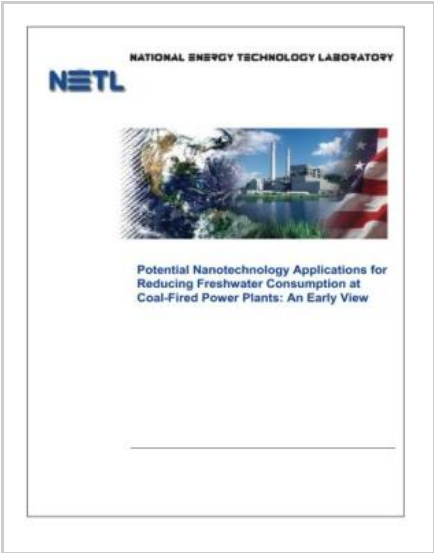

Potential Nanotechnology Applications for Reducing Freshwater Consumption at Coal-Fired Power Plants An Early View

By U. S. Department of Energy

CreateSpace Independent Publishing Platform. Paperback. Condition: New. This item is printed on demand. 40 pages. Dimensions: 11.0in. x 8.5in. x 0.1in.This book was funded by the U. S. Department of Energys (DOEs) National Energy Technology Laboratory (NETL) Existing Plants Research Program, which has an energy-water research effort that focuses on water use at power plants. This study complements the overall research effort of the Existing Plants Research Program by evaluating water issues that could impact power plants. A growing challenge to the economic production of electricity from coal-fired power plants is the demand for freshwater, particularly in light of the projected trends for increasing demands and decreasing supplies of freshwater. Nanotechnology uses the unique chemical, physical, and biological properties that are associated with materials at the nanoscale to create and use materials, devices, and systems with new functions and properties. It is possible that nanotechnology may open the door to a variety of potentially interesting ways to reduce freshwater consumption at power plants. This book provides an overview of how applications of nanotechnology could potentially help reduce freshwater use at coal-fired power plants. It was developed by (1) identifying areas within a coal-fired power plants operations where freshwater use occurs...

Reviews

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