

Distributed Wind in ARIZONA



Figure 1. Employees of WestWind Solar and the Hopi Tribe raise a 1.8-kW wind turbine at the Hopi Day School, June 2014. Credit: Daniel Snyder

The Arizona Wind for Schools Project, under Northern Arizona University (NAU)'s Institute for Sustainable Energy Solutions and the Hopi Tribe Renewable Energy Office, completed the wind turbine installation at the Hopi Day School in Kykotsmovi, AZ in June of 2014.

The 1.8-kilowatt wind turbine was funded by the Renewable Energy Investment Fund (REIF) and was the final grant-funded turbine in a project involving more than a half-dozen renewable energy installations on behalf of the US Department of Energy-funded Wind for Schools program and in partnership with the

Grand Canyon Trust. WestWind Solar, with offices in Tucson and Flagstaff and more than 25 turbine installations across the state, installed the Hopi Day School's turbine.

In conjunction with the Wind for Schools NAU staff, educational activities were provided for the participating schools' students. Activities included: classroom visits; teacher education to inform students about the benefits of renewable wind energy and the installations at their schools; and a field trip to the Dry Lake Wind Farm near Holbrook, AZ.

In collaboration with the Hopi Tribe, Wind for Schools also facilitated a number of interactions between NAU engineering students, university tribal outreach programs and the nearby Moenkopi Day School, which included a teachers' workshop and wind energy teaching activities for multiple Family Math and Science Nights.

The total cost of the Hopi Day School installation was \$30,500. Support was provided by a \$28,500 grant from REIF and \$2,000 from the Hopi Day School (which also helped provide labor). Additional funding and in-kind donations of labor were provided by WestWind Solar and the Hopi Tribal Renewable Energy Office.

Three employees from WestWind Solar, two from the Hopi Tribe Renewable Energy Office and one Hopi Day School employee performed the labor. Excavation and pouring of the foundation were provided by the Hopi Range Management Office.

For more information about this project, please contact Karin Wadsack, Project Director, Institute for Sustainable Energy Solutions, 928-523-0715 or Karin.Wadsack@nau.edu