Learn to Grow

Wind Turbines

Wind turbines generate electricity from the force of the wind. The blades of the turbine are connected to a gearbox, which is connected to a generator. The energy created by the generator can be stored in batteries or transmitted to power grid.

Wind turbines can be located all across the world. The most common locations are along the coast and farmland, due to the open air space and strong winds. When engineers build the turbines they must determine the best direction for the turbine to face, which must be in agreement with the majority of the winds. The reason why wind turbines are important is that they are a source of renewable energy (meaning not depleted when used). In addition, when wind turbines generate energy there are no harmful gasses, particles, or other substances released into the air.

"Wind Energy: Making & Testing Pinwheels to Model Wind Turbines - Activity." TeachEngineering.org. October 23, 2018. Accessed June 28, 2019. https://www.teachengineering.org/activities/view/cub_earth_lesson04_activity2.