

A+ for Energy

TEACHER PROFESSIONAL DEVELOPMENT PROGRAM

August 25-26, 2021
Calgary, AB

An experiential learning event for A+ for Energy grant recipients to network, collaborate and learn about Alberta's energy transition and to plan implementation strategies for their energy education projects over the 2021-22 school year.



Introduction

Inside Education developed the **A+ for Energy Professional Development Program** to celebrate and support the teachers who received an A+ for Energy grant for the upcoming 2021/2022 school year. The program was held both online and in person, and was attended by teachers from the 25 schools across Alberta that will be implementing energy education projects this year. Teachers had the opportunity to network with each other and learn more about Alberta's energy landscape through a series of speaker sessions, tours, workshops, and learning resources. The program was designed to celebrate teachers for their successful grant applications and provide a well-balanced perspective on Alberta's energy transition.

In the coming school year, the innovative teacher-developed A+ for Energy projects will impact thousands of students in the 2021/2022 school year, and the professional development program was a great way to kick the projects off.

We are excited to share the outcomes and impacts from this engaging - and for the first time since the onset of the COVID-19 pandemic, *in person* teacher professional development program through this summary report. The demand for this program in addition to the overwhelmingly positive feedback from teacher participants indicates a strong desire for the continuation of the A+ for Energy program, as well as other future energy education initiatives in Alberta.

The Program

Through this dynamic program, 32 educators (20 in person, 12 online):

- **NETWORKED** with like-minded educators from across the province
- **COLLABORATED** with peers to discuss challenges, strategies and tips for success in implementing their A+ For Energy projects
- **CELEBRATED** their successful grant application with peers, funders, and Inside Education staff
- **CONNECTED** with energy education organizations that could help augment their projects
- **LEARNED** about Alberta's energy landscape and energy transition from industry experts

PROGRAM AT A GLANCE

Wednesday August 25

Introduction & Welcome

Heritage Park Tour

Pathway to Net Zero • John Drinkwater, BP Canada

Energy Innovations • Jennifer D'Aouost, Emissions Reduction Alberta

A+ Project Showcase

Celebration Dinner

Thursday August 26

Energy Education Opportunities (PetroLMI VR Headsets, EnRoads Climate Simulator, Inside Education Energy Toolkit)

A+ for Energy Project Implementation Networking

Wrap Up



The Participants

The A+ for Energy Professional Development Program brought together representatives from the 25 schools that will be implementing energy education projects in the 2021/2022 school year. 20 teachers attended the event in person, and 12 teachers attended the event online. The participants had varying levels of experience with implementing energy education projects in the classroom. The group included teachers who taught a range of subjects from grade 4 to grade 12.

- Kimberly Bishop** | École McTavish, Fort McMurray
- Pauline Payne** | Fort Assiniboine School, Fort Assiniboine
- Tyson Jordan** | Bonnyville Centralized High School, Bonnyville
- Laurie Thompson** | Kikino Elementary School, Kikino
- Miranda Weber** | École St. Joseph, Whitecourt
- Marie Jahner** | Joseph M Demko School, St. Albert
- Laura Banu** | Joseph M Demko School, St. Albert
- Kristian Basaraba** | Next Step High School, Sherwood Park
- Dean Strydhorst** | Spruce Grove Composite High School, Spruce Grove
- James Pratt** | Spruce Grove Composite High School, Spruce Grove
- Renee Shévalier-Lavin** | Annunciation World IB School, Edmonton
- Ian Doktor** | Jasper Place High School, Edmonton
- Julie Arsenault** | Michael Strembitsky School, Edmonton
- Richy Trinh** | St. Angela School, Edmonton
- Jody Nahirhnak** | St. Angela School, Edmonton
- Amanda Green** | École Champs Vallee, Beaumont
- Allan Wong** | The Brick Learning Centre, Ponoka
- Moriah Ostropolski** | New Myrnam School, Myrnam
- Robert Tymofichuk** | New Myrnam School, Myrnam
- Isaac Ward** | Siksika Nation High School, Siksika Nation
- Tamara Schurch** | AE Cross, Calgary
- Robin Owens** | AE Cross, Calgary
- Connie Sullivan** | Westmount Charter School, Calgary
- Bradley Kerwin** | Dr. Gladys Mckelvie Egbert School, Calgary
- Julie Bohay** | Rundle College, Calgary
- Lisa Corbett** | Rundle College, Calgary
- Steve Smith** | West Island College, Calgary
- Cole Hintz** | Strathmore High School, Strathmore
- Jillian Gron** | George Freeman School, Strathmore
- Carlie Laslo** | George Freeman School, Strathmore
- Zac Coupland** | St. Joseph School, Coaldale
- Brayden Ursaki** | St. Mary's Elementary, Lloydminster





The Projects

Following the professional development program, the teachers returned to their communities to begin implementing their A+ For Energy projects. 25 projects will be implemented in 16 different communities, with a projected impact of over 7000 students.



2021/2022 A+ FOR ENERGY GRANT RECIPIENTS

Annunciation World IB School, Edmonton

THE ABC'S OF ENERGY | \$4,154

New Myrnam School & Myrnam Outreach and Homeschool Centre, Myrnam

BIG IMPACTS START WITH "TINY" CHANGES AT HOME | \$5,000

Siksika Nation High School, Siksika Nation

S.T.E.A.M. MOBILE ENERGY FOR LAND BASED LEARNING | \$5,000

West Island College, Calgary

THE AMAZING RACE TO A CLEAN FUTURE | \$4,464

Rundle College, Calgary

QUARANTINE WON'T GET US DOWN! (AT LEAST NOT DOWN ON ELECTRICITY!) | \$4,775

Michael Strembitsky School, Edmonton

PEDAL POWER BIKE WARS! | \$5,000

Fort Assiniboine School, Fort Assiniboine

PLANTS FOR PROSPERITY | \$4,154

Strathmore High School, Strathmore

SHS "OFF THE GRID" FARMWALL | \$3,902

St. Joseph School, Coaldale

MAKE (R-SPACE) ANY BIKE AN E-BIKE | \$3,500

Alexandra Middle School, Medicine Hat

AMS MICROGENERATION ENERGY LAB | \$5,000

Jasper Place High School, Edmonton

ARGUING FOR SOLAR POWER | \$4,175

St. Angela School, Edmonton

BRAVO FOR BROADCASTING | \$5000

Next Step High School, Sherwood Park

ROCK FOR SUSTAINABLE ENERGY | \$4,000

George Freeman School, Strathmore

TAKING ACTION TO DIVERSIFY OUR ELECTRICITY PRODUCTION: WIND POWER | \$5,000

St. Mary's Elementary School, Lloydminster

FROM THE CLASSROOM TO THE SOURCE: USING VIRTUAL/AUGMENTED REALITY TO VISUALIZE AND CONSTRUCT ENERGY CONCEPTS | \$4,556

Joseph M Demko School, St. Albert

GROWING SMART | \$3,492

Ecole McTavish &

Fort McMurray Islamic School, Fort McMurray

THE FINAL FRONTIER | \$8,986

Dr. Gladys McKelvie Egbert School, Calgary

PEDAL POWER! | \$5,000

Norwood Elementary School, Edmonton

SUNNY DAYS AHEAD! | \$4,993

A. E. Cross School, Calgary

THE ALBERTA POWER GAME | \$5,000

Bonnyville Centralized High School, Bonnyville

SOLAR BOTS - A RAY FOR THE FUTURE! | \$5,000

Spruce Grove Composite High School, Spruce Grove

TINY HOME 1.1 | \$5,000

Ecole St. Joseph School, Whitecourt

HEATING UP ENVIRONMENTAL STEWARDSHIP: ALTERNATIVE ENERGY SOURCE PRODUCTION | \$5,000

Kikino Elementary School, Kikino

INDIGENOUS KNOWLEDGE: WIND, SOLAR POWER, PLANTS & STORY | \$5,000

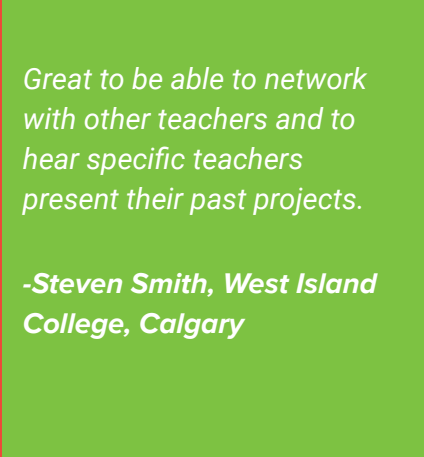
The Brick Learning Centre, Ponoka

THE BRICK SOLAR ENERGY | \$2,370



I thoroughly enjoyed the planning which went in to ensure educators could network with businesses and with each other.

-Miranda Weber, Ecole St. Joseph, Whitecourt



Great to be able to network with other teachers and to hear specific teachers present their past projects.

-Steven Smith, West Island College, Calgary



I like coming back to school with a refresher, as well as the latest and greatest innovations. Thanks again Inside Ed and your terrific sponsors that make it all possible!

-Zac Coupland, St. Joseph School, Coaldale

"I thought the PD was excellent in many ways. Not only did we learn about ways we can be successful in our projects, we got to network with other, well seasoned participants and leaders in the field. Furthermore, meeting some of the funding sponsors was excellent for for us the recipients and the companies. I'd recommend this Energy project to anyone who wants to take a dive with projects for students."

-Allan Wong, The Brick Learning Centre, Ponoka



Partners and Expert Guests

Thank you to our program partners for their support of the 2021 A+ for Energy Program and accompanying Professional Development workshop. Participants were appreciative of the opportunity to network with one another, learn from energy industry experts, and gear up for their projects. They also voiced their gratitude for the full scholarship that allowed them to attend the session cost-free. A special thank you to Heritage Park for hosting the workshop at their brand new Innovations Crossing building and for providing tours of their new energy and natural resource exhibits.



THANK YOU TO OUR INCREDIBLE SPEAKERS/HOSTS; THEIR COMMITMENT TO ADVANCING ENERGY EDUCATION FOR TEACHERS ACROSS ALBERTA IS GREATLY APPRECIATED

Michelle Moisan | *Heritage Park*
Susan Reikseidler | *Heritage Park*
John Drinkwater | *BP Canada*
Jennifer D'Aoust | *Emissions Reduction Alberta*
Tamara Gale | *PetroLMI*
Anna Kottsova | *PetroLMI*

THANK YOU TO THE PARTNERS WHO ATTENDED THE CELEBRATION DINNER; THEIR CONTINUED SUPPORT OF THE A+ FOR ENERGY PROGRAM IMPACTS THOUSANDS OF STUDENTS ACROSS ALBERTA EVERY YEAR.

Maureen Herchak | *BP Canada*
Anna Moore | *BP Canada*
Pamela Keenan | *BP Canada*
Rebecca Collins | *BP Canada*
Amy Pilling | *BP Canada*
Leanne Zee | *TC Energy*
Amanda Balint | *TC Energy*
Emma Harrow | *TC Energy*
Raveena Sangha | *TC Energy*
Leah Pottinger | *TC Energy*
Trent Zacharias | *Cenovus Energy*
Laura Lunt | *Inside Education Board of Directors*
Bruce Wilson | *A+ for Energy Judge*



Summary and Futures

Over 7000 students will benefit from A+ For Energy projects this school year!

Inside Education is delighted with the outcomes of the 2021 A+ For Energy Professional Development Program. We received positive feedback from participants and we look forward to supporting the implementation of their A+ for Energy projects throughout the year. We expect the number of A+ for Energy applications to continue to increase each year, as has been the trajectory over the last few years. We remain committed to supporting energy education at schools across Alberta and providing high quality professional development programs for teachers. As Alberta's energy landscape continues to transform and transition, it is essential that the youth and educators of Alberta become informed decision makers and stewards.

For More Information Contact:
Inside Education Society of Alberta
www.INSIDEeducation.ca

Kathryn Wagner, Program Director | kwagner@insideeducation.ca
Steve McIsaac, Executive Director | smcisaac@insideeducation.ca
Mila Mezei, A+ for Energy Coordinator | mmezei@insideeducation.ca

