



Wind Energy: Renewable Energy and the Environment

Vaughn Nelson

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Wind Energy: Renewable Energy and the Environment Vaughn Nelson

Due to the mounting demand for energy and increasing population of the world, switching from nonrenewable fossil fuels to other energy sources is not an option—it is a necessity. Focusing on a cost-effective option for the generation of electricity, **Wind Energy: Renewable Energy and the Environment** covers all facets of wind energy and wind turbines.

The book begins by outlining the history of wind energy, before providing reasons to shift from fossil fuels to renewable energy. After examining the characteristics of wind, such as shear, power potential, and turbulence, it discusses the measurement and siting of individual wind turbines and wind farms. The text then presents the aerodynamics, operation, control, applications, and types of wind turbines. The author also describes the design of wind turbines and system performance for single wind turbines, water pumping, village systems, and wind farms. In addition, he explores the wind industry from its inception in the 1970s to today as well as the political and economic factors regarding the adoption of wind as an energy source.

Since energy cannot be created nor destroyed—only transformed to another form—we are not encountering an energy crisis. Rather, we face an energy dilemma in the use of finite energy resources and their effects on the environment, primarily due to the burning of fossil fuels. **Wind Energy** explores one of the most economical solutions to alleviate our energy problems.

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