

# Wind Energy

A formation of five fighter jets flying in a curved path against a blue sky, leaving white smoke trails. The jets are arranged in a descending line from top-left to bottom-right, with each jet leaving a long, white, curved smoke trail that follows its path. The trails are thick and billowing, creating a sense of motion and energy.

Creators:

Students' Sample

# Intro to wind

**In all of our research we found information on early windmills, such as, on earth we use:**

**19% Wind, Water, Sun/Solar Power**

**31% Oil**

**21% Gas**

**23% Coal**

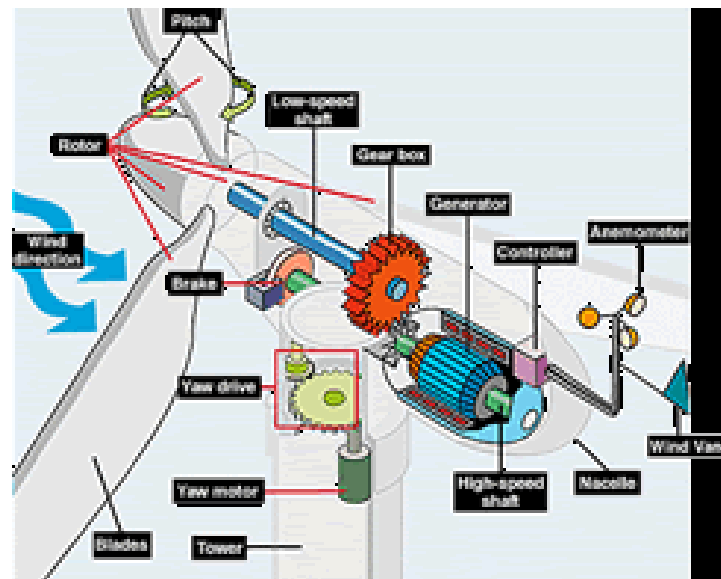
# **Early Wind Mills**

**The first windmills that were known were made by the Persians. They used it to power their irrigation system.**



# The Definition of Wind Power

**Wind power is power made from the wind and harnessed by wind turbines. It is a very clean alternative to fossil fuels.**



# Definition of Wind

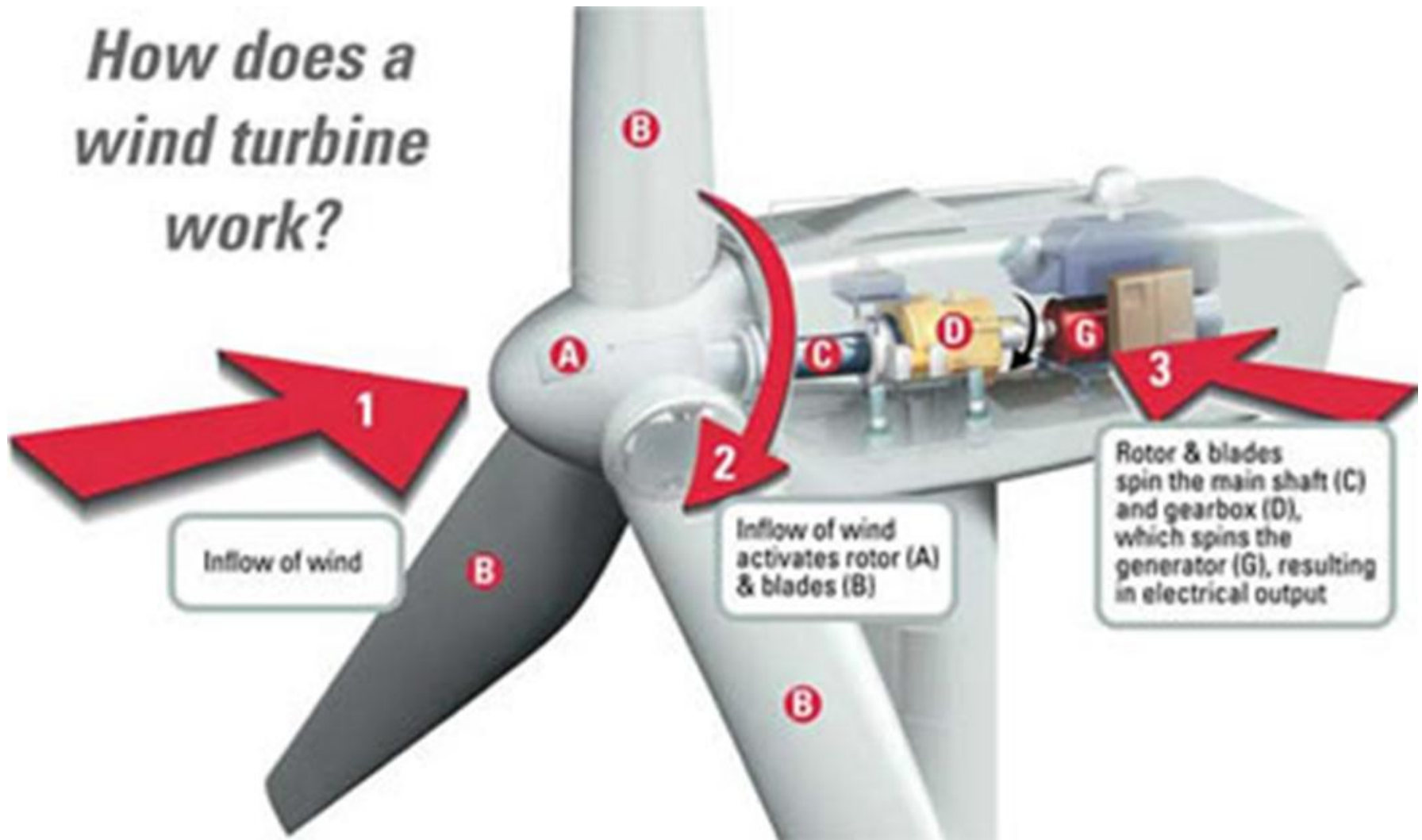
**Wind: A force of nature/air in movement.**





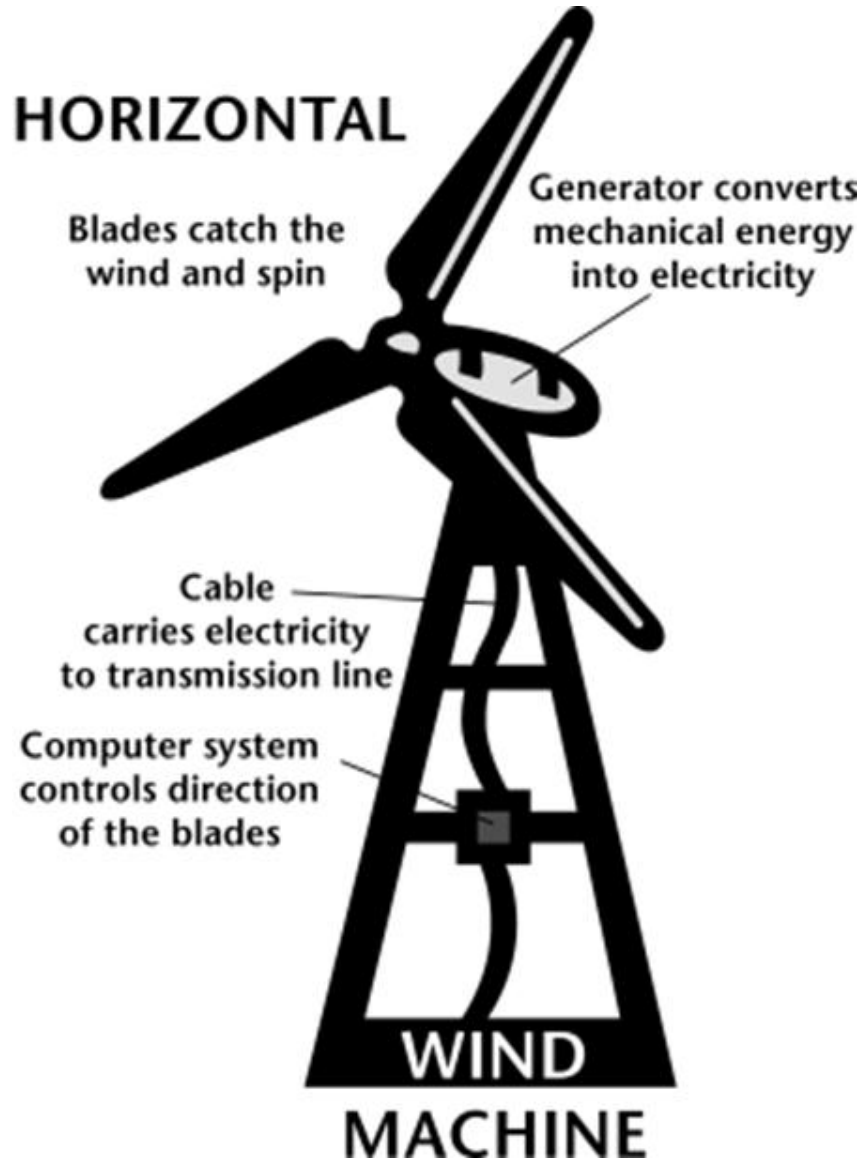
# How a Turbine Works

*How does a  
wind turbine  
work?*



# How it works

**Wind power works by wind turbines being spun by the wind, thus energy is created/generated.**



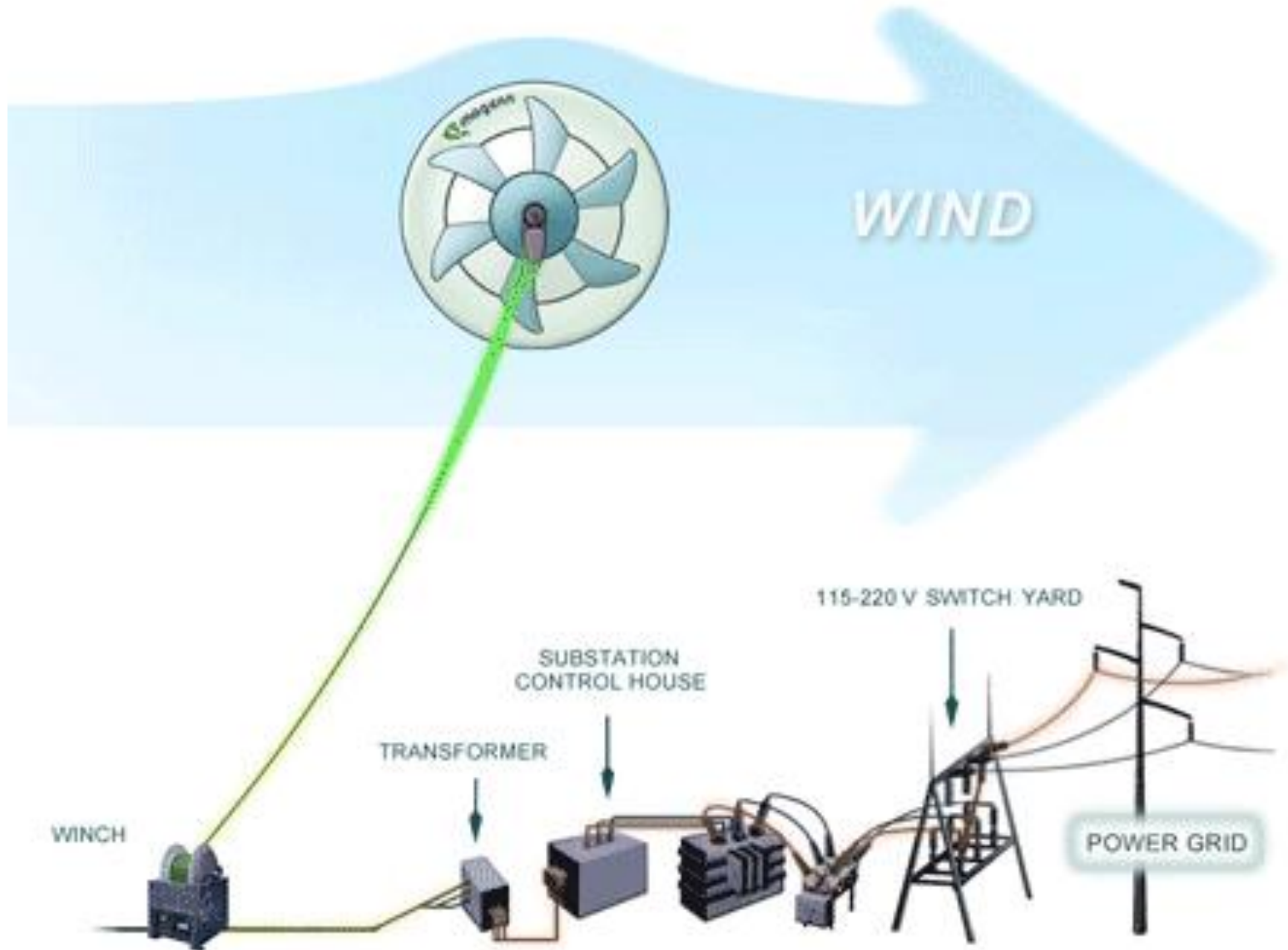
# **Advantages of Wind**

**Wind is an energy that never runs out, it doesn't matter if it's a sunny or cloudy day (unlike solar power).**





# Extra Animation!



# Advantages

**Wind will never run out unlike solar on a cloudy day. You can predict the wind by using wind maps. If turbines are placed at a correct wind map location, wind is always present.**

## Advantages (cont.)

**Wind is one of the easiest alternative energies to access and it can be found almost anywhere, even off shore.**

## Advantages (cont.)

**$\frac{3}{4}$  of the world is water, and most other alternative energies can't be found off shore. Wind energy however, can and is available.**

# Advantages (cont.)

**Wind can be harnessed very easily, you can build wind turbines on industrial wind farms or on your own private property. Electricity is then available for you as well as the electric company.**

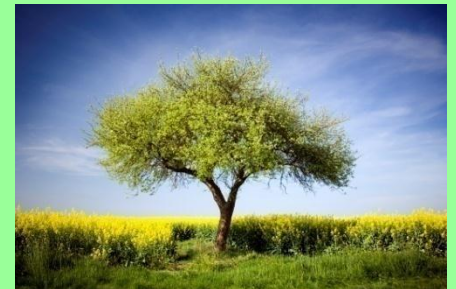
# Advantages (cont.)

**One way wind is harnessed that you wouldn't think about is when it is used to help ocean liners sail the oceans, as well as boats sail the lakes, or rivers.**



# **Disadvantages of: Wood**

**Cutting trees down destroys animals' homes and takes longer to regrow than is useful. Trees clean the air and also gives us oxygen. Without trees, the climate would heat up faster, hence global warming.**



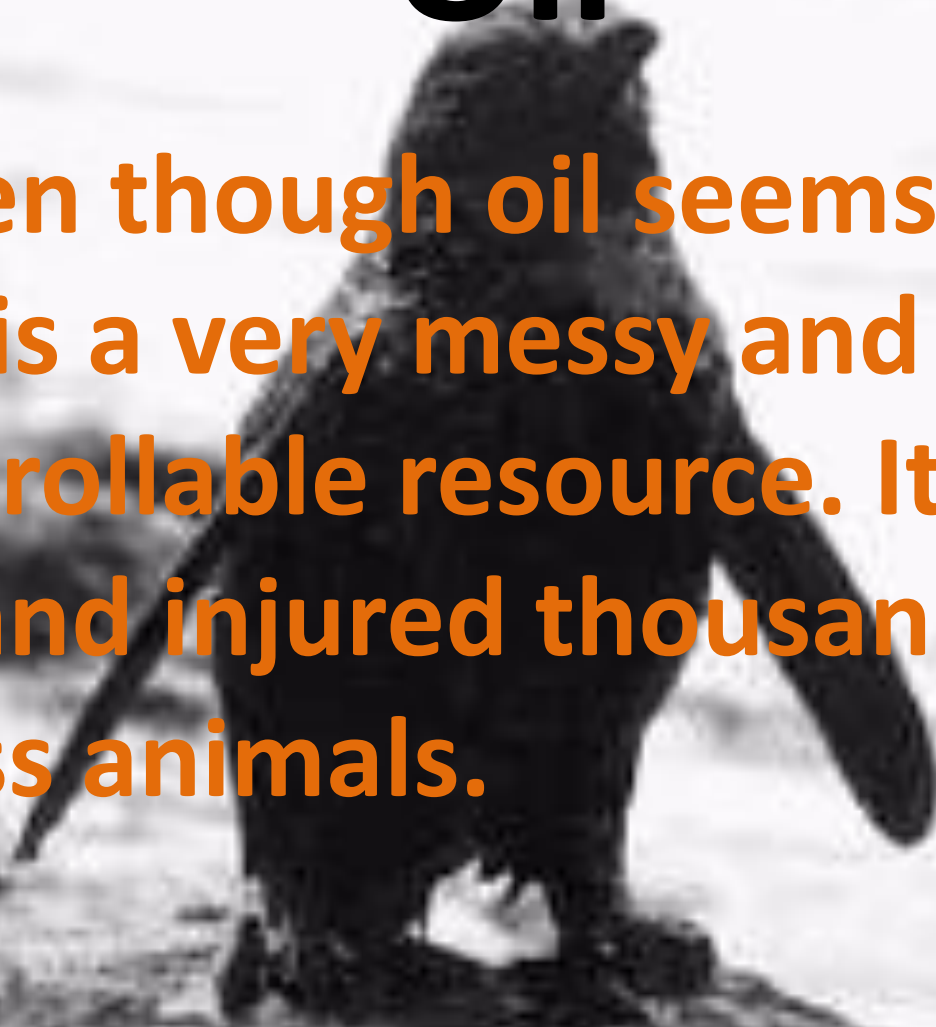
# Disadvantage of: Coal

Releases greenhouse gases when burned. It also takes millions of years to form so it is considered a nonrenewable resource.



# Oil

Even though oil seems to work well it is a very messy and uncontrollable resource. It has killed and injured thousands of helpless animals.



# Solar Power

One of the **big**  
**disadvantages of solar** power is  
that it is only producing energy  
on sunny days.

# **Nuclear**

**Nuclear is a very dangerous alternative energy. If it is not contained right then it can kill us or cause diseases such as cancer.**

# **Conclusion**

**We hope you have enjoyed this power point presentation and you realized that wind is the best alternative energy.**



# Citations

[http://www.archive.org/details/Large animated wind turbine](http://www.archive.org/details/Large_animated_wind_turbine)

<http://oz.plymouth.edu/~cjinicolau/wind.html>

<http://nectarphotos.blogspot.com/2009/05/wind-turbine-animated-gif.html>

<http://www.google.com/imgres?q=single+windmill>