

**From:** [Butler, Matthew](#)  
**To:** [Puco Docketing](#)  
**Subject:** public comment 16-1871  
**Date:** Tuesday, September 15, 2020 9:00:58 AM  
**Attachments:** [2020 Ohio wind component manufacturers.xlsx](#)

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**From:** Thomas Schock <[tschock1@hotmail.com](mailto:tschock1@hotmail.com)>  
**Sent:** Monday, September 14, 2020 10:09 PM  
**To:** Himes, Lance <[Lance.Himes@odh.ohio.gov](mailto:Lance.Himes@odh.ohio.gov)>; Wilson, Ashley <[Ashley.Wilson@odh.ohio.gov](mailto:Ashley.Wilson@odh.ohio.gov)>  
**Subject:** Icebreaker Wind - Final Thoughts

Dear Interim Director Lance Himes,

Icebreaker Wind demonstration project has been extensively studied for the past 12 years. It has received the approval of over 20 federal, state and local agencies. It has won a \$40 million grant from the U.S. Department of Energy. Neither Icebreaker nor Lake Erie Energy Development Company (the Cleveland based developer of Icebreaker) have received or will receive any State of Ohio grants, subsidies or funding of any kind.

Icebreaker will create 500 jobs and bring \$253 in economic development to Ohio. This six-turbine demonstration project has the potential to create a freshwater offshore wind industry similar to the impact of the five turbine Block Island Wind project in the Atlantic. Today, there are 19 projects in development all along the East Coast with 45,000 jobs projected by 2025. Ohio has 64 manufacturing companies that make parts for the wind industry (see attached list). These companies are spread throughout the state and will benefit from a strong Ohio wind industry.

The Ohio Power Siting Board approved Icebreaker Wind on May 21, 2020 with the condition that the wind turbines be shutdown nightly from March 1 to November 1. This condition, ostensibly to protect migrating birds and bats, was inserted without any prior discussion and without disclosing it to the Icebreaker principals. Nightly shutdown for eight months of the year will greatly reduce the electricity generated and make financing of the project very difficult. This very issue (how to protect birds and bats) had been extensively negotiated in 2019 with the OPSB staff and the Ohio Department of Natural Resources staff and resulted in a signed agreement to have extensive radar monitoring of bird and bat collisions to determine migration patterns. If there are more than 21 strikes in 24 hours, the turbine operations will be modified. Icebreaker is a demonstration project. If the turbines are forced to shut down nightly, these impacts will never be known. Therefore, it is much more sensible to allow the turbines to operate to determine what, if any, the impacts will be on birds and bats.

This Thursday, September 17<sup>th</sup>, the OPSB board will have another opportunity to discuss and vote on removing the nightly shutdown condition. Ohio has always been a state that invents, innovates and embraces new ideas. As a voting member of the board it is imperative that you carefully consider all the prior analysis, and base your decision on the science and the facts, not the wishes of the OPSB Chairman. It is time to speak truth to power and do what is right for all Ohioans.

Thank you for your consideration,

Tom Schock

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**2020 Ohio companies making components for the Wind Industry - 64 total Ohio manufacturers**

<u>Account</u>	<u>ComponentClassifications</u>	<u>ComponentCategories</u>	<u>ComponentProducts</u>	<u>City</u>	<u>State</u>	<u>Congressional District</u>	<u>State House</u>	<u>State Senate</u>
ABB Inc.	Electrical	Power Transmission	Electrical drivetrain, control systems, electrical protection, hydraulic	Wickliffe	OH	OH-14	OH-060	OH-025
AeroTorque Corporation	Power transmission	Drive train components	Torsion controls	Sharon Center	OH	OH-16	OH-069	OH-022
AFCO Precision (Automatic Feed Co.)	Power transmission	Machining/fabrication		Napoleon	OH	OH-05	OH-081	OH-001
Allied Moulded Products	Power transmission	Machining/fabrication	control housings	Bryan	OH	OH-05	OH-081	OH-001
American Tank & Fabricating Company	Power transmission	Machining/fabrication		Cleveland	OH	OH-09	OH-013	OH-023
AnSCO Machine Company				Peninsula	OH	OH-13	OH-038	OH-027
Argosy Wind Power Ltd	Distributed Wind Turbines	Turbines	Design & assemble turbines	Solon	OH	OH-14	OH-006	OH-024
Ashland Specialty Chemical	Power transmission	Lubricants	lubricants, paints, coatings	Dublin	OH	OH-12	OH-021	OH-016
BASF Corporation	Materials	Composites	Concrete additives for high performance grouts used for concrete to	Beachwood	OH	OH-11	OH-008	OH-025
Byrne Manufacturing	Power transmission	Gears	Speed increasers	Mansfield	OH	OH-12	OH-002	OH-022
Canton Drop Forge	Power transmission	Gears	Gear blanks	Canton	OH	OH-16	OH-048	OH-029
Cast-Fab Technologies Inc.	Structural	Castings	Castings of rotor hubs, bedplates, support bases, nacelles, and gear b	Cincinnati	OH	OH-02	OH-031	OH-009
CMC/BMC Utility Products	Power transmission	Machining/fabrication	Splice Cabinet	Hamilton	OH	OH-08	OH-051	OH-004
Continental Fan Manufacturing Inc.	Equipment	Other equipment	Customized fans	Dayton	OH	OH-10	OH-040	OH-006
Dayton Superior Corp.	Structural	Fasteners	Anchor bolts, foundation forming	Dayton	OH	OH-10	OH-042	OH-006
Doncasters Fastener Systems Group	Structural	Fasteners	Stud Welding products	Elyria	OH	OH-04	OH-055	OH-013
Eaton Corporation				Cleveland	OH	OH-11	OH-010	OH-021
Edco, Inc.	Power transmission	Machining/fabrication	machining, retooled from auto	Toledo	OH	OH-09	OH-045	OH-011
EGC Enterprises Inc.	Structural	Fasteners		Chardon	OH	OH-14	OH-099	OH-032
Elyria Foundry LLC	Structural	Castings	Wind hubs, bedplates and gearbox housings, and other cast compon	Elyria	OH	OH-04	OH-055	OH-013
EMC Precision Machining	Power transmission	Machining/fabrication		Elyria	OH	OH-04	OH-055	OH-013
ERICO International Inc.				Solon	OH	OH-14	OH-006	OH-024
Federal Gear	Power transmission	Gears		Willoughby	OH	OH-14	OH-060	OH-025
Gleason Corporation	Equipment	Manufacturing machinery	Gear production equipment	Dayton	OH	OH-10	OH-042	OH-006
Graco Inc.	Materials	Composite coatings	Sealants, adhesives, epoxy machines	North Canton	OH	OH-16	OH-048	OH-029
Graco Inc.	Power transmission	Lubricants	Automated lubrication systems	North Canton	OH	OH-16	OH-048	OH-029
Hamby Young	Electrical	Power Transmission	substations and high voltage applications	Aurora	OH	OH-14	OH-076	OH-018
Heidtman Steel Products	Materials	Steel	Coil & sheet carbon-based steel; carbon based steel blanks	Cleveland	OH	OH-11	OH-011	OH-021
Henkel Corporation	Materials	Composite coatings	Composite coatings, adhesives, sealants, surface treatments	Warrensville Heights	OH	OH-11	OH-012	OH-025
Honeywell Aerospace Defense & Space	Equipment	Lighting	FAA Certified Aviation Obstruction Lights.	Urbana	OH	OH-04	OH-085	OH-012
Horsburgh & Scott Co.	Power transmission	Gears		Cleveland	OH	OH-11	OH-010	OH-021
HPM America	Structural	Castings		Mount Gilead	OH	OH-12	OH-087	OH-026
Hughey & Phillips	Equipment	Lighting	FFA Obstruction Lighting	Urbana	OH	OH-04	OH-085	OH-012
ILSCO	Electrical	Power Transmission	power and grounding connectors	Cincinnati	OH	OH-02	OH-031	OH-009
Industrial Nut Corp.	Structural	Fasteners	nuts	Sandusky	OH	OH-09	OH-089	OH-002
International Paint LLC	Materials	Composite coatings	Polymeric coatings and epoxy	Cleveland	OH	OH-11	OH-011	OH-021
Kalt Manufacturing Company	Power transmission	Machining/fabrication		North Ridgeville	OH	OH-07	OH-055	OH-013
Kaydon Bearings Division				Avon	OH	OH-07	OH-057	OH-013
Koyo Bearings North America	Power transmission	Bearings	ball and roller bearings	West Lake	OH	OH-16	OH-016	OH-024
Lincoln Electric Company	Electrical	Wire & Cable	Wires, fluxes, welding machines	Cleveland	OH	OH-11	OH-008	OH-025
Magna Machine Co.	Power transmission	Machining/fabrication	machine rotor hubs, support bases (Clipper)	Forest Park	OH	OH-01	OH-028	OH-008
Midwest Industrial Castings	Structural	Castings		Minster	OH	OH-04	OH-084	OH-012
Milacron Inc	Equipment	Manufacturing machinery		Mount Orab	OH	OH-02	OH-066	OH-014
Minster Wind	Structural	Castings	castings, fabrication and machining	Minster	OH	OH-04	OH-084	OH-012
Nova Machine Products	Structural	Fasteners		Cleveland	OH	OH-16	OH-014	OH-023
Owens Corning	Materials	Composites		Granville	OH	OH-12	OH-071	OH-031
Parker Hannifin Corporation	Power transmission	Brakes	Brakes	Mayfield Heights	OH	OH-14	OH-012	OH-025
PPG Industries Inc.	Materials	Composite coatings	resins, refinish coatings	Delaware	OH	OH-12	OH-067	OH-019
PPG Industries Inc.	Materials	Composite coatings	headquarters, refinish coatings, powder coatings	Strongsville	OH	OH-16	OH-007	OH-024
PSL of America Inc.	Power transmission	Bearings	Main shaft bearing	Twinsburg	OH	OH-14	OH-037	OH-027
Roechling Machined Plastics	Materials	Composites	fiberglass	Cleveland	OH	OH-11	OH-008	OH-025
Rotek Inc.	Power transmission	Bearings	Slewing bearings and rolled rings, roller bearings	Aurora	OH	OH-14	OH-076	OH-018
Sherwin-Williams	Materials	Composite coatings	paints and coatings	Cleveland	OH	OH-11	OH-010	OH-021
Sika Corporation	Materials	Composites	sealant, adhesive materials	Marion	OH	OH-04	OH-086	OH-026
Sky Climber Renewables	Equipment	Fall protection	Ladders, tower access products, lifts	Delaware	OH	OH-12	OH-067	OH-019
Stromag Inc.	Power transmission	Brakes	Rotor lock systems & brakes	Dayton	OH	OH-10	OH-041	OH-006
SUREnergy	Distributed Wind Turbines	Turbines		Sandusky	OH	OH-09	OH-089	OH-002
Swiger Coil Systems	Electrical	Generator components		Cleveland	OH	OH-09	OH-014	OH-023
T&B Foundry	Structural	Castings	smaller castings	Cleveland	OH	OH-11	OH-011	OH-021
The Benjamin Company	Power transmission	Machining/fabrication		Port Clinton	OH	OH-09	OH-089	OH-002
The Dyson Corporation	Structural	Fasteners	Fastners, nuts, bolts	Painesville	OH	OH-14	OH-060	OH-025
TUF-TUG Products	Equipment	Fall protection	Safe climb systems, climb assists, material handling equipment	Moraine	OH	OH-10	OH-042	OH-006
USLC Advanced Manufacturing	Power transmission	Gears	Gears	Cleveland	OH	OH-11	OH-010	OH-021
WebCore Technologies Inc.	Materials	Composites	composite core for blades	Miamisburg	OH	OH-10	OH-042	OH-006

**This foregoing document was electronically filed with the Public Utilities**

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Summary: Public Comment of Tom Schock electronically filed by Docketing Staff on behalf of Docketing