

Sweden Canada Innovation Days 2023 | Energy Panel

DRIVING THE GREEN TRANSITION

Montréal – October 4, 2023

www.business-sweden.se



Agenda

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02 Panelist & Moderator Introductions

03 Panel Logistics

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The event website has the full [Event Program](#) available, being updated with all new updates

Driving the Green Transition

SWEDEN CANADA INNOVATION DAYS 2023

WEDNESDAY, OCTOBER 4TH

8:30 AM - 6:00 PM EST

Montréal, QC, Canada

Concordia University Conference Centre
John Molson Building - 9th Floor
1600 Boul. de Maisonneuve Ouest

WEBSITE & REGISTRATION

Visit the landing page for more details and updates!

ENERGY • MOBILITY • AI

Join fellow innovators across industry, academia and government from Sweden and Canada for a day of collaboration and networking.

- Keynote Speakers
- Networking
- Panel Discussions

IGNITE POWERED BY SGP

VINNOVA Investissement Québec International

MTL Montréal International in partnership with Canada

Québec Québec

Embassy of Sweden Ottawa

8:30am – 10:30pm: Welcome, opening remarks and keynote speaker

Hear from ambassadors and government representatives of Sweden, Canada and Québec as they warmly welcome you to Sweden Canada Innovation Days 2023.

10:30am – 12:00pm: Collaborative success stories

Industry leaders will take the stage to highlight successful collaborations between Sweden and Canada towards the Green Transition.

12:00pm – 1:00pm: Lunch

A buffet lunch served on location, allowing an opportunity to mingle with fellow industry stakeholders.

1:00pm – 3:00pm: Panel discussions – Energy and Mobility

Join your peers in one of two breakout sessions to hear from industry leaders in Energy and Mobility on how they're tackling the greatest challenges faced in both Sweden and Canada.

3:30pm – 4:15pm: Funding opportunities and closing remarks

Learn more about the funding opportunities in Sweden and Canada and listen in on the key takeaways from the event during the concluding remarks.

4:30pm – 6:00pm: Joint networking reception

Cap an exciting day of collaboration with a networking reception, where you will have the opportunity to connect with other industry leaders and discuss insights from the event.

We have a diverse panel of 9 experts from both Canada and Sweden participating in the Energy panel



Edward Murray

Chief Executive Officer



Lars Hansson

Chief Executive Officer & Founder



Ted Gruetzner

VP, National Practice Lead, Energy, Environment & Resources



Jean-Simon Venne

Chief Technology Officer & Co-Founder



Marie Lapointe

Chief Executive Officer



Isabel Cyr

Director of Public and Government Affairs



Christopher Ralph

Manager, Energy Infrastructure & Sustainable Mobility



Jean-Nicolas Paquin

VP, Electrical Engineering & Expertise



Michel Cousineau

Chief Technology Officer



Moderator: Archit Dhir

Director, Foreign Direct Investment – the Nordics



Gillian Holcroft

Chief Executive Officer & Co-Founder



The draft challenge statements have been continuously adapted to encompass the key areas of expertise of all panelists – to be finalized with your input today

Grid Modernization & Energy Optimization

The power grid is at the core of the energy ecosystem. As the global demand for energy rises, it becomes increasingly vital that grid infrastructure is modernized, and energy consumption is optimized to ensure reliability of supply. What key gaps in grid infrastructure should be addressed to ensure grid stability and facilitate wide-scale integration of renewable resources? What smart solutions can be leveraged to manage grid usage efficiently to optimize supply?

Decarbonization & Resource Efficiency

Every stage of the energy value chain has a pivotal role to play in achieving decarbonization – from the way energy is sourced to the way its used. The energy, industrial and transportation industries create some of the largest carbon emissions globally. Where do we see the greatest need to minimize emissions and maximize resource efficiency? How can we incentivize industries to adopt these processes at a large enough scale to create real impact?

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The challenge statement will present a ‘jumping off point’ for the discussion, but you will have the freedom to take your response in the direction you want

 **CHALLENGE STATEMENT**

Sets the stage with a sector wide challenge.

 **RESPONSE**

Discuss why this challenge needs to be addressed and where you fit in.

How does our solution address the above challenge in the energy sector?

What obstacles do we face in implementing this solution?

What do we see as necessary priorities to overcome these obstacles?

 **DISCUSSION**

Comment on each others' responses and take questions from the audience.

This is where you can make it your own and discuss what you see as major roadblocks or untapped opportunities within your space.

This is an opportunity to build off each other's responses, debate, brainstorm and ideate.



Sweden Canada Innovation Days 2023 Venue & Logistics for Energy Panel Participants

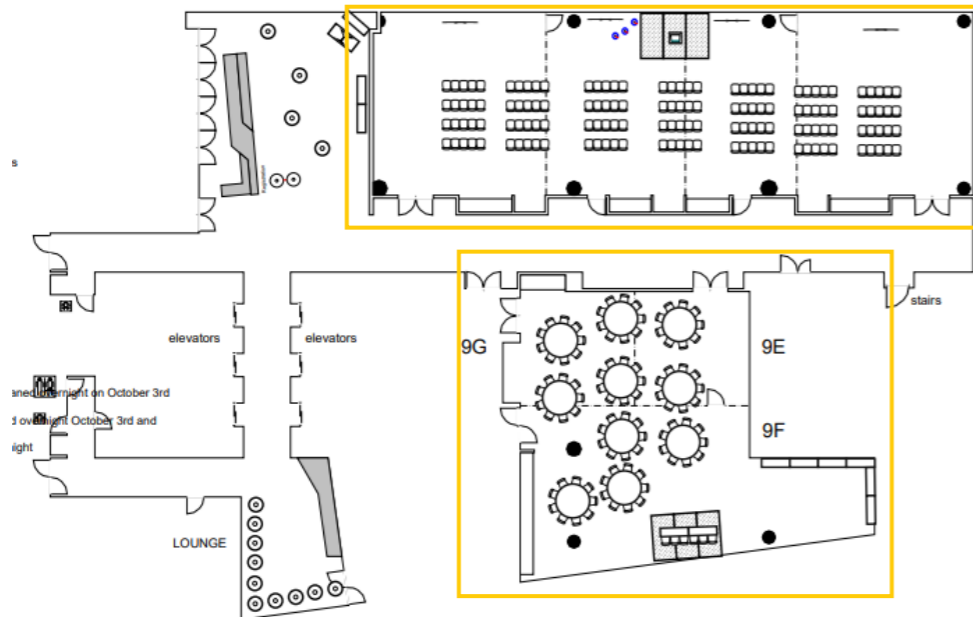
Panels Sweden Canada Innovation Days 2023

Concept | Led by a moderator, panelists speak to provide varied perspectives on pre-identified challenge statements, followed by Q&A with audience via Mentimeter

Participating | 40-60 conference delegates (approximate) are expected to be observing the Mobility panel discussion

Time | 45 minutes - 1 hour per challenge statement

Space | One of the below rooms (highlighted yellow)



Mining Panel, Sweden Canada Innovation Days 2022

Development and adoption of new technologies to address mining challenges at depth

- How are safety and seismicity affecting the technologies being explored? Conversely, how do some of these new technologies address safety and seismicity challenges?
- How does novel mining methods and alternative mining techniques play a role in addressing safety and seismicity at depth?



Sweden Canada Innovation Days 2023 Venue & Logistics for Energy Panel Participants

1:00pm – 2:00pm EST Decarbonization & Resource Efficiency



1:00pm-1:15pm Brief panellist introductions [2-3 min each, no slides]
• Name, title, company
• Company focus and sector(s)
• Relevant experience in energy sector

1:15pm-1:25pm Challenge statement posed – initial round of discussions from panelists
• Moderator [Archit] will pose the challenge statement
• Speakers will each have the opportunity to respond to the statement before discussion ensues

1:25pm-1:50pm Expert panel commentary and discussion led by Moderator [Archit]
• Discussion among panelists

1:45pm-2:00pm Audience Q&A

2:00pm – 3:00pm EST Grid Modernization & Energy Optimization



2:00pm-2:15pm Brief panellist introductions [2-3 min each, no slides]
• Name, title, company
• Company focus and sector(s)
• Relevant experience in energy sector

2:15pm-2:25pm Challenge statement posed – initial round of discussion from panelists
• Moderator [Archit] will pose the challenge statement
• Speakers will each have the opportunity to respond to the statement before discussion ensues

2:25pm-2:50pm Expert panel commentary and discussion led by Moderator [Archit]
• Discussion among panelists

2:45pm-3:00pm Audience Q&A

**Note that time periods of each portion within the hour (1pm-2pm, 2pm-3pm) are rough estimates.*



SCID2023 | Energy Panel

Panelist Profiles



CHRISTOPHER RALPH
 Manager, Energy Infrastructure & Sustainable Mobility
[LION ELECTRIC](#)

Areas of expertise: V2X (Vehicle to everything), V2G (Vehicle to Grid), renewable sources for EVs, energy conservation

Challenge: Grid Modernization & Energy Optimization



LARS HANSSON
 CEO & Founder
[NRLYZE](#)

Areas of expertise: Energy management system for buildings, demand-side management,

Challenge: Grid Modernization & Energy Optimization



EDWARD MURRAY
 CEO
[GREENIRON](#)

Areas of expertise: CO2- free iron making process using waste from mining, metals and manufacturing industries, energy mix

Challenge: Decarbonization & Resource Efficiency



MARIE LAPOINTE
 CEO & President
[AIEQ](#)

Areas of expertise: Evolution of electrification in Quebec, decarbonization in heavy industries, green steel

Challenge: Decarbonization & Resource Efficiency



ISABEL CYR
 Government Relations & Public Affairs Director
[LITHION TECHNOLOGIES](#)

Areas of expertise: Recycling lithium-ion batteries, regulatory framework of Net-Zero, energy mix, circularity

Challenge: Decarbonization & Resource Efficiency



MICHEL COUSINEAU
 Chief Technology Officer
[EVLO](#)

Areas of expertise: Energy storage solutions for grid stability and energy optimization

Challenge: Grid Modernization & Energy Optimization



JEAN-NICOLAS PAQUIN
 VP, Electrical Engineering & Expertise
[OPAL-RT](#)

Areas of expertise: Simulation technologies for grid stability, interconnection queues, PHIL and Digital Twins

Challenge: Grid Modernization & Energy Optimization



TED GRUETZNER
 VP, Energy, Environment and Resources
[GLOBAL PUBLIC AFFAIRS](#)

Areas of expertise: Indigenous relations management, risks & opportunities in policy & regulatory frameworks

Challenge: Decarbonization & Resource Efficiency



JEAN-SIMON VENNE
 CTO & Co-Founder
[BRAINBOX AI](#)

Areas of expertise: Energy management system for buildings, AI smart grid management

Challenge: Grid Modernization & Energy Optimization



GILLIAN HOLCROFT
 CEO
[GREEN GRAPHITE TECHNOLOGIES](#)

Areas of expertise: Green graphite production for EV batteries, energy consumption reduction in mining processes

Challenge: Decarbonization & Resource Efficiency

GDECARBONIZATION & RESOURCE EFFICIENCY

Every stage of the energy value chain has a pivotal role to play in achieving decarbonization – from the way energy is sourced to the way its used. The energy, industrial and transportation industries create some of the largest carbon emissions globally. Where do we see the greatest need to minimize emissions and maximize resource efficiency? How can we incentivize industries to adopt these processes at a large enough scale to create real impact?



GRID MODERNIZATION & ENERGY OPTIMIZATION

The power grid is at the core of the energy ecosystem. As the global demand for energy rises, it becomes increasingly vital that grid infrastructure is modernized, and grid usage is optimized to ensure efficient consumption and reliability of supply. What key gaps in grid infrastructure should be addressed to ensure grid stability and facilitate wide-scale integration of renewable resources? What smart solutions can be leveraged to manage grid usage efficiently to optimize supply?



Sweden Canada Innovation Days 2023 | Event overview

DRIVING THE GREEN TRANSITION

Montréal – October 3-5, 2023



Program for Sweden Canada Innovation Days 2023

Montréal – October 3-5, 2023

Date Venue	Tuesday October 3 Multiple venues	Wednesday October 4 Venue: Concordia University John Molson Building, 9 th floor	Thursday October 5 Venue: Hyatt Centric Ville-Marie 621 Notre Dame Est
8:30-9:00	Discovery Tour – all day Organized by SISP	Registration and coffee	Matchmaking** Organized by Ignite
9:00-10:15		Opening remarks by government representatives of Sweden, Canada and Québec	Matchmaking** Organized by Ignite
10:15-10:30		Coffee break	Coffee break
10:30-12:00		Swedish Canadian Success Stories Introduction of Swedish start-ups	Matchmaking** Organized by Ignite
12:00-13:00		Networking lunch	Lunch
13:00-15:00		Energy Breakout session	Mobility Breakout session
15:00-15:30		Coffee break	
15:30-15:50		Energy and mobility – challenge statement summary	
15:50-16:30		Funding opportunities Closing remarks	
16:30-18:00	VIP dinner* (18:00 – 21:00)	Joint networking reception	

*By exclusive invitation **Matchmaking between pre-selected Canadian corporates and Swedish startups

The event website has a preliminary event program, which will be updated as we confirm various details

Driving the Green Transition

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- Panel Discussions

IGNITE POWERED BY S&P

VINNOVA

Investissement Québec International

MTL Montréal International in partnership with Canada

Québec

Embassy of Sweden Ottawa

8:30am – 12:00pm: Welcome and keynote speakers

Opening remarks by government representatives of Sweden, Canada and Québec, keynote speakers and industry leaders highlighting successful collaborations between Sweden and Canada towards the Green Transition.

12:00pm – 1:00pm: Lunch

A buffet lunch served on location, allowing an opportunity to mingle with fellow industry stakeholders.

1:00pm – 3:00pm: Panel discussions – Energy and Mobility

Join your peers in one of two breakout sessions to hear from industry leaders in Energy and Mobility on how they're tackling the greatest challenges faced in both Sweden and Canada.

3:30pm – 4:30pm: Energy & Mobility challenge statement summary, Funding opportunities and closing remarks

Catch-up on what you might have missed in the other panel, learn more about the funding opportunities in Sweden and Canada and listen in on the key takeaways from the event during the concluding remarks.

4:30pm – 6:00pm: Joint networking reception

Cap an exciting day of collaboration with a networking reception, where you will have the opportunity to connect with other industry leaders and discuss insights from the event.

We have a great network of organizations supporting this event as sponsors and collaborative partners

Event Sponsor



VINNOVA

VIP Dinner Sponsors



V O L V O Epiroc

Conference Sponsors



 SAAB ERICSSON  Atlas Copco FASKEN Own tomorrow PREVOST. SYNTRONIC ABB Polestar

Collaborative Partners



  Investissement Québec International MTL INTL Montréal International Québec  In partnership with Canada  Mentimeter

What are the most relevant challenges to discuss within the mobility sector in Canada, Québec and Sweden?

PROPOSED CHALLENGE STATEMENTS

Development of EV Charging in the next 3-5 years

- The robustness, reliability, and calculation of cost in electric vehicle charging are most common criticisms of EV charging infrastructure. How can these challenges be addressed in the next 3-5 years?

Electrifying Mass Transit and Fleets


- Though the cost of electric vehicle systems has been falling and is expected to decrease, many Canadian mass transit systems currently rely on diesel, less than one per cent of all rail tracks are electric, and few electric commercial fleets systems have been adopted en masse.
- What can be done to drive the adoption of electric fleet systems in Canada? What are opportunities for conversion, retrofit, and recreation of mass transit and commercial fleets to fit an electric future?



We have a diverse panel of experts from both Canada and Sweden participating in the Mobility panel




Emmanuelle Toussaint 
VP, Commercialization
cléo
by Hydro-Québec





Karin Ebbinghaus 
Chief Executive Officer
ELONROAD®





Jérôme Cantin 
Lead Legal Counsel and
Public Affairs
PREVOST




Sarah Beaumier 
Head of Marketing Canada
Polestar



Benoit Marcoux 
President of the Selection
Committee
aiEQ
ASSOCIATION DE
L'INDUSTRIE ELECTRIQUE
DU QUEBEC



John Ieraci 
President E-Mobility Canada
ABB




Michael Harboui 
National Mobility Segment
Leader
Schneider
Electric




Vanessa Fiore 
Project Manager, Sustainable
Mobility & Electrification
LION ELECTRIC



Gyöző Gidofalvi 
Chief Executive Officer &
Co-Founder
GORDIAN
Intelligence
for Transport
Electrification



Moderator: Cédric Lalaizon 
Director, Innovation & Experimentation
propulsion
Québec

What are the most relevant challenges to discuss within the energy sector in Canada, Québec and Sweden?

PROPOSED CHALLENGE STATEMENTS

Grid modernization & Energy Efficiency


- The power grid is at the core of the energy ecosystem. As the global demand for energy rises, it becomes increasingly vital that grid infrastructure is modernized, and energy consumption is optimized to ensure reliability of supply. What key gaps in grid infrastructure should be addressed to ensure grid stability and facilitate wide scale integration of renewable resources? What smart solutions can be leveraged to manage grid usage efficiently to optimize supply?


Decarbonization & Circularity


- Every stage of the energy value chain has a pivotal role to play in achieving decarbonization –from the way energy is sourced to the way its used. The energy, industrial and transportation industries create some of the largest carbon emissions globally. Where do we see the greatest need to minimize emissions and maximize resource efficiency? How can we incentivize industries to adopt these processes at a large enough scale to create real impact?





We have a diverse panel of (6+) experts from both Canada and Sweden participating in the Energy panel




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Chief Executive Officer
GREENIRON




Lars Hansson 
Chief Executive Officer & Founder
NRLZE





Ted Gruetzner 
VP, National Practice Lead,
Energy, Environment & Resources
GLOBAL PUBLIC AFFAIRS
FROM INSIGHT TO IMPACT




Jean-Simon Venne 
Chief Technology Officer & Co-Founder
BRAINBOX AI



Marie Lapointe 
Chief Executive Officer
aiEQ
ASSOCIATION DE L'INDUSTRIE ELECTRIQUE DU QUÉBEC




Isabel Cyr 
Director of Public and Government Affairs
Lithion





Christopher Ralph 
Manager, Energy Infrastructure & Sustainable Mobility
LION ELECTRIC




Jean-Nicolas Paquin 
VP, Electrical Engineering & Expertise
OPAL-RT TECHNOLOGIES



Michel Cousineau 
Chief Technology Officer
EVLO^{MC}
par Hydro-Québec



Moderator: Archit Dhir 
Director, Foreign Direct Investment – the Nordics
Investissement Québec International



Gillian Holcroft 
Chief Executive Officer
Green Graphite TECHNOLOGIES

As of now, 250+ invitations has been sent out to companies and organizations in Sweden and Canada

EXAMPLE SWEDISH ORGANIZATIONS



EXAMPLE CANADIAN ORGANIZATIONS



As of now, 139 attendees have registered interest to attend representing 70+ Swedish and Canadian companies and organizations

Sweden

- ABB
- Atlas Copco
- Algoryx Simulation
- Business Sweden
- Canadian Embassy
- Elonroad
- Epiroc
- Ericsson
- Flasheye
- Gordian Logistics Optimization Systems
- Greeniron
- Ignite Sweden
- Lumber Tech Sweden AB
- Mentimeter
- Nordic Renew Resource AB
- Nrlyze AB
- Polestar
- RISE
- Rocksigma
- Saab
- Sentian AI
- Stint
- Swedish Mining Innovation
- Swedish-Canadian Chamber of Commerce
- Swedish Embassy
- Vinnova
- Volvo Group

Canada

- AIEQ
- Arup Canada Inc.
- BrainBox AI
- Biotherma Technologies Inc.
- Canadian Embassy
- Centech
- Centennial College
- Champion Iron
- Charbone Hydrogen
- Cléo
- Concordia University
- Couche-tard
- DLA Piper
- Durand Lex
- ELITS
- Export Development Canada
- Fasken
- Global Affairs Canada
- Global Public Affairs
- Green Graphite Technologies
- HEC Montreal
- Hydro-Québec
- InnovÉE
- Invest in Canada
- Invest Québec
- IVADO
- Kingston Process Metallurgy Inc.
- Laserax
- Lion Electric
- Mitacs
- Montréal International
- Nano One
- Niagara College
- NRC
- Opal-RT
- OPTEL Group
- Propulsion Quebec
- Québec Government
- Québec Ministry of Economy, Innovation and Energy
- Roctest Ltd.
- Schneider Electric Canada
- Service intégré du bois
- Sheerbrooke- Innopole
- SimWell Consulting & Technologies Inc.
- Syntronic
- Zone d'innovation de la Vallée de la transition énergétique