

B.C.S. STUDENTS APPLY SCIENCE, TECHNOLOGY, ENGINEERING AND MATH (STEM) THROUGH HANDS-ON DESIGN/BUILD/TEST PROJECTS, THAT INVOLVE RENEWABLE ENERGY

These Covington students proudly display their functional wind turbine generator models and solar-electric powered model cars. The understanding of “How it Works” is enhanced when they analyze and test an actual wind turbine generator that is operating outside the Engineering Technology lab and supplementing the electrical grid in the building. The Windspire brand vertical axis style generator was donated by Mariah Power and was installed by various contractors and trade organizations that volunteered their skills and time. Many parents, teachers, administrators and community members coordinated their efforts to make this happen. This real-world, relevant topic in the Engineering Technology program is a natural for integrating Science and Math applications and also addresses social, political and environmental issues. Renewable energy sources, devices and applications allow students to experience hands-on design and problem solving laboratory activities, in a collaborative work environment.

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