SEDV 613: ENERGY ECONOMICS

Financial principles and evaluation techniques and their application to energy investment planning; assessment methods applied to real-world examples; assessment of foundations in environmental energy economics and policies.

Instructor:
Dr. Megan Bailey, Haskayne School of Business and School of Public Policy, University of Calgary

Course Objective:
The course covers foundational principles in energy economics and policies and financial principles, and their application to energy investment planning and project assessment. The course specifically addresses the overlap of the economic, environmental, and social dimensions to understand how to use economic concepts and tools to evaluate sustainable initiatives, policies, programs, investments, and projects.

Learning Outcomes:
- understand principles of mainstream economics and alternative economic perspectives of sustainable energy development including eg natural capital, circular economy.
- apply the various tools and methods associated with each of the perspectives to evaluate or support sustainable energy development.
- describe key policy tools and trade-offs involved with each policy approach.
- read a balance sheet, income statement, and cash flow statement and understand how each is useful for decisions regarding the six capitals.
- read an environmental, sustainability, or corporate responsibility report and understand how they are prepared, and how they fulfill an organization’s accountability to society.
- apply the tools of strategic, financial and managerial decision-making to the markets in which they operate in order to make sound sustainable decisions (e.g., cost-benefit analysis, payback period and internal rate of return).