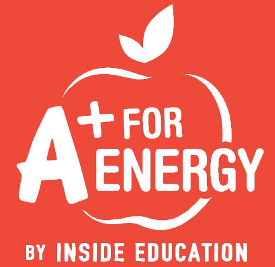


# A+ for Energy

TEACHER PROFESSIONAL DEVELOPMENT PROGRAM

**August 24-25, 2022**  
*Calgary, Alberta*



A two day hands-on workshop for A+ for Energy grant recipients to learn about Alberta's energy landscape, network, collaborate, celebrate the implementation of their energy education projects over the 2022-23 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 2022/2023 school year a chance to network, celebrate and learn together. The program was held in Calgary and was attended by teachers from 21 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 2022/2023 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.



# The Program

Through this dynamic program, 29 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

## PROGRAM AT A GLANCE

### Wednesday, August 24

#### Introduction & Welcome

Energy Innovations Panel  
*David Van Den Assem (Alberta Innovates) & Michael Edwards (TC Energy)*

Energy Education Workshop  
*Green Learning, EnRoads Climate Simulator, Escape With STEM, Energy Toolkit, Alberta Power Game*

Project Kickoff  
*A+ Next Steps*

*A+ Project Showcase & Networking*

### Thursday, August 25

Energy Innovations and Futures  
*Simon Davies (Canadian Natural)*

#### **Tours**

*ENMAX Shepard Energy Centre*  
**InnoTech** Alberta Carbon Conversion Technology Centre

**Clean O2** - Calgary-based business converting captured CO2 from furnaces to produce soap

**GoElectric** - Calgary-based auto dealer and garage featuring current EVs and gasoline to EV conversions

*A+ for Energy Celebration Dinner*





# The Participants

The A+ for Energy Professional Development Program brought together 29 teachers from the 21 schools that will be implementing innovative energy education projects throughout the 2022/2023 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 Grade 1 through Grade 12.

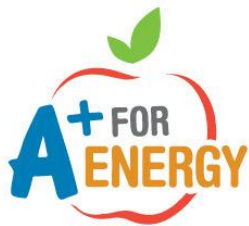
**Zac Coupland** | St. Joseph School, *Coaldale*  
**Brett Weighill** | Piikani Nation Secondary School, *Piikani Nation*  
**Cole Hintz** | Strathmore High School, *Strathmore*  
**Brianne Thompson** | Children's Village School, *Calgary*  
**Caitlin Pelletier** | Children's Village School, *Calgary*  
**Ben Wetsch** | Louis Riel School, *Calgary*  
**Dan Balkwill** | Louis Riel School, *Calgary*  
**Robin Owens** | Louis Riel School, *Calgary*  
**Mike MacDonald** | Notre Dame High School, *Calgary*  
**Julie Bohay** | Rundle College, *Calgary*  
**Amanda Millette** | Rundle College, *Calgary*  
**Lisa Corbett** | Rundle College, *Calgary*  
**Jacqueline Neeve** | St. Josephine Bakhita School, *Calgary*  
**Rhonda Oborn** | St. Josephine Bakhita School, *Calgary*  
**Janine Morrish** | David Thompson High School, *Condor*  
**Ian Doktor** | Jasper Place High School, *Edmonton*  
**Taralyn Chapman** | St. Angela School, *Edmonton*  
**Julie-Anne Bullock** | St. Angela School, *Edmonton*  
**Denise Verdonk** | St. Richard School, *Edmonton*  
**Matthias Cheung** | Strathcona Christian Academy, *Sherwood Park*  
**James Pratt** | Spruce Grove Composite High School, *Spruce Grove*  
**Dean Strydhorst** | Spruce Grove Composite High School, *Spruce Grove*  
**Nick Bell** | Spruce Grove Composite High School, *Spruce Grove*  
**Miranda Weber** | École St. Joseph, *Whitcourt*  
**Rose Rumball** | École St. Joseph, *Whitcourt*  
**April Pentelichuk** | Innisfree Delnorte School, *Innisfree*  
**Moriah Ostropolski** | New Myrnam School, *Myrnam*  
**Kate Ladret** | New Myrnam School, *Myrnam*  
**Shaun Donald** | E.S. Laird Middle School, *Lloydminster*



# The Projects

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

21 projects will be implemented in 14 different communities across Alberta and will have an impact on thousands of students.



## 2022/2023 A+ FOR ENERGY GRANT RECIPIENTS

**Strathcona Christian Academy Secondary**, Sherwood Park  
FARMBOT FOR THE HUNGRY | \$5,000

**Rundle College Jr./Sr. High School**, Calgary  
OFF-GRID LIVING IS THE GOAT | \$4,995

**St. Richard School**, Edmonton  
ALTERNATIVE ENERGY PEDAL-POWERED PROJECT | \$5,000

**St. Angela School**, Edmonton  
RENEW AND REFOCUS: THE ENERGY CENTRE | \$5,000

**Notre Dame High School**, Calgary  
SOLAR POWER AND BEYOND | \$5,000

**Jasper Place High School**, Edmonton  
PUTTING RENEWABLE ENERGY TO THE TEST | \$4,740

**Piikani Nation School**, Piikani Nation  
SUPII-PO'OMAAKSIN (PLANTING SEEDS)  
STUDENT GROWTH PLAN | \$5,000

**Siksika Nation High School**, Siksika Nation  
PROJECT PHOENIX ALGAE BIOREACTORS | \$5,000

**Children's Village School**, Calgary  
CVS GARDEN PROJECT: FROM GREENHOUSE TO KIDS KITCHEN | \$5,000

**Innisfree Delnorte School**, Innisfree  
THE FUTURE OF FOOD: A SUSTAINABLE APPROACH | \$5,000

**St. Josephine Bakhita School**, Calgary  
SJB LEARNS FROM THE LAND | \$4,397

**Louis Riel School**, Calgary  
THE 'NET-ZERO' EMISSIONS ALBERTA GAME | \$5,000

**New Myrnam School**, Myrnam  
LEADING OUR COMMUNITY TOWARDS NET ZERO | \$5,000

**Spruce Grove Composite High School**, Spruce Grove  
ELECTRO KART | \$5,000

**St. Joseph School**, Coaldale  
IT'S NOT A PALM TREE, IT'S A WIND TURBINE! | \$5,000

**David Thompson High School**, Condor  
DTHS SCIENCE OF RECLAMATION HERITAGE PROJECT | \$3,052

**E.S. Laird Middle School**, Lloydminster  
FRYER FUEL | \$5,000

**Fort McMurray Islamic School and  
École McTavish High School**, Fort McMurray  
FINAL FRONTIER PART TWO | \$5,000

**École St. Joseph**, Whitecourt  
CYCLING INTO THE FUTURE | \$5,000

**Strathmore High School**, Strathmore  
POWERING OUR OFF GRID COMMUNITY GREENHOUSE | \$5,000

**Crescent Heights High School**, Calgary  
THE CRESCENT WRENCH COMMUNITY BIKE SHOP | \$4,994



*"I loved the opportunity to get together with like minded teachers and collaborate. The chance to hear industry experts discuss current and relevant topics in energy was invaluable. Going to local energy companies and facilities was great to continue to grow my knowledge and confidence in an important topic for my classroom. Being able to draw on actual first hand experience allows me to connect the dots for my students in a real tangible way (ie what is actually happening in our province)."*

**-Mike MacDonald, Notre Dame High School (Calgary)**



*"Excellent sessions with like-minded educators. Amazing resource for project networking and information sharing."*

**-Brett Weighill, Piikani Nation Secondary School (Piikani Nation)**

*"It was a very informative couple of days. I came in to the experience with very little knowledge about energy, and was exposed to a LOT of new information. It was a great crash course in energy, and very inspiring."*

**-Brianne Thompson, Children's Village School (Calgary)**

*"Wow! It was fantastic. I learned so much and came back excited about energy education. The sessions and tours were an excellent balance. I really appreciated the ENMAX and Clean O2 tours. As a high school teacher, I really appreciated how the Inside Education staff asked many presenters about their journey to their current positions."*

**-Cole Hintz, Strathmore High School (Strathmore)**



## Partners and Expert Guests

Thank you to our program partners for supporting the 2022/23 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.**

**David Van Den Assem** | *Alberta Innovates*  
**Michael Edwards** | *TC Energy*  
**William O'Yeung** | *Escape With STEM*  
**Andreana Salouk** | *Green Learning*  
**Simon Davies** | *Canadian Natural*  
**Lori Larsen** | *ENMAX*  
**Jaeson Cardiff** | *Clean O2*  
**Rajko Pavic** | *GoElectric*

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

**Peter Exall** | *BP Canada*  
**Holly Exall** | *BP Canada*  
**John Drinkwater** | *BP Canada*  
**Amy Pilling** | *BP Canada*  
**Pamela Keenan** | *BP Canada*  
**Maureen Herchak** | *BP Canada*  
**Sharon Tomkins** | *TC Energy*  
**Leanne Zee** | *TC Energy*  
**Jennifer Gregg** | *TC Energy*  
**Christa-Lee Sowerby** | *TC Energy*  
**Jenna Gaetz** | *TC Energy*  
**Raveena Sangha** | *TC Energy*  
**Diego Morales** | *TC Energy*  
**Raveena Sangha** | *TC Energy*  
**Bruce Wilson** | *A+ For Energy Judge*  
**Trent Zacharias** | *Cenovus Energy & Chair of Inside Education Board*  
**Helen Colbourne** | *Inside Education Board and A+ for Energy Judge*  
**David Hill** | *Inside Education Board*





# Summary and Futures

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

The 2022 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 increase steadily, especially with pending 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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