

Wind power



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We've used the wind as an energy source for a long time



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Wind power

was used in the Middle Ages, in Europe, to grind corn, which is where the term "windmill" comes from.





The Sun heats our atmosphere unevenly, so some patches become warmer than others.



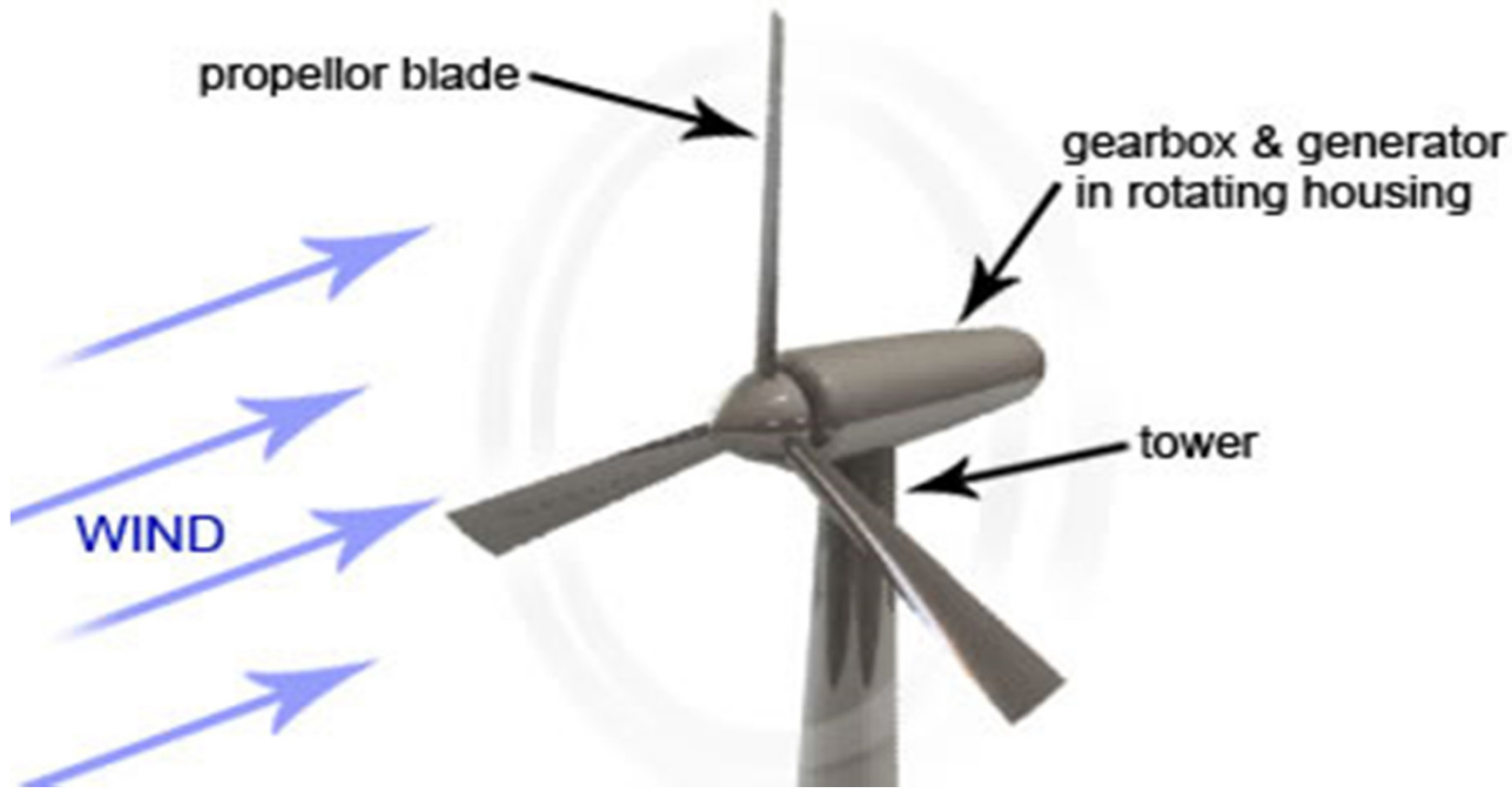
**These warm patches of air rise,
other air blows in to replace
them
and we feel a wind blowing.**



**We can use the energy in the wind
by building a tall tower, with a
large propellor on the top.**



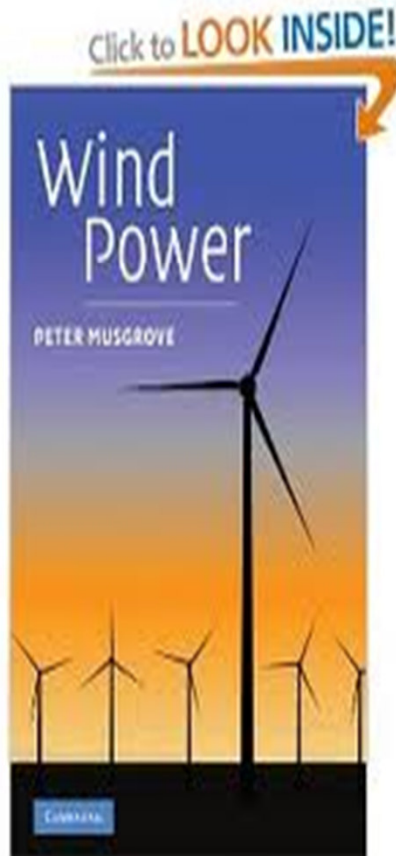
The wind blows the propellor round, which turns a generator to produce electricity.



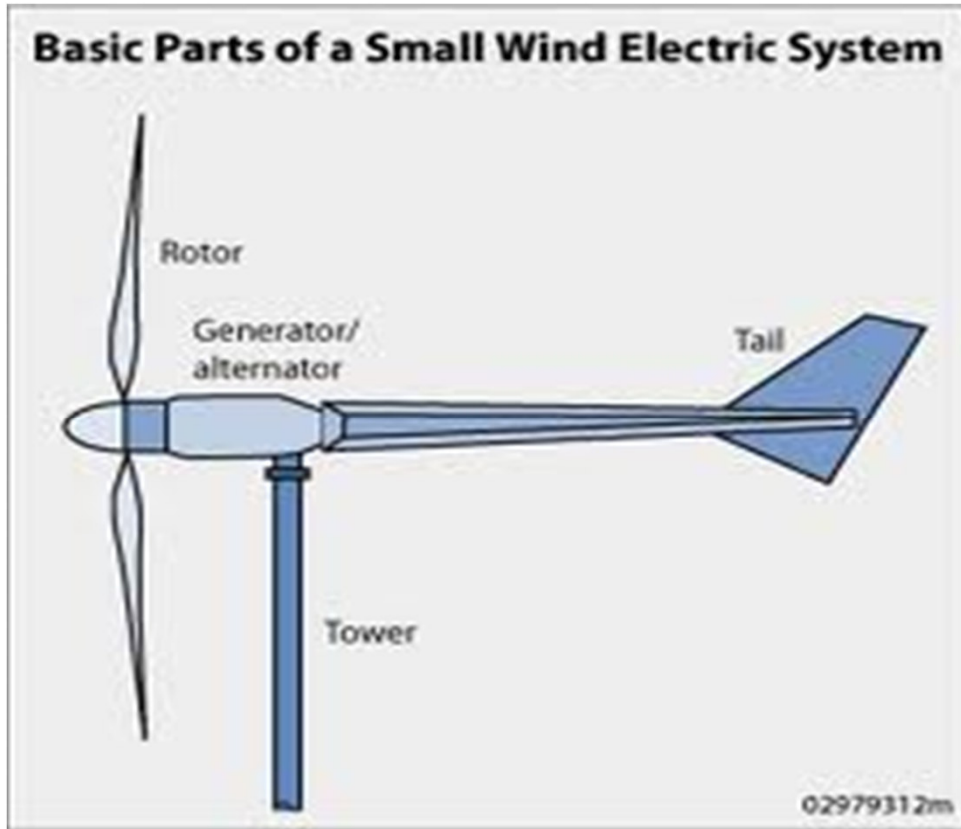
We tend to build many of these towers together, to make a "**wind farm**" and produce more electricity.



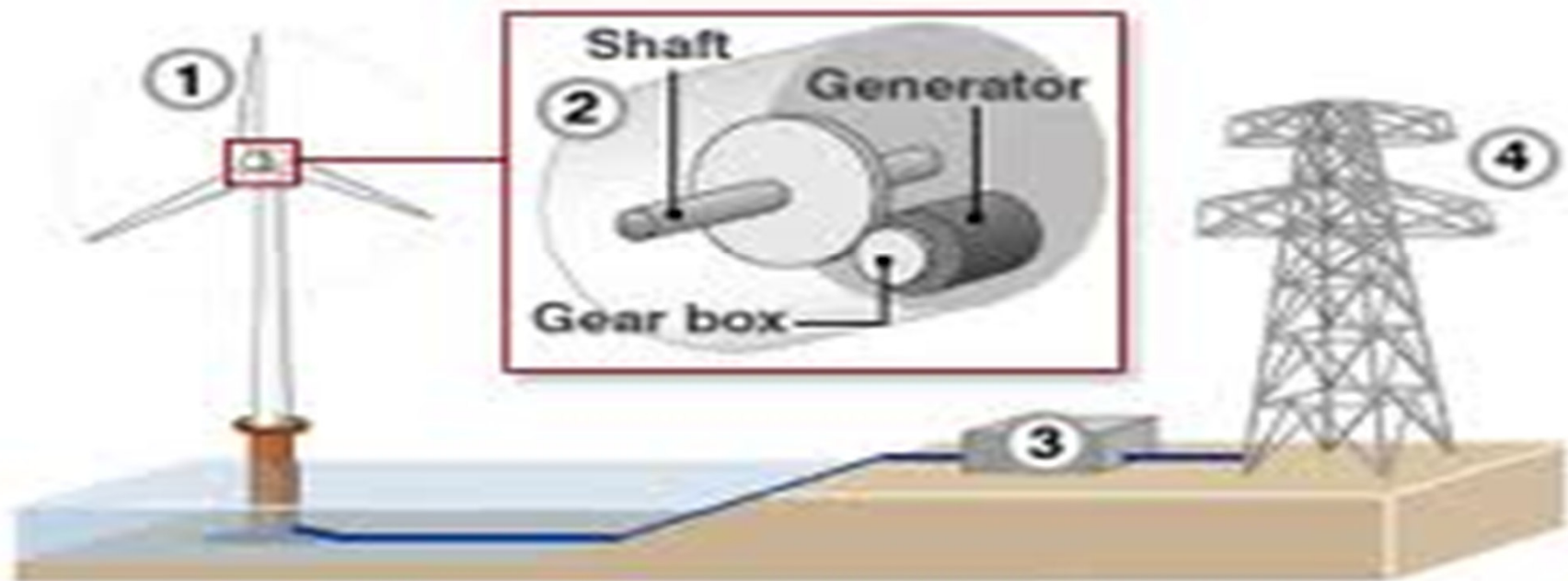
It's only worth building wind farms in places that have strong, steady winds



The small modern wind generators used on boats and near houses make hardly any sound at all.



WIND POWER



- ① Wind causes blades to rotate.
- ② Shaft turns generator to produce electrical energy.
- ③ A transformer converts it to high-voltage.
- ④ Electricity transmitted via power grid.

Advantages

- **Wind is free, wind farms need no fuel**
- **Doesn't cause pollution, doesn't need fuel**
- **The land beneath can usually still be used for farming.**
- **A good method of supplying energy to remote areas.**



Disadvantages

- **The wind is not always predictable : some days have no wind.**
- **Suitable areas for wind farms are often near the coast, where land is expensive.**
- **Some people feel that covering the landscape with these towers is unsightly.**
- **Wind power is renewable.**



- **Can kill birds – migrating flocks tend to like strong winds**



- **Can affect television reception if you live nearby.**



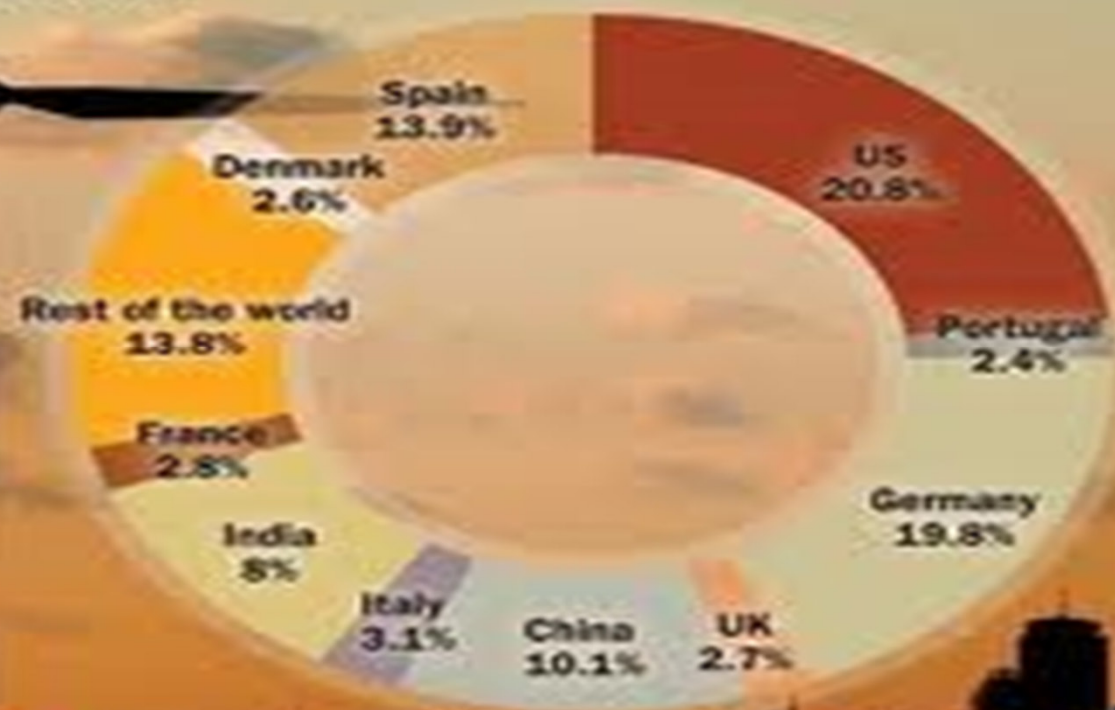
- **Can be noisy.**

Wind generators have for making a constant, low, "swooshing" noise day and night, which can drive you nuts...but

modern wind farms are much quieter.

World wind power

Top 10 installed capacity compared to the rest of the world.



Source: Global Wind Energy Council

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**ENJOY your WIND
POWER**

The end!!



