NEWTRIENT
INNOVATIVE SOLUTIONS IN RESOURCE RECOVERY

TECHNOLOGY PROVIDER BUSINESS INFORMATION REQUEST

COMPANY INFORMATION

Date: Aug 22, 2018

Company:	quasar energy group		
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State:	Ohio	**Zip Code:**	44131

BUSINESS CONTACT

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TECHNICAL CONTACT

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BUSINESS HISTORY

How long have you been in business? Since 2006 as Schmack BioEnergy, changed name to quasar in December 2009

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?*

Prior to December 2009, quasar energy group went by Schmack BioEnergy

Number of employees? 90

What is your business structure? LLC

What types of insurance and or surety do you provide?

Typical insurance includes liability insurance, builder's risk insurance; typical surety include performance and payment bonds

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

quasar energy group (quasar) is a Cleveland, Ohio-based renewable energy and organics management firm specializing in the deployment of sustainable technology solutions in agricultural, municipal and industrial applications.

Describe your area or region of operation.

North America

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

quasar's Integrated Anaerobic Digestion System (iADs) is a patent pending technology developed in conjunction with The Ohio State University. quasar also has a proprietary Gas Cleaning Technology and manure-phosphorus recovery system.

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

quasar designs, engineers and manufactures certain equipment for their projects if quasar believes that the right equipment is not economically available in the market.

Do you integrate equipment manufactured by others? **Yes** ☑ **No** ☐
If you integrate, please list the names of the companies you represent.

quasar integrates equipment made by others; often this includes pumps, hydraulic mixing, & tanks

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

quasar is willing to disclose information regarding financial stability/wherewithal once a project enters the procurement phase or, in some situations, during negotiations. quasar is prepared to provide financial statements and consolidated balance sheets, and/or Independent Accountant's Reviews on industry standard sound financial practices.

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

quasar offers various levels of technical support and O&M services, ranging from remote monitoring to full O&M, depending on the specific needs of each customer and project.

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

quasar has a complete suite of design-build services, including feasibility studies, design/engineering, construction, commissioning and O&M services.

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

quasar is prepared to invest resources and capital to develop projects and commercial terms that are practical and financeable. quasar has a network of investors and financial institutions that may provide all or a portion of the project equity and debt requirements.

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

quasar specializes in turnkey anaerobic digestion projects. We have in-house staff to assist in every stage of project development, including feasibility, engineering, construction, and operations. Our customers benefit from the perspectives of each one of our internal teams being integrated into our projects. With all necessary services under one roof, quasar is a single point of contact for any project.

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

quasar has an established network of highly qualified technology providers. Preferred partner Information is available for sustainable technology solutions in agricultural, municipal and industrial applications.

Do you have any third-party verification/research that has been done on this technology? **Yes** ☑ **No** ☐
If so, please describe.

Third-party verification results are available for all of quasar's projects. Additionally, quasar has two state of the art anaerobic specialty laboratories, one in Cleveland, Ohio and one in partnership with The Ohio State University at their Wooster research campus. Feedstock, effluent, and gas samples are routinely tested at the laboratory.

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.

quasar is willing to offer performance guarantees contingent upon laboratory testing and feedstock assurance. Performance guarantees are project specific and negotiated during the EPC process.

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

quasar's engineering and design expertise is the result of first hand ownership and operating experience. quasar has a comprehensive understanding of the characteristics associated with a successful anaerobic digestion project. This allows us to design our systems to minimize operational challenges. We believe this experience uniquely distinguishes and qualifies quasar. We are prepared not only to construct a system but, more importantly, to ensure the system operates to its design capacity over its entire useful life.