

Poor Mountain Wind Energy Center

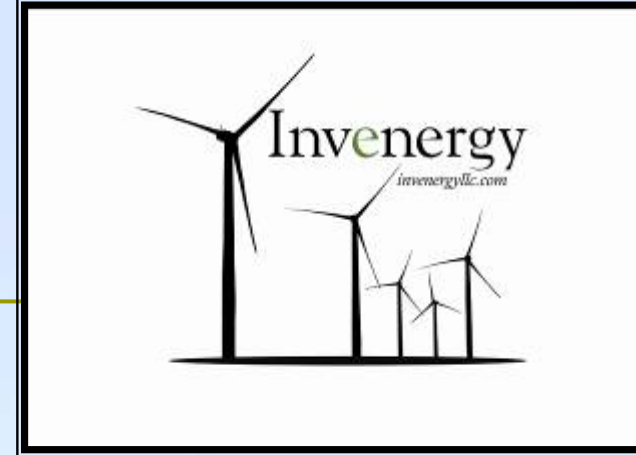
Presentation to the Governor's Conference on Energy

Invenergy Wind LLC



October 14, 2010

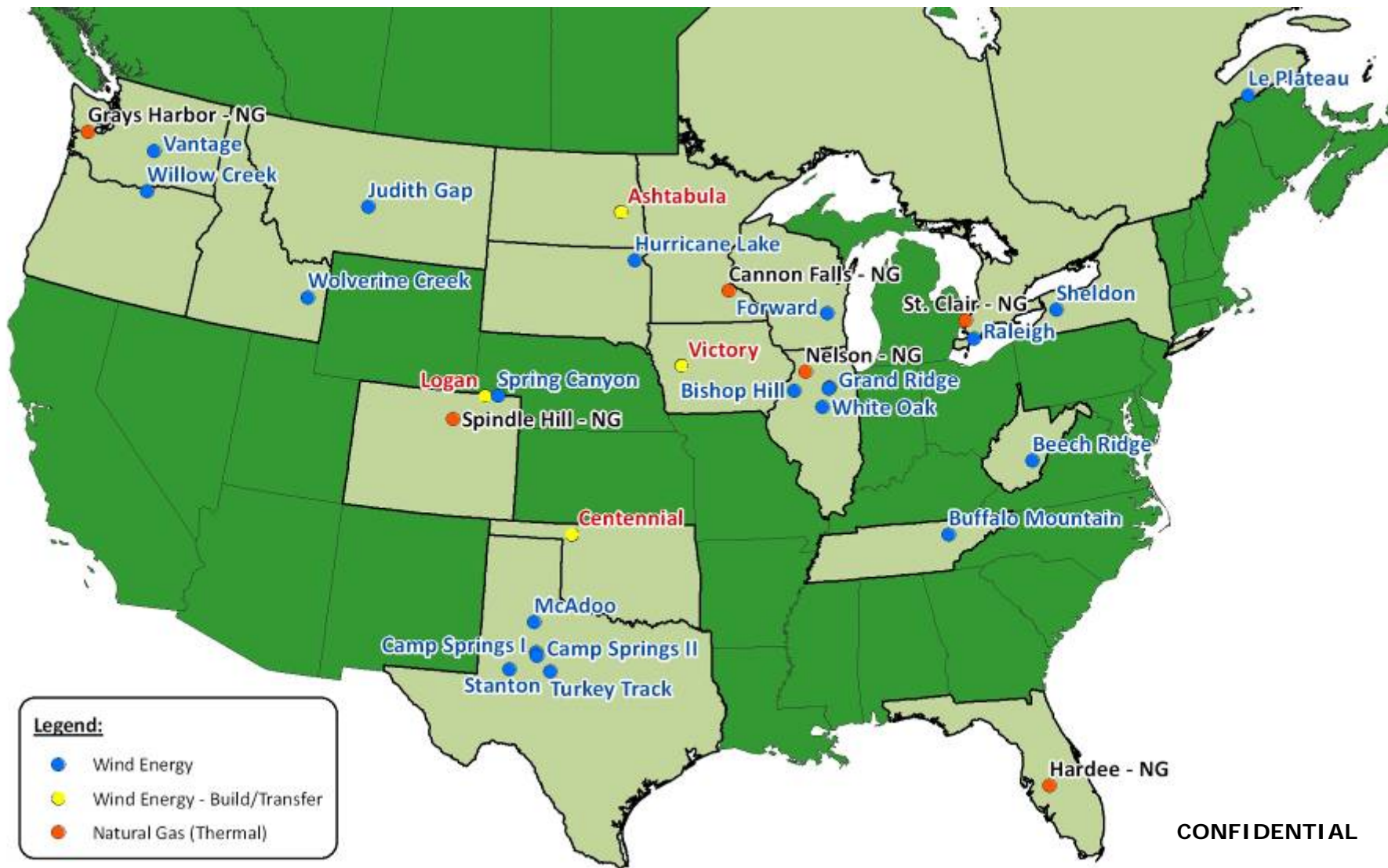
Invenergy



- ❑ U.S. company, based in Chicago, IL
- ❑ Over 350 employees worldwide
- ❑ Independent developer of renewable energy and natural gas electricity generation projects
- ❑ Focused on development, construction management, financing, operations, maintenance and long-term ownership
- ❑ Largest independently-owned U.S. wind energy developer (6th largest U.S. owner/operator of wind energy facilities)
- ❑ 2nd Largest U.S. Purchaser of General Electric Wind Turbines (over 2,000 GE turbines placed into operation)
- ❑ Six U.S. natural gas generation projects in operation or construction (2,810 MW)

Invenergy North America

Wind and NG/Thermal Portfolio - Map



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Poor Mountain Energy Center Proposed Project

- Small size for a utility-scale wind project
 - 15 to 18 turbines (2.5 MW Turbines)
 - 37.5 to 45 megawatts of nameplate capacity
- Maximum blade tip height = 443 feet
- Maximum hub height = 278 feet
- Collection substation and interconnection switchyard located onsite, adjacent to existing high-voltage transmission line

Poor Mountain Energy Center Development Progress

- ❑ Six years of ongoing monitoring of wind speeds onsite
- ❑ Comprehensive avian studies completed onsite
- ❑ PJM Interconnection Generation Request for 45 MW
- ❑ Detailed analysis of viewshed impacts, including photographic simulations
- ❑ Outreach to Roanoke County Government and local stakeholders
- ❑ FAA Hazard Determinations Requested, expect results by November 2010
- ❑ Roanoke County working on ordinance; SUP to be filed January 2010
- ❑ Numerous endorsements from local and statewide organizations
 - Roanoke Valley Cool Cities Coalition
 - U.S. Green Building Council Southwest Virginia Chapter
 - Chesapeake Climate Action Network
 - Greater Roanoke Valley Asthma and Air Quality Coalition
 - Renewable Energy Electric Vehicle Association

Poor Mountain Energy Center

Site Strengths

- ❑ Offers one of the strongest wind resources available on private land in VA*
 - ❑ Existing AEP high voltage transmission line already crosses the site (minimal habitat fragmentation)*
 - ❑ Existing roads provide direct access to the site
 - ❑ Numerous communications towers adjacent to site (pre-existing visual impacts)
 - ❑ Site plan provides significant buffer (almost 1/2 mile) from neighboring residences
 - ❑ Located in a remote part of Roanoke County, zoned agricultural*
 - ❑ Located close to a population/electricity consumption center*
- * Criteria corresponding to Sierra Club's Wind Siting Advisory Most Appropriate Sites

Poor Mountain Energy Center Carbon Emission Model

- Annual Energy Production= Approx. 138,000,000 kWh
 - 45MW X 35% NCF X Avg. Annual Hours
 - Includes line losses, facility loads, bat curtailment, 60 acres deforested
- Annual CO2 Emissions Reduction= 118,735 tons CO2
 - Annual Energy Production X Carbon Emissions Factor
 - Studies show that wind displaces power plant with highest marginal operating cost, almost always fossil fuel generation
- Environmental Benefit
 - 10,000+ households powered by wind turbines
 - Roanoke County will offset 6.5% of current emissions budget, annually
 - Equivalent of 21,000+ cars being taken off the road

Questions?



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