# Workshop#2

Narrative October 18, 2023







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Alberta's Electricity Future - Workshop #2 - Narrative







## **Energy Futures Lab**

#### An award-winning, multi-stakeholder and rights and title holders social innovation lab focused on the energy transition

The Energy Futures Lab is an Alberta-based coalition of innovators and leading organizations from across the energy system. It was created to address a growing sense of polarization in Canada and to tackle the most pressing system-level challenges in the energy transition. Since its inception in 2015, the Energy Futures Lab has brought together stakeholders and Indigenous rights and title holders from across the Canadian energy system to collaboratively accelerate progress towards <u>our vision</u> of a net-zero energy future, drawing on diverse perspectives to create innovative and enduring solutions to complex, system-level challenges.

#### Together we must uncover the solutions that will power Alberta's bright future

A new reality is already upon us, demanding a response from a system out of sync. Applying t Energy Futures Lab's unique social innovation lens, inclusive of recognizing the rights and title held by Indigenous communities, to the Alberta electricity challenge can help create alignment direction, build capacity to navigate and overcome barriers, and accelerate the adoption of innovative ideas.

With a net-zero grid being central to many decarbonization efforts, there is an increasing urgency to address this issue. To do this, we are bringing together key stakeholders and Indigenous rights and title holders in Alberta's electricity system to develop a systems-level understanding of its root challenges; a vision for its future; and a coordinated approach to test potential solutions.



#### The Natural Step Canada Partnership

the	The Energy Futures Lab is a part of a partnership fostering a strong and inclusive economy that thrives within nature's limits.
es	
а	The <u>Energy Futures Lab</u> operates as an
in	independent initiative of The Natural Step
	Canada, alongside the <u>Canada Plastics Pact</u> ,
n	<u>Circular Economy Leadership Canada, PLACE</u>
	<u>Centre, and the Canadian Alliance for Net-Zero</u>
	Agri-food (CANZA).
	These multi stakeholder and Indigenous rights
е	and title holders coalitions foster collective action
	on critical issues informed by evidence and
	research, including from the <u>Smart Prosperity</u>
	Institute's research network and national policy
or	think tank.

## **About Alberta's Electricity Future**

*How might Alberta's electricity* system collaboratively orient and organize itself to meet the needs of the net-zero economy of the future?

Unlocking Canada's progress towards net-zero will require a big evolution of our electricity systems. This evolution is also key to preparing our technologies and industries to compete in emerging growth opportunities and rapidly decarbonizing global markets.

Experts estimate that by 2050 Canada will require an increase in supply between 62 per cent and 210 per cent. Draft federal regulations requiring Canada's electricity grid to have net-zero emissions by 2035 were released in August 2023.

Formally launched in March 2023, Alberta's While misgivings exist about the feasibility **Electricity Future (AEF) is a three-year** of the proposed time frame, there is initiative that will collaborate and partner growing agreement about the with traditional electricity voices like importance of preparing the grid to industry and government while focusing on overcome the twin challenges of increasing historically underrepresented groups such consumer demand and reducing emissions. as youth, people living in poverty, and Indigenous rights and title holders to align on collective actions that will enable the whole system to progress in a way that ensures reliable, safe, and affordable ideas about how to carve a path forward, the electricity for Albertans. We have made progress on our engagement with Indigenous communities and are committed to more engagement as we move forward.

Given individual provinces' unique context, needs, and readiness to dig into the challenge, there is no one-size-fits-all **solution**. And while there is no shortage of reality is that individual system actors cannot make this journey alone. For Alberta's grid to enable future prosperity and support the province as it grows and diversifies its economy, alignment and coordination are essential.



Trust and collaboration are central to shaping the future of Alberta's electricity system. Aligned leaders can be a powerful voice for influencing the future of electricity and driving actions that deliver the most effective outcomes.

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Phase I of Alberta's Electricity Future sets out to establish a shared vision for the provincial electricity system - one that puts customers at the center. The following was developed by the AEF Team based on learnings from Building a Vision Workshop #2 of 2. A vision document reflecting the results from the Building a Vision Workshops #1 and 2 will be developed and shared separately.

We invite your feedback so we can continue to collectively refine the outcomes of this initiative.





## Pressure Cooker of Innovation

"No pressure, no diamonds." - Thomas Carlyle

Where Workshop #1 focused on articulating the electricity system the future will require of us, Workshop #2 explored what should guide and inform how we get there.

Unpacking the gap between where we are today and the electricity future we need requires us to stretch our thinking and embrace uncertainty and the tension between these two poles. To this end, participants shared their views on the biggest questions that will need to be addressed as we reorient the way we think about electricity and place the needs of customers - people, communities and businesses at its centre.



## **A Pressure Cooker Situation**

#### There are good reasons to reduce emissions from electricity. <u>Alberta</u>

has committed to the aspiration of <u>net-zero by 2050</u>, and the current moment has not muted the need - or appetite - for change. **But, we need** to be clear on the challenges **ahead** already making Alberta's electricity system an arena of crunchy questions.

*Think of a 'pressure cooker' that traps* steam and builds pressure to accelerate the cooking process without destroying the dish or exploding. Similarly, we can use these challenges to encourage creative thinking and responses to make this a productive moment.

#### **SPOTLIGHTED: CRITICAL QUESTIONS** PARTICIPANTS SURFACED AS PART OF WORKSHOP #2.

- What is the role of electricity actors in reducing energy poverty and advancing solutions to support the needs of those experiencing energy poverty or is that the purview of social programs?
- Affordable electricity prices are key for consumers to access the benefits of increased electrification. At the same time we need to understand the true costs (and savings) of decarbonizing the grid. Can the transition to a net-zero system make things more affordable for everyone?
- Even as urgency grows to achieve net-zero, energy security concerns are heightened, is the deepened and expanded engagement with promise that diversification can enhance these communities will be key - to understand their dual aims enough to break from status-quo? unique attributes and needs AND confirm support • To support a manageable transition to a net-zero for solutions. This takes time. For communities to electricity system, it is critical to minimize costs participate they need to feel they can contribute and maximize efficiencies where we can. Are and have the capacity to shape solutions and market structures and regulations set up to difficult choices. How do we walk and chew gum? ensure the opportunities to optimize are realized?



• Evolving customer expectations are creating the case for innovation and change for Alberta's electricity system. Yet, prioritizing customers may create unintended consequences for the existing system, land, water, and air. To what degree should customers be prioritized above other, broader considerations?

- Policy and markets must be sufficiently flexible to keep pace with external changing factors and remove barriers to innovation. Should enhanced flexibility come at the expense of longer-term certainty needed to generate stable pricing and attract investment?
- The introduction of **new technologies and** innovations are not without their challenges for market structures. At a time when reliability and

## **Too Important to Overlook: Net-Zero**

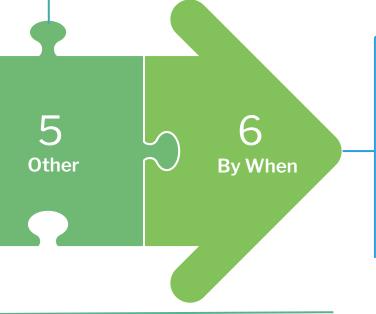
How we define the goal of net-zero for Alberta's electricity system matters. The details behind this label continue to differ enormously in terms of the types of emissions included, the use of offsets, methods for aggregating (scope), the jurisdictional boundary, and timelines. The following summarizes the input from Workshop #2 participants. The results signal an "all of the above approach" is needed. There is acknowledgement that the stakes are too high to eliminate options for deep emissions reduction, and that these reductions must be considered across the full value chain of electricity production, management and use.

- A majority view that **all GHG** emissions should be included.
- Three key strategies: rapid and large reductions in CO<sub>2</sub>; additional deep reductions in non-CO<sub>2</sub> greenhouse gases; and a ramping up of strategies to remove CO<sub>2</sub> from the air.
- It will be critical to understand the tradeoffs between near-term stringency of emissions reduction and power reliability.
- A majority view that net-zero should include direct (Scope 1 & 2) and indirect (Scope 3) emissions. • Combining this approach with **lifecycle** assessments is ambitious but can provide the most insight/value to guide solutioning. 3 Scope Gasses included in Offsets **Boundarv** emissions • A majority view that to meet net-zero goals, carbon offsetting is a critical tool in the toolbox to deliver a manageable transition decarbonization pathways for other sectors. • However, the bar for offsets should be high and clearly regulated to create credibility and build carbon markets
  - While cutting emissions locally is preferred, where cheaper offsets are available outside the sector/province, the system should allow access to help address transition costs.
- outcome.



• Pace matters - immediate and manageable change.

 Is absolute net-zero achievable. For hard to abate sectors. is 90% reduction close enough and what are the costs to the economy of seeking higher reduction rates.



• A majority view that to achieve net-zero by 2050, the provincial electricity system needs to achieve this sooner to enable

• A provincial boundary speaks to fairness. If one jurisdiction or company does less, others have to do more to achieve the global

• While a regional approach to Canada's overarching goal is ideal. this will require **next level cross-border collaboration**.

- As soon as possible
- Some industry players have already adjusted commitments to 2045 if not sooner.
- The timescale is important and will depend on our values

# Why this Approach?

"If you always do what yo you got." - Jessie Potter

Process design can dramatically improve and intervene in the journey of transformation. To reach somewhere we've never been before, we need new practices in how we approach the work.



### "If you always do what you did, you'll always get what

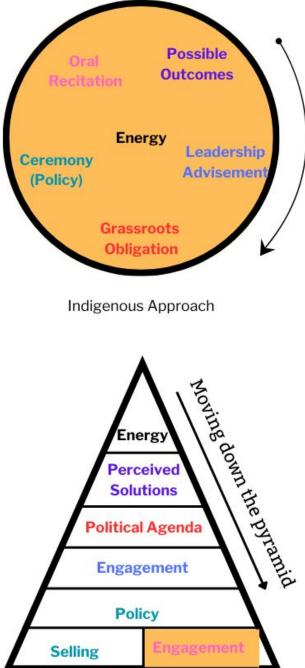
## New Ways Forward, Enriched by Gifts from our Elders

During his opening remarks, former Xakiji (Chief) Lee Crowchild talked about differences between typical Western approaches, where broad engagement on big questions often occurs after most decision are made, and Indigenous approaches, informed by future generations, that start with engagement of affected parties, and blend ceremony with policy development and story- and meaning-making as part of an ongoing, balanced whole.

AEF recognizes that the thinking and practices of the system's past will not get us to the future system we need. To this end, we are committed to:

- **Engage the full voice of the system.** Our story and practice is richer when we engage voices traditionally 1. excluded or marginalized. Our engagement spans traditional electricity voices like industry and government as well as historically underrepresented groups such as youth, people living in poverty, and Indigenous rights and title holders.
- Begin with the end in mind, envisioning and co-creating with system actors a picture of the electricity system 2. of Alberta's future. This acts as a North Star to directionally guide action. We take into account but do not only proceed on the basis of what is feasible today; feasibility affects pace, not our direction. We orient to the future we seek to create.
- Advance within common boundaries. Co-created principles guide our collective journey, informing choices 3. at forks in the road and acting as guardrails. Our principles are general enough to be used in multiple contexts, concrete enough to guide action and decision making and allow different actors to apply them within their unique contexts. They provide boundaries of what good looks like in the transition to a net-zero electricity system in Alberta. They are the outline of our collective story.





Western Approach

# **Principles for Alberta's Electricity Future**

"Principles are the simplicity on the far side of complexity." - Stephen R. Covey

Principles are a tool helping us navigate the complex journey to a net-zero electricity system in Alberta. They describe minimum conditions that must be met for our journey to arrive at the desired state. They provide guardrails for collective action while maintaining flexibility for individual actors to apply them in their unique contexts.



## **A Principled Shift: A Straw Dog Proposal**

Alberta's electricity system is based on the principles of reliability, safety, and low-cost electricity supply. The **results** *from Workshop #1 illuminated the* need to revisit how we think about *the current principles that guide the* system. Presented is a set of **straw-dog** principles ('headlines') developed by the AEF team based on data from *Workshop #1 and further discussions* with energy poverty and Indigenous groups leading up to Workshop #2.

**Over 90%** of the Workshop #2 participants felt they were directionally correct and a sufficient foundation to generate a next, enhanced version.

#### **Diversified**

#### Essence:

There are a variety of electricity sources and services available to meet consumer needs. This ensures electrical system resiliency and enables a thriving economy.

# for all.

#### **Optimized**

#### **Essence:**

New and existing technologies and solutions have been optimized to efficiently use existing assets, in addition to growing and replacing parts of the current asset base, to enable affordability.

Essence: need it.



#### Equitable

#### **Flexible**

#### **Essence:**

The system is aligned with the values and needs of future Albertans, leading to affordable and accessible electricity

Essence: Policy, regulations, mandates, and roles keep pace with external changing factors, providing clear boundaries & goals without overprescribing solutions.

#### Reliable

Albertans will have access to electricity when and where they

#### Safe

#### **Essence:**

No physical and mental harm shall be done to the citizens and businesses of Alberta as a result of having guaranteed access to electricity.

# **Refined Principles: Our Evolved Strawdog**

"Control is for Beginners. Iteration is truly the mother of invention." - Anonymous

A Workshop #2 goal was to refine and develop principles from diverse perspectives to act as the guideposts for the future system. The following slides were developed by the participants.



- Increase opportunity for consumer generation; widely adopted self-generation
- Diverse supports and services needed as not all consumers are the same
- Balance distributed microgeneration while preserving cost sharing of the grid
- Prices progressively increase enabling affordability for those who need it; energy poverty is eliminated
- Leverage old and new infrastructure to promote reliability and stability (operations and pricing) - no wild swings due to an over-concentration or reliance on a single entity
- Integrate existing infrastructure to decrease costs



## **Allowing Diversity**

**Essence:** Removing barriers, allowing for a variety of electricity solutions that reduce emissions and meet community and consumer needs to enable electricity system resiliency and a thriving economy.

- Government's role is to:

  - 0 inequities.
  - Not dictate winners and losers. 0
- pricing models.
- Volatility of price is reduced for residential end-users.
- communities and a move away from "one-size fits all" ideas.





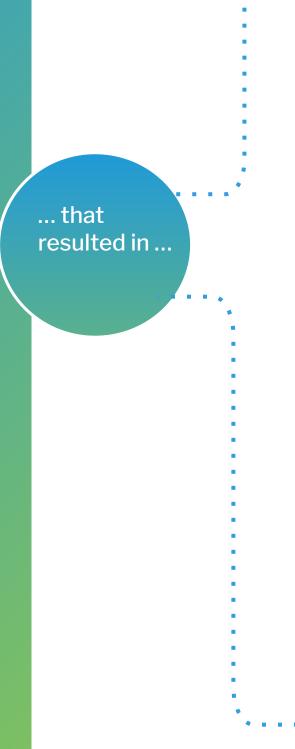
• Remove barriers (e.g. policy, funding accessibility, market entry, etc.) and clear pathways for market diversification to occur naturally.

Fill gaps for end-users where inequities occur to reduce energy poverty and

There is increased opportunities for consumers, generation types, solutions, and

Solutions are created, tailored and accessible for unique community needs and have been accepted by the greater community. This requires closely working with

- Should respecting environmental equity be a standalone principle?
- Those in poverty are disadvantaged in the electricity market (e.g., RRO, credit requirement for contracts, etc.)
- More access to energy use data, programs, and services
- First Nations' building costs affects access and affordability
- Aspiration: Albertans living in energy poverty has steadily declined to zero
- All systems have costs and impacts, right now those are 'inequitably' allocated
- Cost causation is a roadblock. If we have a net-zero system does cost causation still apply?



## Equitable

**Essence:** The system is aligned with the values and needs of future Albertans, leading to affordable and accessible electricity for all while respecting Alberta's land, air and water.

- rate-based cost - because there are societal benefits
- equitable distribution of benefits
- electricity bill through behavioural & technology changes
- to targeted programs and services
- energy system

The cost of achieving net-zero electricity is a societal cost, not just electricity

Affordable electricity is clearly defined and can be measured across the province with basic needs prioritized while maintaining cost causation principles

All actors in the electricity system are accountable to Albertans to achieving an

Albertans are empowered, engaged and educated to influence the cost of their

Albertans struggling with energy poverty are automatically enrolled in tax-based assistance programs. Albertans electricity needs are understood and met through transparent, empathetic communications, simplified processes and on-demand access

Alberta's land, water, air and people are protected as we thoughtfully develop our

- Flexibility and adaptation of educational institutions needed to address changes in the market (ex. emerging technologies require specialized fields)
- Energy alone does not create a reliable system, need capacity and other attributes
- Need to go faster
- Should this principle be  $\bullet$ flexible or adaptable



## Flexible

**Essence:** Policy, regulations, mandates, and roles keep pace with external changing factors, providing clear boundaries and goals without overprescribing solutions while maintaining affordability.

- implemented.
- customers.
- communities, indigenous groups, and experts (academics).
- supports.

Shifts in outcome based policy and regulations have longer term policy certainty, ensuring the stable transition of the sector as changes need to be

Electricity policies and regulations are viewed as accelerators for innovation, providing companies space to innovate while enabling and supporting

Development of policy, regulations, mandates and roles should be based on established non-partisan principles determined by involvement of stakeholders,

Long term policy, regulations and market design connects supply and demand to enable competitive, clean, electricity supply and demand side management

- To optimize requires trade offs, how will principles be prioritized?
- Need to change market pricing to be a total delivered cost model
- Balance reducing consumption with local production and demand response. Then draw on interconnected grid.
- Demand side, distributed and non-wires solutions are fully developed and defer transmission and distribution upgrades
- Diverse and improved technologies to serve remote and rural communities
- 90% of the 2023 transmission system is used at 80% capacity
- Service is equitable



## **Optimize System**

**Essence:** New and existing solutions, including technologies, have been optimized to efficiently use existing elements in addition to growing and replacing parts of the current elements to enable the other principles.

- conservation and energy efficiency.
- make decisions in response to energy consumption.
- producing energy professionals.
- centralized and distributed resources.
- business cases.



Market mechanisms (not only competitive environments) exist (including regulatory processes, locational signals, etc.) that enable utilities (generators and wires) as well as end-users (including end-user service providers) to invest in

ALL consumers are educated from a trusted and empowered central source and

Focus on energy education includes evolving wise practices, codes, etc. and

Establish market mechanisms that incorporate end-users into the electricity system such that price signals inform choice between demand and supply and

All buildings are both an electricity producer and consumer due to the integration of demand side management tools and resources that enable strong

- Transmission system reliability utilizes distribution energy resources and demand response strategies
- Fair access for all regardless of socio-economics. People who cannot afford electricity still have reliable access
- 24x7 guaranteed supply even under uncertain conditions. No black outs.
- Reliability includes behind the fence operations, not just the upstream components on the grid

# ... that resulted in ...

## Reliable

**Essence:** Reliability is the right to a safe, equitable, secure system that meets each consumers' needs [and is] experienced in a consistent manner.

- and providers) to maintain service across the province.
- necessary'; supply is matched to 'responsible' demand.
- Level of "reliable" is determined by end user.
- choice.
- (this assumes minimum safety is affordable to all).



All participants have the opportunity and choice to participate and contribute to grid reliability and can be rewarded / compensated for doing so.

Electricity is managed using a diversity of solutions (including scale, technology

All consumers use electricity efficiently, considering 'what demand is

Reliability is priced into the market/system to determine level of consumer

Market structures enable supply and demand solutions to meet supply adequacy and operating of the bulk and distributed systems.

By rethinking the definition of reliability we can ensure electricity is affordable

- Electrical safety matters because electricity is powerful and potentially harmful if managed improperly
- Need to clarify who and what needs to be safe
- Environmental harm needs to be included as the system goes beyond physical and human aspects



## Safe

**Essence:** No reasonably preventable environmental, physical, or mental harm shall be done to the natural ecosystem, and/or people of Alberta through having reliable access to electricity.

- income level.
- when dealing with the transitions.
- to electricity access.
- operated.

Electricity supply and delivery is an essential service (\*option - in daily operations and extreme events) and reasonably accessible for all Albertans, regardless of

Energy poverty is viewed and managed from a lens of support, not punishment,

Residents (people, public, households) and businesses safety is not impacted due

Generation, transmission, and distribution of electricity is safely integrated and

## **A Principled Shift: Summary of Upgrades**

#### Diversified

#### **Essence**:

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#### **Allowing Diversity**

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Reliability is the right to safe, equitable, secure system that meets each consumers' needs [and is] experienced in a consistent manner.

*Alberta's Electricity Future - Workshop #2 - Narrative* 



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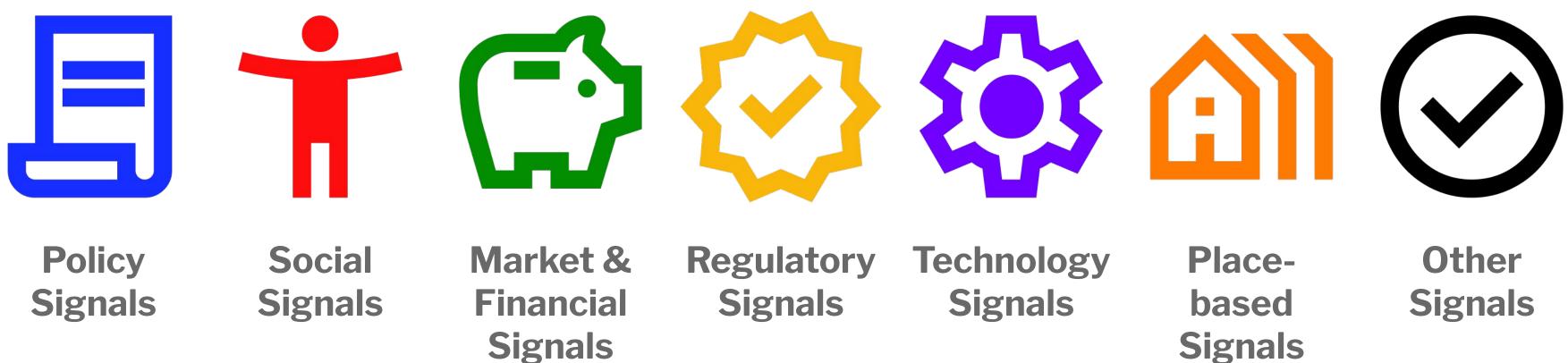
# Signals of Transformation

"No matter what, expect the unexpected. And whenever possible, be the unexpected." - Lynda Barry

How will we know if we are advancing in the right direction? Workshop #2 provided a moment for leaders across the electricity system to consider signals or indicators in the broad environment that we might see and point to change increasingly oriented to the future we need.



## **Signals of Transformation - Legend**



Alberta's Electricity Future - Workshop #2 - Narrative



**Signals** 

				Communication and transparen	ncy <b>G</b> Aglie polic regulation			★ Community-led decision-making	Prosumers are the majority of customers	Transition
Signals	of			Scope 3 emission and waste	ns innovation		to available energy solution	The right to energy sharing is	Health, safety,	Transition investments demonstrating
	ormation	ins ena	dvisory body stituted to nable a long-	products prioritized by companies		Energy poverty i eliminated	<ul> <li>options</li> <li>Growing public confidence in</li> </ul>	introduced	costs embedde in all electricity	attractive returns
<text><text><text><text></text></text></text></text>	<ul> <li>ERA funding for specific electricity streams</li> <li>Alberta has an equivalent response to the US IRA</li> <li>By grade 6, students understand technology options for electricity choices</li> <li>Cost of renewables affordable for the average energy consumer</li> <li>Strategies and rules to facilitate alternative building materials</li> <li>Tech-agnostic</li> </ul>	Electrification and high efficiency is the default for new buildings (revised housing codes) Transition costs are progressively titive tions spur- tion Transition costs are progressively taxed titive tions spur- tion Transition costs are progressively taxed titive tions spur- tion Transition costs are progressively taxed titive tions spur- tion Transition costs are progressively titive tions spur- tion	Trim view on ectricity policy  Trim view on ectricity policy  Trim view on ectricity policy  Trim view on Policy  Trim view on	<ul> <li>Image: First</li> <li>Image: Energy (price, access option) communications first</li> <li>Image: Energy (price, access option) communication and the second structure in the second structure is an end of the second structure</li></ul>	y experience , ssibility, ns) of rural nunities on ith cities	Community engagement accelerates market evolution	Cutting-off access is not an option y is re, not donment Cutting-off access senhance ty Cutting-off access senhance ty Corev satis cont cont cont cont cont cont cont cont	ns tinued y Green Button' standards make data easy to use Provincial market enables access to all technologies mpanies warded for fety and vironmental rformance Automated safety protocols Every gener	<ul> <li>for pricing</li> <li>Health, environment costs/impacts are accounted for</li> <li>Proactive approach to regulatory change management</li> <li>Regulations and safety protocols reflect new technologies for consumers</li> <li>DERs are mainstream across the system</li> <li>DERs are mainstream across the system</li> <li>Re en un po</li> </ul>	Safety performance Gas-fired boilers replaced with energy alternatives dundancies able interrupted wer
Multi-party access to lines formalized	generation  Communities consulted on externalities	Planning reflects conscious matchi of renewable energy type with	ning no	Developments have not double-downed on new gas		ecentralized arbon storage		microgrids for remote communities		utions based on eds and climate
<ul> <li>locational operational signals</li> <li>⊘ Energy is the term of the day, not sectors</li> </ul>	(environment, health) of development	location		ergy-as-a-service take d and grows roots	es				and	oopulation has grown ve do not use more gy than we do today 3)

#### Optimizing the current state $\leftarrow 2030 \rightarrow$ Transforming to the future state

# The Next Sprint

"Unless someone like you cares a whole awful lot,



## nothing is going to get better. It's not." - Dr. Seuss.

## The Next Sprint: Articulating the Vision

June (W1) and October (W2) engagements have been key goal posts, providing critical connections and fresh perspectives on the degree of change required to ensure the electricity system continues to meet the needs of people, businesses, and communities.

Armed with these insights, the AEF team will create a draft vision for which we will seek feedback and endorsement. We will then move to: 1) expand engagement with other voices to validate the vision 2) dig into barriers as promising areas for solutioning.

#### **Crafting the vision. Getting your feedback**

To develop a draft vision, the AEF team will use the following guidance:

- clarify direction, not offer solutions (yet),
- make it action-oriented,
- ensure each principle is distinct and mutually-reinforcing,
- consider affordability as a cross-cutting lens for all principles, and
- look to guide solutioning that optimizes for the full range of human characteristics, abilities, and experiences.

We propose to use the vision as our North Star to build collaborative action. **The vision will accompany this narrative as a separate document for you to review.** Please send us your comments.

In late January, we will bring you all back together virtually to review and discuss the vision as a collective.



#### **Building alignment and support** We will organize 1-on-1 meetings, as needed, to understand what support and endorsement of the vision looks like from you and your organization. Vision validation The future belongs to everyone. We want to make sure that broader groups of people, businesses, and communities also align with this vision and will further seek to refine and validate the vision with different groups. This will prioritize elevating Indigenous, low-income, and other marginalized voices. We invite you to participant in these engagements. **Challenge and barriers identification** Once we know where we need to go, the real work begins. Phase 2 will build off of the crunchy questions surfaced in Workshops #1 and 2 and prioritize the most urgent and necessary challenges and barriers to tackle. We will focus on enhancing the work underway, not duplicating.