

Global Warming and Climate Change – University of Calgary
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Assignment Number 5

1. View video no. 2, 'The global-warming guy is back'. Summarize his message in two or three sentences
2. Go to the following web site: http://www.ec.gc.ca/ges-ghg/985F05FB-4744-4269-8C1A-D443F8A86814/1001-Canada's%20Emissions%20Trends%202013_e.pdf . Answer the following questions:
 - a. What is the purpose of the report? Is this report still valid?
 - b. How is Canada doing in decreasing GHG emissions according to this report?
 - c. Go to the following web site <http://www.pembina.org/blog/789>. I know the report is dated but will Canada meet its Copenhagen commitments?
3. What is the significance of the Pope's encyclical on climate change, http://w2.vatican.va/content/francesco/en/encyclicals/documents/papa-francesco_20150524_enciclica-laudato-si.html ?
4. Why would we consider climate change mitigation measures?
5. What kind of mitigations measures are available to us?
6. How would we determine the kind of mitigation measures we must take?
7. Define the following terms:
 - a. Carbon 'cap and trade'.
 - b. Carbon offsets.
 - c. Carbon tax.
 - d. Carbon tariff.
8. What is 'carbon capture and sequestration'? (See web site <http://www.globalccsinstitute.com/>. Why is this so important in Alberta?
9. Describe in a few sentences:
 - a. Saskatchewan CCS project <http://saskpowerccs.com/>
 - b. Shell Canada Quest project in Alberta <http://www.shell.ca/en/aboutshell/our-business-tpkg/upstream/oil-sands/quest.html>
 - c. Alberta Carbon Trunk Line in Alberta <http://www.enhanceenergy.com/>
10. What is the significance of Alberta Bill 24? See web site <http://www.canadianenergylaw.com/2010/11/articles/oil-and-gas/alberta-government-drafts-bill-24-to-regulate-co2-storage/> .
11. Why does the extraction of oil from Alberta oil sands attract negative attention from societies, organizations and governments interested in minimizing GHG emissions?

All outstanding assignments due (by email to me) by June 7, 2018 (so that I can get your marks in on time).