

Careers in Energy

TEACHER PROFESSIONAL DEVELOPMENT PROGRAM

December 4-6, 2025
Edmonton, AB

Introduction

Inside Education’s Careers in Energy Professional Development Program provided teachers with meaningful opportunities to network, collaborate, and exchange knowledge in energy education and career pathways. Twenty-four teachers from across Alberta participated in this program, which featured two days of expert speakers, interactive workshops, and educational tours in and around Edmonton.

Through hands-on learning experiences and thoughtful discussions, participants deepened their understanding of Alberta’s energy sector and explored practical ways to bring current, relevant energy and career education into their classrooms. We are pleased to share the outcomes and impacts of this professional development experience in this report.



CanmetENERGY Research Center Tour

“The program was hands-on, connected to Alberta’s real industries, and was designed by people who truly understand teachers. The PD was exciting, purposeful, and refreshing!”

- Jesus Tabilin, *Mihtatakaw Sipi School*

“It was amazing to see all the different opportunities for students and pathways to achieve goals, as well as the interest to share this with students and help advise. I am excited to go back and tell students about these opportunities!”

- Wanda Landshoff, *Aurora Academic Secondary Charter*

“I really valued this learning opportunity and enjoyed the time and experiences. I feel much more confident in discussing Alberta’s energy and have already shared some of what I learned with my classes.”

- Andrea Cote, *Edmonton Christian Northeast*

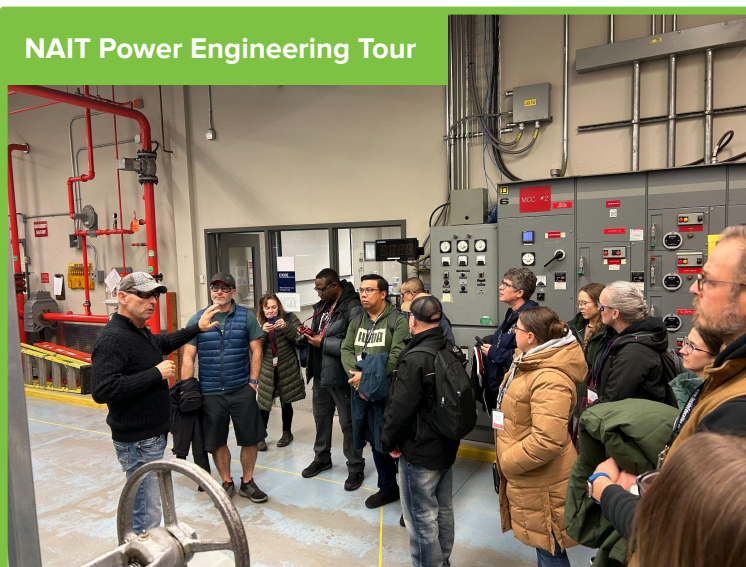
The Program

Throughout the program, participants heard from professionals working across all facets of the energy sector, including renewables, oil and gas, research, and innovation. Speakers shared their diverse career journeys and offered insights into what a typical day looks like—both in the office and in the field—giving participants a well-rounded perspective on the wide range of energy careers available.

The program began with an Energy 101 introduction from Inside Education, followed by a presentation from the Canadian Society for Evolving Energy that explored Alberta’s current and future energy mix and the concept of energy security. Participants then toured Pembina Pipeline control centre, where they learned about energy transportation, midstream services, and the careers that keep energy systems operating safely and efficiently. The day concluded with a visit to NAIT, where educators explored a wide range of energy-related programs, from power and chemical engineering to geoscience and environmental monitoring.

Day two began with a hydrogen car-building workshop and a presentation from Emissions Reduction Alberta, highlighting past, current, and future projects while setting the stage for a deeper focus on energy innovation and research. Participants then toured the University of Alberta with Future Energy Systems, learning about grid innovations and advancements in carbon capture technologies. The final stop of the day was the CanmetENERGY Research Centre, where educators gained insight into the diverse pathways available in energy research.

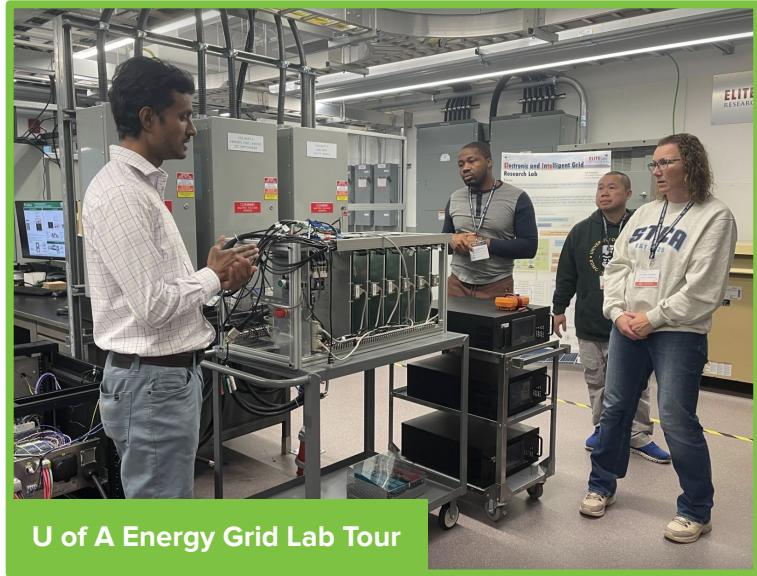
On the final day of the professional development program, educators had the opportunity to connect with representatives from Solar Alberta and Iron & Earth, learning more about renewable energy, the growing demand for careers in the sector, and available training and learning opportunities. The program concluded with a debrief, during which teachers shared key takeaways, discussed impactful moments, explored additional resources, and considered how to bring these insights into their classrooms.



Program Participants

- Andrea Cote | Edmonton Christian Northeast School
- Bamidele Fasunwon | Piikani Nation Secondary School
- Benjamin Gee | Edmonton Islamic Academy
- Brian Bergsma | Warner School
- Brydie Fee | Central Memorial High School
- Camille Germaine | Westpark Middle School
- Cilena Mathieu | Lethbridge Collegiate Institute
- Courtney Roy | Career Connections
- Daniette Terlesky | St. Carlo Acutis Catholic High School
- Ginny Bergsma | Palliser School Division Office
- Jesus Tabilin | Mihtatakaw Sipi School
- Kensworth Morris | Napi's Playground Elementary School
- Lettie Croskery | Willow Creek Composite High School
- Leander McArthur | Ascension of Our Lord
- Lisa Seidel | Chinook's Edge School Division
- Melissa Jackknife | J. A. Williams High School
- Michelle L'Heureux | Edmonton Christian Northeast School
- Monika Madik | Rundle College
- Morgan Dilts | Jaffray Jr Secondary School
- Rob Hammel | Didsbury High School
- Sarah Johnson | Fairview High School
- Shaun Donald | Lloydminster Comprehensive High School
- Steven Wickson | Foothills Academy
- Wanda Landshoff | Aurora Academic Secondary Charter School

"I am more equipped to help students decide what they want to do. I have more resources to play with and I will change my coursework because of the PD you have provided!"
 - Cilena Mathieu, *Lethbridge Collegiate Institute*



U of A Energy Grid Lab Tour

"There are very few PDs one can find that is as entertaining and educational. The networking and ideas generated will impact any and every classroom and subject."
 - Shaun Donald,
Lloydminster Comprehensive High School



Pipeline Demonstration at Pembina Pipeline



Powerplay Power Generation Activity

"I didn't realize how big the career options in energy actually is. It gave me hope for my students that there will be a demand for their labor."
 -Rob Hammel, *Didsbury High School*

Summary & Futures

Feedback from our participants highlights the critical role that professional development experiences play in supporting teachers to bring authentic, real-world energy learning and career guidance into their classrooms. These opportunities are made possible through the continued support and engagement of our program partners, subject-matter experts, and tour hosts.

Inside Education remains dedicated to delivering high-quality professional development programs for teachers while advancing energy education in schools across Alberta. As the province's energy landscape continues to evolve, it is increasingly important that educators and students are equipped to become informed decision-makers and responsible stewards. With the pilot Alberta Program of Studies incorporating energy concepts at every grade level, we anticipate growing demand for energy education programs in the years ahead.

Program Funders

We extend our gratitude to our program funders, whose generous support allows us to provide transformative learning experiences for teachers. The impact will be felt by their students, the next generation of leaders shaping decisions in environmental, energy, and natural resource sectors.



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