

Appalachian State University
Campus Renewable Energy Systems

Renewable Energy Project: Broyhill Wind Turbine

System description (Include brief description of system with location info)	The Broyhill wind turbine is a direct grid tied Northern Power Systems Northwind 100 kW turbine with 34ft blades and on a 120 ft tower. Broyhill Inn & Conference Center, 775 Bodenheimer Dr., Boone, NC 28607		
Equipment manufacturer(s) (With list of all critical components in system m/u that each is associated with)	Northern Power Systems Northwind 100 wind turbine		
Date placed in service	June 22, 2009		
Account information	Meter NRLP 36 200 263	Account # n/a	
Installation contractor (Include address & contact info)	Alteris Renewables 64 Main St. Montpelier, Vt 05602	Contact – Phone -	
Rated output (Nameplate capacity & anticipated yearly output)	100kW with an average annual output of 110,000 kWh/year		
System monitoring (Remote available / certifiable)	Yes / Yes		
Warranty (List any warranties for equipment and time period)	Turbine – 3 year Extended Limited parts-only		
Interconnect Agreement (Req'd / in place / date / with)	Yes	Yes	NRLP
Power Purchase Agreement (Req'd / in place / date / with)	Yes	Yes	NRLP
RECs available (Are RECs available to sell / how many)	Yes, approx. 110 per year		
NC GreenPower (Sellable to NCGP / price / contract)	No	N/A	N/A
Documentation (Owner's manual, individual responsible for control)	Located in the Office of Sustainability		
System maintenance (Primary for system maintenance)	ASU Physical Plant personnel		
Maintenance contract (In place / terms)	Yes, Northern Power Systems, Inc. ending June 30, 2017.		
Cost / Funding participants	\$533,000	ASUREI (\$319,800) and NRLP (\$213,200)	
Other comments			