

# **West Virginia: Maintaining Energy Leadership**

## **Constructing a Wind Farm in West Virginia**



**WHITE**  
CONSTRUCTION, INC

# **BEECH RIDGE WIND FARM**

**Greenbrier County**

- **67 GE 1.5 MW wind turbines**
- **100.5 total megawatts**
- **Beech Ridge Energy, LLC**
- **Construction: Spring 2009 - April 2010**



# LOCAL IMPACTS

- **Employment of 150 tradesmen**
- **Combined hours of 126,000**
- **Purchased more than 150,000 tons of aggregate**
- **Purchased supplies and services from more than twenty vendors along with equipment rental**





# LAYDOWN YARD

- **Fifteen acres rented from local landowner**
- **Mobile offices rented from William-Scottsman out of Charleston, WV.**
- **Sanitary restrooms rented locally**
- **Fuel purchased locally from Rupert Oil**
- **Dumpsters rented from Greenbrier Valley**



# Key Phases of Construction

- **Civil**
- **Excavation**
- **Foundations**
- **Erection**





# ROAD CONSTRUCTION & IMPROVEMENTS

- **Constructed thirteen miles of new roads**
- **Moved over 1-million cubic yards of material**
- **Made improvements to more than twenty miles of existing roads**
- **SWPPP inspection and maintenance**









# FOUNDATION PLACEMENT

- **270 cubic yards of concrete placed by local tradesmen**
- **Raw materials purchased from Boxley Stone Quarry Alta, WV.**
- **18 tons of rebar per foundation installed by local tradesmen**





# COMPLETED FOUNDATION



# Walking the Crane





# SETTING THE BASE AND MID



# SETTING THE NACELLE AND ROTOR





# ECONOMIC IMPACTS

<b>Labor</b>	<b>\$ 9.5 million</b>
<b>Material</b>	<b>\$ 6.5 million</b>
<b>Equipment</b>	<b>\$ 6.5 million</b>
<b>Subcontractor's</b>	<b>\$ 5.0 million</b>
<b>In-directs</b>	<b>\$ 2.5 million</b>
<b>Total</b>	<b>\$ 30.0 million</b>



# **WEST VIRGINIA A JOB WELL DONE!**



**Producing 100 MW of Renewable Energy**

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