



# SNS COLLEGE OF TECHNOLOGY



(An Autonomous Institution)

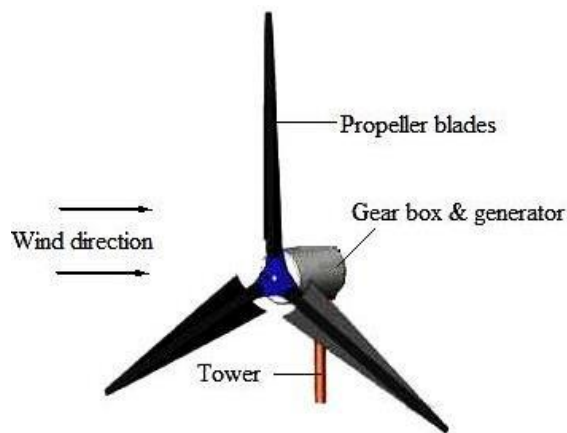
## WIND ENERGY

The high speed winds have lot of energy in the form of kinetic energy due to their motion.

The wind energy is harnessed by making use of wind mills, sky sail, ladder mill, kite ship, etc.

### Wind mill:

Windmill consists of large sized propeller blades which are connected to a generator through a shaft. The strike of blowing wind on the blades of the wind mill makes it rotating continuously. The minimum wind speed required for satisfactory working of a wind generator is 15 km / hr. Wind mills are capable of generating about 100 KW electricity. The largest wind farm of our country is near Kanyakumari in Tamilnadu generating 380 MW electricity.



Wind mill

### *Advantages:*

- It does not cause any air pollution.
- It is very cheap.
- It is renewable.

### *Disadvantages:*



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- Public resists for locating the wind farms in populated areas due to noise generated by the machines and loss of aesthetic appearance.
- Wind farms located on the migratory routes of birds will cause hazards.
- The most serious limitation of wind power is the non-availability of steady wind speed.