

**UPC SHEFFIELD WINDFARM  
COMPARISON OF REVISED PROJECT VS. ORIGINAL PROJECT**

	<b>Revised (Clipper) Layout</b>	<b>Original (Gamesa) Layout</b>
<b>Turbine Layout</b>	16 turbines on the northern array ➤ <b>38% fewer turbines total</b>	26 turbines – 20 on northern array, 6 on the southern (Hardscrabble) array
<b>Max. Height</b>	~ 420 ft -- 5% taller	~ 399 ft
<b>Project Capacity</b>	2.5 MW per turbine, 40 MW total	2.0 MW per turbine, 52 MW total
<b>Power Production</b>	111,900 MWh/yr ➤ <b>can serve load of 15,350 homes – 100% of Caledonia, 44% of NEK<sup>1</sup></b>	147,600 MWh/yr ➤ can serve 20,247 homes
<b>Land/Ridgelines</b>	No southern array, 2 turbines in Sutton ➤ <b>On 3 of 48 peaks within 10 mi (6%) or 3 of 193 within NEK (1.5%)<sup>2</sup></b>	Hardscrabble array, 6 turbines in Sutton  On 5 of 56 peaks within 10 mi (9%)
<b>Preferred Access Route</b>	I-91 Exit 25/New Duck Pond Road ➤ <b>Eliminates perceived conflicts on Berry Hill/Hardscrabble/Dareios Rds</b>	I-91 Emergency Exit/Berry Hill Road  Reduces local road use. Does not require passage through any towns.
<b>Distance to Closest Homes</b>	½ mile ➤ <b>Twice as far away</b>	< ¼ mile
<b>Land Clearing</b>	79 acres during construction (~ 50 acres allowed to revegetate) ➤ <b>clearing reduced by 34%</b>	119 acres during construction
<b>New Roads</b>	5.5 miles ➤ <b>reduced by 10%</b>	6.1 miles
<b>Visual</b>	➤ <b>38% fewer turbines in total</b> ➤ <b>No Hardscrabble array, eliminates views from nearby homes and southerly from KGS</b> ➤ <b>20% less turbines on north array, reduced views from Crystal Lake.</b> ➤ <b>Fewer lights: ~ 8 instead of 15.</b>	Shorter overall height than Clipper
<b>Noise</b>	Levels well below all guidelines. ➤ <b>Further reduces noise levels at closest residences.</b>	Levels well below all guidelines.

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	<b>Revised (Clipper) Layout</b>	<b>Original (Gamesa) Layout</b>
<b>Economic Benefits</b>	<p>~ \$25 million – State economic output during construction and development</p> <p>~ \$1.6 million/yr – VT disposal income</p> <p>20 new permanent Vermont jobs</p> <p>Between \$350,000 and \$481,250 /yr to Sheffield in taxes and other payments</p>	<p>&gt; \$25 million – State economic output during construction and development</p> <p>~ \$2.5 million/yr – VT disposal income</p> <p>24 new permanent Vermont jobs</p> <p>\$400,000/yr to \$550,000/yr to Sheffield taxes/payments</p>
<b>Air Emissions Avoided (est.)</b>	<p>CO2 – 130 million lbs/yr</p> <p>SO2 – 262,200 lbs/yr</p> <p>NOx – 76,700 lbs/yr</p>	<p>CO2 – 172 million lbs/yr</p> <p>SO2 – 345,800 lbs/yr</p> <p>NOx – 101,200 lbs/yr</p>
<b>Wetlands, Plants</b>	<p>1.16 acres of Class 3 wetlands impacted</p> <ul style="list-style-type: none"> <li>➤ <b>Beaver wetland avoided. Maintains corridor from wetland to BSB area.</b></li> <li>➤ <b>No risk to any RTE plant species.</b></li> </ul>	<p>0.46 acres of Class 3 wetlands impacted</p> <p>Road to have crossed beaver wetland</p> <p>RTE species on Hardscrabble avoided</p>
<b>Wildlife - General</b>	<p>38 bear-scarred beech (BSB) removed</p> <ul style="list-style-type: none"> <li>➤ <b>Reduces habitat impacts by 77%</b></li> <li>➤ <b>Less fragmentation of habitat.</b></li> </ul>	<p>167 BSB removed</p>
<b>Birds / Bats</b>	<p>Low risk of fatalities</p> <ul style="list-style-type: none"> <li>➤ <b>Fewer turbines means even less collision risk</b></li> <li>➤ <b>Reduces risk near beaver wetland</b></li> </ul>	<p>Low risk of fatalities</p>
<b>Streams and Stormwater</b>	<p>Stormwater management greatly simplified by avoiding beaver wetland, and steep grade up to Norris Mtn.</p>	<p>Involves complicated beaver wetland crossing and steep grade up Norris Mtn</p>
<b>Historic Sites</b>	<p>Reduced visual impact at Crystal Lake.</p>	<p>No undue adverse impact.</p>
<b>Shadow Flicker</b>	<p>Potential occurrence very low to none</p> <ul style="list-style-type: none"> <li>➤ <b>Eliminates flicker potential at Hardscrabble homes.</b></li> </ul>	<p>Potential occurrence very low</p>

Notes:

<sup>1</sup> Caledonia County – 14,956 housing units, NEK (all 3 counties) – 34,837 (Source: US Census Bureau)  
7.29 MWh/yr per residential customer – VT average (Source: DPS)

<sup>2</sup> Peaks of 1500 feet or taller. Based on GIS data from Vermont Center for Geographic Information.