

Course Coordinator	Dr. Warren Mabee	Email: warren.mabee@queensu.ca	
Office	423 Sutherland Hall		
Contact Time	One three hour lecture per week	Phone: 533-6000 xtn 77092	
Format	Seminar class and discussion		
Class assessment	In-class participation	20%	Throughout term
	Reading presentation & discussion	20%	Throughout term
	Term paper	60%	Week 12

COURSE OVERVIEW

This course provides detailed insights into the historic, current, and projected distribution of energy production and consumption across Canada. The topics covered will cover four key areas of importance to Canadian energy – historic demand drivers in the evolution of Canadian energy supply, our current role as an energy exporter, the development of renewable energy, and an examination of the projections of future energy demand across our country. Each topic will be illustrated with case studies drawn from across Canada, including each region of the nation and reflecting upon the differences in federal and provincial perspectives. A key focus will be the relation between energy and environment, including air and water quality. The first section of this course will provide a historical perspective by considering the development of ‘energy’ policy in the context of natural resource management. The actions of different institutions in the evolution of Canadian energy management will be highlighted. The second section of the course will consider the rise of the Canadian energy export market, and the transition that this sector faces with changes to carbon pricing and tariffs as introduced both at home and abroad. The third section of the course will discuss renewable energy development from an environmental perspective, and will explore the role of environmental policy in creating incentives for new renewable energy projects. Finally, we will consider shifts in energy demand from the consumer perspective, and look at different ways in which energy demand may evolve and the relation this will have to our energy portfolio.

LEARNING OUTCOMES

- To give each student a working understanding of Canada’s energy sector including resource supply and demand
- To clearly present the differences between government jurisdictions in terms of responsibility for energy development
- To understand the emerging role of renewable energy on the Canadian landscape and to be familiar with different options
- To explore the ways in which social and environmental requirements for energy can be balanced

COURSE TOPICS

Introduction to Canadian energy; energy use in Canada; energy policy and programs; renewable and sustainable energy strategies; conservation and planning; trade and other issues; future energy.

SELECTED COURSE TEXTS & READINGS

- Cuddihy et al. 2005. Energy use in Canada: environmental impacts and opportunities in relationship to infrastructure systems. *Can. J. Civ. Eng.* 32:1-15.
- Issa et al. 2008. The turning black tide: energy prices and the Canadian dollar. *Canadian Journal of Economics* 41(3): 737-759.
- Islam et al. 2004. Current utilization and future prospects of emerging renewable energy applications in Canada. *Renewable and Sustainable Energy Reviews* 8:493-519.
- James P. 1993. Energy Politics in Canada, 1980-1981: Threat Power in a Sequential Game. *Canadian Journal of Political Science* 26(1): 31-59.
- Liming et al. 2008. Public policy discourse, planning and measures toward sustainable energy strategies in Canada. *Renewable and Sustainable Energy Reviews* 12:91-115.
- Noble BF. 2004. A multi-criteria analysis of Canadian electricity supply futures. *The Canadian Geographer* 48(1): 11-28.
- Thompson et al. 2009. The feasibility of renewable energies in an off-grid community in Canada. *Renewable and Sustainable Energy Reviews* 13:2740-2745.