

# Alberta's Electricity Future: Collectively building and delivering on actions towards Net-Zero



energyfutureslab

# The Challenge in AB Electricity

To transition to a net-zero zero society, electricity will play a fundamental role. We need to reduce emissions of generation sources, electrify transportation and heating, and utilize the functionality and benefits of an evolving grid and consumer.

The nature of AB's competitive and regulated electricity environment means that each entity has different drivers for investments and actions towards a net-zero electricity system.

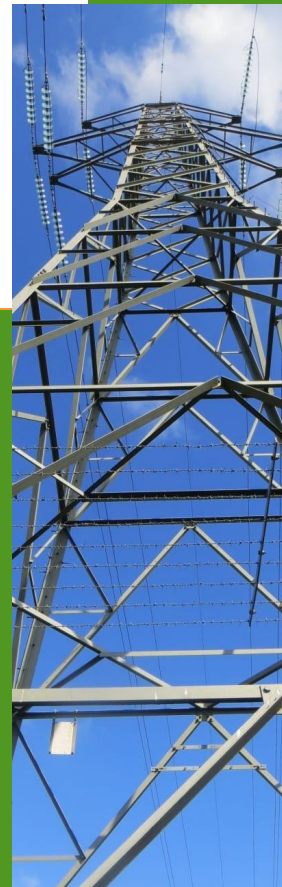
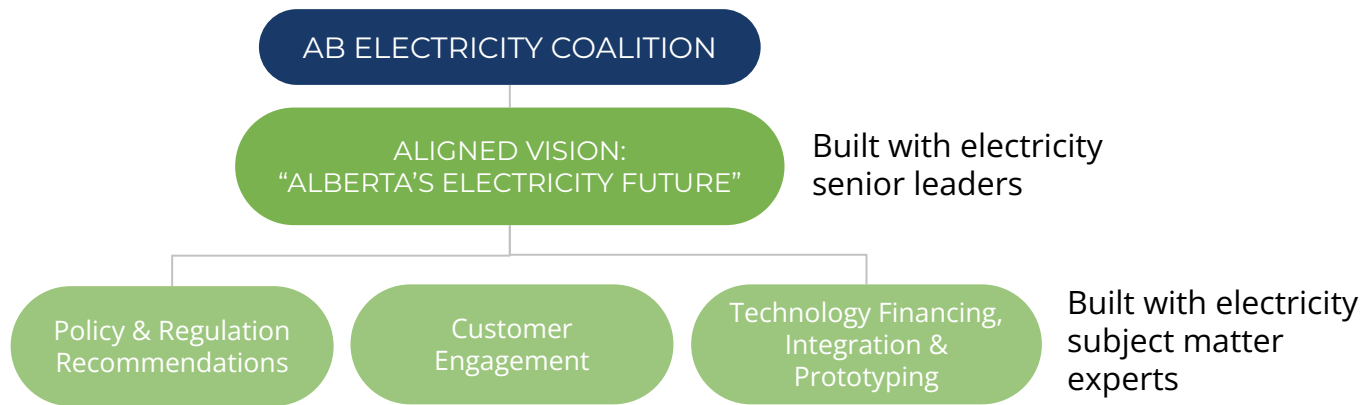
Without a clear vision of how to tackle **net-zero electricity in Alberta**, certain areas of the sector are experiencing unprecedented pace of change while other areas are seeing slow and under-realized progress. We also see confused and disgruntled consumers, and uncertainty in the market about what the future will look like.

From governments to industry to consumers, everyone has a role to play in achieving a net-zero future. Aligned leaders can be a powerful voice for influencing the future of electricity in our province; driving actions that deliver the most effective outcomes. Acting together amplifies our chance of success, compared with each of us acting independently.



# Our Proposed Solution

We are building a coalition of leaders in the electricity sector to be the actors for change. To provide **clear pathways** forward based on **implementable actions** toward an **aligned vision for Alberta**.



# The Process

## **Phase 1: Building a Vision (June 2023 - Feb 2024)**

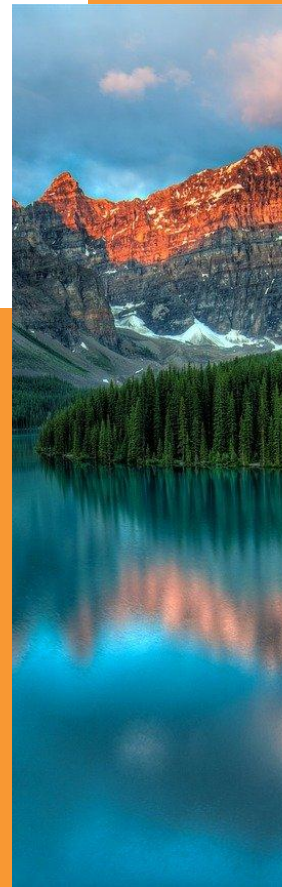
We will begin by creating a shared vision for the future of Alberta's electricity sector – one that can guide practical actions today that will lead to focused outcomes.

## **Phase 2: Challenge Identification and Scoping (2024)**

Through this work, we will uncover and highlight the real barriers that exist between where we are today and the future we envision for our province, some of which are expected to be related to policy, regulations, customer engagement and affordability, and technology financing, integration and prototyping.

## **Phase 3: Prototyping Solutions (2024 - 2025)**

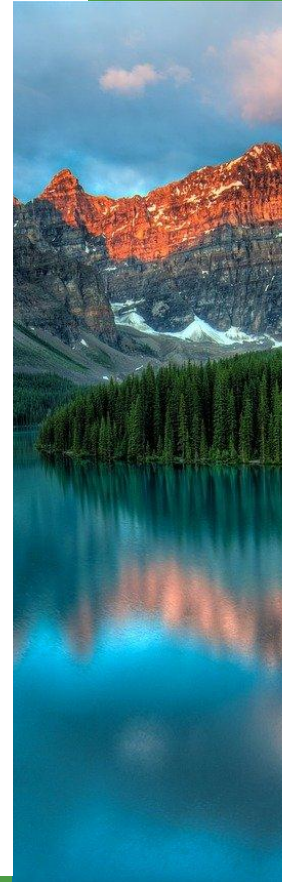
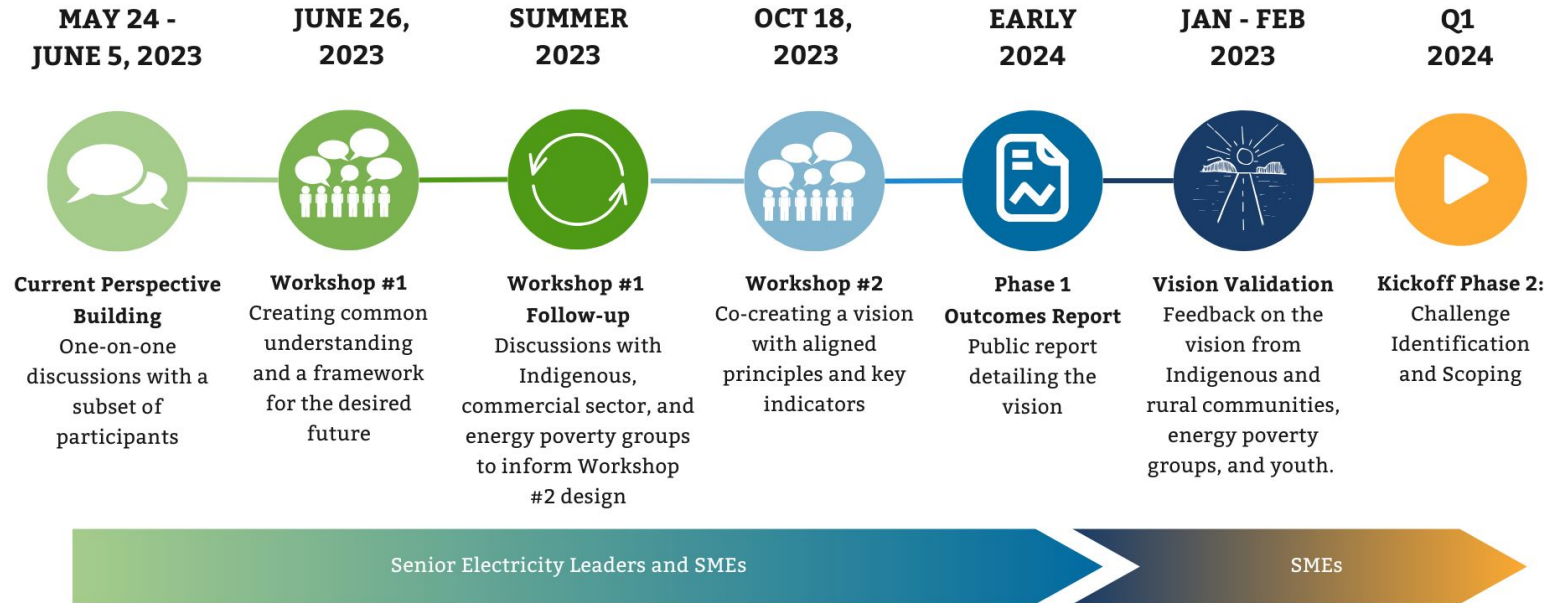
We will then tackle the barriers and emergent issues by testing real world, on-the-ground solutions, learning in real time what works, and what needs to change, and how we might accelerate these solutions for the benefit of Alberta and Albertans.





# ALBERTA'S ELECTRICITY FUTURE

## Phase 1: Building a Vision



# Your Role

We need bold leaders with diverse perspectives who are committed to collectively advancing our province towards net-zero. Ideally, these are **passionate, influential senior leaders with a direct line to strategic decision making within your organization.**

We are initiating this coalition by inviting leaders to join us in **a pair of in-person workshops in 2023** to explore individual viewpoints, align on common themes, identify barriers and issues, and develop a future state vision for Alberta's electricity sector.

You know your organization best. We are asking you to determine the appropriate senior leader from your organization to **join us in these workshops and help us lead the way towards Alberta's Electricity Future.**

More information on the workshop and project details will be shared in the coming weeks. We are happy to schedule a **follow-up meeting with you to answer any questions you may have.**



# Sponsorship Opportunity

## Alberta's Electricity Leadership 2023 Spring & Fall Workshop Series

We are building our Foundational Partner network to contribute to the launch of Phase 1 of this initiative with our 2023 Workshop Series. Funding from Foundational Partners will directly contribute towards:

- Two one-day workshops with electricity leaders from across Alberta
- EFL resources to connect industry leaders, and build collaboration and alignment
- Coordination with other provincial and national net-zero energy initiatives
- A report, outlining a proposed shared Vision for Alberta's Electricity Future
- Planning for Phase 2 of this initiative

Example of other Foundational Partner benefits can include:

- Opportunity for introductory remarks at one electricity leadership workshop
- Company logo to be displayed prominently on project materials
- Recognition on the Energy Futures Lab - Alberta's Electricity Future website
- Company name will be announced as a sponsor at each, in-person and virtual event

We are open to discussing other benefits that may be of value to your organization.

# Who is EFL? Why EFL?

The [Energy Futures Lab](#) (EFL) is an Alberta-based coalition of innovators and leading organizations. The EFL was created to address a growing sense of polarization in Canada. Since its inception in 2015, the EFL has brought together stakeholders and rights holders from across the energy system to collaboratively develop solutions for a net-zero energy future. This approach has highlighted the importance of drawing on diverse perspectives to address complex, system-level challenges.

Applying the EFL's unique social innovation lens to the Alberta electricity challenge will speed up the adoption of innovative ideas and build capacity to navigate and overcome barriers. The challenge requires a systems-level perspective as well as multi-stakeholder and rights holder collaboration and demonstrates an urgency for implementation to reach net-zero targets.

No other organization in Alberta is better equipped to lead collaborative grid innovation and currently, no other organization in Alberta is tackling the **systems-level** perspective required. Stakeholders and rights holders across the electricity system have indicated they are willing to fund this work under the stewardship of the Energy Futures Lab.





# Organizations Represented in the Lab

Alberta Ecotrust Foundation  
Alberta Energy  
Alberta Energy Regulator  
Alberta Innovates  
AltaLink  
Alberta Utilities Commission  
ATB Financial  
ATCO  
Ambyint  
Avatar Innovations  
Battery Metals Association of Canada  
Beedie School of Business - SFU  
BMO Capital Markets  
Business Council of Alberta  
Calgary Economic Development  
Canada West Foundation  
Canadian Council for Aboriginal Business  
Canadian Institute for Climate Choices  
Canada Energy Regulator  
Canadian Energy Systems Analysis Research  
Canfor  
Canadian Natural Resources Ltd  
Capital Power  
Carbon Asset Solutions

Chevron Canada Ltd.  
City of Calgary  
CleanO2 Carbon Capture Technologies  
Common Ground Energy  
Community Energy Association  
ConocoPhillips Canada  
Corporate Knights Inc.  
Delphi Group  
Eavor Technologies Inc.  
Environment and Climate Change Canada  
Emissions Reduction Alberta  
Empower Me  
Enbridge  
Energyphile  
Enhance Energy Inc.  
ENMAX Power Corp  
EQUS REA Ltd  
E Source  
ESG Global Advisors  
Eveline Kolijn Studio  
Exergy Energy  
Fluor Canada  
Forbes  
Foresight Canada

FSM Management Group  
FUSE  
geoLOGIC  
Globe  
Government of Alberta  
Indian Resource Council  
IndigeSTEAM  
Innotech Alberta  
Iron & Earth  
Journey Engineering  
JWN  
Kainaii Blood Tribe  
Kambo Energy Group  
Lafarge  
MaRS  
Modern West Advisory  
Mount Royal University  
NAIT  
NEI Investments  
Nutana Power  
Pembina Institute  
Polaris Strategy  
Pomerleau  
Prairies Canada

PrairieSky Royalty Ltd.  
Pure Enertech Research  
QUEST  
RBC Foundation  
ReWatt Power  
SAIT  
Scotiabank  
Shell Canada  
Siemens Energy  
Smart Prosperity Institute  
SASCI  
STRATOS  
Suncor Energy  
Swallow-a-Bicycle Theatre  
The Co-operators  
The GO Technology Foundation  
The Natural Step Canada  
Town of Innisfail  
TransAlta Corporation  
Transition Accelerator  
TREE  
University of Alberta  
University of British Columbia  
University of Calgary Schulich School of Engineering  
Wind River Power Corporation

# A Coordinated, Purposeful Approach

## Many hands make for lighter work.

Grid modernization is critical to Canada's successful energy transition, so it's no wonder many initiatives have sprung up to address the challenge.

While we continue to see value in pursuing our own, distinct approach, we are also consulting with other initiatives to minimize overlap in our design and regularly share learnings, as well as leveraging participation across initiatives to maximize our impact for the benefit of the entire system.

To this end, we are coordinating on several fronts with research and collaborative initiatives being undertaken by Transition Accelerator, Pembina Institute, AESO, AEEA, University of Calgary and CanREA.

## Leveraging learnings from successful initiatives in our sphere.

We are also integrating learnings from other past and ongoing collaborations, many of which the EFL has been involved in directly.

- [Energy Futures Policy Collaborative](#)
- [New York Reforming the Energy Vision](#) (REV)
- AB Smart Grid Consortium
- AB REP & Capacity Market
- [Pathways Alliance](#)
- [The Canadian Council for Sustainable Aviation Fuels](#) (C-SAF)

**Know of something that should be on our radar? Please reach out to let us know!**

# Join the Movement

Leaders from across Alberta and Canada are signing on every week to join us in this work.





INTERESTED IN LEARNING MORE?

## GET IN TOUCH WITH US

[energyfutureslab.com](https://energyfutureslab.com)

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