

Electrifying the Future
Charging Ahead:

Sharing ETF Project Learnings and Project Potential across Canada

Revised 2026



An in-depth look at the overall project outreach of student learning, EV-related teachings, and starting other potential conversion projects with multiple stakeholders across various levels. This resource was developed from GreenLearning's projects, "*Re-Energy: Electrifying the Future of Transportation*," where we connected with students, teachers, community members, and administration across Canada.

Table of Contents

Introducing the “Charging Ahead Initiative”	3
Connecting with Stakeholders	4
Connecting with Students	6
Connecting with Teachers	7
Connecting with School Boards	9
Connecting with Departments of Education	10
Insights from Other Organizations	11
Community Events	13
Community Impact Graphic	14



Introducing the “Charging Ahead Initiative”

Over the 2023-2026 school years, GreenLearning led the Charging Ahead Initiative. This initiative helped us connect with various stakeholders across Canada to share our insights and learning materials from our Electrifying the Future projects in Alberta and Ontario.

Our goal for these conversations was to identify and understand barriers, and gather suggestions for new learning materials. This initiative provided an opportunity to learn more about school and board readiness to incorporate electric vehicle information and instruction into their regular programs.

Electrifying the EV Future

Charging Ahead with Learning Pathways for School Boards

Helping school boards integrate electric vehicle education and infrastructure through workshops, feedback and discussions. The EV transition will mean changes to infrastructure and curriculum and we want to see how your school board is preparing for these changes.
We encourage you to join the conversation to see how your board can lead this change.

- #### 1 Share the Charging Ahead Program with your Teachers

Share the attached promo piece with interested teachers in automotives, science, Eco Club Leads, careers, etc.


- #### 2 Explore our EV materials

We will share with you a wide range of resources we created specifically for electric vehicle education.


- #### 3 Let's Talk: Feedback and Readiness

Hear about our learnings first hand, join us to discuss strategies for your board and what teachers are saying.


- #### 4 Join the Conversation

Share your thoughts, stay connected and join a national conversation to help your school and school board create pathways for EV learning.

Questions? We'd love to connect!
Reach out to andreana@greenlearning.ca

A program of: 

With support from:  

We created this promotional piece to help other teachers and school boards keep pace with the transition towards the electrification of transportation by sharing our findings and experience through newsletters, workshops, and electric vehicle resources on our website.

Connecting With Stakeholders

Promotion of the Charging Ahead Initiative to boards, schools, and community members included sharing on social media, in our regular newsletter, and reaching out to personal networks. We've included our key findings from the initiative in this section, separated into stakeholder subcategories. Reflecting on our ETF projects, we attribute much of the success in the vehicle conversion project to the engagement of all stakeholders at each level of the education system and beyond.

Student interest and excitement about electric vehicles is necessary for a successful school-based conversion project. During both ETF projects, students at Crescent Heights High School, and at The Woodlands Secondary School, were highly engaged in the conversion project, and even started an EV club to dedicate additional time to it. The enthusiasm didn't stop there, students at both high schools got involved in the logo design for the conversion project and had club shirts made to commemorate their hard work and dedication.



Logo designed by students at The Woodlands S.S.

Enthusiastic automotive teachers who are passionate about EVs and are willing to pursue extra training is also essential, as some of the high-voltage work required for a conversion may necessitate additional certification. The likeliness of additional time added to the overall conversion project and the management of student work is appreciated and a fundamental part of the project.

All Things EV News!

The closest thing to our project that is currently underway is the Registered Apprenticeship Program (RAP). The Registered Apprenticeship Program (RAP) is a way for registered high school students to become apprentices and earn credits toward an apprenticeship program and a high school diploma at the same time.

W. H. Crossford in Airdrie, Alberta has a RAP through a dealership. While that dealership isn't focused on EVs, a similar arrangement or agreement may be a way to initiate more EV learning in high schools.

Additional exciting news is that the electrification of school buses in PEI has begun, through a third party. As part of the province's commitment to reduce carbon emissions, approximately one-third of the public school bus fleet in Prince Edward Island has transitioned to electric (as of February 2024).



Image & Information Source:
<https://www.princeedwardisland.ca/en/information/education-and-early-years/electric-school-buses>

Administrative support to deal with “on-the-ground” processes and procedures outside the classroom is also essential. The school administration involvement and collaboration component helps the process go much smoother. The principal and vice principal can provide further support and bridge any gaps with facilities staff and other school board members. This could look like getting media releases approved, connecting with other staff for different parts of the project, or approving contractor work.

The school board or district-level administration needs to be involved to assist with navigating policies and procedures. For example, they may be needed to permit high-voltage work or coordinate the establishment of charging station protocols. This level of administration would also be in charge of organizing contractors for charging station installation and facilitating any purchases for the project.

Departments of Education can encourage conversion projects like these by updating the curriculum to include electric vehicles in the automotive classes. They can also include promotion and implementation of our existing ETF-focused webinars, connecting us with school boards, teachers, and students across the country.

We want to share our gratitude to all stakeholders involved in this project. The continued achievements and engagement are thanks to everyone involved. Whether it’s being hands-on in the project, sharing our findings, or simply joining in on the conversation, we attribute the success of this project to all of you.

Stakeholder Connections

STUDENTS

TEACHERS

ADMINISTRATION

PUBLIC

Student Conferences and Expos, ETF Virtual Workshops, Simulators, Infographics, Educator Videos

Educator Presentations (Virtual, Conferences), Charging Ahead Newsletter, Teacher Conventions, Career Nights

Meetings

School-wide Symposiums, Auto Shows, Celebration Events, Eco Fairs

Connecting With Students

Student enthusiasm is key to keeping projects like this successful in the long-run. With this in mind, we were eager to share our EV conversion and charging station infrastructure projects with students.

We presented to students at the 10 Peaks Student Conference at the Lacombe Memorial Centre in 2022 and the Red Deer Polytechnic Institute in 2023 and 2024. 10 Peaks is a not-for-profit organization with a mission to engage, inspire, and educate Alberta's youth about energy, the environment, and our climate and how they can play an essential role in the future of our province. We conducted a session - each with approximately 25-100 students - all about the electrification of transportation, which included a Myth or Fact game about electric vehicles and a brief overview of our Electrifying the Future (ETF) Project. As a whole, 470 students attended the conferences in person, and around 500 attended online.

GreenLearning also attended the Mayor's Environment Expo in 2024 and 2025. The Mayor's Environment Expo inspires and educates Calgary's youth on environmental leadership and sustainability and fosters long-term partnerships that align with environmental stewardship and education. At the 2024 Mayor's Expo, we had a booth set up with hands-on items from the conversion, such as batteries and safety tools, and facilitated an activity where students drew EVs on a large sheet of chart paper. There was approximately 3,600 students in attendance. In 2025, we delivered various workshops, one where students could draw what they imagined EVs would look like in the future.



Our Program Manager, Meghan Owen, talking to students at the Mayor's Environment Expo in 2024.

Another student presentation was also developed and promoted to introduce the ETF pilot project, inspire youth, and educate students on EVs and debunk common myths. Since hosting this student workshop, we've implemented and developed our [Electrifying the Future \(ETF\) webinar](#) and added ETF components to our [Re-Energized webinar/workshop](#). These webinars include details from both projects in Alberta and Ontario, along with interactive EV components for students and teachers. They have been conducted over the last three years to schools across Canada, from Prince Edward Island to Nunavut. The total student engagement from 2023 to 2026 can be found on [page 14](#).

Connecting With Teachers

We showcased the Electrifying the Future project at various teacher conferences which we had the pleasure of attending. From Calgary, Alberta, to Mississauga, Ontario, a variety of teachers checked out our booth and joined the presentations. The attendees included automotive, science, Environment Specialist High Skills Major, and English as a Second Language. Teachers of both English and French Immersion programs attended.

GreenLearning took part in the Science Teachers' Association of Ontario (STAO) 2024 and 2025 conferences. We showcased our ETF projects and our **EV conversion simulator** in 2025. These events had 775 educators attending who were looking for ways to inspire their students to take action and enhance their learning.



Our Environmental Education Engagement Manager, Katie Zajac, and our Environmental Education Coordinator, Maria Khan, attending the Science Teachers' Association of Ontario conference in 2024.

Alberta Teachers' Conventions are annual 2-day professional development events across Alberta. There are 9 convention associations across Alberta, and we've had the pleasure of attending several of these events, showcasing our progress in our ETF conversion project.

We attended the Palliser District Teachers' Convention in February 2025, with approximately 4,000 teachers. The Central Alberta Teachers' Convention in February 2025, with approximately 1,700-2,300 teachers. The Greater Edmonton Teachers' Convention in February 2025, with approximately 9,000-10,000 teachers. The North Central Teachers' Convention in February 2026, with approximately 6,000-6,500 teachers. Lastly, we attended the Endless Skies Teachers' Convention in February 2026, attended by approximately 2,000-2,300 teachers.

We were advised that the best way to provide professional development to educators directly was to develop a pre-recorded video they could watch when capacity allowed, as it does not require teacher release time to attend a workshop or interfere with their personal time after school. With this insight, a video showcasing the automotive teachers involved in the pilot project was created. This allowed interested teachers to hear directly from the automotive teachers about expanding EV learning opportunities, how the project fits into the current curriculum, potential shop requirements or updates, and the type of cross-curricular opportunities available with an EV conversion and charging station infrastructure project.

Since then, two more educator videos on the EV conversion project and on charging station infrastructure have been created. [Click here](#) for a direct link to GreenLearning's Electrifying the Future landing page, where the videos and other EV-related resources are located.

The following responses were gathered from teachers after viewing the videos:

What benefits can an electric vehicle conversion project bring to your school?

- *Get young people excited and educated about electric vehicles (vs. gas-powered vehicles)*
- *Develop technical/mechanical skills useful in the future that could be transferred to the workplace*
- *Interdisciplinary project: includes components of science/engineering/automotive/tech with cross-curricular connections*
- *Engage young people who enjoy hands-on learning, providing real-world learning for our Auto Body students to understand the latest and greatest green technology*
- *Develop leadership skills for many students*
- *Educators can expand their own EV skills by being introduced to techs they otherwise may not have had the opportunity to explore*

What barriers do you think you might encounter?

- *Time constraints/commitment and overall length of project*
- *Initial cost/funding, then any additional costs that you may run into*
- *Continued motivation to complete a project of this magnitude*
- *Relies on buy-in from tech teacher*
- *Safety expertise and training will be needed*
- *Lack of support for students taking Technology courses among the parent community, our students face tremendous pressure to pursue "professional" programs in University (e.g. Doctor, Lawyer, Pharmacist, Engineer, etc.)*
- *Students can independently complete some tasks, but need more teacher supervision for most*

We also presented at the Career and Technology Education Conference in Calgary, Alberta in 2023. Cody Price and Evan Roberts co-presented with Andreana Prusky, GreenLearning's Project Manager. There were 12 attendees in total, ranging from automotive teachers to science teachers. Some great discussions were had about EVs:

- Lithium mining remains a controversial topic (environmental and ethical concerns, but also a discussion to be had about the alternative)
- EVs raising the bar for what vehicles can do
- High voltage remains a safety concern
- Large class sizes can make a project like this difficult to start. Cody and Evan suggest starting smaller (like with an EV club, after school). Teachable moments with the conversion can still be easily demonstrated to larger classes.
- Old lawnmowers are a great small-scale conversion project!



Cody Price and Evan Roberts at the Career and Technology Education Conference

Charging Ahead May 2024 Newsletter

Hello,

My name is Andreana Salouk and I am GreenLearning's Project Manager. We may have already been introduced via email, or you may have seen me in action leading a virtual workshop all about electric vehicles for your students!



You are receiving this newsletter because you signed up for GreenLearning's Charging Ahead Initiative, and part of this initiative includes joining our EV community! I will be contacting you monthly with project updates, upcoming workshops, GreenLearning resources, share resources about electric vehicles and so much more!

Finally, we also maintained contact with interested participants through our monthly Charging Ahead newsletter. This newsletter shares project updates, upcoming workshops, GreenLearning resources, and other resources about electric vehicles with interested teachers. Since this newsletter launched in May 2024, we've accumulated almost 100 subscribers on our e-mail list and counting.

A copy of the October 2025 edition can be found [here](#).

Connecting With School Boards

Many school boards were willing to meet with and share the Charging Ahead Initiative within their educator networks. Boards and schools included the Edmonton Public District School Board, Peel District School Board, Ottawa Carleton District School Board, Calgary District School Board, Dufferin-Peel Catholic District School Board, Calgary Catholic School Board, Edmonton Catholic School Board, Chief Little Pine School, Deninu School, Halton District School Board, and South East Cornerstone Public School Division. These boards are from Alberta, Ontario, Saskatchewan, and the Northwest Territories.

All in all, the boards and individual schools were excited to hear about our EV conversion projects, but were at different levels of readiness to incorporate EV learning opportunities. Some were already looking into installing charging stations at various schools, while others cited different priorities, including garden programming and plastic waste reduction. Some boards have taken the step to look into EV safety training for their automotive teachers, with the potential of an EV conversion project in mind. Multiple boards have included our ETF-related webinars showcasing the EV conversion project in their curriculum.

Connecting With Departments of Education/Governments

Meetings with Alberta Education, the PEI Department of Education and Early Years, the Nova Scotia Department of Education and the New Brunswick Government and Department of Education were very insightful.

Alberta Education noted that the ETF project is ahead of the times, and that they are eager to see how it continues to unfold. There is plenty of work to do before a conversation about updating the current curriculum can be done, but Alberta Education mentioned that the high-voltage EV safety training for automotive educators would be valuable.

The PEI Department of Education and Early Years mentioned that two of their seven automotive teachers received their high voltage training. The PEI Department of Education and Early Years cited that any EV training resources would be welcomed, as it seemed to be currently lacking.

The Nova Scotia Department of Education and Early Childhood Development (NS) is currently in the process of renewing its provincial curriculum, with a stronger emphasis on renewable energy, climate change, and sustainability. As part of this shift, there is growing interest in how emerging technologies can be reflected in classroom learning. In particular, students pursuing pathways in the skilled trades, including automotive and mechanics programs, are increasingly engaging in conversations about EV technology and what it means for the future of their field.

We worked with the New Brunswick government and Educational Services to conduct three Re-Energized webinars for their students in grades 6-7 and 9-10 in February of 2025. Students learned about the concepts and importance of renewable energy and the differences between EVs and ICE vehicles. Students also learned how these technologies play a role in climate action by building working renewable energy models. We also created a sustainability award for their STEM showcase, where students had a chance to win up to \$1000 for designing and creating a sustainable STEM model.

Insights from Other Organizations

Post-Secondaries such as SAIT and NAIT:

- NAIT and SAIT are both piloting EV technician courses this year (2026). These courses focus on training automotive technicians (including automotive educators) that want to receive EV micro-credential skills. To find out more about the EV training courses, check out the [NAIT](#) and [SAIT](#) websites.
- Canadian automotive curricula are undergoing changes to address the rapid adoption of electric vehicles (EVs), SAIT and NAIT are updating their curriculum to meet new requirements.
- Offering a dual credit program by SAIT x CBE has been a popular discussion, and the opportunity is promising! They started the program recently to attract high school students into the trade space

Electric Vehicle Association of Alberta (EVAA):

- EVAA is a non-profit with a mission to educate the general public on myths and facts about EVs. They were happy to help us spread the word about Charging Ahead through their social media channels.
- A few years ago, EVAA was at a school to do a presentation and that school had also converted a car into an EV.

Calgary Regional Consortium:

- Provides learning opportunities for teachers, and they helped the CBE organize the Career and Technology conference that Andreana, Cody, and Evan presented the ETF project.
- We reached out to see if they can help us spread the word about our Charging Ahead Initiative and build a connection between our organizations. They shared our initiative in their newsletter, and recommended we reach out to other consortiums as well.

"We have an amazing partnership that we've created with SAIT through this project. In fact, we were just at an event where they got some considerable sponsorship from RBC, and they're starting an electric component to their programming. We're just down the street from SAIT so a lot of our students who want to go on to explore automotives will have the opportunity to do that and will be stars in their class based on their experience, because most of the other students won't have had an experience like that. This will set them up for next steps in their education as well as next steps in their career."

Tim Kitchen
CBE Specialist, Unique Pathways

Tip: Reaching out to your local EV clubs, like we did with EVAA, may be a good way to connect with local EV enthusiasts. Also, reaching out to large teacher groups, like we did with the Calgary Regional Consortium, can be a great way to spread the word about your project with other educators. It always helps to find other like-minded networks to share ideas, provide outreach about your project, or just chat all things EV!

Connected North:

- Connected North is a platform that provides live, interactive virtual learning experiences and access to educational resources for students and teachers in remote communities, supporting them where they live.
- We partnered with them to offer our Re-Energized webinar on their platform for Indigenous groups.
- In these webinars, we discussed EV accessibility in northern, remote regions - operations in extreme cold weather, ability to carry heavier equipment
- This opened up conversations with students on clean energy technologies around them, rather than sharing examples that may not be relatable to the audience

FNEV:

- FNEV increases awareness and understanding among Manitoba and Northwestern Ontario First Nations Elders, Chief and Councils, Committee Members, Educators, and all Indigenous peoples about the opportunities presented by electric vehicles and EV charging infrastructure.
- To connect more with Indigenous communities, they recommended focusing on building relationships (e.g. sitting in on smoke ceremonies and other events without expecting anything in return), connecting with Indigenous youth groups, and attending Indigenous education conferences.
- Our Re-Energized webinar was shared with their team for feedback, and they also sat in on one of our live webinars.
- They provided suggestions on how to navigate questions on battery mining, sharing examples of more sustainable methods (e.g. mine in Nevada uses a more sustainable process).

NRStor:

- NRStor develops cost-effective, reliable energy storage projects.
- We met with the Chief Development Officer of NRStor at the Indigenous Clean Energy Conference in Toronto. They shared details about their current EV-related projects, mainly focusing on battery storage and an electric power wall for homes and vehicles.
- NRStor's Chief Development Officer has plans to directly work with the Ontario automotives teacher on providing insight for the high voltage work in the conversion

The Clean Foundation:

- We partnered with The Clean Foundation to help connect us with schools in Nova Scotia about our ETF project and webinars.
- We presented our Re-Energized webinars across multiple schools, focusing on EVs and the ETF project, sharing details on how it can be scaled to different levels
- From November 2025 to March 2026, we held 1 webinar per month for grades 3-6, and grades 7-12, with a total of 7 webinars planned.

Community Events

We attended multiple community events to spread the word about ETF. Each of these events offered an opportunity to connect through informal conversation in a fair-like setting, where teachers and students could ask questions and seek additional information. The diversity of interests and perspectives provided a great way to seek feedback and spread the word about the project.

These events reached students, teachers, administrative staff, community members, and other people in the EV field. Check out our impact graphic on the next page to see our total reach!



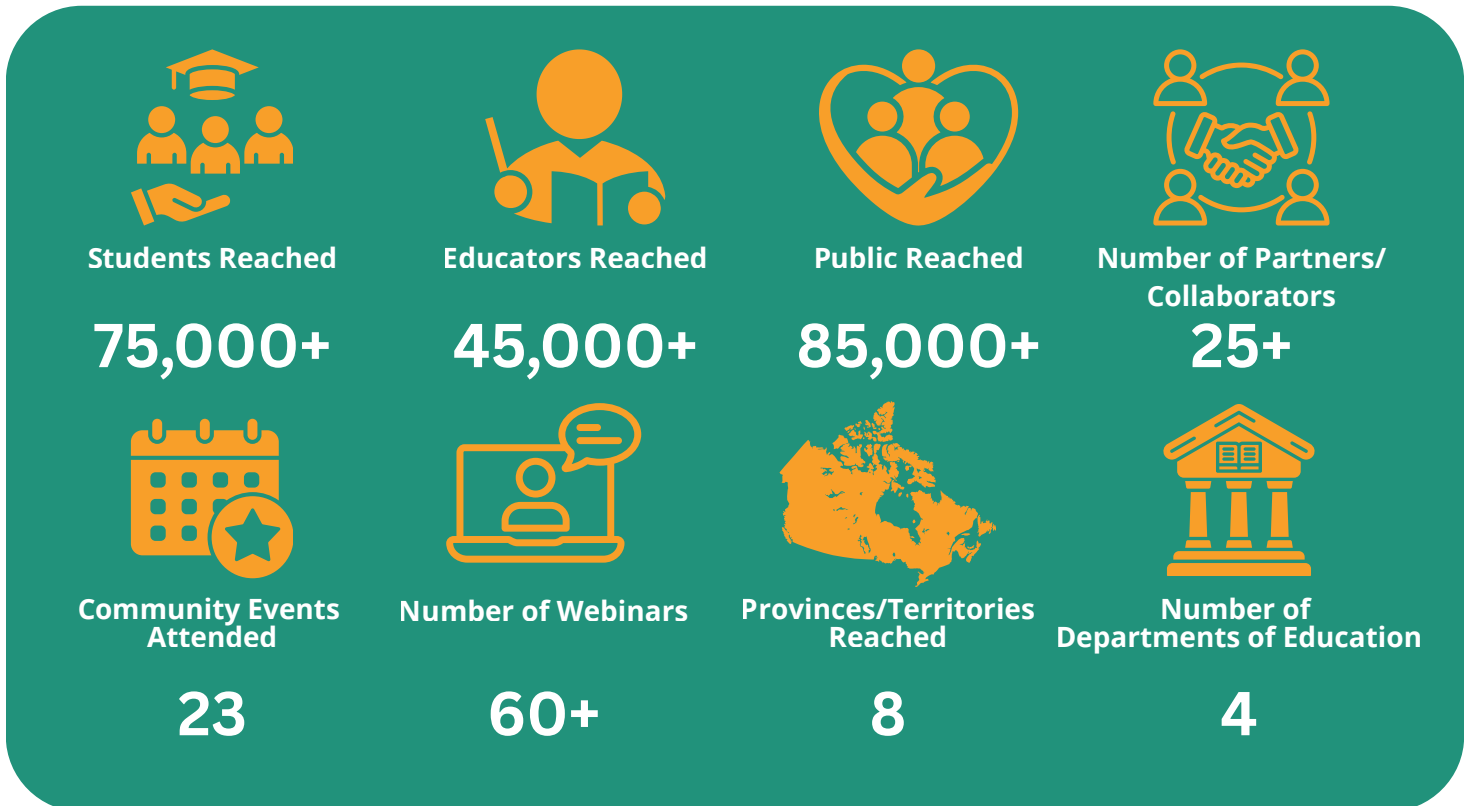
Here are all the community events we've attended to share findings from our ETF projects:

- CBE's CTC Industry Night in December (2023)
- Career and Technology Conference in May (2024)
- Calgary Mayor's Environmental Expo in June (2024)
- A+ for Energy Workshop with Inside Education in August (2024)
- rare's Sustainability Career Expo in September (2024)
- 10 Peaks Student Conference in October (2024)
- STAO Ignites: Sparking Innovative and Inclusive Science Teaching in October (2024)
- Youth Climate Action Conference in November (2024)
- North Central Teachers' Convention in February (2025)
- Palliser District Teachers' Convention in February (2025)
- Central Alberta's Teacher Convention in February (2025)
- Greater Edmonton's Teacher Convention in February (2025)
- TDSB/OISE Eco Fair in May (2025)
- Driven Calgary Car Show in May (2025)
- Outdoor Learning Conference in May (2025)
- Calgary Mayor's Environmental Expo in June (2025)
- Steps Toward Climate Action: Small Steps, Big Impact in June (2025)
- Edmonton Catholic District School Board Grade 7 Student Symposium in October (2025)
- STAO Celebrates 2025: Inspiring the Future of STEM in November (2025)
- Learning for a Sustainable Future Youth Forum in January (2026)
- Learning for a Sustainable Future Youth Forum in February (2026)
- North Central Teachers' Convention in February (2026)
- Endless Skies Teachers' Convention in February (2026)

Conclusion

Over the last three years, we have reached numerous educators, students, and community members all over Canada about our Electrifying the Future Project through collaborations, public events, workshops, virtual webinars, social media, and more.

Our total outreach data can be found below on our impact graphic. We thank everyone involved in the outreach of this project, the future of EV learning is bright all over the country!



"I hope when it's completed, that students can be proud of the fact that they can do the work to electrify cars old AND new; to see that things can be rebuilt and reborn from the old and that it's not just gasoline or electric that's powering it, there's options available provided that infrastructure is in place to handle it."

Jason Budd,
Senior Auto Body
Program Teacher