

## Brockhaus Konversations-Lexikon (5 )



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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
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.
Safety and Serviceability	magnets that are safer to handle during installation and maintenance would reduce the potential for accidents.	Possible system design and topology
Advanced System Design and improvements	include: topologies could result in smaller 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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