

# Introduction to Community Energy and Emissions Planning

## Prepare for Tomorrow

### Community Energy Management



#### Course Description:

This course describes the purpose, components and objectives of a community energy and emissions plan (CEEP) and the reasons communities create them. After completing the course, students will be able to initiate, prepare and implement a community energy plan. Course materials differentiate between community energy planning and corporate energy planning and describe the essential elements of energy and emissions plans. Students will be able to navigate the process of creating and implementing a plan, identify funding sources and strategies and manage project consultants. Students will be able to design a CEEP that can be successfully implemented. **This course is a pre-requisite for all subsequent courses.**

#### Course Learning Outcomes/Competencies:

Upon successful completion, the student will be able to:

- Develop a CEEP outline
- Integrate energy source assessment from a price and emissions perspective into CEEP
- Convert energy units to greenhouse gasses using 'emissions factors'
- Evaluate CEEP design tactics and trends
- Plan for CEEP implementation success based on outlined CEEP actions
- Integrate lessons learned from the implementation of existing CEEPs and projects into new CEEP development
- Evaluate different renewable energy project benefits and costs
- Propose potential funding sources
- Assess the steps required to engage a consultant
- Plan to manage projects effectively including client / consultant relationships

#### Evaluation Criteria:

Criteria	%	Comments
Assignment 1	20	<ul style="list-style-type: none"> <li>▪ Passing grade for this course is 50%.</li> <li>▪ For assignments to be assessed they must be submitted before the end of the course unless otherwise agreed upon in advance with the instructor.</li> <li>▪ Class participation will be assessed as follows: Student participates in student forum by responding to each question posed by instructor and to at least one posting by another student</li> </ul>
Assignment 2	20	
Quizzes	20	
Participation	10	
Final Project	30	
TOTAL	100%	

#### Learning Resources:

No text book is required. There will be extensive reading from published documents that can be found on the web. Access to these documents will be provided in the online course. Students must have access to a computer with video and audio capability and a reliable internet connection.

In 2016, Community Energy Association is partnering with the British Columbia Institute of Technology to deliver the following six online courses that qualify students to write CEA's Community Energy Management certification exam:

<b>Introduction to Community Energy &amp; Emissions Planning</b> February – March 2016	<b>Community-Based Renewable Energy</b> April – May 2016	<b>Green Energy &amp; Local Economic Development</b> June – July 2016
<b>Financing &amp; Governance for Green Energy Systems</b> August – September 2016	<b>Reducing Energy Use in New &amp; Existing Building</b> October – November 2016	<b>Low Carbon Transportation</b> December – January 2017