

# DECARBONIZE

## NEWFOUNDLAND & LABRADOR

*July 11-12, 2019: Signal Hill Campus, Memorial University*



[decarbonizenl.ca](http://decarbonizenl.ca)



## LAND ACKNOWLEDGEMENT

*A land acknowledgement is offered to recognize Aboriginal peoples' enduring connection to their traditional territories, to recognize the history of the land that is currently shared by many peoples, and to recognize stewardship as a shared commitment of all those who reside in a territory. The practice of territory acknowledgement is itself a replication of an Aboriginal practice which predates European contact.*

**We respectfully acknowledge the territory in which we gather as the ancestral homelands of the Beothuk, and the island of Newfoundland as the ancestral homelands of the Mi'kmaq and Beothuk. We would also like to recognize the Inuit of Nunatsiavut and NunatuKavut and the Innu of Nitassinan, and their ancestors, as the original people of Labrador. We strive for respectful relationships with all the peoples of this province as we search for collective healing and true reconciliation and honour this beautiful land together.**

## About #DecarbonizeNL

In October 2018, the United Nations Intergovernmental Panel on Climate Change issued a stark warning: to avoid catastrophic climate change, we must stop burning fossil fuels and emitting greenhouse gases.

The milestones are specific and daunting. By 2030, all of humankind must reduce the amount of primary energy derived from oil by 37% relative to 2010 to avoid the worst effects of climate change. Coal use must decrease 78% over that same time frame - and even natural gas, often touted as a 'bridge fuel', must drop by 25%. No jurisdiction is exempt from this responsibility, and none will be immune from the effects of climate breakdown if we fail to meet it.

### Why Decarbonize NL?

Newfoundland and Labrador has an economy that is largely dependent on oil and natural resources. In 2010, oil royalties accounted for over 30% of provincial revenue. Dramatic swings in volatile commodity prices create severe challenges for social programs and spending. Decarbonization - the process of decoupling human activity from the emission of greenhouse gases - will be a significant challenge, yet it's one that we must meet, both morally and practically.

So far, no strategy has been created that aligns NL's development with the targets identified in the IPCC report. Therefore, it is up to all of us to come up with an action plan.

### DNL's Mission

The purpose of Decarbonize NL is to unleash the creativity, passion, ingenuity, and entrepreneurial spirit of Newfoundland and Labrador - to bring together enthusiastic members of academia, government, industry, Indigenous communities, non-profits, and the general public to outline what we can do, not just to meet or exceed the IPCC targets in NL, but also to build the prosperous, just, and sustainable economy that we all deserve.

## Participating in Decarbonize NL

### How to decarbonize - not whether

Climate change and decarbonization are topics that inspire passionate debate. In order to keep the space productive and to accomplish the goals of the event, we ask that all participants be prepared to discuss how best to decarbonize NL's economy - NOT to debate whether we should do so.

By attending and participating in this conference, we ask that you, for the purposes of discussion, accept the science that climate change is real, dangerous, and caused by human activities (primarily the combustion of fossil fuels). If you do not hold these views, you are still welcome - provided you agree to nevertheless focus your contributions on how, not whether to reshape NL's economy to fight climate change.

We further ask that all delegates come to DNL with the mindset that NL has the same obligation as the rest of the world to decarbonize. We feel the space will be unproductive if we spend the time debating whether NL has a role in decarbonization.

## Code of Conduct

We are employing a code of conduct for this event.

DNL's mission is to envision an economy in NL that is in compliance with the reduction in greenhouse gas emissions needed to fight climate change. This topic will arouse debate, and strong disagreements may occur. We see this as an asset – it is our explicit mission to set up a space so that these discussions can happen. However, there is a line between debate and disrespect – and if that line is crossed, the space is no longer productive. We also value providing a safe, equitable, inspiring space for delegates from around the world. Our respectful dialogue policy asks that participants make every effort to maintain constructive discourse with other conference attendees at all times.

The Decarbonize NL Code of Conduct outlines the following expected behaviours from all delegates:

- Treat everyone with respect and consideration.
- Communicate openly and thoughtfully with others and being considerate of the multitude of views and opinions that are different than your own.
- Be respectful and mindful in your critique of ideas.
- Be mindful of your surroundings and of your fellow participants.

The following behaviours are unacceptable:

- Harassment and intimidation, including any verbal, written, or physical conduct designed to threaten, intimidate, or coerce another delegate, conference organizers, or staff.
- Discrimination based on gender or gender identity, sexual orientation, age, disability, physical appearance, body size, race, religion, national origin, or culture.
- Physical or verbal abuse of any attendee, speaker, volunteer, exhibitor, staff member, service provider or other meeting guest.
- Disrespectful disruption of presentations.

**Note that the above unacceptable behaviours are guidelines, rather than strict definitions.**

### **Consequences**

**Anyone requested to stop unacceptable behavior is expected to comply immediately.**

**DNL staff (or their designee) or security may take any action deemed necessary and appropriate, including immediate removal from the meeting without warning and potentially without refund.**

### **Reporting Unacceptable Behaviour**

**If you are the subject of unacceptable behavior or have witnessed any such behavior, please immediately notify conference organizers or venue staff. Reporting should not be done via social media.**

## Conference Chairs and Program Committee

### Chairs

#### **Brett Favaro, Ph.D, @LetsFishSmarter**

Dr. Favaro is a research scientist at Memorial University of Newfoundland. His research spans fisheries, climate change, marine conservation, and environmental law and policy. He lectures widely on applying scientific approaches to creating a sustainable future for the planet. He is the author of The Carbon Code: How You Can Become a Climate Change Hero (Johns Hopkins University Press).

#### **Delia Warren, P. Eng, @delia\_warren16**

Delia holds a Bachelor of Mechanical Engineering (Memorial University) and will complete a Master of Business Administration (MBA) (Memorial University) in summer 2019. She is currently on the board of directors of national non-profit organization Iron & Earth, and director of the Iron & Earth East chapter, the goal of which is to empower oil industry workers to build the renewable energy future. Delia is a founding member of NLEARN and has performed research into the business case for alternative energy development for NL's off-grid, diesel-powered communities as part of her MBA studies. She is currently working as a project manager at local renewable energy company, SW Energy.

#### **Nick Mercer, Ph.D Candidate, @NickMercer2**

Nick holds a Bachelor of Arts in Environmental Studies and a Master of Arts in Environmental Policy (Grenfell Campus: Memorial University). He is currently completing his Ph.D dissertation at the University of Waterloo, where his doctoral research focuses on energy planning with and for communities in NunatuKavut, Labrador. He has done extensive research into community energy planning and barriers to renewable energy development in NL. Nick is a founding member of NLEARN.

### Program Committee

DNL is supported and organized by a committee with diverse professional backgrounds. Organizers include:

Dr. Angela Carter (<https://uwaterloo.ca/political-science/people-profiles/angela-carter>)

Dr. Barbara Neis (<https://www.mun.ca/soc/people/faculty-profiles/barbara-neis.php>)

Dr. John Sandlos (<https://www.mun.ca/history/people/faculty/jsandlos.php>)

Brandon Copeland (<https://www.theurbaneast.com/people>)

Joshua Green (<https://www.getmysa.com/about.html#timeline>)

Dr. Mark Stoddart (<https://www.mun.ca/soc/people/faculty-profiles/mark-c-j-stoddart.php>)

Keith Drover (<https://www.growlerenergy.ca/our-team/>)

Maggie Burton (<http://www.stjohns.ca/council-member/CouncillorLarge1>)

Conor Curtis (<http://ruralresilience.ca/researchers/mun/students/conor-curtis/>)



## Transportation and Bus Pass

Your conference badge will be your bus pass on July 11 and 12. To get to the event on the morning of July 11, please show this mock-up badge to your bus driver - either by printing it out, or showing it on your phone.



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**Max Delegate**  
Hogwart Univ.



@maxdelegate





## Schedule at-a-glance

Day 1 (July 11)		Day 2 (July 12)	
<i>Description</i>	<i>Time</i>	<i>Description</i>	<i>Time</i>
Registration (Coffee/tea provided)	8:00 AM	Registration (Coffee/tea provided)	8:00 AM
Opening remarks + Plenary	9:00 to 10:30	Concurrent session 3	8:30 to 10:30
Break (Coffee/tea provided)	10:30 to 11:00	Break (Pastries + Coffee provided)	10:30 to 11:00
Concurrent session 1	11:00 to 1:00 PM	Final gathering + concluding talks	11:00 to 1:00 PM
Lunch (Provided)	1:00 to 2:00	Field trip for those who pre-registered; bus departs promptly at 1pm from Signal Hill Campus. (Bag lunch provided)	
Concurrent session 2	2:00 to 4:00		
Social (Snacks provided)	4:00 to 6:00		

## Session Schedule

	<i>B2007a (Round tables)</i>	<i>B2007 (Round tables)</i>	<i>B2007b (theater-style)</i>
Day 1, 11-13:00	Just Transitions	Indigenous-Led Research	Fisheries and Agriculture
14:00 - 16:00	Urban Transportation	Off-grid Electricity	Climate Adaptation and Policy
Day 2, 08:30 - 10:30	Buildings and Urban Planning	Heavy Industry	Electrifying Transportation

## Plenary Session - July 11, 9:00 AM

### **Welcome, and Introduction to Decarbonize NL**

Dr. Brett Favaro, *Conference Chair*

### **Welcome from Memorial University of Newfoundland**

Dr. Max Liboiron, *Associate Vice-President (Indigenous Research)*

### **What is a Just Transition?**

Delia Warren, *Conference Chair*

### **Welcome from Government of Canada (by video)**

Hon. Catherine McKenna, *Minister of the Environment and Climate Change*

### **Why Communities Matter, and Introduction to Plenary Speaker**

Nick Mercer, *Conference Chair*

## **Plenary Talk: *Huge Challenge, Big Opportunity***

Catherine Abreu, *Executive Director, Climate Action Network Canada*

*Presenting Remotely*

**Q&A to Follow**

### **Introduction to the Citizen's Assembly**

Dr. Brett Favaro, *Conference Chair*

*Plenary Speaker***Catherine Abreu**

**Executive Director:  
Climate Action Network Canada**

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## Huge Challenge Big Opportunity

Science increasingly highlights the urgency with which the world needs to confront climate change. Newfoundland and Labrador is suffering from more frequent and more extreme weather events, including storms, flooding, sea level rise and erosion. Climate change impacts are exacerbating income and wealth inequalities and hurting peoples' health. On the positive side, research is clear that there are cost-effective solutions available to reduce carbon emissions and our impact on the climate. The evidence is also clear that there are big economic advantages to acting with urgency rather than avoiding or delaying action. What do these opportunities look like in Newfoundland and Labrador?

**Register for Decarbonize NL at:**  
**[DecarbonizeNL.ca](http://DecarbonizeNL.ca)**

**Biography**

Catherine Abreu is an award-winning campaigner whose work centres on building powerful coalitions to advance transformative action on climate change. One of the world's 100 most influential people in climate policy as named by Apolitical in 2019, she has over 15 years of experience campaigning on environmental issues including 7 years in the heart of the global climate movement.

Catherine is the Executive Director of **Climate Action Network – Réseau action climat (CAN-Rac) Canada**. Canada's primary network of organizations working on climate change and energy issues, CAN-Rac is a coalition of more than 100 organizations operating from coast to coast to coast. For 30 years, CAN-Rac has been the only national organization with a mandate to promote the interests of the Canadian climate movement as a whole, rather than any one individual organization.

An accomplished public speaker, Catherine has been honoured to share the stage with some of Canada's leading environmental thinkers including David Suzuki and Maude Barlow. Her commentary has featured in many news outlets including the New York Times, the Globe and Mail, the Toronto Star, and the Financial Post. She appears frequently on CBC, CTV, Global and other current affairs television and radio programs.

## Session 1: July 11, 11:00 - 13:00

### Indigenous-Led Research

#### Panelists:



**Amy Hudson**  
NunatuKavut Community  
Council – Memorial University



**Ian Sullivan**  
Qalipu First Nation



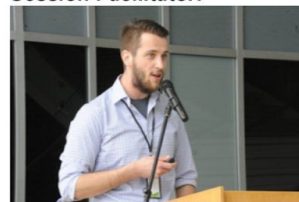
**Dr. Max Liboiron**  
Memorial University



**Jessica Penney**  
University of Glasgow

Indigenous communities throughout Newfoundland and Labrador are leaders in climate change research, monitoring, policy, and adaptation. The purpose of this session is to celebrate and profile this leadership, while also demonstrating how researchers can support and amplify Indigenous-led environmental research.

#### Session Facilitator:



**Nick Mercer**  
University of Waterloo

### Fisheries and Agriculture



**Keith Sullivan**  
Fish, Food, and Allied Workers  
Union



**Carey Bonnell**  
Ocean Choice International



**Mervin Wiseman**  
Newfoundland and Labrador  
Federation of Agriculture



**Kristie Jameson**  
FoodFirst NL

Food production is essential to a sustainable, prosperous future. NL has a deep history of fisheries and agriculture, but like all sectors it must find efficiencies and new ways of practice to decarbonize. Join us as we discuss opportunities within these sectors to improve nutrition, employment, and sustainable practice while reducing greenhouse gas emissions.

#### Session Chairs:



**Dr. Brett Favaro**  
Fisheries and Marine  
Institute



**Dr. Barb Neis**  
Department of  
Sociology



## Just Transitions

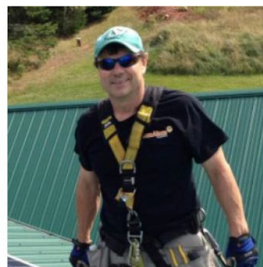
### Panelists:



**Seth Klein**  
Founding Director of CCPA-BC  
& Adjunct Professor, SFU



**Kerry Murray**  
Newfoundland & Labrador  
Federation of Labour



**Andrew Dibling**  
Wind Turbine Technician &  
Holland College Instructor, PEI

Confronting the climate crisis requires sweeping changes to how we work. Workers, their unions and associations, and their communities must be at the forefront of efforts to reduce emissions. What does that mean in the NL context? How can we prioritize climate stability in a way that protects good jobs and our resource dependent communities?

### Session Chairs:



**Delia Warren, P.Eng**  
Director of Iron & Earth East



**Dr. Angela Carter**  
Political Science, University of  
Waterloo

Lunch: July 11, 13:00 - 14:00

Lunch Prepared and Served by Red Oak Catering in Main Hall



Session 2: July 11, 14:00 - 16:00

**Off-grid Electricity**



**Delia Warren**  
Memorial University



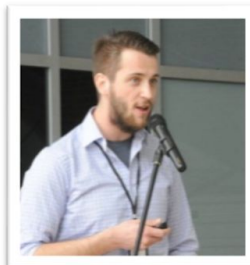
**Robert Apold**  
Natural Forces



**Bob Moulton**  
Retired – NL Hydro

**Session Chairs:**

NL leads Canada in renewable energy development; however, electricity generation differs dramatically in off-grid regions, where communities rely almost exclusively on diesel fuel. We will address off-grid decarbonization challenges, opportunities and cutting-edge research.



**Nick Mercer**  
University of Waterloo

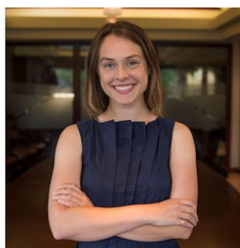


**Neil Hawkes**  
Nunatsiavut Government

## Urban Transportation



**Dave Lane**  
City Councillor; St. John's  
Cycling Task Force and  
Transportation Commission



**Kirsten Morry**  
St. John's Transportation  
Commission



**Ian Froude**  
City Councillor; St. John's  
Transportation Commission



**David Brake**  
Essential Transit Association

### *Session Chair:*

The citizens of a typical North American city are often dependent on the gas powered car to move people from point A to B. St. John's and other towns and cities in Newfoundland are no exception. How could other, less carbon-intensive options such as cycling and public transit be enhanced? Can we create a transportation system in Newfoundland with zero carbon emissions within a few decades?



**Elizabeth Yeoman**  
Faculty of Education, Memorial

## Climate Adaptation and Policy

### *Panelists:*



**Glenn Sharp**  
Sharp Management Inc.



**Dr. Kathleen Parewick**  
Municipalities Newfoundland  
and Labrador



**Neil Dawe**  
Tract Consulting Inc.



**Jeff Parker**  
Deputy Mayor, Lark Harbour  
NL

### *Session Chair:*

Decarbonization requires coordinated action, and policy is the means by which governments act. Policy innovation is necessary both to reduce greenhouse gases, but also to adapt to the changes that are inevitable even if decarbonization is successful. In this panel, we explore how policy can accelerate – or inhibit – decarbonization and adaptation.



**Ashley Smith**  
Fundamental Inc.

Social to follow in Signal Hill Campus Atrium  
(16:00-18:00)



## Day 2, Session 3: July 12, 08:30 - 10:30

### Heavy Industry

#### Panelists:



**Erin Cullen**  
Vale



**Kieran Hanley**  
Newfoundland & Labrador  
Environmental Industry  
Association



**Melissa English-Barbour**  
Aker Solutions



**Gerald Crane**  
Government of Newfoundland  
& Labrador

Newfoundland & Labrador's heavy industry plays a central role in the Province. Like all sectors, efforts are being made towards environmental stewardship and energy efficiencies. Join us as we discuss initiatives, ideas and opportunities in one of Newfoundland & Labrador's most important sectors.

#### Session Chair:



**Keith Drover**  
Growler Energy

### Buildings and Urban Planning

#### Panelists:



**Sharon Cave**  
Canada Green Building  
Council member; LEED™  
project coordinator



**Jack Parsons**  
Builder, Net-Zero Homes, K&P  
Contracting



**Michael Philpott**  
Heritage Officer  
NL Heritage Foundation



**Jessica Puddister**  
Municipal Climate Change  
Advisor; Tiny House Advocate

Over half of Newfoundlanders & Labradorians live in metropolitan areas. What changes need to be made to how we plan urban areas and build buildings in order to get to zero emissions by 2050? How do we ensure affordability of housing while increasing energy efficiency? What is the path to decarbonization for commercial, institutional, and heritage buildings? Join us as we discuss these questions and more.

#### Session Chair:



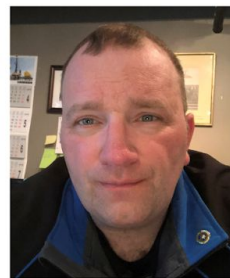
**Maggie Burton**  
City of St. John's  
Councillor at Large

## Electrifying Transportation

### *Panelists:*



**Joe Butler**  
Drive Electric NL



**Chris Gosse**  
Longshoremen's Protective Union (International Longshoremen's Association) Local 1953

### *Session Chair:*



**Dr. Brett Favaro**  
Fisheries and Marine Institute

There are almost 700,000 vehicles registered in Newfoundland and Labrador and nearly all of them burn fossil fuels for energy. Collectively, transportation makes up 32% of NL's greenhouse gas emissions. If it moves, it should be powered by electricity. But how can we get there on a time scale needed to fight climate change? How do we make electrified transportation affordable, accessible, and what barriers are there to doing so?

## Final Session: July 12, 11:00 - 13:00

### **Introducing the Closing Session**

Dr. Brett Favaro, *Conference Chair*

### **Session Chair Report**

Brief remarks to be given by all session chairs

### **Q&A to Follow**

### **Action-Planning and Networking**

### **Closing Remarks**

## Field Trip (13:00 - 18:00)

Following the final session, delegates who have pre-paid for the Fermeuse Wind Trip will collect a bagged lunch (included in field trip registration fee), and depart via chartered bus, from the Signal Hill Campus.

# WIND FARM FIELD TRIP



## PUBLIC LECTURE TO FOLLOW

Wind Energy: Imagine the Power



Nick Mercer, University  
of Waterloo



Delia Warren,  
Iron and Earth East



Stephen Thomas, Ecology  
Action Centre

## IN DA LOOP PUB 'N' RESTAURANT

530-550pm  
[decarbonizenl.ca/registration](http://decarbonizenl.ca/registration)



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## Social Media

Delegates are encouraged to tweet using the hashtag #DecarbonizeNL.

To post questions, ideas, or comments about each session, also add a second hashtag specific to the session as follows:

Panel	Hashtag
Fish and agriculture	#DNLFood
Indigenous-Led Research	#DNLIndigenousResearch
Just Transitions	#DNLJustTransition
Off-grid electricity	#DNLOffGrid
Urban transportation	#DNLUrbanTransport
Climate adaptation/policy	#DNLPolicy
Heavy Industry	#DNLIndustry
Buildings and urban planning	#DNLUrbanPlanning
EV's	#DNLElectrify

**We ask delegates to respect that the Code of Conduct applies to online conduct surrounding the conference as well.** We can't control Internet trolls outside of the event, but we do ask that anyone at the conference behave on social media in a respectful manner.

**We further ask that you respect the privacy of other delegates** and not attribute comments made in Citizen's Assembly sessions to any one delegate. This is sometimes referred to as "Chatham House Rules" - you can talk, in general, about what was said, but not quote individuals. **You may quote individuals speaking on panels, or during Q&A sessions.**

## Thank you to our sponsors

### Gold



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### Silver



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Newfoundland and Labrador  
Environmental Industry Association

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