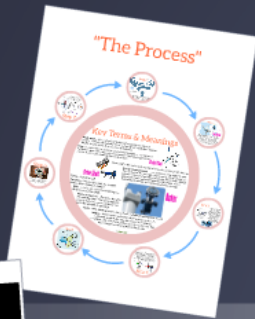


The Fox Islands Wind Project (A)



Images:

1. Windmills - The Science of Wind Energy. (2014, March 10). Retrieved from www.scienceofwindenergy.com

2. Windmills - The Science of Wind Energy. (2014, March 10). Retrieved from www.scienceofwindenergy.com

3. Windmills - The Science of Wind Energy. (2014, March 10). Retrieved from www.scienceofwindenergy.com

4. Windmills - The Science of Wind Energy. (2014, March 10). Retrieved from www.scienceofwindenergy.com

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Videos:

1. Windmills - The Science of Wind Energy. (2014, March 10). Retrieved from www.scienceofwindenergy.com

2. Windmills - The Science of Wind Energy. (2014, March 10). Retrieved from www.scienceofwindenergy.com

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Information Citations:

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How is it Generated?

Advantages vs. Disadvantages

Fun Facts

Here are a few fun facts about windmills, that I think you too, will find interesting.

Just In Case...

If perhaps one still does not understand this process, here's a short and simple video that will hopefully clarify any doubts.

Financial Association

Pros:

- The power is essentially free once the infrastructure is paid for.
- The efficiency improves over months on your energy bill.
- Increasingly cost-effective.
 - 1 commercial-scale turbine = \$1.2 million dollars
 - 3 residential wind turbine = \$35,000-\$70,000
- In comparison, 1 oil well in the Gulf of Mexico = 100 Million.
 - It costs roughly \$2.5B-\$4.5B per barrel of oil.

Cons:


- Most of the commercial-scale turbines installed today are 2 MW in size and cost roughly \$2-\$4 million installed.
- Larger turbines cost less, but are more expensive per kilowatt of energy producing capacity.
- Overall, they are expensive to build.

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By: Reema Wadhvana
Grade 9 - SCI 1D3

The Fox Islands Wind Project (A)



Windmills

Conclusions
Works Cited

How is it Generated?

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Images:

Videos:

Information Citations:


Advantages

Eco Friendly

Disadvantages

Financial Association

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Wind Power

Electricity Production Project

Thecasesolutions.com

By: **Reema Wadhvana**
Grade 9 - SCI 1D3





Wind Power



Electricity Production Project

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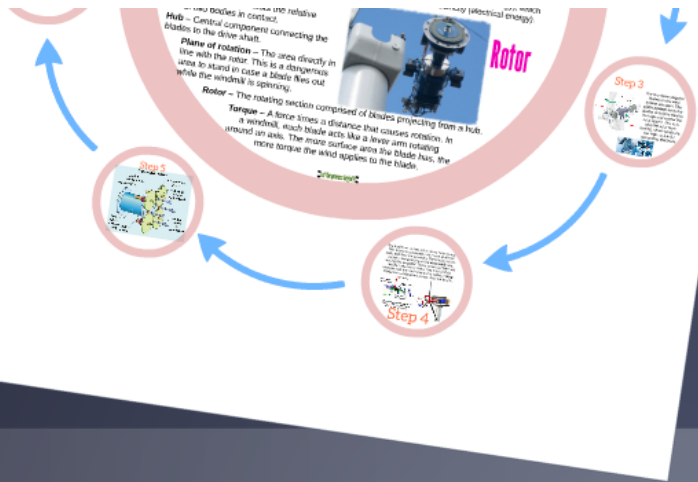
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What Exactly Is Wind Power?



[Noun]

Kinetic energy of wind. Energy created by the flow of air, used to perform a task mechanically, or to generate electricity.



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How is it Generated?

YouTube

s about windmills, that I find interesting.

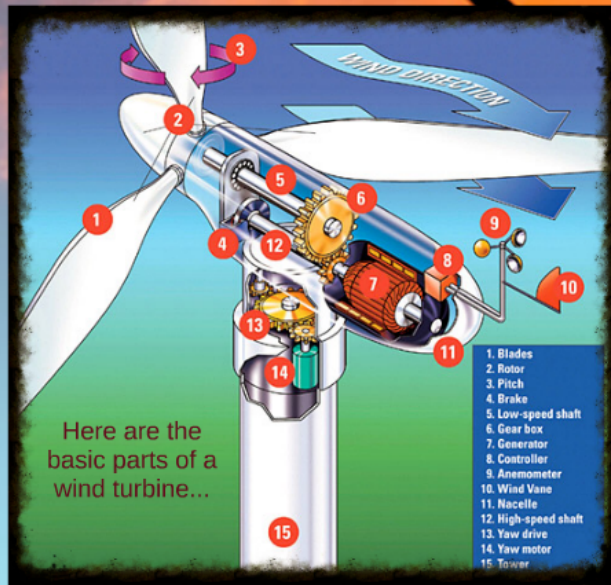
Facts

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In order to understand how this happens, we must know what a 'wind turbine' is.



Wind Turbines

Wind turbines are vaned wheel turbines, rotated by the wind. They are devices that convert the wind's kinetic energy into mechanical energy. Further it converts this mechanical energy to electricity. Due to this unique conversion process, we call it a 'wind generator.'

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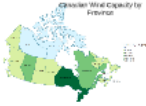
Wind Farms?!

Thecasesolutions.com

Wind farms may pose a hazard to birds and bats. In some cases, birds may be killed or injured. For more information, visit www.fishbase.org.

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A wind farm or wind park is a group of several wind turbines in the same location, used to produce large amounts of energy.



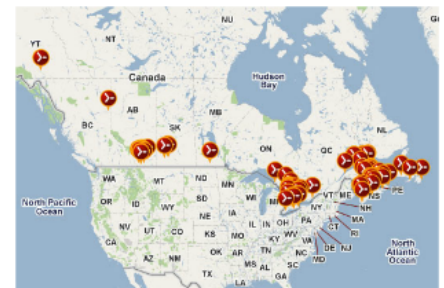
Wind Power in Canada

- Around 206 wind farms, 5.114 turbines
 - Total capacity expected in 2015: 16392.6 MW



- Ontario and Québec produce the majority of Canadian wind power. Thecasesolutions.com

- Largest wind farm in Ontario: Amaranth Wind Farm (199.5 MW capacity)



Canadian Locations