

Sample Full Day Agenda

TIME	DETAILS
8:45 AM	Welcome, morning coffee, snacks, and introductions <i>Let's get to know each other and see what we know, or think we know, about wind energy. We will also go over the agenda and expectations for the day.</i>
9:15 AM	MacGyver Wind Power <i>This lesson helps teachers understand how a windmill captures the energy of the wind and transforms it into usable mechanical energy, which is the basis for understanding modern wind turbines. This activity covers standards related to the engineering design process and the scientific method to design, build, test, and improve their models. We will also discuss how these lessons relate to MI Science Standards.</i> <i>Equipment: MacGyver Wind Power</i> <i>Print: WindWise Lesson #8 / MacGyver Wind Power</i>
11:00 AM	Wind 101 <i>This informative slideshow will help educators understand some of the basic science and technology behind modern wind power.</i> Wind 101 Webinar > A bit dated but has the basics
12:00 PM	LUNCH
12:30 PM	Wind Turbines & Turbine Blade Design <i>Teachers will construct a simple PVC wind turbine and then use this device to make and test blades.</i> <i>Teachers will use a variety of materials to design blades that optimize the power output of a model wind turbine. Each group will isolate one variable of wind turbine blade design, then collect and present data for that variable. We will also spend time designing optimal blades for model turbines.</i> <i>Equipment: Turbines, Data Logging, Generators & Hubs</i> <i>Print: WindWise Lesson 10 / WindWise Lesson 11 / PVC Turbine</i>
2:00 -2:30 PM	What is a KidWind Challenge <i>We will share a slideshow that outlines a KidWind Challenge and how to participate and succeed.</i> 2019 KidWind Challenge Prep Webinar