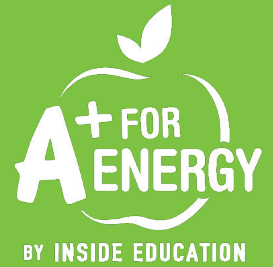


A+ for Energy

TEACHER PROFESSIONAL DEVELOPMENT PROGRAM

August 26-27, 2024

Calgary, Alberta



A two-day hands-on workshop for A+ for Energy grant recipients to learn about Alberta's energy landscape, network, collaborate, and celebrate the implementation of their energy education projects over the 2024-25 school year.

Introduction

Inside Education planned the **A+ for Energy Teacher's Workshop** to give teachers who received an A+ For Energy grant for the 2024/2025 school year a chance to network, celebrate, and learn together. The program was held in Calgary and was attended by teachers from 23 schools across Alberta that will be implementing innovative energy education projects this school year. Participants had the chance to learn more about Alberta's energy landscape and gain strategies to implement their projects through guest speakers, tours, workshops and learning resources. The program celebrated teachers' commitment to energy education and provided a well-balanced perspective on Alberta's energy landscape.

In the upcoming 2024/2025 school year, the A+ for Energy projects led by this group of teachers will impact thousands of students across Alberta, and the professional development program proved to be a fantastic way to kick off the year!

We are excited to share the outcomes and impacts from this engaging professional development program through this report. The demand for A+ for Energy grants as well as the overwhelmingly positive feedback from participants indicates a strong desire for the continuation of the A+ for Energy program, as well as other future energy education initiatives throughout Alberta.



PROGRAM AT A GLANCE

The Program

Through this dynamic program, 31 educators:

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

Monday, August 26

Introduction & Welcome

Tours

TC Energy Saddlebrook Solar Farm

University of Calgary - Engineering, research, and sustainable infrastructure

Tuesday, August 27

Energy Expert Talks

Bryan Helfenbaum (Alberta Innovates)

John Drinkwater (BP)

Tour

ENMAX Shepard Energy Centre

Energy Education Workshop

Green Learning, Alberta Tomorrow, Energy Ecosystem Foundation, Microbial Fuel Cell Olympics, Inside Education, and teacher suggested resources.

Project Kickoff

A+ Next Steps

A+ for Energy Celebration Dinner



The Participants

The A+ for Energy Professional Development Program brought together 31 teachers from the 23 schools that will be implementing innovative energy education projects throughout the 2024/2025 school year. Teachers attended the event with some successful grant recipient teachers unable to participate due to school calendar scheduling. As always, a wonderful benefit of A+ for Energy grant, the group included teachers teaching a range of subjects from Kindergarten through Grade 12.



- Caroline Miller** | Ecole St. Paul, St. Paul
- Zac Coupland** | St. Joseph School, Coaldale
- Nadine Guenther** | St. Benedict School, Edmonton
- Katrina Patel** | St. Benedict School, Edmonton
- Florin Panaitescu** | North Haven, Calgary
- Steven Schultz** | Lacombe Composite High School, Lacombe
- Julia Brotea** | Lacombe Composite High School, Lacombe
- Shaun Donald** | E.S. Laird Middle School, Lloydminster
- Jennifer Vermillion** | Bonnyville Centralized High School, Bonnyville
- Debbie Harris** | Hythe Regional School, Hythe
- Hayley McKay** | Visions West Outreach School, Rocky Mountain House
- Denise Croteau** | Visions West Outreach School, Rocky Mountain House
- Shelly Sutcliffe** | St. Theresa Catholic School, Sherwood Park
- David Stephens** | St. Theresa Catholic School, Sherwood Park
- Janice Jensen** | Griffin Park School, Brooks
- Jarrett Graff** | Griffin Park School, Brooks
- Evelyn Chan** | G. H. Dawe School, Red Deer
- Amanda Green** | Ecole Champs Vallee School, Beaumont
- Tracy New** | Ecole Greenfield School, Edmonton
- Mark Iwaasa** | Stirling School, Stirling
- Mike Fletcher** | Stirling School, Stirling
- Matthew Vavrek** | Peace Wapiti School, Grande Prairie
- Andrew Fernandes** | Notre Dame School, Leduc
- Collin Kupchenko** | Two Hills School, Two Hills
- April Huppertz** | Innisfree Delnorte School, Innisfree
- Cameron Wolsey** | H.W. Pickup School, Drayton Valley
- Petra Hynes** | H.W. Pickup School, Drayton Valley
- Julie Arsenaault** | Michael Strembitsky, Edmonton
- Ashley Lepage** | Northcott Prairie School, Airdrie
- Makayla Widmer** | Northcott Prairie School, Airdrie
- Luke Kamineski** | Nellie Carlson School, Edmonton

The PD was well thought out, balancing different perspectives on the topic of energy.

- Florin Panaitescu, North Haven School



I appreciate Inside Education and their partners' willingness to invest in teachers who are willing to step up and take action around Energy issues by providing these teachers with PD, funds and support. Our students and schools are better prepared to deal with current problems in the energy field.

- Steven Schultz, Lacombe Composite High School

It is always great when we get the opportunity to be the learner rather than the teacher. Every time I attend the A+ For Energy PD sessions, I come away with valuable resources to use in the classroom.

- Shelly Sutcliffe, St. Theresa School



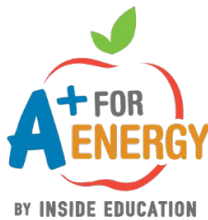
Having the opportunity to share ideas with my peers and support each other on our energy education journey was by far the best part.

- Amanda Green, Ecole Champs Vallee School

The Projects

After the professional development program, the teachers returned to their communities to begin implementing their A+ For Energy projects.

30 projects will be implemented in 24 different communities across Alberta and will have an impact on thousands of students.



2024/2025 A+ FOR ENERGY GRANT RECIPIENTS

- A.E. Cross School, Calgary**
HOMES FOR THE FUTURE | \$4,309
- Bonnyville Centralized High School, Bonnyville**
COOKING WITH THE SUN | \$3,500
- École Champs Vallée School, Beaumont**
SUSTAINABLE SANCTUARY: Advancing Energy Efficiency in Outdoor Education | \$5,000
- École Greenfield School, Edmonton**
HOW TO BE CLIMATE OPTIMISTS: Exploring Renewable Energy Sources and Putting Sustainable Practices into Action with Spike Robotics | \$4,950
- École Notre Dame School, Leduc**
DISCOVERING ENERGY BY USING NUMERACY, LITERACY, AND PLAY | \$1,050
- École St. Paul School, Fort McMurray**
HYDRODRIVE: ADVANCING RENEWABLE ENERGY WITH HYDROGEN-POWERED VEHICLES | \$4,620
- Eugene Coste School, Calgary**
ENVISIONING ALBERTA'S ENERGY IN 2050 | \$2,500
- G.H. Dawe School, Red Deer**
ENERGY TOOLKIT CLASS SET FOR G.H. DAWE SCHOOL | \$2,500
- Griffin Park School, Brooks**
ROCKIN' ALBERTA: RESOURCES, RIFFS, AND PSA SHIFTS! | \$5,000
- Harry Ainlay High School, Edmonton**
ENERGY DETECTIVE: Unveiling Efficiency Secrets in Homes and Schools | \$4,470
- Hilltop High School, Whitecourt**
BUILDING A SOLAR OVEN | \$2,376
- H.W. Pickup School, Drayton Valley**
THE H.W. CHARGING HUB | \$4,544
- Hythe Regional School, Hythe**
BUILDING THE FUTURE: One 'Light' Step at a Time | \$5,000
- Innisfree Delnorte School, Innisfree**
SUNRISE GARDENS: SOLAR HEAT FOR GREEN GROWTH | \$5,000
- Jasper Jr/Sr High School, Jasper**
SEEDING STEM SUCCESS: Cultivating Energy Literacy with FarmBot at Jasper Sr/Jr High School | \$5,000

- Lacombe Composite High School, Lacombe**
SOLAR MONITORING | \$5,000
- Lloydminster Comprehensive High School, Lloydminster**
H2 HERE WE GO | \$5,000
- North Haven School, Calgary**
SOLAR ENERGY FOR SUSTAINABLE FUTURE! | \$5,000
- Northcott Prairie School, Airdrie**
SPARKS OF INNOVATION: Empowering Students through Energy Exploration | \$3,052
- Our Lady of the Angels Catholic School, Fort Saskatchewan**
COMPOST CHAMPIONS: Turning Lunch Leftovers into Soil Superheroes at OLA | \$1,457
- Paul Rowe Jr/Sr High School, Manning**
PAUL ROWE REDUCES, REUSES, AND RECYCLES | \$1,500
- Peace Wapiti Academy, Grande Prairie**
PWA BIKE PROGRAM | \$1,500
- STEM Innovation Academy, Calgary**
2025 MINI MFC OLYMPICS AND 2025 MFC COACHING | \$5,000
- Stirling School, Stirling**
THE PEDAL PEOPLE BIKE SHOP | \$1,500
- St. Benedict Elementary School, Edmonton**
UTILIZING OUR HUMAN ENERGY FOR ENERGY CONSERVATION | \$5,000
- St. Joseph Coaldale, Coaldale**
SUNFLOWERS OR SOLAR TRACKERS | \$5,000
- St. Theresa Catholic Middle School, Sherwood Park**
REACH FOR THE STAR! | \$5,000
- Tom Baines School, Calgary**
HYDROGEN CAR DESIGN CHALLENGE! | \$4,508
- Two Hills School, Two Hills**
STUDENT ACTION PLAN DEVELOPED BY STUDENTS FOR STUDENTS | \$5,000
- Visions West Outreach School, Rocky Mountain House**
CULTIVATING SUCCESS: A Study on Plant Growth in Various Mediums | \$5,000



Partners and Expert Guests

Thank you to our program partners for supporting the 2024/25 A+ for Energy Program and Professional Development workshop. The teachers were grateful for the opportunity to network with peers, tour energy-related sites, learn from energy industry experts, and get excited for their projects.

Participants also voiced their gratitude for the full scholarship that allowed them to attend the workshop at no cost!



THANK YOU TO THE INSPIRING SPEAKERS/HOSTS; THEIR COMMITMENT TO ADVANCING ENERGY EDUCATION IS GREATLY APPRECIATED.

Bryan Helfenbaum | *Alberta Innovates*
 John Drinkwater | *BP*
 Andreana Salouk & Meghan Owen | *Green Learning*
 Sue Arlidge | *Alberta Tomorrow*
 Justin & Aaron Tan | *Microbial Fuel Cell Olympics*
 Yvanna Ireland | *Energy Ecosystem Foundation*
 Libby Bell | *University of Calgary*
 Michael Edwards & Erin Ablett | *TC Energy*
 Kray Price & Dakota Graham | *ENMAX*

THANK YOU TO OUR JUDGES WHO ANONYMOUSLY SCORED APPLICATIONS BASED ON A+ FOR ENERGY PROJECT CRITERIA.

Renee Shevalier-Lavin | *Annunciation World IB School*
 Brayden Ursaki | *St. Mary's Elementary School*
 Lisa Corbett | *Rundle College Jr. Sr. High*
 Helen Colbourne | *Valley Creek School*
 Neil Korotash | *St. Albert High School*
 Ian Doktor | *Jasper Place High School*
 Miriam Mahaffy | *Edmonton Forest School*
 Forrest Battjes | *Work Wild*
 John Drinkwater | *BP*
 Amy Pilling | *BP*
 Peter Exall | *BP*
 Anna Moore | *BP*
 Andy Taylor | *Cenovus*
 Venkata Mannem | *Cenovus*
 Kartik Rao | *Cenovus*
 Chelsy Hoy | *Pembina Gas Infrastructure*
 Neil Guay | *Pembina Pipeline*
 Simon Geoghegan | *Pembina Pipeline*
 Olga Kalinchuk | *Pembina Pipeline*
 Vinayaraj Ozhukil Kollath | *Pembina Pipeline*



Summary and Futures

Over 5,000 students will benefit from A+ for Energy projects this school year!

The 2024 A+ For Energy Professional Development Program was a great success and is viewed by teachers as an important component of the entire A+ for Energy project. The feedback received from participants was overwhelmingly positive and we look forward to supporting them as they carry out their projects throughout the year. We expect the demand for energy education programs to continue to increase steadily, especially with recent changes to the Alberta Program of Studies.

Inside Education remains committed to providing high quality professional development programs for teachers and supporting energy education in schools across Alberta. As Alberta’s energy landscape continues to transform, it is essential that the teachers and young people of Alberta become informed decision makers and stewards. There is no doubt that the A+ for Energy program will continue to support this positive future!

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