

# Energy in Peace Country Summary Report

May 23-25, 2019 | Dawson Creek, British Columbia

## Introduction

**Inside Education** was excited to bring our legacy of high quality teacher professional development programs to Dawson Creek in 2019 through the **Energy in Peace Country Teacher Professional Development Program**. From oil and gas, to wind and hydro, the Peace Country is the perfect showcase of how renewable and non-renewable energy sectors work together to create a dynamic energy landscape.

This three-day program allowed teachers to experience on-the-ground operations, ask questions to local experts and build a toolbox full of ideas for their classrooms. The program was designed to guide participants through the multiple perspectives that shape the local economy, environment, and society while building awareness and understanding of the energy sector. Ultimately, Inside Education aimed to provide teachers ideas and resources to enhance natural resources education in their classroom.

Building upon 33 years of experience designing experiential education programs using a multiple perspectives approach, Inside Education endeavoured to provide teachers with a comprehensive overview of the local energy sector through speaker sessions, tours, workshops, and learning materials.

We are excited to share the outcomes and impacts from this unique teacher professional development program with this summary report.



# The Program

Through this dynamic program 20 educators:

- **CONNECTED** with the people, places and perspectives that give insight into Alberta's energy sector
- **DISCOVERED** renewable and non-renewable energy development through site tours
- **PARTICIPATED** in a unique professional development opportunity that modeled a hands-on, experiential and inquiry-based approach to learning
- **CONSIDERED** issues and innovations through discussions with energy experts representing multiple perspectives
- **CREATED** lasting networks with like-minded educators from across Alberta and Northeastern British Columbia
- **ENHANCED** their lessons with current, accurate and meaningful energy content that will engage future generations of environmental stewards

Working with industry experts, Inside Education developed a dynamic program that exposed teachers to on-the-ground operations and innovations representative of the energy sector.

From touring an energy water hub and using a working pipeline model to standing under a wind turbine and driving an electric car we created a one-of-a-kind education program that inspired conversations, ideas and classroom connections.

## PROGRAM THEMES

- **Energy Development** - Natural Gas, Solar and Wind
- **Energy Transmission** - Pipelines and Powerlines
- **Energy and the Environment** - Climate change, groundwater, land use
- **Energy and the Economy** - Careers, municipal development, infrastructure

## PROGRAM AT A GLANCE

### Thursday, May 23

- Introduction and Getting to Know Each Other
- An Overview of Energy in Peace Country
- Socio-Economic Perspectives on Energy in Peace Country
- Natural Gas Development - Water Hub Site Tour

### Friday, May 24

- Pipelines and Energy Transmission
- Renewable Energy Site Tour and Electric Vehicle Test Drive

### Saturday, May 25

- Education Workshop featuring Canadian Geographic Energy Map, Northern Environmental Action Team (NEAT) and Inside Education

# The Participants

The 2019 Energy in Peace Program attracted high-quality applications from which Inside Education invited 20 highly engaged educators. The group represented schools from across Alberta and Northeastern British Columbia, with a variety of experience working with students from kindergarten through to grade 12.

One of the goals of the program was to create a network of educators that are working together to incorporate energy education into lessons to support curriculum connections related to energy, climate and the environment. The post-program survey results suggest that the opportunity to discuss classroom connections with colleagues from across the province was a highly valuable component of the program and this network will go a long way toward supporting program participants.

- Brad Langdale** | Spruce Grove Composite High School, Spruce Grove
- Carla Lowther** | Baldonnel Elementary School, Fort St. John
- Carol Sapergia** | Dawson Creek Secondary School, Dawson Creek
- Dean Strydhorst** | Spruce Grove Composite High School, Spruce Grove
- Debbie Harris** | Hythe Regional School, Hythe
- Emma Gammans** | Canadian Energy Museum, Leduc
- Eric Wolf** | Dawson Creek Secondary School, Dawson Creek
- Erin Wu** | Ottewell Junior High School, Edmonton
- Herbert Chinake** | Atikameg School, Atikameg
- Irene Masciuch** | Grant MacEwan School, Calgary
- Jenna Charania** | Hilwie Hamdon School, Edmonton
- Katelan Steward** | Whispering Ridge Community School, Grande Prairie
- Kelsey Harpman** | Dawson Creek Secondary, Dawson Creek
- Kimberley Asai** | Bert Ambrose Elementary School, Fort St. John
- Michelle Holdway** | Isabel Campbell School, Grande Prairie
- Mike McKay** | Eaglesham School, Eaglesham
- Sharon Fisher** | Hilwie Hamdon School, Edmonton
- Sue Ness** | Arbour Lake School, Calgary
- Summayya Mohammed** | University of Alberta
- Asha Ram** | Lamont High School, Lamont



“Such a great way to learn and experience what we are trying to communicate to our students. Invaluable opportunity.”

- Sharon Fisher, Hilwie Hamdon School, Edmonton

“After teaching for almost 20 years there is very little PD that I attend that I actually feel like I have learned something new or something that will actually enhance my teaching, but this is absolutely one of those PD opportunities. Thank you so much!”

- Debbie Harris, Hythe Regional School, Hythe

“After this trip, I feel my knowledge went from 0-60! I have now grasped the basics on a lot of energy production that I never knew before!”

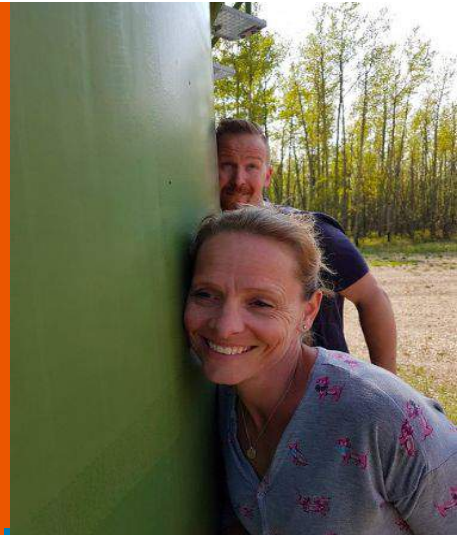
- Erin Wu, Ottewell Junior High School, Edmonton





*"I've already been able to talk about wind and solar energy in my Science 24 class this term in the Energy Conversions Unit. We've developed a lesson where the students and I look at locations of energy production facilities across Alberta"*

**- Brad Langdale, Spruce Grove**



*"The model of a pipeline will be a great resource when teaching about valves and pumps in grade 8 science and will allow me to incorporate pipelines in to that unit more easily and with something that is hands-on."* - **Debbie Harris, Hythe Regional School**



*"I will definitely be playing the Energy Game! On a more general note, I feel like I learned how to provide child-friendly explanations that relate to more complex technologies and Canadian issues"*

**- Emma Gammans, Leduc**

## Classroom Connections



# Partners, Expert Guests, and Tour Hosts

We extend sincere appreciation to our program partners for their laudable support of the 2019 Energy in Peace Country Program. Participants voiced their appreciation for the program being such an accessible opportunity and everyone expressed gratitude at being provided a full scholarship to attend the program. Inside Education is proud to work with partners committed to excellence in natural resource education.



**A SPECIAL THANKS TO THE FANTASTIC EXPERT SPEAKERS AND TOUR HOSTS. THEIR COMMITMENT TO ADVANCING ENVIRONMENT AND NATURAL RESOURCES EDUCATION IS GREATLY APPRECIATED.**

- Kathleen Connelly** | *Dawson Creek Chamber of Commerce*
- Brian Liverse** | *Encana Corporation*
- Laura Lunt & Team** | *Pembina Pipelines*
- Don Petit** | *Peace Energy Cooperative*
- Gener8 2019 Student Team** | *Energetic Learning Campus - North Peace Secondary School, Fort St. John*
- Gener8 2019 Teacher - Kelsey Harpman** | *Dawson Creek Secondary South Campus, Dawson Creek*
- Susan McGarvey** | *Northern Environmental Action Team*

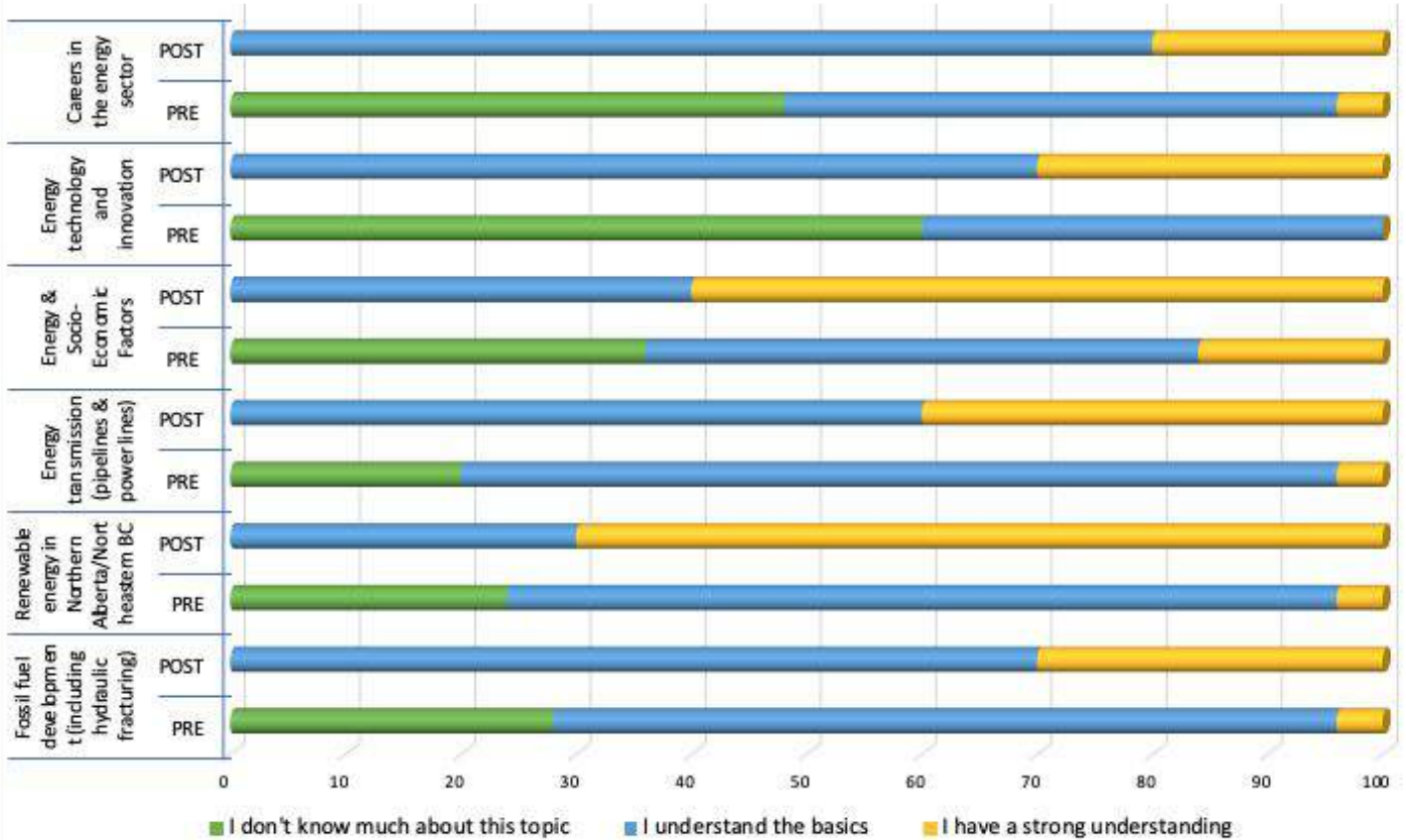
*“As a result of this seminar I am very impressed by the care and concern that our energy companies have for our environment. I am also heartened to see how energy sector companies strive to take good care of their employees and help develop the skills of young workers.”*  
**- Mike McKay, Eaglesham School**



# Program Impact and Feedback

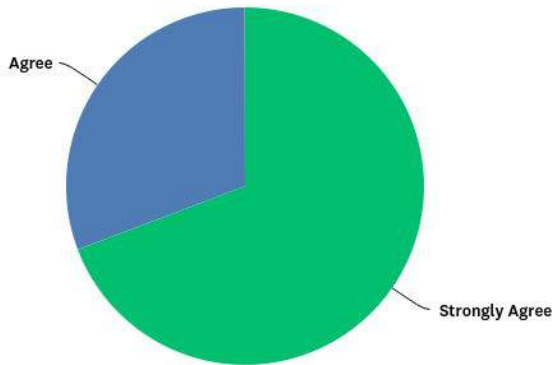
Inside Education is proud of the many success of the 2019 **Energy in Peace Country Education Program**. The follow-up survey results indicate that it was an exceptional learning experience that will translate into meaningful classroom impact. Inside Education estimates that over **2000 students a year will benefit from the experience of the teacher participants** as they infuse their learning into their lessons. We are pleased to share our program feedback below.

Understanding of Energy Topics Pre Program versus Post Program



**This program has enhanced my teaching and will help me provide informative, accurate and high-quality learning for my students**

**100%**



**of survey respondents indicated that they have increased confidence bringing energy related topics into their classroom after participating in the program**

## Generate 2019 Energy Education Projects in Action

Inside Education was thrilled to have two of our Northeast BC Generate teams - Dawson Creek Secondary and Fort St. John Energetic Learning Campus - present their energy action projects during the Energy in Peace Country program. It was a great opportunity for these students to increase the impact of their projects while sharing the Generate experience with a diverse group of educators.

To learn more about Inside Education's Generate program visit [www.gener8.ca](http://www.gener8.ca)





## Summary and Futures

Inside Education is thrilled by the outcomes of the 2019 Energy in Peace Country Teacher Professional Development Program and we received an overwhelmingly positive response from participants. We expect demand for energy programs and resources to grow as teachers share their knowledge, ideas, and experience with their colleagues. With this, we are committed to developing high-quality learning opportunities to support energy education in Alberta and British Columbia.

Inside Education recognizes that energy is an important area of study for today's students; it is the key to creating a generation of informed stewards and decision-makers about important natural resource topics.

### Contact

For More Information Contact:

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