



Energy Solutions

Solar Training Program



Course Description

Solar Training Program

The demand for individuals with knowledge of solar farm operations in Alberta continues to expand as the province's sustainable energy sectors rapidly grow. Our training program, IBI Solar, aims to prepare participants with an understanding of solar farm operations through a financial and regulatory compliance lens. The 102-hour program will focus on breaking down the key factors in carbon credit generation, its sale process, and the strategies involved in environmental attribute monetization via worked examples and in-class instruction.

With clearly defined learning objectives and hands-on assessments throughout the course, the IBI Solar Training Program will equip participants with the tools they need to succeed within Alberta's sustainable energy sectors. We encourage you to read through our course outline below for more information on our course content and learning objectives.





Course Outline

Introduction

Length 1 hour

History and Background

Length 5 hours

- Carbon Dioxide
- Global Warming
- Kyoto Protocol and Subsequent Commitments
- Carbon Output in Canada
- Canada Energy use

Overview of a Solar Farm

Length 12 hours

- Generation
- Metering
- Transmission
- Distribution

Understanding the Alberta Energy Market

Length 2 hours

- Current Market
- Future Market

The Process of Carbon Credit Monetization

Length 4 hours

Carbon Credit Quantification Process

Length 20 hours

- Electric Grid Displacement Factor
- Offsetting Periods
- Energy Generation Quantification

Verification Process

Length 20 hours

- Verification Requirements
- Verification Frequency

Registration Process

Length 10 hours

Serialization Process

Length 6 hours

Carbon Offset Project Plan

Length 10 hours

Carbon Offset Project Report

Length 10 hours

Sales Strategies

Length 1 hour

Course Summary

Length 1 hour

Learning Outcomes

1. Understanding of the driving factors that lead to the creation of the green energy movement
2. Insight into the workings of a solar farm and how it interacts with the Alberta electrical grid
3. Knowledge of the key factors in carbon credit generation from a green energy project
4. Ability to identify and complete the required steps of a carbon credit registration and sale within the Alberta Energy Market from a generator's perspective.
5. Ability to create a Carbon Offset Project Plan to a submission-ready standard
6. Ability to create a Carbon Offset Project Report to a submission-ready standard
7. Comprehension of the carbon credit sale process and the strategies involved in environmental attribute monetization

Evaluation

This course is evaluated through a pass/fail standard. In order to receive a certificate of completion, participants must complete all estimated 102 hours of the course. Learning outcomes will be assessed through the assigned project plan and report.



The current course maximum capacity is 5 members, subject to instructor availability. The course instructors are:

- Joe Peters (Program Manager)
- Mike Barer (Senior Instructor)
- Dylan Grove (Junior Instructor)

Please note that the enrollment fee for the IBI Solar training program is \$7,500.



CONTACT US

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