West Virginia: Maintaining Energy Leadership

Constructing a Wind Farm in West Virginia
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
Walking the Crane
SETTING THE BASE AND MID
Setting the Nacelle and Rotor
### Economic Impacts

<table>
<thead>
<tr>
<th>Category</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Labor</td>
<td>$ 9.5 million</td>
</tr>
<tr>
<td>Material</td>
<td>$ 6.5 million</td>
</tr>
<tr>
<td>Equipment</td>
<td>$ 6.5 million</td>
</tr>
<tr>
<td>Subcontractor’s</td>
<td>$ 5.0 million</td>
</tr>
<tr>
<td>In-directs</td>
<td>$ 2.5 million</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$ 30.0 million</strong></td>
</tr>
</tbody>
</table>
West Virginia a Job Well Done!

Producing 100 MW of Renewable Energy