



**COMPANY INFORMATION**

Date: August 24, 2020

<b>Company:</b>	Jordan Energy		
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<b>State:</b>	New York	<b>Zip Code:</b>	12065

**BUSINESS CONTACT**

**TECHNICAL CONTACT**

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<b>City:</b>	Troy	<b>City:</b>	Troy
<b>State:</b>	New York	<b>State:</b>	New York
<b>Zip Code:</b>	12180	<b>Zip Code:</b>	12180

**BUSINESS HISTORY**

**How long have you been in business?** Jordan Energy was established in 2007

**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?** Six employees

**What is your business structure?** LLC

**Describe your business service(s).** *For example: consulting, project development, EPC services, finance, other.*

Jordan Energy's mission is to empower progress through sustainable energy. To accomplish this, we are committed to provide best-in-class, comprehensive solutions that enable customers to harness the power of the sun and other sustainable resources.

**Describe your area or region of operation.**

United States

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

**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 preferred companies you represent.*

Solar electrical generation panel and equipment including control systems and grid connections

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

Since its formation in 2007, Jordan Energy has developed 65 solar projects totaling 9,991 kilowatts of renewable energy production for dairy and farm producer. Jordan Energy was selected by Dairy Farmers of America's (DFA) to be a partner in DFA's Preferred Vendor Network, having been vetted to ensure their values and goals align with DFA's dairy members' needs.

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

Jordan Energy provides various levels of technical service and operational support depending on the project.

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

Jordan Energy provides project planning, development, support, and commissioning of on-farm solar energy and storage systems.

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

Jordan Energy identifies financing options and incentives that can supplement the cost of solar technology for customers

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

As a solar developer Jordan Energy brings together all aspects of solar projects for customers in a turn-key service.

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

Jordan Energy is a member of Dairy Farmers of America (DFA) Preferred Vendor Network program. This program provides DFA members access to project planning, development, support and discounted pricing for on-farm solar power systems.

**Environmental Benefits - Does your project provide environmental benefits to the farm?** Yes  No  *If so, please describe. For example: GHG emissions reduction, controlling farm odors and phosphorus and nitrogen loads.*

Our business model generates renewable energy which lowers the carbon footprint of dairy operations.

**Do you have experience monetizing environmental attributes from your projects?** Yes  No  *If so, please describe. For example: renewable energy certificates (RECs).*

Jordan Energy's project team monetizes environmental attributes for each project including renewable energy certificates and state and federal incentives.

**Economic Benefits - Does your business model provide economic benefits to the farm?** Yes  No  *If so, please describe. For example: added revenue and cost reductions from the digester operation and manure management costs to help financially sustain the farm.*

Our business model diversifies farm revenue and provides on-site power to reduce outages while supplying all the electricity needs at your farm and creating a self-sufficient farm

**Do you secure solar energy offtake agreements?** Yes  No  *If so, please describe. For example: agreements for purchase power, biogas, RNG, waste heat.*

When applicable, solar energy offtake agreements are secured with credit-worthy buyers in advance of project development.

**Do you have experience with USDA's renewable energy financing options for farmers?** Yes  No  *If so, please describe. For example: NRCS' EQIP program loans and grants.*

Jordan Energy provides assistance to dairy farmers interested in qualifying for NRCS loans and grant for renewable energy projects. Also, the USDA REAP program is available to cover up to 25 percent of a project cost.

**Do you have experience with large and small farm solar projects or community solar projects?** Yes  No  *If so, please describe.*

We have experience with over sixty farm solar projects and a variety of large and small on-farm applications.

**Do you have a standardized deal structure?** Yes  No  *If so, please describe.*

We offer a flexible approach to each project, as every deal is unique with respect to the development team, offtake, term, investment, etc.

**Do you provide operation and maintenance for the projects you are involved in?** Yes  No  *If so, do you have your own operations and maintenance team or is this contracted with a third party?*

Real-time monitoring and maintenance support will continue for the life of the system. You will officially have gone solar!

**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.*

Performance guarantees are evaluated and can be offered on a project basis.

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

No Cost Assessment. If you are interested in solar, reach out to us for an initial discussion! At no cost to you, we will assess your current energy usage and recommend the perfect solar system to generate income for your dairy as well as reduce electricity costs and eliminate outages.

#### Newtrient 9-Point Score Information

**Is this technology currently operational on at least three North American dairy farms?** Yes  No

**Does this technology have a record of reliable performance for more than 12 months on at least three farms?** Yes  No

**Is this technology installed on at least 10 North American dairy farms?** Yes  No

**What are the Installed capital costs of this technology?** *Please clearly define what is and is not included, Ranges are acceptable.*

We installed a 147.6 kW solar DC array on a dairy farm in Massachusetts. The annual production from this solar PV system is projected to be 150,000 kWh. The total solar system capital cost was \$379,000 (\$2.57/W), which is a 5.8-year simple pay back with incentives. However, if state and federal incentives are added, the system would have a 3.1-year pay back.

**What are the annual operating costs of this technology?** *Please clearly define what is and is not included, Ranges are acceptable.*

Typically, without inverter replacement, O&M costs for a fixed tilt solar panel system on a dairy range from \$7 to \$9/kW/yr.

**What value does this technology or the products it makes, deliver to the farm?** *Please list identifiable economic, environmental, or community value (e.g. reduced cost, increased income, reduced odor, improved nutrient use, etc.).*

A dairy farm that owns about 300 cows might see anywhere from \$4,000 - \$5,000 per month in energy costs. This translates to a power consumption nearly 35,000-36,000 kWh/month. An approximately sized solar system for such a farm would be around 314 kW, rendering up to a 80% reduction in power consumption during sunlight hours.

**Do you feel an in-depth Technology Information Request is needed to help people understand this technology?** Yes  No   
*Newtrient has an extensive technical information request document that can be provided, it is based on the information requested for applications to the USDA NRCS EQIP program.*