



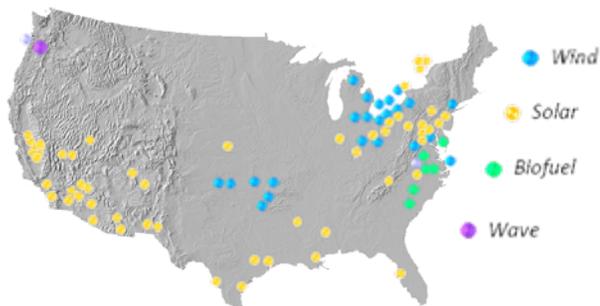
# Hampton Roads Wind Project October 15, 2010



# Apex Wind Energy is a member of Greenlight Energy Resources



## GREENLIGHT ENERGY RESOURCES



*Apex Wind Energy was formed in 2008 to develop onshore and offshore wind energy facilities in North America. Apex is part of Greenlight Energy Resources, a company dedicated to investing in and developing renewable energy solutions. Greenlight has founded companies active in the development of wind, wave, solar, and biofuel resources.*

# Apex develops Distributed, Greenfield, and Offshore projects throughout North America



Market Segment	 <p><b>Distributed</b></p>	 <p><b>Greenfield</b></p>	 <p><b>Offshore</b></p>
<i>Locations</i>	<i>Industrial, military, landfill sites and smaller areas close to load</i>	<i>Rural areas</i>	<i>Atlantic coast and Great Lakes</i>
<i>Drivers</i>	<i>Access to existing infrastructure and high power prices</i>	<i>One of the lowest cost renewable energy solutions</i>	<i>Access to load centers, scale, economic development</i>
<i>Challenges</i>	<i>Can be a complicated process with corporate and public owners. Environmental liability</i>	<i>Lack of access to transmission may require large transmission projects to reach the grid</i>	<i>Regulatory risk, higher cost, engineering challenges</i>
<i>Project Size</i>	<i>10 to 75 MW</i>	<i>50 to 350 MW</i>	<i>300 MW +</i>
<i>Project Cost</i>	<i>\$20 to 150 million</i>	<i>\$100 to 700 million</i>	<i>\$1 billion +</i>
<i>Time to Develop</i>	<i>1 to 3 years</i>	<i>1 to 5 years</i>	<i>3 to 8 years</i>
<i>Portfolio</i>	<i>AK, NY, OH, MD, MI, and WV</i>	<i>OH, IN, and OK</i>	<i>Mid-Atlantic &amp; Great Lakes</i>

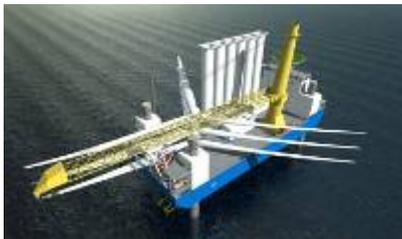
## *Part of Virginia's Business Community*

- Apex Wind Energy was established in Charlottesville, Virginia in 2008 by an experienced wind development and finance team
- Apex employs a team of 40 professionals dedicated to wind energy
- Experience in all phases of wind development, including in-house site selection, GIS, resource assessment, permitting, electrical engineering, civil engineering, procurement, legal counsel, financial modeling, and project finance
- Early member of the Virginia Offshore Wind Coalition (VOW)
- Working closely with VOW and the Virginia Economic Development Partnership to promote Virginia as a hub for the offshore wind industry on the east coast



## *Hampton Roads Wind Project Overview*

- In August 2009, Apex Wind Energy submitted a Commercial Lease Request to BOEM for approximately 181 square miles off the coast of Virginia.
- Site is located 18.5 miles from shore in water depths between 25 - 31 meters, and is capable of supporting over 1,200 MW of capacity.
- Clean, stable-priced energy for approx. 332,000 homes.
- The scale of the project enables the development of a sustainable supply chain over a multi-year construction period.





## *Next Steps*

- Continue transmission interconnection studies through the PJM queue process
- Optimize final layout and the size of the first project phase based on community input, environmental studies, construction costs, and demand for the energy
- Secure the exclusive right from the Bureau of Ocean Energy Management to continue to perform more in-depth wind resource assessments, environmental studies, and geotechnical and geophysical studies
- Apex Wind Energy is at the earliest stages of developing a project that will take several years before we are able to begin construction. We encourage participation by the public to help us define a project that is respectful of the waters off of the Virginia coast and becomes a proud heritage of Virginians for many years.



**APEX**  
WIND ENERGY

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