

Brockhaus Konversations-Lexikon (5)



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(Bernardo Feeney Jr.)

BROCKHAUS KONVERSATIONS-LEXIKON (5)



RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 32 pages. Original publisher: Golden, Colo. : U. S. Dept. of Energy, Energy Efficiency and Renewable Energy, Wind and Water Program, 2010 OCLC Number: (OCoLC)694743555 Subject: Wind turbines -- Technological innovations -- United States -- Congresses. Excerpt: . . . Table 4 below lists major areas of interest in permanent magnet generator research and development and the potential benefits that these areas of interest offer over the state-of-the-art in wind turbine drivetrains. Table 4. Benefits of Permanent Magnet Technology Improvements

Area of Interest	Description	Benefits
Improved magnetic materials	could lead to increased energy densities, permanent magnets would result in smaller lower weight generators, reducing up-tower weight.	Reduced Capital Costs: lower weight Advanced Magnetic lead to increased energy densities, permanent magnets would result in Materials which would result in smaller lower weight generators, reducing up-tower weight.
Improved Reliability	relaxed air-gap improvements include bulk material constraints would decrease the property enhancement, nano-incidence of rotor stator impact, structured magnetic materials, and decreasing maintenance costs.	flexible magnets that can be magnetized or demagnetized post-nacelle weights may make it cost effective to deploy taller towers with larger rotors.
Increased Energy Capture	lower magnetized or demagnetized post-nacelle weights may make it cost effective to deploy taller towers with larger rotors.	Safety and Serviceability: magnets that are safer to handle during installation and maintenance would reduce the potential for accidents.
Possible system design and topology	Reduced Capital Costs: advanced System Design and improvements include: topologies could result in smaller Topology generators, reducing up-tower weight.	Radial flux (geared or direct drive), transverse flux, Vernier designs, Improved Reliability: better designed magnet gearing and coreless and tolerance air-gaps would decrease armatures; the incidence of rotor stator impact, decreasing maintenance costs.
Advanced air gap design	to improve tolerances and reduce Increased Ener. . .	

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