Yes No					
Heat exchangers, pressure vessels, pumps, valves, drum filter, steam injectors.	Veolia Berkal filters, UF, separators, 3M membranes, pumps, valves.					

How do you answer potential customer's question about financial strength of your company?
No.
Do you offer technical/service support? Yes No If so, what methods?
Consultancy services, laboratory testing and commissioning.
Do you offer design services? No Please describe.
Engineering packages and engineering design of thermal hydrolysis installations. Design of nutrient recovery systems for removal and recovery of N and P.
Do you offer financing? Yes No If so, what terms?
Are you a full stop shop? Design to construction to operate? Yes No Please describe.
Do you have preferred partners? Yes No If so, please list and provide contact information/identify partners by name.
DMT CGS Willems Huisman

Do you have any third-party verification/research that has been done on this technology? Yes No No No
Do you provide a performance guarantee? • Yes • No If so, what are you guaranteeing? For example: up time, methane production, biogas production, parasitic load, throughput, O&M cost, percent recovery, other.
Operational costs, e.g. steam consumption, for thermal hydrolysis (TurboTec®) and nitrogen recovery for NutriTec® technologies.
Are there any other aspects of your business that you feel should be included in this document?
Are there any other aspects of your business that you feel should be included in this document? Inter-company co-operation with DMT-CGS, a supplier of biogas upgrading and gas desulphurization.

INITIAL TECHNOLOGY OVERVIEW

This information is to guide in the development of a more specific and detailed Technology Information Request. *Please answer the following questions for each Technology or Service Provided.*

What is the name of the technology or service?

Continuous thermal hydrolysis, nutrient recovery using membrane stripping

What unit process is the technology used in?

For example: initial collection/transfer manure storage, energy recovery, primary/coarse solids recovery, advanced suspended/fine solids recovery, drying, struvite production, nitrification denitrification, ammonia stripping, algae, vermi composting, membrane filtration, evaporation, other.

Increased biogas production Reduced sludge volumes Increase digester capacity Bioclass A quality sludge Removal and/or recovery of nitrogen and phosporous Production of struvite Production of ammonium sulphate Reduction of N2O emissions

How many systems have you installed on dairy farms or other livestock operations?						
None yet, but good potential for treatment of manure and/or other wastewater streams.						
Size of farm(s)?						
Location of farm(s)?						
What's the smallest/largest farm for your system?						

5

Input material description/characteristics: For example: raw manure, digestate, screened digestate, suitable non-farm feedstocks, other.
Raw manure, digestate, screened digestate, paunch, other biomass.
Does the technology treat the full manure stream for a farm or a fraction of the stream?
Fraction.
Do you consider this a mature system or ongoing farm development?
Ongoing farm development.
Any weather constraints?
Any bedding constraints? Yes No Please describe.
Solids foundation required.
Is this process scalable and to what extent (top and bottom limits)? No Please describe.
Fully scalable.
Do you have a known scaling factor? Yes No Please describe.

Input and output of your unit/system – do you have a mass balance analysis? Yes No Please describe.					
Available on request for specific business cases.					
Do you consider this technology part of a larger system that you provide? Yes No Please describe.					
Sustec only acts as a technology provider for TurboTec® and NutriTec®.					
Has your technology been accepted by the NRCS? Yes No Please describe.					
Would you be willing to provide information for a technical review? Yes No					
Would you be willing to respond to a Request for Quotation (RFQ) on a generic project for comparison of your technology against other technologies in the same unit process? Yes No					
Are there any other facts about this technology that you feel should be included in this document?					