

Electricity and Climate

**Teacher Professional Development Program
Edmonton, April 19, 2018**



A hands-on learning opportunity to support teachers in enhancing electricity and climate education in their classrooms!

Electricity plays an important role in our daily lives as well as in the Alberta Program of Studies, appearing at multiple grade levels. Alberta's electricity and climate landscape is changing rapidly and for many teachers it can be difficult to provide current, accurate and meaningful content for their students. With this, Inside Education developed an experiential learning opportunity for teachers to connect directly with experts and climate innovations in their community. The program brought together 20 Alberta teachers for an exciting day that introduced participants to electricity and climate change.

“Professionally, I am much better informed about Edmonton's and Alberta's initiatives, and personally, my husband and I are talking about getting solar panels installed on our home! Talk about life changing PD.” - Ania Ossowska, Alberta Education

20

TEACHER PARTICIPANTS

1600+

STUDENTS IMPACTED



Program

The 2018 Electricity and Climate Education Program offered teachers a chance to develop awareness, understanding and curriculum connected lesson materials related to Alberta electricity and climate sector. This full day program was packed with dynamic tours, expert guests from multiple sectors, locally relevant experiences and culminated with a education workshop that focused on integrating the material into the classroom.

The program was designed with 3 main objectives:

1. Develop understanding of energy, electricity and climate change
2. Focus on future by highlighting technology, innovations and key climate initiatives
3. Provide access to information, resources & networks to support student learning about energy and climate change

Full Program Agenda in Appendix

“This PD has allowed me to see first hand what and how electricity is used as well as ways to conserve. This fits perfectly into the grade 5 electricity unit and grade 7 heat and temperature! “ Peter Gee, Edmonton Islamic School, Edmonton

Speakers	Tours
<ul style="list-style-type: none"> • Lisa Dockman, City of Edmonton, Energy Transition Program • Peter Amerongen, Habitat Studio • Michelle Hauer & Nirwai Singh Bajwa, University of Alberta, Office of Sustainability • Stefanie Drozda, City of Edmonton Outreach Coordinator • Martin Drinkwalter, ENMAX 	<ul style="list-style-type: none"> • Donadeo Centre for Innovation in Engineering, University of Alberta • Downtown Sustainability Stroll, City of Edmonton • Western Canada’s Largest Solar Installation, Leduc Recreation Centre,

PROGRAM HIGHLIGHTS



Unique Tours



Technology & Innovation



Engaging Speakers



Professional Networking

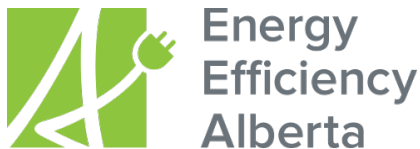
Participants

- Peter Gee, Ecole Meridian Heights, Edmonton
- Adam Dickau, Hardisty School, Edmonton
- Ghazala Azam, Grace Martin Elementary, Edmonton
- Cameron Dutka, Inner City High School, Edmonton
- Lindsey Wiedeman Olse, Wabamun School, Wabamun
- Benjamin Gee, Edmonton Islamic School, Edmonton
- Michelle Savoie, Eleanor Hall School, Clyde
- Ania Ossowska, Alberta Education
- Cheryl Maluga, Roberta MacAdams School, Edmonton
- Maria Lui-Brown, Roberta MacAdams School, Edmonton
- Siobhan Oudith, Christ the King Junior High School, Edmonton
- Marshall Mah, Alexis Nakota Sioux Nation
- Nadine Trenchard, J.J. Nearing School, Edmonton
- Asha Ram, Lamont High School, Lamont
- Catline Fric, Dr. Margret-Ann Armour School, Edmonton
- Tara Thue, Eleanor Hall School, Clyde
- Jennifer Vermillion, Bonnyville Centralized High School, Bonnyville
- Shelley Dryland, West Country Outreach, Rimbey
- Grace Lobel, J.J. Nearing School, Edmonton
- Ian Potts, Queen Elizabeth High School, Edmonton



Partners

We would like to extend our gratitude to our program partners for their commitment to high quality, meaningful teacher professional development. Inside Education also appreciates the in-kind support provided by all of the expert guests, speakers and tour hosts who dedicated their time and enthusiasm to the program.



"It was enlightening, fun and purposeful. I was able to quickly bring back photos and information related to what your companies and organizations do. We quickly reduced our energy use within the classroom even that day and many kids said they will walk to the store!"
Peter Gee, Edmonton Islamic School, Edmonton

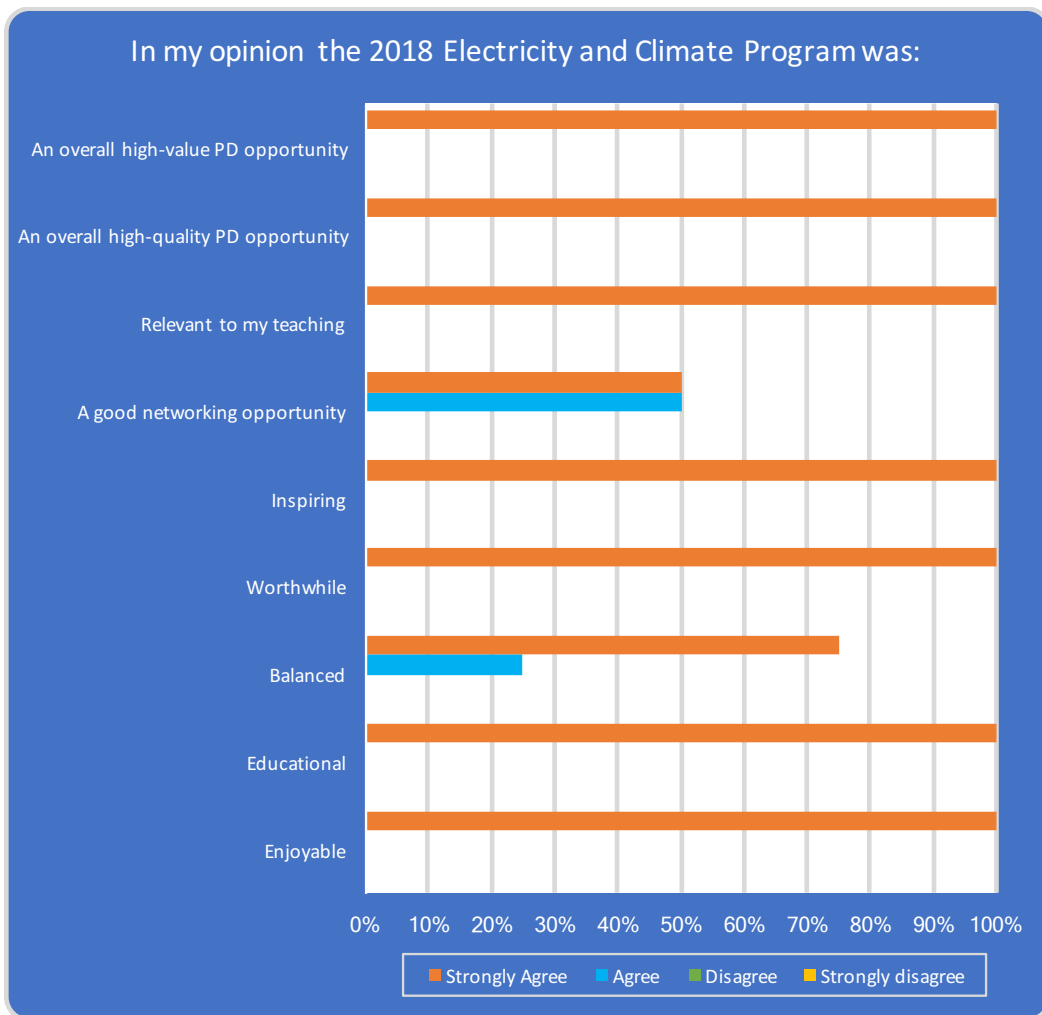
Classroom Impact and Feedback

Inside Education is excited to share the outstanding feedback received from teachers following the **2018 Electricity and Climate Program**. The results below reaffirm Inside Education’s approach to experiential professional development programs as an effective way to increase understanding of natural resource development, energy and climate in Alberta while supporting teachers in bringing the content to the classroom.

100% of participants would recommend Inside Education programs to colleagues

Participant evaluations demonstrated that program objectives were met and exceeded, and teachers found the program valuable to their work. The electricity and climate careers program gives teachers confidence in bringing Alberta-relevant material to their students and provides

“I will be able to tell my students about what initiatives are already happening now in Alberta. I can show them how that can lead to careers too. - Michelle Savoie, Eleanor Hall School, Clyde



100 % of participants indicated the program offered them information and experiences that they could not access elsewhere.

Classroom Connections

"I will have students research renewable forms of energy and try design some way they would be able to implement that form of energy.." - Tara Thue, Elanor Hall School

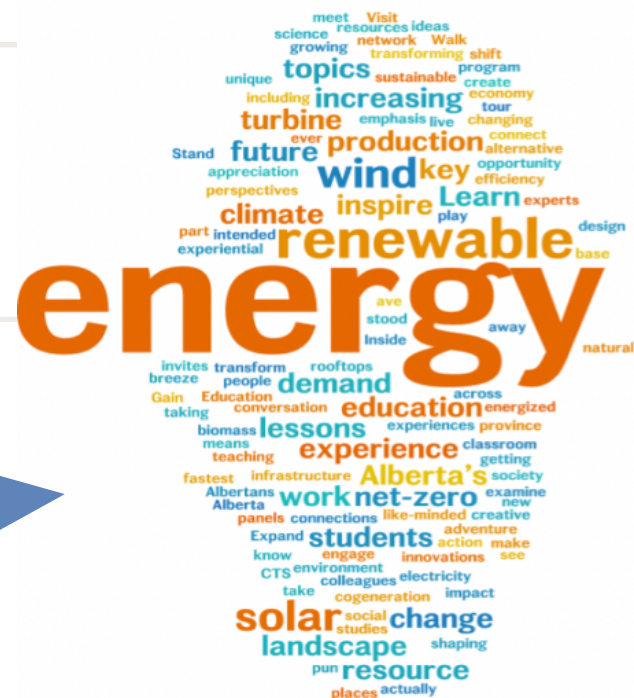
"Use Energuide as a teaching tool and help student understand what it means to make environmentally and financially efficient choices as they become consumers.." -Adam Dickau



"I will be able to tell my students about what initiatives are already happening now in Alberta. I can show them how that can lead to careers too.." - Michelle Savoie

"Currently we are planning a renovation for our school. I am going to have students research & present ideas that would make our renovation green and sustainable, it does need to be LEED silver. This will fit in with our environmental chemistry unit."- Jennifer Vermillion

Thanks for the PD. It was so full of useful information and experiences, they really open my eyes to what is happening in Alberta." Adam Dickau, Hardisty School, Edmonton



Electricity and Climate word cloud created by participants during the program reflection

Summary & Futures

The Electricity and Climate Education Program was a success thanks to the commitment of our partners, enthusiasm of the highly dedicated teacher participants and the contributions of the time and expertise of the speakers and tour hosts. It is evident from the feedback above that this type of programming is a highly valued professional development opportunity for educators. Inside Education recognizes an ongoing need for high quality, accessible teacher professional development programs to advance water and climate change education in Alberta. With this, we are committed to including annual career focused teacher professional development alongside our comprehensive suite of programs and learning materials.

Teacher Professional Development
Classroom and Field Student Programs
Youth Education Summits
Learning Materials

For more information about this and other Inside Education programs contact:

Inside Education 1-888-421-1497 info@insideeducation.ca www.insideeducation.ca



Electricity and Climate Teacher Professional Development Program

April 19, 2018
8:30am-4:30pm
Edmonton, AB



Presented by:



In partnership with:



Thursday April 19

8:30 AM - Program Welcome and Introductions

Electricity and Climate Panel Discussion

This opening discussion will be an opportunity to set the stage for the program and hear from local professionals that are working towards sustainable development, energy efficiency and conservation. **Panelists:** Lisa Dockman, City of Edmonton; TBC, Energy Efficiency Alberta; Peter Amerongen, Habitat Studio

LEED GOLD Building Tour - Donadeo Building, UofA Campus

It takes a group of forward thinking engineers with a passion for environmental design to create a 14-storey structure that fits into a 16 meter wide space. We will get a first hand look at how environment, energy efficiency and smart design come together in this unique learning space. **Tour Host:** Michelle Hauer & Nirwair Singh Bajwa, University of Alberta

Break

City of Edmonton Downtown Sustainability Stroll

This 1.5 km walk will feature how a healthy urban environment that contributes to the quality of life for everyone in Edmonton. You will learn how organizations, groups and the city are working together for a sustainable future. **Tour Host:** Stefanie Drozda, Energy Transition Outreach Coordinator, City of Edmonton

Lunch Provided en route to Leduc

Western Canada Largest Solar Installation Tour - Leduc Recreation Centre

What do 3,622 solar modules look like? We get to get up close to Canada's largest solar install and learn about the environmental, economic and social considerations that went into the project. **Tour Host:** Martin Drinkwalter, ENMAX

Education Workshop

With new these new experiences added to your energy education tool box Inside Education will help you take this learning from our classroom to yours with ideas and lessons that will enhance energy and climate literacy and action in your school.

7 Travel back to Edmonton - ETA 4:30 PM