

2016 ALBERTA CLIMATE SUMMIT SPEAKERS

SEPTEMBER 20, 2016 | CALGARY

Welcome



Ed Whittingham is the Executive Director of the Pembina Institute. Through his work he advises governments, regulators, companies, research networks and civil society on clean energy. Ed holds an International MBA from York University's Schulich School of Business, where he specialized in corporate sustainability and international business. During his graduate studies he was a Social Sciences and Humanities Research Council of Canada scholar, an Export Development Canada scholar and a visiting researcher at the United Nations Environment Programme's Japan branch. From 2007-2008 he served as an Alcoa Foundation Conservation and Sustainability Practitioner Fellow for his research on the U.S. Climate Action Partnership.



MLA Shannon Phillips is a graduate of the University of Alberta holding a BA and MA in Political Science. She has lived in Lethbridge since 2006, and has ten years of experience in journalism and policy analysis relating to the economy and how it affects middle- and lower-income families. MLA Phillips was sworn in to cabinet as Minister of Environment and Parks on May 24, 2015. On February 2, 2016, Ms. Phillips was named the Minister Responsible for the Climate Change Office. MLA Phillips lives in Lethbridge with her family.



Brian Vaasjo is the President and CEO of Capital Power, Alberta's leading developer of new power generation. Brian possesses over 35 years of industry experience. This includes time as President of EPCOR's Energy Division where he was responsible for regional clean coal initiatives. Brian holds an MBA from the University of Alberta. He is a Fellow of the Chartered Professional Accountants, a member of the Financial Executives Institute of Canada and serves on the University of Alberta School of Business Advisory Council. He has also served on the boards of the United Way, the Alberta Capital Region, the Alberta Shock Trauma Air Rescue Society (STARS), the Alberta Society of Management Accountants and the Citadel Theatre.

First Nations and the CLP



Eriel Deranger is an Indigenous rights advocate and member of the Athabasca Chipewyan First Nation in northeastern Alberta. She has spoken widely about the negative effects the oil industry has on the climate, environment and human rights. She is a founder of Indigenous Climate Action and has worked as a climate and rights activist with the Federation of Saskatchewan Indian Nations, Indigenous Environmental Network, Sierra Club, Rainforest Action Network and the UN Indigenous Peoples Forum on Climate Change. She is currently the Athabasca Chipewyan First Nation's Tar Sands Campaign and Communication Coordinator.

How fast is our climate changing?



John Stone is an adjunct professor in the Department of Geography and Environmental Studies at Carleton University. He has held post-doctoral fellowships with the National Research Council of Canada and the Czechoslovak Academy of Sciences. He is a member of the Canadian Meteorological and Oceanographic Society Scientific Committee, an Associate Editor of Environmental Reviews and a board member of the Pembina Institute. His past professional responsibilities include serving as a member of the Bureau of the Intergovernmental Panel on Climate Change (IPCC). He received a Ph.D. in Chemical Spectroscopy and a B.Sc. in Chemistry from the University of Reading UK.

Fireside chat: What is the role of fossil fuels in a 2050 carbon constrained world?



David Hone is Chief Climate Change Adviser for Shell International Ltd. He joined Shell in 1980 after graduating as a Chemical Engineer from the University of Adelaide in Australia. He has worked in refinery technology, oil trading and shipping areas for Shell. David is a board member of the International Emissions Trading Association (IETA), was Chairman of IETA from 2011-2013 and is a board member of Center for Climate and Energy Solutions (C2ES) in Washington. David is a regular climate blogger and the author of a series of books on the climate issue under the title Putting the Genie Back.



Tom Rand is a green entrepreneur, advisor, speaker, and author. He is Managing Partner at ArcTern Ventures and Senior Advisor at the MaRS Discovery District in Toronto, where he helps the next generation of cleantech companies grow. Rand is founder of VCi Green Funds, a venture capital fund in the low-carbon sector and sits on the board of directors of a number of cleantech organizations. Rand holds an MSc in Philosophy of Science from the London School of Economics and an MA and PhD in Philosophy from the University of Toronto. In 2008 Rand was awarded an Action Canada Fellowship, and was project manager of the Green Bonds public policy team.

Strategies for a low carbon world: How are firms responding to increasing carbon constraints, and how are they bringing their investors along with them?



Jean-Michel Gires is president of NextTier Energy Solutions. He has led projects around the world and was instrumental in establishing best practices in the areas of advanced research and development, project management, environmental responsibility, stakeholder relations, and community capacity building. While at Total he served as President and CEO. Prior to this, he was CEO at the Bureau de Contrôle of Nuclear Construction for the French Ministry of Industry. He is a recipient of the Chevalier of the Légion d'Honneur, one of France's highest civilian honours. He is also the former Co-Chairman of the Oil Sands Leadership Initiative (OSLI) and a former founding member of Canada's Oil Sands Innovation Alliance (COSIA).



Bernice Lee specializes in issues around low carbon growth for emerging economies, particularly China, and trade in light of climate change. She is the Executive Director of Chatham House's Hoffmann Centre for the Sustainable Resource Economy. Among her many high-level professional postings, she has served as Director of Climate Change for the World Economic Forum, been a policy advisor for the International Centre for Trade and Sustainable Development in Geneva and was a member of the Strategic Planning Unit in the UN Secretary-General's office. She received a BA in Politics and Economics from Oxford University and an MSc in International Relations from the London School of Economics.



Gandeephan Ganeshalingam is a Customer Innovation Centre Leader at General Electric in Calgary. The Centre has brought businesses, researchers and entrepreneurs together since 2012 with the aim of finding solutions to issues with water use in the oil and gas industry, converting natural gas into reliable remote power, and Oil Field Analytics. Previously, he was General Electric's Director of Global Innovation in Ohio where he took part in the launch of 19 new products in 2 years. Gandeephan holds an MBA from the University of Toronto's Rotman School of Management and a BSc in Chemical Engineering from the University of Waterloo.

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Sara Hastings-Simon is the director of the Pembina Institute's clean economy program in Alberta. She has experience in renewables, energy efficiency and cleantech. Her work has included development of a detailed model of the North American power sector, research and presentations on success factors in the cleantech industry, policy for climate change, and consulting work on key business issues in the cleantech sector with utilities, solar developers, venture capital firms and governments. Prior to joining the Pembina Institute, Sara was the manager of the cleantech practice at McKinsey & Company, a global management-consulting firm. She holds a Ph.D. in physics from the University of Geneva.

Methane reduction as a case study: the imperative, international trends, the business opportunity and Alberta's influence



Mark Brownstein is Vice President of the Climate and Energy Program at Environmental Defense Fund. His career includes time as an attorney in private environmental practice, an air quality regulator with the New Jersey Department of Environmental Protection, and an aide to a member of the U.S. House of Representatives. Mark is a member of the Electric Power Research Institute's Public Advisory Board, the University of Pennsylvania's Kleinman Center for Energy Policy Advisory Board, and the Keystone Center Energy Board. He is an adjunct professor at New York University Law School and has taught energy policy at Columbia University's School of International and Public Affairs.

International trends for coal: How are leading jurisdictions phasing out coal in a manner that addresses the health, environmental, and economic implications of the technology?



Taylor Kuykendall is a coal reporter at S&P Global Market Intelligence reporting on issues affecting the U.S. coal industry, including government policies, regulatory actions, financial markets, land use developments and the future of coal communities. Prior to joining S&P, Taylor worked as an energy business journalist for the State Journal in West Virginia and as a local reporter in the heart of Central Appalachia's coal region for the Beckley Register-Herald. Taylor is a graduate of Marshall University's W. Page Pitt School of Journalism and Mass Communications where he serves on their alumni advisory council. Taylor tweets about developments in the coal sector @taykuy for @SPGMarketIntel.



Erin Flanagan is the director of the Pembina Institute's federal policy program. She researches and advocates for policies that reduce the environmental impacts of fossil fuel and related infrastructure projects, and that support Canada's transition to clean energy. As a technical analyst at the Institute, Erin contributed to public- and private-sector projects on a range of issues in the oilsands, including greenhouse gas and water management, land-use planning, tailings treatment and reclamation. Her analysis has appeared in outlets such as the Globe and Mail, the Financial Post and the New York Times. Erin holds a Bachelor of Science in chemical engineering with a minor in public policy from the University of New Brunswick.

Breakout Session 1: Methane regulatory design



Mark Taylor has 30 years of experience in the oil and gas industry and is currently Vice President, Climate Policy Assurance (CPAT) at the Alberta Energy Regulator (AER). Mark graduated from the University of Saskatchewan in Mechanical Engineering and has worked in field and office roles for companies such as Amoco/BP, Alberta Energy Company (AEC)/Encana, Sinopec Daylight and Mosaic Energy. Mark has lead teams responsible for developing unconventional oil and gas assets in Western Canada. He has also served on the Board of Directors at the Canadian Society for Unconventional Resources. A primary focus for the CPAT team is to ensure the policy target for methane emissions in Alberta is met.



Dan Scheitrum is a PhD candidate in the field of Agricultural and Natural Resource Economics at the University of California-Davis. Daniel has published research on crude oil strategic policy and commodity storage. His current research focuses on the intersection of agricultural and energy markets, evaluating the supply and policy implications of renewable natural gas.



Jackson Hegland is an oil and gas professional with over nine years of experience building carbon management strategies, collaborating with industry and government on climate change policy design and completing greenhouse gas emission reduction projects throughout Western Canada. He graduated from Princeton University with a degree in Environmental Economics and is currently the President of Modern West Advisory, an organization committed to working with industry, government, and solution providers to build a new generation of leaders in emissions management through partnerships and innovation. .

Breakout Session 1: Methane regulatory design



Duncan Kenyon is director of the Pembina Institute's unconventional oil and gas program. His focus is on working with government, communities and businesses on advancing sustainable energy solutions. He has worked extensively on climate change related policy and projects, and incorporating sustainability related indicators and processes into organizations' sustainable business strategies, management practices and stakeholder engagement programs. Prior to joining the Pembina Institute, Duncan advised clients on sustainability related opportunities for over 15 years. He received his Master of Business Administration from the Schulich School of Business, York University.

Breakout Session 2: Energy efficiency



Stephen MacDonald is the CEO of EfficiencyOne – the non-profit operator of Canada's first electricity efficiency utility as the franchise holder of Efficiency Nova Scotia. Prior to his appointment as CEO, Steve served as EfficiencyOne's Chief Operating Officer. As COO, he oversaw all electric and non-electric efficiency services; financial operations; and information technology, market analytics, and innovation. Steve also led the organization's transition to its current model. A chartered accountant, Steve spent more than a dozen years in various senior leadership roles with a Nova Scotia Crown Corporation before joining Efficiency Nova Scotia.



Brett Lichtenthaler is a Director at CLEAResult's Portland, Oregon location. CLEAResult is an Austin, Texas-based management strategy company that designs, markets and implements energy efficient programs worldwide. He is also the founder of the Brett Lichtenthaler Consulting Group, which offers sales strategy advice and training to expanding companies. He is a graduate of Pepperdine University and the George L. Graziadio School of Business and Management.

Breakout Session 2: Energy efficiency



Philippe Dunsky is the president of Dunsky Energy Consulting, a firm focused on the accelerated adoption of cost-effective energy efficiency and clean energy solutions. For the past 25 years, Philippe and his team have advised many of North America's clean energy leaders on building effective energy efficiency and clean energy policies, regulatory frameworks, programs, potential, and performance evaluation. His firm is currently advising the Alberta government on its energy efficiency and clean energy programs and strategies. In addition to his consulting work, Philippe has served an array of boards and committees. He is currently vice-chair of the Canadian Energy Efficiency Alliance.



Elizabeth McDonald is the president and CEO of the Canadian Energy Efficiency Alliance, which works in partnership with manufacturers, utilities, governments and environmental organizations to facilitate the adoption of energy efficiency measures in Canada. Prior to this appointment she was a senior advisor with SolPowered Energy Corporation and President of Canadian Solar Industries Association. She has also been named an Investment Canada Champion by the Department of Foreign Affairs and International Trade Canada (DFAIT), and travelled extensively as a solar advocate and spokesperson.



Binu Jeyakumar is a consulting advisor for the Pembina Institute in Alberta. Previously, Binu served as an asset management strategy developer for TransAlta's renewable generation. Through Engineers Without Borders, she also worked as a consultant to the Ghanaian government, addressing systemic issues with government effectiveness and citizen empowerment. In working with different municipalities, she honed her skills in assessing client needs, building and managing relationships, and managing deliverables for different stakeholders. Binu also conducted research and detailed analysis with Defence Research and Development Canada and Alstom Power.

Breakout Session 3: Utility scale renewables



Chris Nelder is an energy analyst and consultant who has written about energy and investing for more than a decade. He is an electricity manager at the Rocky Mountain Institute in Boulder, Colorado, and the host of the Energy Transition Show podcast. He is the author of *Profit from the Peak* and co-author of *Investing in Renewable Energy*, and has written hundreds of articles on energy. He has been published by *Nature*, *Scientific American*, *Slate* and *The Atlantic* among others. He is a public speaker and media guest with more than 50 media appearances. Chris blogs at GetREALList.com, and tweets @chrisnelder.



Doyle Boney is an independent consultant and professional board member. He has served as CEO of New Generation Power International, an independent renewable-based power generation company focused on acquiring; developing, owning and operating renewable power projects throughout the world. He also served as President and CEO of CPS Energy, the largest electric and gas utility in the US. CPS Energy successfully transitioned to a low carbon and renewable energy based generation fleet under Doyle leadership. Doyle earned a Bachelor of Science degree in engineering from Montana Technical College and Master of Business Administration from University of Miami.



Eric Gimon consults as a technical expert, research scholar, and policy adviser for Energy Innovation. He is a contributor to America's Power Plan, working on questions of renewable energy integration. Eric also acts as an adviser for non-profits and foundations interested in these subjects. Eric holds a B.S./M.S. in mathematics and physics from Stanford University and a Ph.D. in physics from the University of California in Santa Barbara. He has a 15-year career as a researcher in quantum gravity and high-energy physics. Such research work inspired his transition to climate and energy policy.

Breakout Session 3: Utility scale renewables



Dale Friesen is vice president, Indigenous & government relations and sustainability for Canadian Utilities Limited, where he is responsible for leading and developing an enterprise-wide strategic approach and overall framework for the company's Indigenous community relations, government relations and environmental portfolios. Since joining ATCO in 1988, Dale has held progressively senior positions within ATCO Power, including manager, regulatory affairs, where his responsibilities included emissions and climate change initiatives. Most recently, he was vice president, environmental, ATCO Power and prior to that, vice president, aboriginal relations, health, safety and environment for ATCO's Utilities Group.

Breakout Session 4: Community-owned renewables



Chip Olver has been in office since March 1994. In 2013, she was elected to her seventh term as councillor in the town of Banff. She is also currently appointed to the Banff Heritage Corporation, the Biosphere Institute of the Bow Valley and the Bow Valley Regional Housing Board.



David Berliner is cofounder and CEO at CoPower, where he focuses on making green investing simple. CoPower's online platform helps people have meaningful environmental impacts by investing clean energy infrastructure projects. David also consulted for the New York City Mayor's Office on renewable energy and worked at the University of Toronto as a Sustainability Coordinator. David has been named "Emerging Solar Leader" by the Canadian Solar industries Association and "Top 30 Under 30" by Corporate Knights. David holds an MPA from Columbia University and a B.Sc. from the University of Toronto.

Breakout Session 4: Community-owned renewables



Melina Laboucan-Massimo is Lubicon Cree from Northern Alberta. She has worked on social, environmental and climate justice issues for the past 15 years. For the past 9 years Melina has worked as a Climate & Energy campaigner with Greenpeace in Alberta as well as with the Indigenous Environmental Network internationally. Melina recently finished her Masters degree in Indigenous Governance at the University of Victoria with a focus on Renewable Energy in First Nation communities. In 2015 Melina completed a 20.8kW solar installation in her home community of Little Buffalo in the heart of the tar sands. Melina also serves as a 350.org board member.



Kieran Coleman is an associate within RMI's Electricity Practice. Previously, he consulted for the World Bank and Rockefeller Foundation on rural electrification efforts in India. Kieran's prior experience includes researching East Asian political economy with the Center on Strategic and International Studies (CSIS), international economic forecasting with the PNC Financial Services Group's Economics Group, and a year-long position offering program support and analysis for the U.S. Department of State's Office of Iraq Political-Military Affairs. Kieran holds an MA from The Johns Hopkins University School of Advanced International Studies.



Dave Lovekin is a senior advisor at the Pembina Institute and has managed numerous corporate, community and government projects since joining Pembina in 2008. Dave has also worked with stakeholders in small businesses, industry and non-governmental organizations (NGOs) on projects related to renewable energy technologies including solar, wind, bioenergy, alternative technologies and energy efficiency solutions. He holds a master's degree in systems design engineering from the University of Waterloo. Dave is currently on the advisory committee for Alberta Innovates BioSolutions / CCEMC, and an advisory committee for NRCan developing standards for biomass fuels and equipment in Canada.