

HOLY SPIRIT UNIVERSITY OF KASLIK

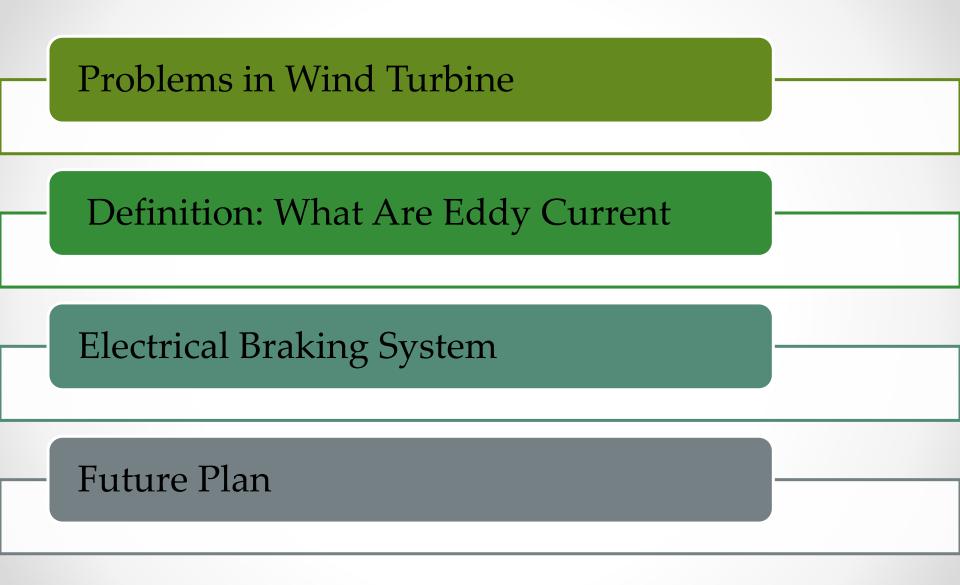
Electrical and Electronics engineer

Go Wind



Safety Related to Renewable Energy

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Problems in Wind Turbine

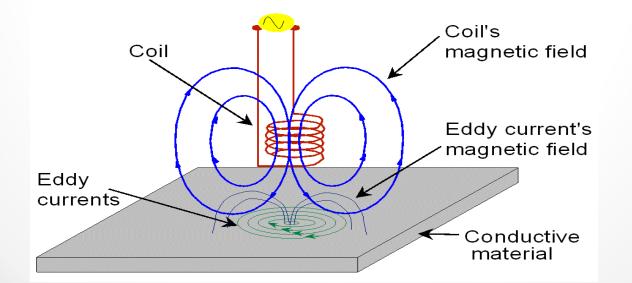
- High maintenance.
- Fire is the common problem in wind turbines.



What are Eddy Currents ?

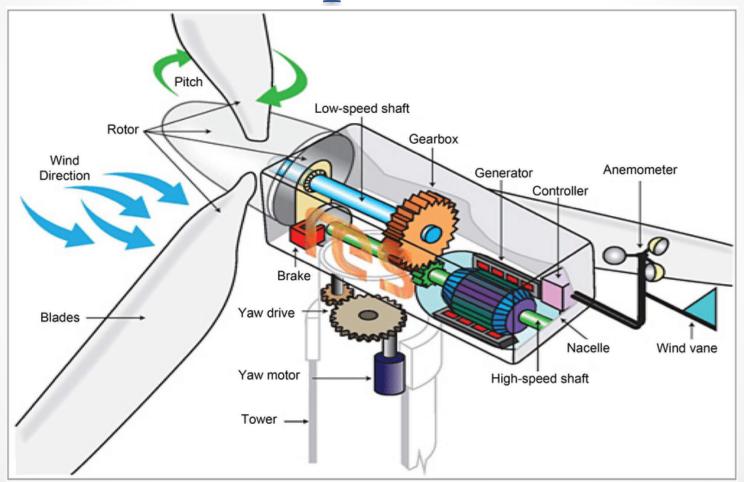
- Loops of electrical current induced within conductors by a changing magnetic field in it due to Faraday's law of induction.
- Lenz's law: eddy current creates a magnetic field that opposes the change in the magnetic field that created it

Reacts back on the source of the magnetic field.



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Wind Turbine Components



Electrical Braking System



Future Plan

 Adding some control to the system like the PID controller and an AVR.

