

ENERGY IN ALBERTA'S FOOTHILLS

MAY 10 - 12, 2012

ROCKY MOUNTAIN HOUSE, ALBERTA



Participants enjoy the sunshine while learning first-hand about the industries working together in the Foothills region.

THE TOUR

The 2012 Energy in Alberta's Foothills Education Tour gathered engaged teachers from across the province in a one-of-a-kind professional development opportunity. The Foothills around Rocky Mountain House provided an ideal setting to explore energy and land use in the

region. During the three day tour, teachers developed their understanding of the science behind oil and gas extraction - from seismic surveying to gas plant processing. Participants also gained exposure to issues around energy production and the various perspectives held by

stakeholders in the area. The goal of this program was to provide experiences that will enable teachers to bring current and balanced information to their students and support meaningful energy education.



Hearing from experts - Mike Doyle from the CAGC.



Touring behind the scenes at the Devon Ferrier Gas Plant.



Learning about integrated land management in the great outdoors.

THE PROGRAM

THURSDAY, MAY 10

Welcome and Introductions

Kathryn Wagner & Pamela Learmond, Inside Education

Seismic Survey

Mike Doyle,
Canadian Association of Geophysical Contractors

Petroleum Extraction

Darell Seib, Devon Energy
Extraction in Action - Ferrier Site Tour
Doug Ray, Devon Energy

FRIDAY, MAY 11

Connecting to First Nations

Leslie Yellowface, O'Chiese First Nation

Connecting to the Regulators

Jennifer Lutz & Tom McGee,
Energy Resource Conservation Board

Connecting to the Land Users

Tom Daniels, Sundre Forest Products

Connecting to the Foothills - Tour

Tom Daniels, Sundre Forest Products

A View from Above - Helicopter Tour

A View from the Ground - Des Crosley Demonstration Forest

SATURDAY, MAY 12

Bringing it all Together

Kathryn Wagner & Pamela Learmond, Inside Education

* Appendix A: detailed program itinerary

PROGRAM GOALS

The tour aimed to:

- tell the story of petroleum in the Foothills region
- explain the science behind oil and gas extraction
- explore energy development from various perspectives
- foster an appreciation for the complex relationships between energy, the environment and the economy
- recognize the importance of critical thought and open dialogue



Leslie Yellowface and Louise Russell share insights from the O'Chiese First Nation

OUR PARTNERS

Inside Education sincerely appreciates the time and support of our partners who came together to make this program a great success. These relationships have allowed us to offer a truly valuable professional development opportunity for teachers.

Thank you to all of the organizations that provided expert speakers, site tours and classroom resources for the *2012 Energy in Alberta's Foothills Education Tour*. A special thank you to the partners who provided the financial support that made this program possible:



Our group of excited teachers after seeing the Foothills landscape from a whole new vantage point.



THE PARTICIPANTS

Lucia Besko

Edmonton Public Schools,
Edmonton

Melanie Bond

James Fowler High School,
Calgary

Corey Conroy

Athabasca Delta Community
School, Fort Chipewyan

Debbie Deyell

Centennial Elementary, Edmonton

Connie Dzus

Central Elementary School,
Lac La Biche

Ashley Geldart

Hillcrest School, Edmonton

Nova Gould

Kameyosek Elementary,
Edmonton

Derek Hyland

Bishop Lloyd Middle School,
Lloydminster

Carly Johnson

H.E. Bourgoin School, Bonnyville

Karen Knull

Sunchild, O'Chiese & TaOtha First
Nation Schools, Nordegg

Morgan Laird

Bentley School, Bentley

Leon Lau

Central Memorial High, Calgary

Stephanie Lundberg

Ecole Senator Riley Middle
School, High River

Jennifer MacCormac

St. Alphonsus School, Edmonton

Amanda Merriman

Ecole Queen Elizabeth Junior
Hight School, Wetaskiwin

Patty Milz

Dr. Morris Gibson School,
Okotoks

Anna Moore

Edgemont School, Calgary

Chris Moore

Camilla School, Riviere Qui Barre

Ryan Morgan

Tom Baines School, Calgary

Susan Mueller

Grandview Elementary, Red Deer

Craig Murphy

Thorsby Elementary, Thorsby

Rebecca Redding

Redwater School, Redwater

Zach Schaller

Chestermere High School,
Chestermere

Emily Schroderus

Simon Fraser Middle School,
Calgary

Matt Stelmaschuk

Greystone Centennial Middle
School, Spruce Grove

Aaron Wong

Elemer S. Gish School,
St. Albert

26
teachers
from
18
communities
for
3 days



THE FEEDBACK

A few words from the teachers:

As a teacher and a Albertan, I feel so much more informed about the different perspectives related to energy.

Jen MacCormac, Edmonton

I always emphasize to my students to take off their blinders and see the whole issue - not to stay in a tunnel. I feel like this week I was really able to practice what I preach.

Stephanie Lundberg, High River

I appreciated the chance to take a first hand look at how various land resource users work together for best practice.

Leon Lau, Calgary

My new found knowledge has allowed me to make more vivid connections between issues faced by the oil and gas companies, landowners, environmentalists and the general public.

Rebecca Redding, Redwater

I am going back to my classroom with a new and exciting perspective of oil and gas and the ideas being implemented by this industry.

Nova Gould, Edmonton

The work you do is limitless in the impacts it has in the classroom.

Corey Conroy, Fort Chipewyan



This has been a great chance to **meet** people, **network** and make **new friends**.

Derek Hyland,
Lloydminster



Seeing things from a birds eye view was absolutely **riveting**. What an amazing **memory**.

Nova Gould,
Edmonton



I loved how we brought it back to the **reason** we were there, to **enhance** the classroom **experience** for our students.

Ashley Geldart,
Edmonton

THE EVALUATION

The 2012 Energy in Alberta's Foothills Education Tour was an overall

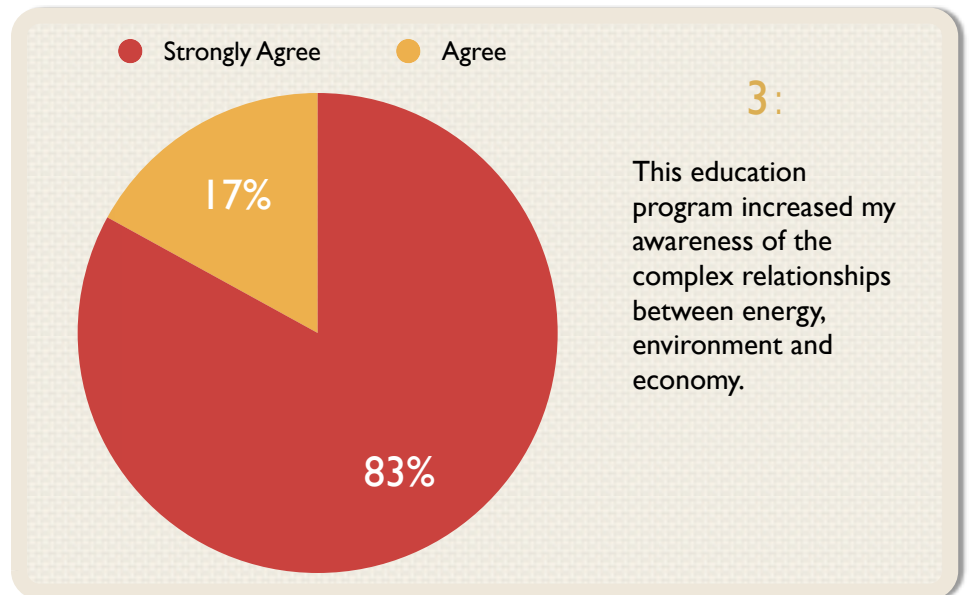
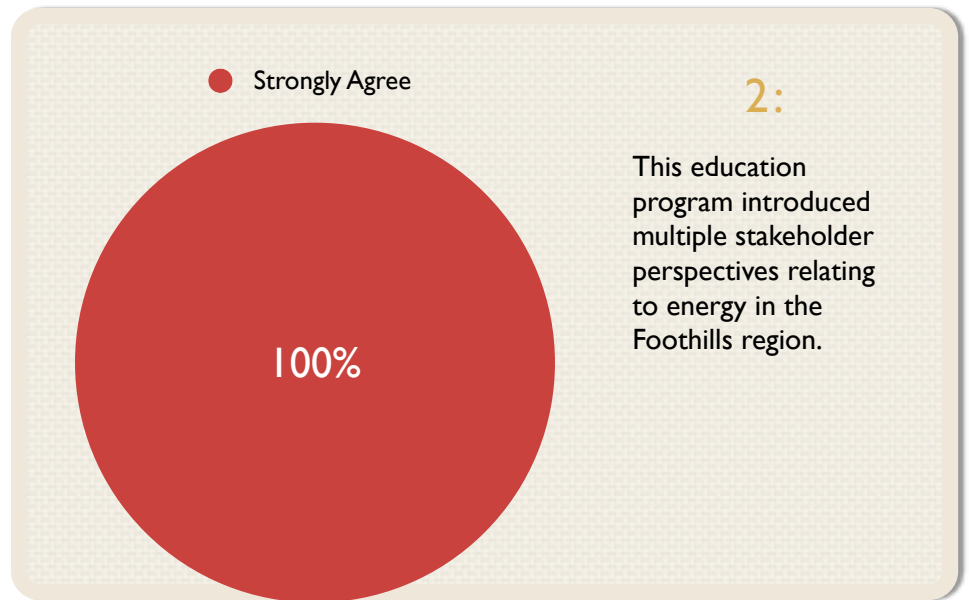
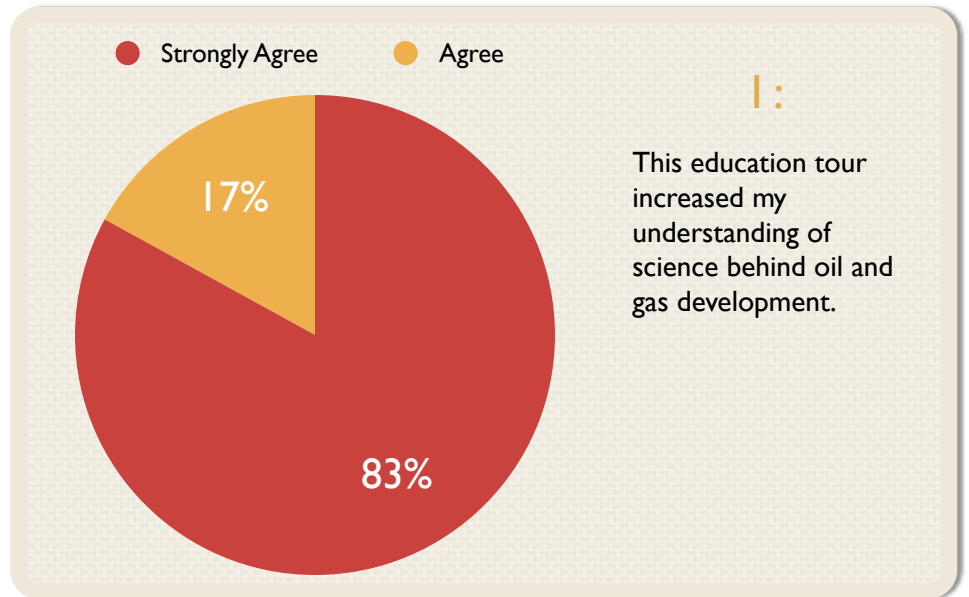
SUCCESS!

We are confident that the goals of this program were achieved. Participants gained a balanced perspective of energy in the Foothills region. The tour offered a variety of engaging speakers, site tours, meaningful discussions and hands-on activities. The valuable learning experiences connected teachers with the science, technology and issues related to energy development. It is clear that the knowledge gained from this program will extend far beyond the tour as teachers bring these experiences into their classrooms.

Participant feedback was collected through written letters and an online survey. Testimonials and survey results provide a summary of the exceptional feedback we received from teachers.

Survey results also indicated ...

- Each participant will share what they learned with an average of 80 students, extending the reach of the tour to over **2000 students**
- **100%** of respondents described the tour as educational, enjoyable and balanced
- **100%** of respondents would recommend Inside Education professional development to a colleague





ENERGY IN ALBERTA'S FOOTHILLS MAY 10 - 12

THURSDAY, MAY 10

Welcome & Introductions

Presenters: **Kathryn Wagner & Pamela Learmond**, Inside Education

Get to know Inside Education, the program and one another. We will also introduce you to PETROLEUM, the star of our show. Whether we are using petroleum to heat our homes, generate electricity or make plastic products, oil and gas play an important role in our everyday lives.

Seismic Survey

Presenter: **Mike Doyle**, Canadian Association of Geophysical Contractors

It's no secret that petroleum exists under much of Alberta, but how do we find the best places to tap into this resource? Mike Doyle will unearth the geology of petroleum rich regions and introduce methods for oil and gas discovery. Further, we will look at the history of seismic survey in the Foothills and discover new technologies being used by the industry.

The Ins and Outs of Upstream Oil & Gas

Presenter: **Devon Energy**

From preparation to reclamation, follow the life cycle of a petroleum well site. During this two-part session, you will discover the intricate steps involved in petroleum production. Plus, you will have the opportunity to look behind the scenes during a tour of the Ferrier gas plant.

<i>Group 1</i>	<i>Group 2</i>
Petroleum Extraction Presenter: Darell Seib , Production Manager	Extraction in Action – Ferrier Site Tour Host: Doug Ray , Senior Production Foreman
Extraction in Action – Ferrier Site Tour Host: Doug Ray , Senior Production Foreman	Petroleum Extraction Presenter: Darell Seib , Production Manager

FRIDAY, MAY 11

Connecting to First Nations

Presenter: **Leslie Yellowface**, O'Chiese First Nation

First Nations have great significance in the Foothills region. Leslie Yellowface, an elder and council representative with the O'Chiese First Nation will share his experience and knowledge of local energy development in the past, present and future. Hear his perspective on how petroleum has influenced both the people and land in the area.

Connecting to the Regulators

Presenter: **Jennifer Lutz & Tom McGee**, Energy Resources Conservation Board

The ERCB ensures the safe and responsible development of Alberta's energy resources. Throughout the lifecycle of a petroleum project, the ERCB is there to conduct environmental monitoring and regulate stakeholder relations. If you have questions around hot topics such as hydraulic fracturing and coal bed methane, this session will provide an opportunity for discussion.



Connecting to Land Users

Presenter: **Tom Daniels**, Sundre Forest Products

We know the petroleum industry isn't the only stakeholder with ties to the Foothills region. During this session, Tom Daniels will connect petroleum to other land users including forestry, agriculture, recreation and wildlife. Find out how all of these stakeholders can benefit from using an Integrated Land Management approach.

Connecting to the Foothills – Site Tour

Host: **Tom Daniels**, Sundre Forest Products

The Foothills provide a unique landscape that is best explored in person. During this interactive bus tour, you will witness ILM at work in the busy Foothills region. Our journey will allow us to explore multiple land uses and best practices such as stream crossings and shared roads.

A View from Above – Helicopter Tour

The moment you have all been waiting for! Experience the beautiful Foothills region from an exclusive vantage point. As you fly overhead, see how many land users you can spot from the air. Don't forget to enjoy the show!

A View from the Ground - Des Crossley Demonstration Forest

While you wait for your helicopter ride, enjoy your time at the Des Crosley demonstration forest. Historically, this forest was used for research; now it's an education site for our school programs. Relax and soak in the fresh air or explore some of our field activities.

SATURDAY, MAY 12

Bringing it all together

Presenters: **Kathryn Wagner & Pamela Learmond**, Inside Education

Now what? If you are wondering how you will ever take all this information back to your classroom, Inside Education is here to help. Kathryn and Pamela will provide some 'Monday morning ready' resources and you will have the opportunity to build ideas to help energize your lessons.

Many thanks to our partners who made this program possible:

