

The LEAD Project

Leveraging our Energy Assets for Diversification: How the foundation of oil and gas assets can play an important role in our energy future

Often, the phrase “Reduce, Reuse & Recycle” is mentioned when it comes to doing better for the planet and the environment. This phrase has a lot of merit and certainly significant strides have been made using this mantra. As the energy industry and indeed other industries continue to find ways to improve and find efficiencies in their respective processes, benefits are abound! Similarly, a group of energy experts from various organizations put forth an interesting idea (set of ideas) in front of the Alberta Government with respect to repurposing our existing energy assets and infrastructure. The LEAD (**L**everaging our **E**nergy **A**ssets for **D**iversification) Report was presented to the government in the Spring of 2021, detailing recommendations and potential guidelines which, if acted upon, could revitalize and further stimulate the province’s economy by transforming existing liabilities (orphaned and neglected wells & sites) into potential assets again.

To elaborate on some of the findings and discuss the merits & challenges summarized within this extensive report, CSUR was honoured to have 3 contributors to the LEAD Report for the live session. Juli Rohl, Director – Impact Studio & Lead Animator @ Energy Futures Lab, Liz Lappin, President – Battery Metals Association of Canada, and Lisa Mueller, President & CEO – FutEra Power, were the guest speakers / panelists for this event. Bill Whitelaw, Managing Director – Strategy & Sustainability @ geoLOGIC systems, was the moderator for this webinar. The objectives of this session were to present some of the key elements proposed within this Award-Winning Report and provide examples of projects that utilized existing infrastructure to pivot into new opportunities.

Juli’s message revolved around removing current regulatory roadblocks and offer value-enhancing opportunities in order to create a scenario where all stakeholders benefit. She also pointed to existing challenges that need to be addressed, which included poor coordination among various regulatory bodies and lack of communication between stakeholders. In addition to addressing the above-mentioned challenges, some of the main recommendations in the report were:

- Brownfield (existing site) applications get precedent over greenfield (new) applications
- Alberta Energy Regulator (AER) be the prime regulator
- Initially trial repurposing be on public lands rather than private property

Although the path was difficult, Lisa documented the specifics of her organization’s venture into the Geothermal industry. Their initial project, which is a prime example of the repurposing idea within the LEAD Report, has been a model of success and provides a blueprint for upcoming energy transition type developments that are on her organization’s radar. She pointed to the instrumental role that the AER and their cooperation / flexibility played in their project’s success. In addition, the province’s vast public historical database was critical in establishing the ideal location for their project. She also emphasized the urgency of timing in order to continue bringing “new life” to old assets and integrating the oil & gas industry with the power industry in Alberta to enable a holistic energy industry for our province. Finally, Liz’s overarching message was with respect to the overall set of opportunities that exist right at our doorstep. She indicated that although the individual opportunities in each of the sub-industries was important, the greater opportunity was in recognizing the entire value chain. There are significant repurposing opportunities within the province in various capacities, including CCUS (Carbon Capture, Utilization, and Storage), Hydrogen, Metals (Lithium, Cobalt, Nickel, etc.), Micro-solar, and Geothermal, among others. However, there are also gaps globally within the

refining capacity for battery metals and manufacturing sector for example. As such, there is a significant opportunity for Alberta to expand their capacity by leveraging the existing knowledge, expertise & asset base, and diversify to be able to exploit the entire value chain, according to the speaker.

SUMMARY AND AGENDA

The LEAD project aims to clear roadblocks to allow entrepreneurs to utilize existing oil and gas infrastructure and sites for new development, attract investment to Alberta for these developments, include landowners and create an alternate path for aging oil and gas assets and liabilities.

This presentation will include an overview of the recommendations presented to the Government of Alberta to promote safe and responsible repurposing, and discuss real world examples of where leveraging existing assets can provide benefits for emerging and incumbent industries.

[→ Read The LEAD Report ←](#)

AGENDA

(MST)

10:00 - 10:10 **Opening Remarks & Introductions**

10:10 - 10:25 **Setting The Stage & Overview of the LEAD Project
Well Re-Purposing / Leveraging our Energy Assets for Diversification**
Presented by Juli Rohl

10:25 - 10:40 **Case History for a Cleaner Energy Future
Canada's 1st Co-Produced Geothermal Power Project**
Presented by Lisa Mueller

10:40 - 10:55 **Case History & Vision Going Forward
Incorporating Other Energy Sources (Geothermal & Metals) into Alberta's Economic Engine**
Presented by Liz Lappin

10:55 - 11:15 **Panel Session & Audience Q/A** - Moderated by Bill Whitelaw

PRESENTERS



Juli Rohl

Director, Impact Studio & Lead Animator
Energy Futures Lab

Juli is the Director of the Impact Studio and Lead Animator with the Energy Futures Lab - an Alberta-based coalition of innovators and leading organizations working together to advance solutions aligned with their 2050 vision for Canada's energy future. After spending 3 years as an EFL Fellow, Juli joined the support team and works to bring the initiatives to life and help deliver community roadshows.

Juli has been working with people to solve complicated and important problems since drilling wells as a geologist at Burlington Resources in 2005. Her passion for continuous improvement led her to the MBA Program at the Haskayne School of Business and multiple strategic roles within ConocoPhillips Canada.

In 2016, Juli left ConocoPhillips to start ReGenerate Alberta - a social enterprise aimed at finding the value in what the oil and gas industry was leaving behind.

As mother and lifelong resident of Treaty 7 Territory, Juli has an immense passion for creating the conditions for Alberta to navigate the energy transition in a way that will allow current and future generations to thrive.

Liz Lappin

President

Battery Metals Association of Canada

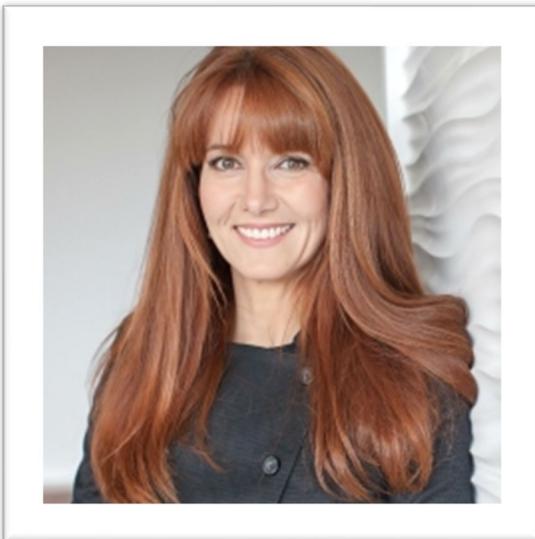
Liz is a professional geologist and a rigorous optimist with a commitment to delivering positive social and environmental outcomes in natural resource development. As a former oil and gas geologist, Liz spotted the potential and natural fit for both geothermal and lithium in Alberta as parallel industries with environmental and economic benefits. Since then, Liz has been directly involved in the development of many different natural resource projects and technologies that are essential to our desired energy future. As a former VP of E3 Metals Corp, and a consultant to many large and small energy enterprises, Liz managed geoscience portfolios and corporate affairs duties such as stakeholder engagement, government relations, fundraising and marketing. She has also worked with a variety of external stakeholders and partners across the energy system. As a volunteer Director of both the Battery Metals Association of Canada and Decentralized Energy Canada, Liz is working to enable industries that are vital to a thriving Canadian energy system. Liz was honoured to receive a 2017 Young Women in Energy (YWE) Award for challenging the status quo in energy, she is an Energy Futures Lab Ambassador, and she is excited to be earning her EMBA with a specialty in social enterprise from the University of Fredericton.



Lisa Mueller

President and CEO

FutEra Power



Lisa Mueller is a mechanical engineer with over 20 years of technical and business development experience. Ms. Mueller began her career in the space sciences on a NASA project, then moved into the commercial arena by founding and growing her own manufacturing company. Most recently, she served as Senior Business Development Manager of Infrastructure at Shell Canada and President & CEO at Epoch Energy Development. Lisa joined Razor Energy in 2017 as Vice President New Ventures. As the energy complex undergoes a global transition to low-carbon, a new subsidiary was formed, FutEra Power.

As President and CEO of FutEra Power, Lisa aims to leverage Alberta's current energy assets to develop a cleaner energy tomorrow, beginning with Canada's first co-produced geothermal power project.

MODERATOR

Bill Whitelaw

Managing Director, Strategy and Sustainability
geoLOGIC systems Ltd.



Bill Whitelaw is Managing Director, Strategy and Business Development, geoLOGIC Systems and JWN Energy. In this role, he helps shape the company's focus on the products and services most widely used in Canada's upstream oil and gas sector. In addition to his CSUR role, Bill is on the steering committee for the Energy Futures Lab, as well as its partner council.

Bill is a graduate of Loyalist College and Queen's University and holds a master's degree in communication studies from the University of Calgary.

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important role in our energy future**

presented by

Juli Rohl - Energy Futures Lab
Liz Lappin - Battery Metals Association of Canada
Lisa Mueller - FutEra Power

Tuesday, April 5th, 2022

10:00am MDT

****pre-registration is mandatory****

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TECHNICAL WEBINAR

