

## Icebreaker Fact Sheet

### About Icebreaker:

An initial project, “*Icebreaker*,” is a blueprint to position Ohio as the leader in the region. LEEDCo’s focus includes civic engagement, research, education, and supply-chain development. “*Icebreaker*” will also create a leasing and permitting framework with key regulatory agencies to develop a responsible plan for building an industry.



Five to nine turbines (20-30 megawatts capacity), located seven miles off the coast of Cleveland in “favorable” areas as identified by the Ohio Department of Natural Resources. A 2011 Economic Impact Study completed by Kleinhenz & Associates’ indicates Icebreaker will create 500 jobs and result in \$80 million of Gross Regional Product (GRP) for Ohio. A 1,500 MW scenario by 2021 would create 6,200 jobs and \$6.4 billion in GRP. Icebreaker is a first-of-its-kind project:

- ▲ First freshwater project in North America
- ▲ First Submerged Land Lease Option in Great Lakes.
- ▲ ...because you can't spell experience without Erie.

### Milestones:

- ✓ 6 years of wind data from Cleveland Crib
- ✓ Spring/Fall avian radar and bat studies
- ✓ Geophysical and geotechnical profiling
- ✓ Feasibility Study by juwi
- ✓ Ice profiling with video data
- ✓ Economic Impact Assessment sponsored by NorTech
- ✓ Submerged Land Lease Option in Lake Erie
- ✓ 2011 Department of Energy grants totaling \$1.2 million.
- ✓ 2011 TeamNEO Award – Intergovernmental Collaboration
- ✓ 2011 UCEAO Partnership Recognition Award

### The Big Picture

#### Global Market Trends

While there are no offshore turbines installed in the U.S., globally the market continues to flourish with total investments approaching \$200 billion. With over 1,500 turbines already connected to the grid in ten countries, Europe is on track to employ 294,000 people directly in offshore wind by 2030. Just last month, the U.K. announced the “East Anglia” project with 7.2 GW of capacity; equal to seven nuclear plants and enough power for five million homes.

Beyond Europe, Japan, India, and China are all ramping up from pilot projects to commercial development. China will install 5 GW by 2015 and 30 GW by 2020. South Korea invested \$9 billion for a 2.5 GW project by 2019. Even more remarkable is that Blackstone and Danish toy giant LEGO, have invested over \$3 billion in German projects.

### About LEEDCo:

Lake Erie Energy Development Corporation (LEEDCo) is a regional non-profit and economic development organization building an offshore wind industry in Ohio. LEEDCo directly represents Cuyahoga, Ashtabula, Lake, and Lorain Counties, in addition to the City of Cleveland, the Cleveland Foundation, and NorTech.

For more information and FAQs on LEEDCo & Icebreaker, please visit [www.LEEDCo.org](http://www.LEEDCo.org)