

KidWind is the Power of Renewable Energy Education!

As the world is increasingly powered by renewable energy, it is more critical than ever that we develop a workforce and public who understand the complexities of this new power generation. The KidWind Project, an international leader in renewable energy education, has been working with educators to integrate renewable energy into classrooms for nearly 20 years.



What Do We Do?



Develop materials to bring renewable energy into the classroom

Since the beginning, KidWind has focused on designing and producing high quality, engaging materials to help P-12 educators bring renewable energy to life in the classroom. Along the way we have collaborated with many amazing partners.

- Vernier Science Education distributes our award-winning tools that allow students to explore the science and technology of renewable energy and their impact on the environment. Check it out at: vernier.com/products/kidwind.
- In partnership with WhiteBox Learning, we have developed simulators that allow students to explore wind turbine systems, construct wind farms, and test them virtually. Check it out at: whiteboxlearning.com/applications/kidwind.

We also provide a variety of open-source activities and lesson plans to help educators scaffold renewable energy learning.

- WindWise is a comprehensive interdisciplinary wind energy curriculum that fosters critical thinking skills at both the middle and high school levels. Check it out at: www.kidwind.org/activities/windwise.
- With our partners at REcharge Labs, we have developed a variety of activities for younger students that explore the power grid in addition to wind and solar energy. Check it out at: www.kidwind.org/activities/recharge-labs.
- Check out our newly developed PowerGrid Kit that helps students to learn about and explore power grid technology and careers. Check it out at: www.powergridkit.com.

Learn more at: www.kidwind.org/training/workshops



Facilitate trainings to help educators explore renewable energy

Through our network of 500 master instructors, we over hold over 100 trainings and outreach events each year. These events take many shapes, from in-person and virtual half-day workshops and hands-on events, to week-long deep dives. Using our large library of resources, materials from our partners, and other tools we customize each event to meet the needs of educators and their learners. Each year we add 30 new master trainers to our team through our annual REcharge Academy.



Host KidWind Challenge events where students show-off their renewable energy knowledge

The KidWind Challenge is a hands-on design competition that engages students in STEM through the lens of wind and solar energy. Student teams design and construct small wind turbines and solar structures that they test, and then meet with a panel of judges to present their design process and demonstrate their contextual knowledge renewable energy. Teams also engage in a variety of instant challenges to gauge their on-the-spot teamwork and problem-solving skills. Since 2009, KidWind Challenge events have been successfully implemented in 37 states, with roughly 40,000 students competing in 257 events across the country to date.