

Date	Facilitator	Topics/Activity	Learning outcomes	Pre-class Reading/Viewing
Jan 9	All  Simon	Introduction  "Avoiding dangerous climate change"	Develop base knowledge about the science of climate change to support the rest of the course  Be able to explain the scientific basis for the temperature limits and net greenhouse gas emissions target in the Paris Climate Agreement to a member of your family	Background readings to support class discussion:  Weart, Spencer. The Discovery of Global Warming (excerpt)  IPCC Synthesis Report (Excerpt)
Jan 16	Sumeet and Carol    Loch	Market based policy instruments, International trade and carbon supply chains  Intro to Public Scholarship (1:30 pm - )	To help you evaluate the difference between Carbon Taxes and Cap and Trade in theory and practice.	Aldy, J. E., E. Ley, and I. W. H. Parry (July 2008), "A Tax-Based Approach to Slowing Global Climate Change," Resources for the Future Discussion Paper, RFF DP 08-26.  Olewiler, N. (November 2008), "A Cap and Trade System for Reducing Greenhouse Gas Emissions in BC," Pacific Institute for Climate Solutions, Victoria, BC.
Jan 23	Kathy with Jim Hoggan	Public perception of climate change and climate policy	- greater awareness of the role of both facts and values in voters <sup>1</sup> political positions and governments <sup>1</sup> policy decisions	Readings - James Hoggan, I'm Right and You're an Idiot, chapters 1,2,4,5,9,10,11, and 19 - <a href="http://chutzpahportfolio.yolasite.com/resources/WhatIsPublicNarrative08.pdf">http://chutzpahportfolio.yolasite.com/resources/WhatIsPublicNarrative08.pdf</a>

			<ul style="list-style-type: none"> <li>- new strategies to improve your own public communications</li> <li>- experience trying out those strategies in a supportive workshop setting</li> </ul>	
Jan 30	Milind with Mark Jacobson	<ul style="list-style-type: none"> <li>-getting to 2C - wedges game</li> <li>-air pollution and climate modeling</li> </ul>	<p>To develop an understanding of the scale, scope and components of the climate-energy-technology transition.</p> <p>To learn about climate co-benefits</p>	<p>Socolow, Robert H., and Stephen W. Pacala. "A plan to keep carbon in check." <i>Scientific American</i> 295.3 (2006): 50-57.</p> <p>Delucchi, Mark A., and Mark Z. Jacobson. "Meeting the world's energy needs entirely with wind, water, and solar power." <i>Bulletin of the Atomic Scientists</i> 69.4 (2013): 30-40.</p>
Feb 6	Kathy with Crystal Lameman	Climate Justice		<ul style="list-style-type: none"> <li>- read the "statement of intent" of the Beaver Lake Cree's court case: <a href="https://drive.google.com/file/d/0B9rhwN5CwZsFS19lenhQejhTYWs/view">https://drive.google.com/file/d/0B9rhwN5CwZsFS19lenhQejhTYWs/view</a></li> <li>- please review the Alberta government's climate plan, with particular attention to the sections on Carbon Levy and Rebates, Developing Renewable Energy, Capping Oilsands Emissions - Oilsands Emissions, and Economic Impact - Climate Change in Alberta.</li> <li>- Leach et al report (also for Feb 27): <a href="https://www.alberta.ca/documents/climate/climate-leadership-report-to-minister.pdf">https://www.alberta.ca/documents/climate/climate-leadership-report-to-minister.pdf</a></li> </ul>
Feb 13: Family Day - no class				
Feb 27	Tour of Southeast False Creek Neighbourhood Energy	City of Vancouver - greenest city plan	Develop understanding of aspects related to City of Vancouver's Greenest City	<p>A few city strategies that are more focused on deep decarbonization are:</p> <ul style="list-style-type: none"> <li>- Renewable City Strategy - <a href="http://vancouver.ca/files/cov/renewable-city-strategy-booklet-2015.pdf">http://vancouver.ca/files/cov/renewable-city-strategy-booklet-2015.pdf</a></li> </ul> <p>References:</p> <ul style="list-style-type: none"> <li>- Electric Vehicle Ecosystem Strategy -</li> </ul>

	<p><i>Utility</i></p> <p>Meeting with Matt Horne, Climate Policy Manager, City of Vancouver</p>		<p>Strategy</p> <p>Explain how the Southeast False Creek <i>Neighbourhood Energy Utility</i> came about, and its significance to the City's goals</p> <p>Initiate discussions on focus area for the deep decarbonization of cities group project</p>	<p><a href="http://council.vancouver.ca/20161116/documents/cfsc1.pdf">http://council.vancouver.ca/20161116/documents/cfsc1.pdf</a>  - Zero Emissions Buildings Plan - <a href="http://council.vancouver.ca/20160712/documents/rr2.pdf">http://council.vancouver.ca/20160712/documents/rr2.pdf</a></p> <p>Note: Andrew Leach will only have the public lecture</p>
Mar 6	<p>Kathy with former Canadian Minister of Environment (1999-2005) David Anderson</p>	<p>political challenges of addressing climate change</p>	<p>- consider the political obstacles and opportunities to adoption of climate change policies</p> <p>- compare the politics of different climate policy instruments</p> <p>- reflect on the relative political influence of business groups, environmental groups, and voters at large</p> <p>- reflect on the challenges of regional economic and thus political</p>	<p>- students should all read the Pan-Canadian Framework on Clean Growth and Energy, which can be downloaded here:  <a href="https://www.canada.ca/content/dam/themes/environment/documents/weather1/20170125-en.pdf">https://www.canada.ca/content/dam/themes/environment/documents/weather1/20170125-en.pdf</a></p> <p>- please read David Anderson's bio on wikipedia (<a href="https://en.wikipedia.org/wiki/David_Anderson_(British_Columbia_politician)">https://en.wikipedia.org/wiki/David_Anderson_(British_Columbia_politician)</a>) and come prepared with 2 burning questions!</p> <p>- please watch the brief video of David Anderson concerning the Kinder Morgan Pipeline here: <a href="https://www.facebook.com/dogwoodbc/videos/10154655106708416/">https://www.facebook.com/dogwoodbc/videos/10154655106708416/</a></p> <p>Kathryn Harrison, "The Struggle of Ideas and Self-Interest in Canadian Climate Policy," in Kathryn Harrison and Lisa McIntosh Sundstrom, <i>Global Commons, Domestic Decisions: The Comparative Politics of Climate Change</i> (Cambridge: MIT Press, 2010). Digital version of book available through UBC library. NB: this is the period when David Anderson was Minister.</p> <p>-Kathryn Harrison, "A Tale of Two Taxes: The Fate of Environmental Tax Reform in Canada," <i>Review of Policy Research</i> 29 (2012): 383-407. Available through UBC library digital journals. I urge you to think through what changes to allow the current government to commit to a national carbon price in contrast to the 2008</p>

			differences, particularly in a federation such as Canada's.	experience.
Mar 13	Naoko with Jacqueline Cramer	Systems thinking and circular economy	<ul style="list-style-type: none"> <li>• demonstrate understanding of systems thinking</li> <li>• exercise ways to close loops in a system</li> <li>• define disruptive innovation</li> </ul>	<p>Derk Loorbach (2009). "Transition Management for Sustainable Development: A Prescriptive, Complexity-Based Governance Framework", Governance - An International Journal of Policy, Administration and Institutions.</p> <p>DOI: 10.1111/j.1468-0491.2009.01471.x</p> <p><a href="http://www.public.asu.edu/~ybudiya/old/sos511/Loorbach_2010.pdf">http://www.public.asu.edu/~ybudiya/old/sos511/Loorbach_2010.pdf</a></p> <p>[Reference]</p> <p>Jacqueline Cramer, prof. dr. "The raw materials transition in the Amsterdam Metropolitan Area: Added value for the economy, well-being and the environment"</p> <p><a href="#">UBCEnvironmentarticle.pdf</a></p>
Mar 20	Werner	Green marketing, carbon labelling, and green innovation: climate change and the role of businesses	<p>- understand how businesses respond to the challenges of new "green" markets and to government policies and incentives</p> <p>- analyze the tension between business and consumers, when objectives align, and when not</p> <p>- appreciate the positive and negative role that businesses</p>	<p>Mark A. Cohen and Michael P. Vandenberg: "<a href="#">The Potential Role of Carbon Labeling in a Green Economy</a>", Resources for the Future, April 2012.</p> <p><a href="#">Following the footprints</a>, The Economist magazine, June 2, 2011.</p> <p>Also: <a href="#">The Sins of Greenwashing</a>, TerraChoice, 2010.</p> <p>A primer of 3 newspaper articles about sustainability and innovation (see Course Content for details)</p>

			can play	
Mar 27	Naoko with James Tansey	Social Innovation/ Carbon Capture and Conversion Technologies	<ul style="list-style-type: none"> <li>- understand concepts behind technologies to capture, utilize or store CO2</li> <li>- analyze technologies through systems thinking</li> </ul>	Hansen, J., et al., "Young People's Burden: Requirement of Negative CO2 Emissions", Atmospheric and Oceanic Physics (2017) Section 9 of <a href="https://arxiv.org/abs/1609.05878">https://arxiv.org/abs/1609.05878</a>
Apr 3	All	Student presentations		