



COMPANY INFORMATION

Date: 4/3/2017

Company:	HelioPure		
Phone:	+33 4 86 39 05 88	Web Site:	www.HelioPure.com
Address:	137 rue Jacquard	City:	Pertuis
State:	FRANCE	Zip Code:	84120

BUSINESS CONTACT

TECHNICAL CONTACT

Name:	Jean-Marc L’Huillier	Name:	Laurent Sohier
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Address:	137 rue Jacquard	Address:	137 rue Jacquard, ZAC St-Martin
City:	Pertuis	City:	Pertuis
State:	France	State:	France
Zip Code:	84120	Zip Code:	84120

BUSINESS HISTORY

How long have you been in business? 6 years

Are you part of a larger company? Yes No

Did you exist as another company before this company was formed? Yes No *If so, what was that company's name?*

Number of employees? 8

What is your business structure? Limited Liability Company (in France)

What types of insurance and or surety do you provide?

Describe your business service(s). *For example: consulting, development, engineering, equipment sales, finance, other.*

Engineering including pre-project studies, design, construction, commissioning, start-up, operation and maintenance

Describe your area or region of operation.

South Europe, North America, North Africa, Middle East

Does your company hold any patents or the rights to any patents? Yes No *If yes, please describe.*

Bio-Solar Purification process is patented in France and an international patent is pending

Do you manufacture equipment? Yes No *If yes, please describe.*

Do you integrate equipment manufactured by others? Yes No

If you integrate, please list the names of the companies you represent.

Water circulation and gas exchange vacuum system, built by Coldep, distributed by SEAREN in North America

How do you answer potential customer's questions about financial strength of your company?

We are a startup with private financing from various countries

Do you offer technical/service support? Yes No *If so, what methods?*

Remote assistance and on-site regular support

Do you offer design services? Yes No *If yes, please describe.*

Each reuse plant has to be sized appropriately according to the wastewater type, climate, and desired water quality for reuse.

Do you offer financing? Yes No *If so, what terms?*

Long-term full service contracts including unit lease

Are you a full stop shop? *Design to construction to operate?* Yes No *If so, please describe.*

We design, construct and operate each facility after pre-project studies on needs and constraints of the customer.

Do you have preferred partners? Yes No *If so, please list and provide contact information/identify partners by name.*

Do you have any third-party verification/research that has been done on this technology? Yes No

If so, please describe.

Third-party lab results are available.

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. Please describe.

Water reuse percentage, nutrient recovery, environmental performances on GHG and nutrient release, on full service contracts i.e. operated by us.

Are there any other aspects of your business that you feel should be included in this document?

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 you provide?

Bio-Solar Purification

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.

Wastewater treatment, water reuse, nutrients recovery, greenhouse gas emission reductions, nutrients and eutrophying substances releases in water ecosystems reduction.

How many systems have you installed on dairy farms or other livestock operations?

1

Size of farm(s)?

Large: over 40,000 cows

Location of farm(s)?

Saudi Arabia

What's the smallest and largest farm using your system?

Input material description and characteristics: *For example: raw manure, digestate, screened digestate, suitable non-farm feedstocks, other.*

Flushing water from milking parlor to recycle it

Does the technology treat the full manure stream for a farm or a fraction of the stream?

For now, we have tested on a fraction of the stream contained in water from milking parlor.

Do you consider this a mature system or ongoing farm development?

The technology is mature for domestic and industrial wastewater but small adjustments may be needed for on-farm applications.

Any weather constraints? Yes No *If so, please describe.*

Climate should be relatively sunny to operate optimally (seasonal uses are possible though)

Any bedding constraints? Yes No *If so, please describe.*

Is this process scalable and to what extent (top and bottom limits)? Yes No *If so, please describe.*

Footprint is the upper limit process needs at least 2 m2 to treat 1 m3 per day. Bottom: 10 m3/day, a smaller unit is possible, but cost is not effective.

Do you have a known scaling factor? Yes No *If so, please describe.*

Input and output of your unit/system – do you have a mass balance analysis? Yes No *If so, please describe.*

Do you consider this technology part of a larger system that you provide? Yes No *If so, please describe.*

Bio-Solar Purification is part of a whole treatment process integrated with pre-treatments and post-treatment according characteristics of wastewater to treat and quality wanted for reuse.

Has your technology been accepted by the NRCS? Yes No *If so, 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

REFERENCES

Please provide customers or colleagues with whom we can discuss your business and performance.

Please include a list with company name, location, contact name and contact information below.

Reference 1

Company Name:	AzCATEE Arizona State University
Company Location:	Phoenix Arizona
Contact Name:	Peter Lammers
Contact Information:	Peter.Lammers@asu.edu

Reference 2

Company Name:	
Company Location:	
Contact Name:	
Contact Information:	

Reference 3

Company Name:	
Company Location:	
Contact Name:	
Contact Information:	

Reference 4

Company Name:	
Company Location:	
Contact Name:	
Contact Information:	

Are there any other facts about this technology that you feel should be included in this document? *If so, please describe below.*