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Title: Environmental treatment of wind turbine blades

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At present, the main treatment methods for retired wind turbine blades are landfill treatment, cement kiln collaborative treatment, pyrolysis treatment, and chemical decomposition ...

In particular, the limited knowledge and lack of viable recycling options for fiber-reinforced composites, have made the disposal of wind turbine blades a significant environmental concern. [1] Currently end ...

This study characterizes wind turbine blade recycling processes to compare the most promising material recovery approaches and identify those with the most positive environmental ...

Abstract While over 80% of materials in modern wind power installations are recyclable, the sector continues to grapple with the absence of effective, scalable, and environmentally sustainable ...

Addressing the environmental challenges posed by wind turbine blades requires a multifaceted approach. Innovation in materials science, recycling technologies, and blade design is ...

Extending the lifetime of existing blades is one of the most economic and environmentally friendly measures wind project operators take to limit landfilling. While blades are very durable, decades of ...

In this article, the volume of plastic pollution during the blade maintenance as well as particle size distribution is evaluated. Recommendations toward the mitigation of environmental risks ...

The thematic scope primarily concerns the issue of waste management related to wind energy, such as wind turbine blades. The cited ...

It was found to be far more common for legal jurisdictions to deploy their general "waste" laws to deal with the treatment of composites at end-of-life, but without making specific reference to turbine ...

Environmental treatment of wind turbine blades

We explore the structural composition of wind turbine blades, the environmental and economic implications of their disposal, and the potential for energy recovery and waste management.

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