

Contract No. R002-005
“Small Wind Turbine Training Center”

Submitted by Energy & Environmental Research Center
Principal Investigator: Bradley G. Stevens, P.E.

PARTICIPANTS

Sponsor	Cost Share
Energy & Environmental Research Center	
Utilizing U.S. Department of Energy (DOE)	\$ 50,000
North Dakota Industrial Commission	<u>\$ 50,000</u>
Total Project Cost	\$100,000

Project Schedule – 12 months	Project Deliverables:
Contract Date – November 7, 2008	Status Report: March 31, 2009 v
Start Date – July 1, 2008	Status Report: June 30, 2009 v
Completion Date – September 30, 2010	Status Report: September 30, 2009 v
	Status Report – March 31, 2010
	Status Report – June 30, 2010
	Final Report– September 30, 2010

OBJECTIVE/STATEMENT OF WORK:

This project, utilizing the Energy & Environmental Research Center (EERC) Plains Organization for Wind Energy Resources® (POWER®) as part of an existing U.S. Department of Energy award, will expand the scope of activities related to developing a small wind turbine training center. The small wind turbine training center will consist of up to two small wind turbines less than 20 kW in size. Once constructed, the facility would provide educational opportunities to a wide range of participants including grade school- through college-level students and the general public. The EERC has agreed that qualified staff will be provided to lead facilitated discussions for groups wishing to tour the site for a minimum period of two years following the commencement of turbine operation. In addition, the facility will allow the EERC to provide technical training workshops related to the installation, operation, and maintenance of small wind turbines. The Commission conditioned the commitment of funds to this project upon the EERC agreeing to provide at least three planned technical workshops or educational events during the contract period.

STATUS

A status report for the two quarters October 1, 2008 – March 31, 2009 was received in May, 2009. The report shows that EERC is (i) continuing its efforts to finalize the Engineering and Construction Plan document for submission to the City of Grand Forks; (ii) updating price quotes from Endurance Wind Power, Inc., and (iii) compiling mailing lists for individuals interested in attending workshops.

A status report for the quarter ending June 30, 2009 was received in August, 2009. The report shows that EERC is (i) continuing its efforts to finalize the Engineering and Construction Plan document for submission to the City of Grand Forks; (ii) has submitted a purchase order to Endurance for the procurement of one S-250 wind turbine and (iii) EERC continues to plan its educational and technical workshops.

A status report for the quarter ending September 30, 2009 was received in October, 2009. The report shows that EERC (i) has finalized the Engineering and Construction Plan document and submitted it to Grand Forks City officials; continued discussions regarding site location; NEPA consideration is ongoing; (ii) Endurance S-250 wind turbine has been purchased and will be shipped during fourth quarter of 2009; (iii) EERC continues to plan is educational and technical workshops.

As a result of permitting delays and weather conditions, an extension for completing this project was granted. The final report deadline was extended to September 30, 2010 and two additional status reports were requested during the year 2010.

12/30/09