Energy Production Research Assignment

Consider a unique aspect of energy production and do some research. What recommendations would you make to Justin Trudeau knowing what you know about your topic?

Use the information fluency process to guide your research. Be sure to keep track of the questions you ask, the search tools you use, and references for the information you have gathered.

My topic: Solar Panels and Solar Energy production

Part One: Share

Share your findings in your own words with cited images. Make a statement to Justin Trudeau about the implications of your research and finings.

Cons:

Cost; The initial cost of purchasing a solar system is fairly high

Weather Dependent, although solar energy can still be collected during cloudy and rainy days overall the efficiency of the solar system drops

Solar Energy Storage Is Expensive also uses a Lot of Space

Pros:

Good for the environment

Solar panels are used as the only energy source can make your house identify as "off-grid"

Less electricity loss in your house or apartment

Solar panel usage creates better economy and jobs in Canada

Although you must buy the panels once they are purchased are free of charge

- The amount of solar energy used in Canada today is 0.6%
- Solar electricity is the smart choice for Canada's energy future.
- Globally, solar electricity is now the fastest growing energy source in the world.

The average installation cost of solar power in Canada is \$3.07/Watt or in BC \$2.54 – \$2.69/Watt OR \$22,500 for a 7.5kw system

The average family spends \$5/day which totals up to \$1,875/year

How do they work?

- The silicon photovoltaic solar cell absorbs solar radiation or the suns energy
- Electrons begin to move initiating the flow of electricity
- The solar inverter converts Direct Current (DC) electricity from your solar modules to AC electricity, which is used by most home appliances
- Electricity flows through your home, powering electronic devices
- Excess electricity produced by solar panels is fed to the electric grid
- Link for video about how solar energy works https://youtu.be/BfLAYbfUvBk

"Let the environment help"





"Sun Can Power Your Home"



My Statement to Justin Trudeau

Solar energy is good! It's really good for the environment, overall it will save you money and it's more efficient in general!

My main question was "is the amount of money people spend on solar panels worth it?"

Yes, the average installation cost of solar panel power in Canada is \$3.70 per watt or NBC \$2.54 per watt or for 7.5 kW system which is good quality \$22,500 after that all your electricity is free you can even gain money if you save enough electricity the average family spent five dollars a day which totals up to \$1875 per year on electricity so after around 12 years you will be receiving absolutely free electricity. Installation for solar panels is easy and most companies do free installation.

The amount of solar energy used in Canada today is only 0.6% but why?

Most people think that solar panels don't hold up very well to weather they're wrong solar panels are made out of an element called silicon which is very good in heat or cold although the solar panels are a bit weather dependent they still collect electricity while it is cloudy. Overall solar panel electricity can save people money in our country and is better for our environment!

Solar panel electricity is very efficient and one of the fastest growing electricity methods in the world and our country would benefit from solar panel electricity.

Part Two: Answer

What questions did you need to ask to research your topic? What was the process did you use to access your research? How did you verify and cite the information you found?

My Questions:

What is the reason why most people don't like solar energy? What are the benefits once the panels are installed? What is the cost and pricing of solar panels? How do solar panels work exactly? Is the amount of money people spend on solar panels worth it? What are solar panels? Why are they good for the environment?

Research: I came up with my questions and the pasted them into google I also used the government web site and followed links that other web sites gave me.

I also looked at some books on a n online library to make sur the information I had was correct and viable.

Bibliography:

"Energyminute". *Energyminute.Ca*, 2020, https://energyminute.ca/interact.

"How Do Solar Panels Work?". *Youtube*, 2020, https://youtu.be/BfLAYbfUvBk. Accessed 14 May 2020.

"Solar Energy Maps Canada (Every Province)". *Energyhub.Org*, 2020, https://www.energyhub.org/solarenergy-maps-canada/.

"Solar Thermal | Natural Resources Canada". *Nrcan.Gc.Ca*, 2020, https://www.nrcan.gc.ca/our-naturalresources/energy-sources-distribution/renewable-energy/solar-thermal/7301.

"7 Reasons Why You Should Use Solar Power | Greenmatch". *Greenmatch.Co.Uk*, 2020, https://www.greenmatch.co.uk/blog/2014/07/7-reasons-why-you-should-use-solar-power.

Jones, Adam. "Solar Energy | The Canadian Encyclopedia". *Thecanadianencyclopedia.Ca*, 2020, https://www.thecanadianencyclopedia.ca/en/article/solar-energy.

Richardson, Luke. "How Do Solar Panels Work? Step By Step Guide | Energysage". *Solar News*, 2020, https://news.energysage.com/solar-panels-work/. Accessed 13 May 2020.