



CARBON TECH EXPO  
PROGRAMME

ENERGY TRANSITION:

THE PATH TO NET ZERO

# CARBON TECH EXPO PROGRAMME

September 17-21, 2023 | BMO Centre, Stampede Park, Calgary, Canada

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# CARBON TECH EXPO PROGRAMME

## CARBON TECH EXPO SESSIONS OVERVIEW

	Timings		Session Title
Day 1, Mon, 18 September	13:30	14:30	Canada's Methane Innovation & Technology Ecosystem
	16:00	17:00	Mitigation, International Business, Global Collaboration, and Economics
Day 2, Tue, 19 September	11:15	12:15	Learning from the first generation of CCS projects
	16:00	17:00	Methane Emissions Net Zero Ambitions
Day 3, Wed, 20 September	10:30	11:30	Enabling the next wave of large CCS projects
	13:45	14:45	Commercializing CCUS technologies
	16:15	17:15	Policy Landscape, Pinch Points and Funding for CCUS
Day 4, Thu, 21 September	10:15	11:15	Net Zero Energy Systems
	11:15	12:15	Unleashing the Power of Hydrogen
	12:15	13:15	Electrifying the Future
	13:30	14:30	Circular Economy (Biofuels, Petrochemicals, Renewable Natural Gas)



# CARBON TECH EXPO PROGRAMME

**Monday, 18 September 2023, 13:30 - 14:30**

**Auditorium 6 | Canada's Methane Innovation & Technology Ecosystem**

**Carbon Tech Expo Opening Remarks:** Minister Schulz, Government of Alberta

**Moderator:** Jackson Hegland, Managing Director, MELA, Canada

Panelist: Allan Fogwill, COO, PTAC, Canada

Panelist: Jonathan Bryan, Technical Director, NGIF, Canada

Panelist: Connor O'Shea, CEO, Westgen, Canada

Panelist: Stephan Germain, President, GHGSat, Canada

## **Session Description:**

This session focuses on understanding the methane innovation ecosystem in the oil and gas industry. It covers how the gaps in knowledge to implement effective methane reduction strategies are addressed and discusses the various stakeholders, consortia, networks, and initiatives for development of best practices and smart policies.





# CARBON TECH EXPO PROGRAMME

**Monday, 18 September 2023, 16:00 - 17:00**

**Auditorium 6 | Mitigation, International Business, Global Collaboration, and Economics**

**Moderator:** Soheil Asgarpour, CEO & President, PTAC, Canada

Panelist: Brian Van Vliet, Manager, Environment Solutions, Spartan Controls, Canada

Panelist: Michele Evans, Assistant Deputy Minister - Alberta Region "Prairies Economic Development Canada", Canada

Panelist: Nicole Harbauer, Trade Commissioner - Energy & Clean Technologies, Global Affairs Canada

## **Session Description:**

This session highlights the methane emission reduction technologies which have been developed, field tested, and commercialized, focusing on securing a unified, global oil and gas industry effort to achieve meaningful results. It delves into the importance of international collaboration and business involvement in tackling methane. The economic aspects that involve the costs and benefits of implementing methane reduction measures will also be discussed.



# CARBON TECH EXPO PROGRAMME

**Tuesday, 19 September 2023, 11:15 - 12:15**

**Auditorium 6 | Learning from the First Generation of CCS Projects**

**Moderator:** Norm Sacuta, Director of Operations, PTRC/Weyburn, Canada

Panelist: Jeff Pearson, President Wolf Carbon, Wolf Midstream, Canada

Panelist: Dan MacLean Retired, formerly Chevron, Bay Laurel Resources, Canada

Panelist: Carrie Rowe, Team Lead Quest, Shell/Quest, Canada

Panelist: Brendan McGowan, Executive Director, Reservoir Development, Enhance Energy, Canada

## **Session Description:**

The panel will share experience from early CCS projects in Canada and globally: Weyburn, Boundary Dam/Aquistore, Alberta Carbon Trunkline, Shell Quest and Gorgon.



# CARBON TECH EXPO PROGRAMME

**Tuesday, 19 September 2023, 16:00 - 17:00**

**Auditorium 6 | Methane Emissions Net Zero Ambitions**

**Moderator:** Claude Ghazar, Director, Recovery Technologies, Alberta Innovates, Canada

Panelist: Camilla Williams, Manager, Emissions Management, TC Energy, Canada

Panelist: Gerald Palanca, Manager - Emissions Management Team AER, Canada

Panelist: Matthew Johnson, Professor of the Mechanical and Aerospace Engineering Department, Scientific Director of the Energy & Emissions Research Laboratory (EERL), Carleton University, Canada

Panelist: Liz O'Connell, President, Arolytics, Canada

## **Session Description:**

This session explores the technical and regulatory aspects of methane detection, quantification, and control methods in the context of Net Zero Ambitions. Effective detection and measurement are essential for understanding the scale of the problem and tracking progress. They correlate with the oil and gas sector's overall goals in meeting provincial and federal methane emissions reductions targets and the 2050 net zero ambitions. The economic aspects that involve the costs and benefits of implementing methane reduction measures and how these measures and modeling elements impact targeted ambitions will also be discussed.



# CARBON TECH EXPO PROGRAMME

**Wednesday, 20 September 2023, 10:30 - 11:30**

**Auditorium 6 | Enabling the Next Wave of Large CCS Projects**

**Moderator:** James Millar, President & CEO, International CCS Knowledge Centre

Panelist: Breanne Fox, Director, Commercial Management & Carbon Technologies, Capital Power, Canada

Panelist: Corwyn Bruce, Project Director, Edmonton CCUS, Heidelberg Materials, Canada

Panelist: Tom Antle, Director of Engineering, TorchLight Bioresources, Canada

Panelist: Sean Collins, CEO, Varme, Canada

## **Session Description:**

The panel will share learnings and updates from early-mover FEED studies for large-scale CCS projects under development: Heidelberg cement plant, Capital Power Genesee generating station, Varme waste to energy, TorchLight BECCS.





# CARBON TECH EXPO PROGRAMME

**Wednesday, 20 September 2023, 13:45 - 14:45**

**Auditorium 6 | Commercializing CCUS Technologies**

**Moderator:** Breanne O'Reilly, Communications and Marketing Carbon Management Canada, Canada

Panelist: Greg Maidment, Director, Operations and Applied Research Carbon Management Canada, Canada

Panelist: Andrea Crook, CEO and Co-founder, Optiseis, Canada

Panelist: Rob Baillargeon, Innovation Lead, Cenovus, Canada

Panelist: Brett Henkel, Co-founder and SVP, Svante, Canada

## **Session Description:**

The panel will discuss key challenges faced by technologies as they move to commercialization and what the process looks like.





# CARBON TECH EXPO PROGRAMME

**Wednesday, 20 September 2023, 16:00 – 17:00**

**Auditorium 6 | Policy Landscape, Pinch Points and Funding for CCUS**

**Moderator:** Candice Paton, VP, Corporate Affairs, Enhance Energy, Canada

Panelist: Raul Camba, Managing Director, NA Energy Transition Lead, Accenture, Canada

Panelist: Robert Mugo, Director, Greenhouse Gas Programs, Pathways Alliance, Canada

Panelist: Jihad Traya, Business Development and Feedstock Strategist, Alberta's Industrial Heartland Association, Canada

Panelist: Dr. Jennifer Winter, Associate Professor, University of Calgary School of Public Policy, Canada

## **Session Description:**

The panel will discuss perspectives of CCS projects proponents, enabling regulations, and barriers to bringing projects over FID in Canada and internationally.



# CARBON TECH EXPO PROGRAMME

**Thursday, 21 September 2023, 10:15 – 11:15**

**Auditorium 6 | Net Zero Energy Systems**

**Moderator:** Bryan Helfenbaum, Associate Vice President, Alberta Innovates, Canada

Panelist: Tom McCaffery, Executive Director Policy and Engagement, Emission Reduction Alberta, Canada

Panelist: Joule Bergerson, Assoc. Professor in Chemical and Petroleum Engineering and Canada Research Chair in Energy Technology Assessment, University of Calgary, Canada

Panelist: Steve Saddleback, Founder, Opimoyaso Group, Canada

Panelist: Kevin Birn, Global Head of Centre of Emissions Excellence & Chief Analyst, Canadian Oil Markets, S&P Global, Canada

## **Session Description:**

There is no silver bullet for a country or sub-national jurisdiction to achieve Net Zero. Rather, it will require a wide range of technology deployment and policy to create an energy system that meets emissions targets while remaining affordable, reliable, and safe. This panel will explore strategies and technologies that are needed to get to Net Zero.



# CARBON TECH EXPO PROGRAMME

**Thursday, 21 September 2023, 11:15 – 12:15**

**Auditorium 6 | Unleashing the Power of Hydrogen**

**Moderator:** Jim Parsons, Vice President, Oil & Gas, Spartan Controls, Canada

Panelist: Brent Lakeman, Director - Hydrogen Initiative, Edmonton Global, Canada

Panelist: Alessandro Faldi, Hydrogen Mobility Manager, ExxonMobil, USA

Panelist: James Powell, VP Energy Infrastructure, Clean Fuels, ATCO, Canada

Panelist: David Layzell, Energy Systems Architect, Transition Accelerator, Canada

## **Session Description:**

Hydrogen is often referred to as the “Swiss Army Knife” of energy carriers, with opportunities in refining, mobility, power, and heat. But which end uses are actually the most viable, and where are the current gaps/weaknesses in the hydrogen value chain? This panel will explore the key technical, strategic, economic, and regulatory influences on the Hydrogen Economy.





## CARBON TECH EXPO PROGRAMME

**Thursday, 21 September 2023, 12:15 – 13:15**

**Auditorium 6 | Electrifying the Future**

**Moderator:** Vanessa White, Director, Renewable & Alternative Energy, Alberta Innovates, Canada

Panelist: Roman Shor, Assoc. Professor in Chemical and Petroleum Engineering and Energi Stimulation Industrial Research Chair in Geothermal, University of Calgary, Canada

Panelist: Robin Boschman, Director, External Relations, E3 Lithium, Canada

Panelist: Kelly Matheson-King, Chief Operating Officer, BluEarth Renewables, Canada

Panelist: Megan Gill, Regulatory Manager/Regulatory and Policy Capital Power, Canada

### **Session Description:**

Net Zero targets necessitate the need for increases in both electricity generation and storage. But where will this low-carbon electricity actually come from? This panel will explore developments and integration of renewables, small modular nuclear reactors, geothermal, and grid modernization, as well as sourcing the critical minerals needed.



# CARBON TECH EXPO PROGRAMME

**Thursday, 21 September 2023, 13:30 – 14:30**

**Auditorium 6 | Circular Economy (Biofuels, Petrochemicals, Renewable Natural Gas)**

**Moderator:** David Schick, VP Western Canada, Innovation and Regulatory Affairs, Canadian Fuels Association, Canada

Panelist: Geoff Tauvette, Executive Director, Canadian Council for Sustainable Aviation Fuels, Canada

Panelist: Tamara McGillivray, Lead, New Pursuits - Low Carbon Solutions, Imperial, Canada

Panelist: Mehr Nikoo, Senior Manager, Sustainable Materials, Alberta Innovates, Canada

## **Session Description:**

The concept of the circular economy has risen in profile, seeking to convert waste or low-value feedstock into high-value fuels and products. But past forays have provided some cautionary lessons. This panel will explore opportunities and recent developments in biofuels, renewable natural gas, sustainable aviation fuel, and circular plastics.

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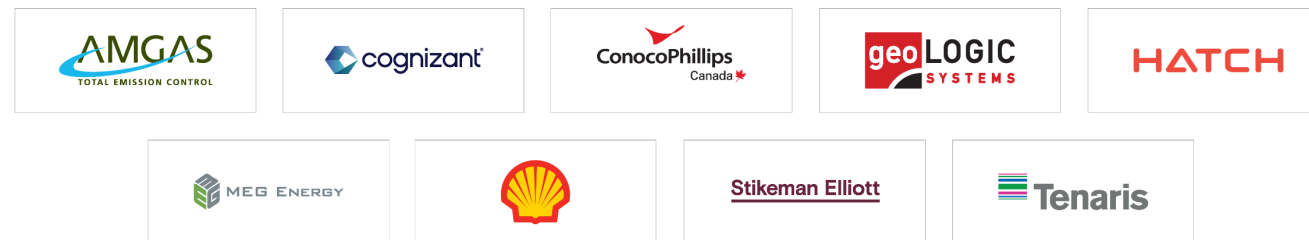




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