

MaRS CLIMATE IMPACT

NOV. 30 - DEC. 1, 2022

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Program

November 30

December 01

9:00

Registration and pre-opening networking

Get your badge and join attendees for pre-conference networking over coffee.

9:30

Welcome to MaRS Climate Impact

Welcome to MaRS Climate Impact, what to expect, and a special announcement.



Yung Wu
MaRS Discovery District



Shafiq Vallani
TELUS Pollinator Fund for Good



Tyler Hamilton
MaRS Discovery District

9:40

Fireside Chat with Jessica Green

Jessica Green was among 400 Canadian climate scientists who called for the government to scrap a proposed tax credit for carbon capture earlier this year, claiming it would underwrite the oil and gas industry. The outspoken University of Toronto political scientist and environment professor sits down with CBC presenter Manjula Selvarajah to discuss her research into climate policy and the impact of carbon pricing.



Jessica Green
University of Toronto



Manjula Selvarajah
Tech Journalist

10:05

Make it a mission: Targeted approaches to accelerate cleantech adoption

Climate innovation in Canada may be at an all-time high, yet getting those innovations commercialized and scaled in the marketplace has proven challenging and complex. Creating bold but realistic missions that are time-sensitive, open to new perspectives, and collaborative across industry, civil society and government is an effective approach to overcoming pilot purgatory. This panel provides concrete examples of how MaRS, its partners and others in the ecosystem are leveraging a mission mindset to raise the bar on climate tech adoption.



Jo-Anne St. Godard
Circular Innovation Council



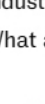
Nicholas Parker
Clean Earth Acquisition



Daniel Resnick
KPMG



Jan De Silva
Toronto Region Board of Trade

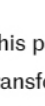


Adria Vaail
Corporate Knights

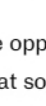
10:45

How I did it: Lessons learned on the journey to scale

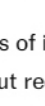
When it comes to the challenges of developing and scaling commercial cleantech innovations, there's much to learn from those that are further along in this journey. This panel of Canadian entrepreneurs share their experiences and offer wisdom for those following in their path.



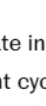
Sue Rauth
Ontario Regional Office, Trade Commissioner Service, Global Affairs Canada



Curtis VanWallinghem
Hydrostor



Stuart Lombard
ecobee



Luna Yu
Genecis Bioindustries



Joshua Wong
Opus One Solutions



Susan Rohao
BDC Capital

11:35

Fighting waste: Circularity in food and fashion

The world has the power to reduce emissions using sustainable materials produced with the circular economy in mind. This panel will explore solutions developed by several entrepreneurs that target the fashion and packaging industries. How does technology help enable a circular economy? Can food waste be transformed into fashion? What are the major obstacles? How do you convince consumers to adopt sustainable materials?



Myra Arshad
ALT TEX



Stephanie Lipp
Mycofutures North Atlantic



Kayli Dale
Friendlier



Tobit Mueller-Glode
TELUS Pollinator Fund for Good



Leah Perry
MaRS Discovery District

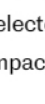
12:05

Lunch

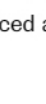
12:30

Frontier funders: Investing in radical climate innovation

This panel session explores the opportunities and challenges of investing in radical climate innovation: transformative technologies that solve climate challenges but require longer development cycles, greater risk, larger investment and new infrastructure. What does it take for disruptive "hard" tech to get adopted? Why is investment in cleantech still dwarfed by sectors like financial software? What moonshot climate ideas are investors most excited about?



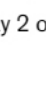
Amy Duffner
Evok Ventures



Shafiq Vallani
TELUS Pollinator Fund for Good



Alicia Lenia
Chrysalix Venture Capital



Zoltan Tompa
BDC Capital

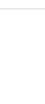


Shirley Speakman
Cycle Capital

1:05

Venture Pitch Challenge: Seed stage companies

Five seed stage ventures pitch their cleantech solutions to a jury of four leading investors and ecosystem partners. The winner will be announced at the cocktail reception and awards ceremony on Day 2 of MaRS Climate Impact.



Jason Blumberg
Energy Foundry



Nabeela Merchant
TELUS Pollinator Fund



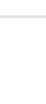
Alison Crumblehulme
Innovation Guelph



Kathryn Wortsman
Amplify Capital



Kayli Dale
Friendlier



Xavier Hebert-Couturier
Picketta Systems



Bolis Ibrahim
Argentum



Sahar Sam
Solaires



Myra Arshad
ALT TEX



Leah Perry
MaRS Discovery District

2:05

Heated debate: Is net zero at risk of getting cancelled?

Are carbon offsets good for climate action or just a licence to greenwash? Is direct-air carbon capture necessary to achieve net-zero or a distraction we can't afford? Is hydrogen the path to decarbonizing heavy industry or a thermodynamic dead end? The path to net-zero was certainly not built on consensus. Indeed, even the term "net-zero" has come under fire, with some climate scientists calling it a deadly trap. In this session, two opposing teams dig deep in what's expected to be a high-energy and entertaining debate. Who will emerge victorious?



Tom Rand
Arctern Ventures



Dianne Saxe
Toronto



Chris Turner



Toby Heaps
Corporate Knights

2:50

Networking break

3:00

Venture Pitch Challenge: Series A companies

Five series A ventures pitch their cleantech solutions to a jury of four leading investors and ecosystem partners. The selected winner will be announced at the cocktail reception and awards ceremony on Day 2 of MaRS Climate Impact.



Nelson Switzer
Climate Innovation Capital



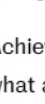
Jane Kearns
Evok Innovations



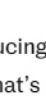
Michael D'Aurizio
HSBC Asset Management



Peter McArthur
RBCx



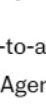
Tyler Hamilton
MaRS Discovery District



Robert Napoli
Cascadia Seaweed



Robert Alexander
AlumaPower



Daniela Roeper
Borealis Wind



Kostyantyn Khatunov
GBatteries



Dustin Angelo
Novamera

4:00

Day 1 conclusion

Congratulations wraps for the day.

November 30

December 01

9:30

Welcome to day two of MaRS Climate Impact

Welcome and what to expect on day two of MaRS Climate Impact.

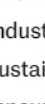


Krista Jones
MaRS Discovery District

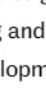
9:35

Fireside Chat with The Honourable Rosa Galvez

Following the money is usually a sound strategy. But in Senator Rosa Galvez's case, she's hoping to lead with it. The outspoken senator is championing a bill that would force the financial sector — which she calls the "elephant in the room" on climate change — to align its activities with Canada's net-zero goals. Hear her views on why this is a crucial step in accelerating the orderly transition to a clean economy.



Rosa Galvez
Senate of Canada

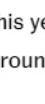


Manjula Selvarajah
Tech Journalist

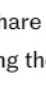
9:55

The heat is on: How heavy industry can decarbonize

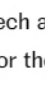
Heavy industry manufactures products that are at the core of modern living. It is also responsible for nearly 40 percent of global GHG emissions, with steel, cement and chemicals as the highest emitting and most difficult to decarbonize industries. All require tremendous amounts of high heat, rely on long-life assets, are exposed to trade risks and must battle thin profit margins. Is electrification an option? Are renewables a realistic path forward? Do solutions already exist or do we lack the innovations needed to move forward? On this panel, we hear about current and potential future solutions to decarbonize heavy industry.



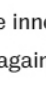
Marie Glenn
CRH, PLC



Catherine Cobden
Canadian Steel Producers Association



Felix Whittom
Clean Energy Canada



Dan Wicklum
The Transition Accelerator



Sarah Petrevan
Cement Association of Canada

10:35

Climate visionaries answer "What if?"

A fun and fast-paced session where panelists answer a series of thought-provoking "What if?" questions within a specified time. What if carbon was priced at \$300 a tonne tomorrow? What if commercial and economic nuclear fusion is possible by 2030? What if the price of oil falls to \$10 a barrel in 2023? The audience votes for the best answer to each question. The panelist with the most votes wins!



Marcius Extavour
XPRIZE



Jane Kearns
Evok Innovations



Graeme Millen
Silicon Valley Bank



Phil De Luna
McKinsey & Company

11:15

Trap it, zap it, transform it: Ways to suck carbon out of the sky

Achieving net-zero means reducing emissions as much as possible, but what about hard-to-abate emissions? And what about all of the carbon that's already in our atmosphere? The International Energy Agency is clear on the matter: carbon dioxide removal (CDR) technologies will be needed to meet any 1.5-degree scenario. In this panel, we'll explore different approaches to CDR, discuss their importance, and the challenges and solutions to scaling.



Mike Kelland
Planetary



Michael Torrance
Bank of Montreal



Anna Stukas
Carbon Engineering



Paul Needham
Carbin Minerals



Phil De Luna
McKinsey & Company

11:55

Feeding the world without destroying it

Conventional approaches to growing, processing and packaging food are contributing to the climate crisis, which ironically is putting global food security at risk. This panel explores various solutions that will help ensure future generations are fed including:

- Nectar, a venture that is protecting our ag industry and ensuring future crop yields by helping bee populations.
- Entomo, which develops a sustainable cricket-based protein.
- Opalia, a startup developing sustainable dairy.

Marco-André Roberge
Nectar

Kelly Hagen
Entomo Farms

Jennifer Côté
Opalia

Yuan Shi
The51 Food and AgTech Fund

Marco Chown
Oved

Oved
Toronto Star

12:30

Lunch

1:00

Fireside chat with Vinod Khosla

Legendary Silicon Valley investor Vinod Khosla has a long history of investing in cleantech, most recently Canadian venture Genecis Bioindustries. In this wide-ranging conversation with Tyler Hamilton, director of cleantech at MaRS, the founder of Khosla Ventures explains his approach to investing, why he thinks AI will be a gamechanger for climate, where the next climate unicorns are likely to emerge, and offers advice to the next generation of cleantech entrepreneurs looking to join the climate fight.



Vinod Khosla
Khosla Ventures



Tyler Hamilton
MaRS Discovery District

1:30

Dig deeper: The intersection of zero-emission vehicles and sustainable mining

The rise of zero-emission vehicles gives Canada the unique opportunity to leverage two of the country's strongest industries: auto manufacturing and mineral extraction. In this panel, we'll discuss the economic importance of sustainable mining to the development of an integrated ZEV supply chain in Canada, highlighting sustainable mining innovations leading the way.



Amanda Hall
Summit Nanotech



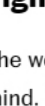
Charles Nyabeze
Centre for Excellence in Mining Innovation



Dustin Angelo
Novamera



Matthew Fortier
The Accelerate Alliance



Liz Lappin
Common Good Mining / Battery Metals Association of Canada

2:05

Balancing tech and nature-based climate solutions

In the follow up to COP27, several participants who attended the global climate conference will share their take on this year's event. They'll also share how they're advancing tech and nature-based climate innovation in Canada and around the world and increasing the pace of preparations for the next stage in the fight against climate change.



Lori Kerr
FinDev Canada



Catherine Abreu
Destination Zero



Dana Tizya
Tramut Gwitchin First Nation



Max Nelki Gopfert
Rainforest Builder



Manjula Selvarajah
Tech Journalist

2:35

Networking break

2:50

Generational shift: Family offices and the pivot to climate investing

A recent study found that 86 percent of high net worth individuals, family offices and foundations believe their capital is crucial to addressing climate change and transitioning to a net-zero economy is the greatest investment opportunity of our time. This wasn't always the case. Environmental causes such as climate change have traditionally been viewed through the exclusive lens of philanthropy, but increasingly family offices see support for sustainable solutions and businesses as smart investing. This panel will explore this shift of family wealth, which represents more than \$5 trillion in assets under management globally.



Stacey Kline
The Good Fund



Joanna Klimczak
CREO



Devika Shah
Environment Funders Canada



Eric In
Dragonfly Ventures



Josée Thibault
MaRS Discovery District

3:25

Space-based technologies for combating climate change

Several innovators share how we can leverage space-based technologies to tackle climate challenges on Earth. Satellite monitoring venture GHGSat, which captured the first direct view of methane leaks from the Nord Stream pipelines, will outline how their technology can be used to track greenhouse gas emissions from heavy industry. 4pi Labs, an early wildfire detection satellite technology, will share how they're helping to manage forest fires. Finally, we hear from an entrepreneur working to harvest solar energy from space.



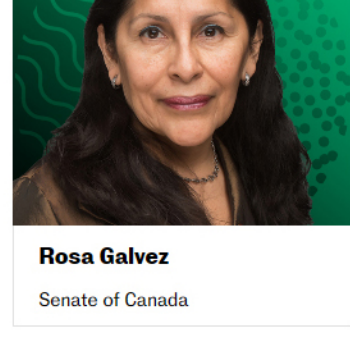
Annie Meier
NASA's Kennedy Space Center



Stéphane Germann
GHGSat

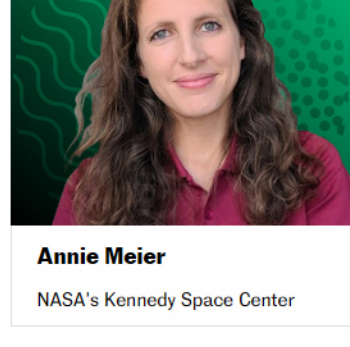


Speakers



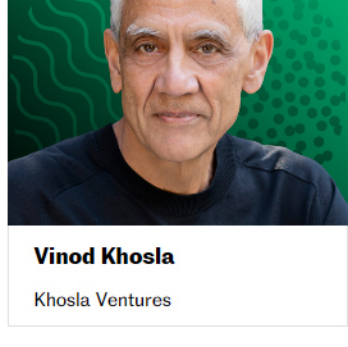
Rosa Galvez

Senate of Canada



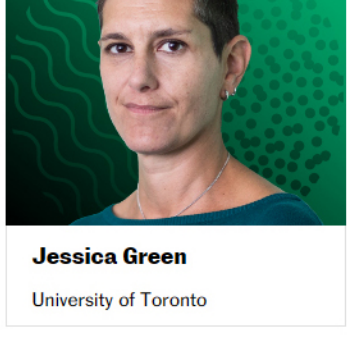
Annie Meier

NASA's Kennedy Space Center



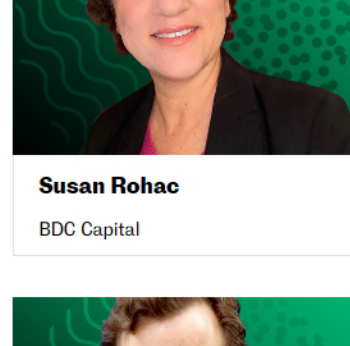
Vinod Khosla

Khosla Ventures



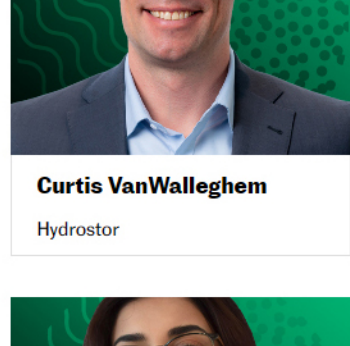
Jessica Green

University of Toronto



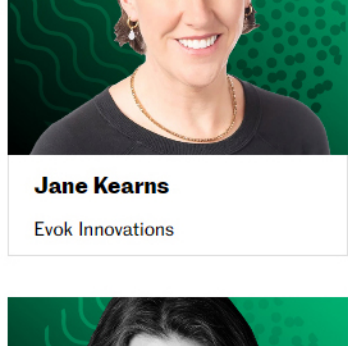
Susan Rohac

BDC Capital



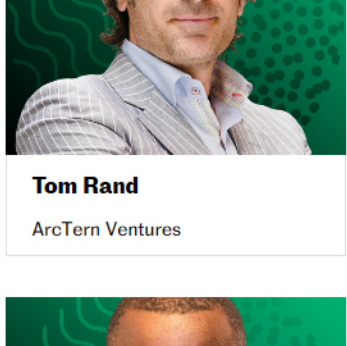
Curtis VanWalleghem

Hydrostor



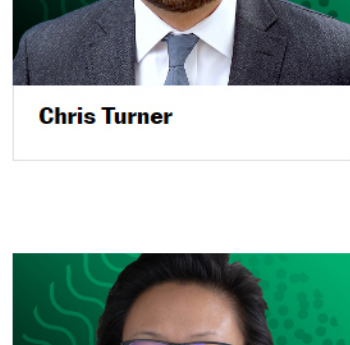
Jane Kearns

Evok Innovations

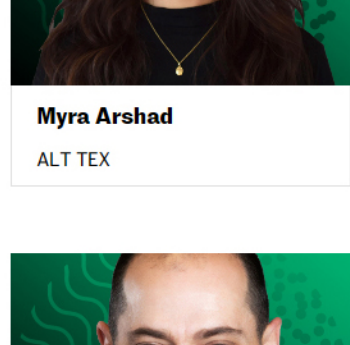


Tom Rand

ArcTern Ventures

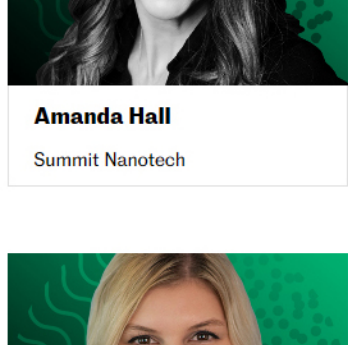


Chris Turner



Myra Arshad

ALT TEX



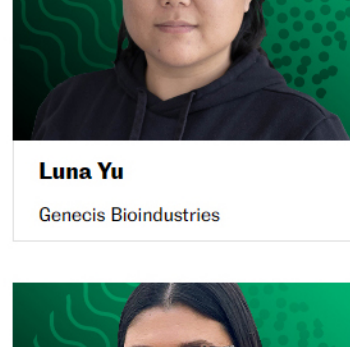
Amanda Hall

Summit Nanotech



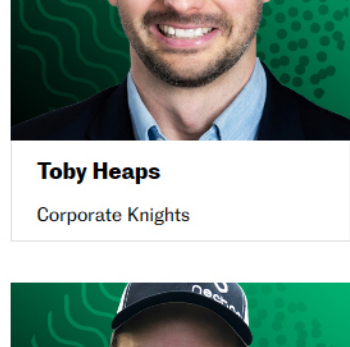
Charles Nyabeze

Centre for Excellence in Mining Innovation



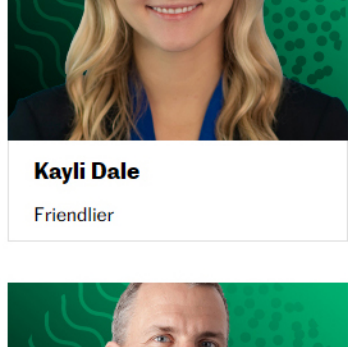
Luna Yu

Genecis Bioindustries



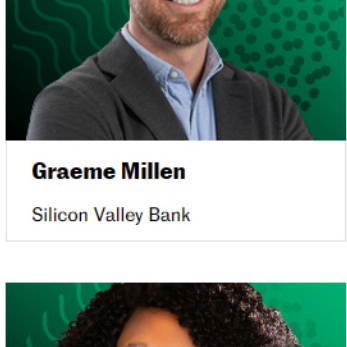
Toby Heaps

Corporate Knights



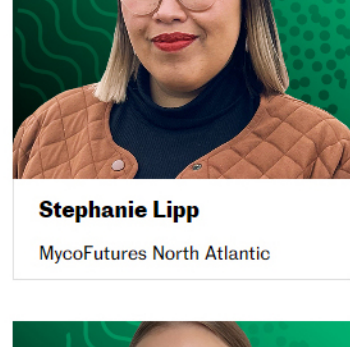
Kayli Dale

Friendlier



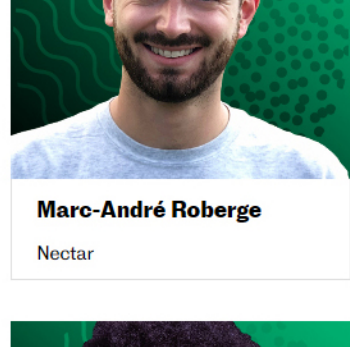
Graeme Millen

Silicon Valley Bank



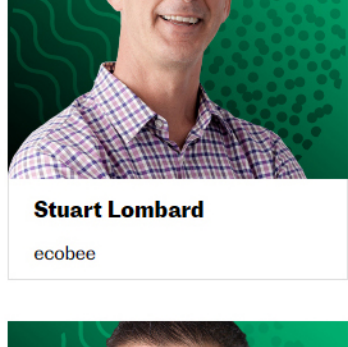
Stephanie Lipp

Mycofutures North Atlantic



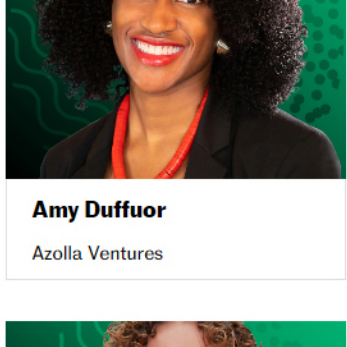
Marc-André Roberge

Nectar



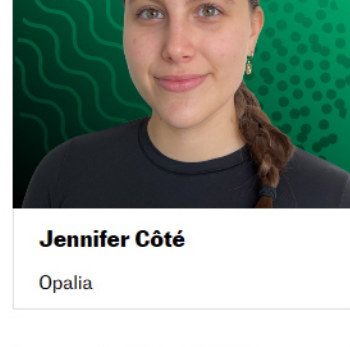
Stuart Lombard

ecobee



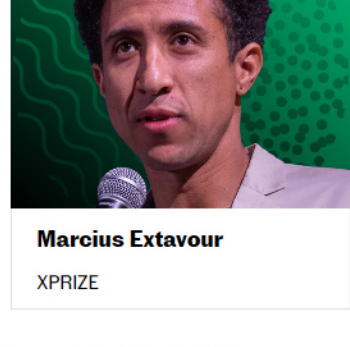
Amy Duffuor

Azolla Ventures



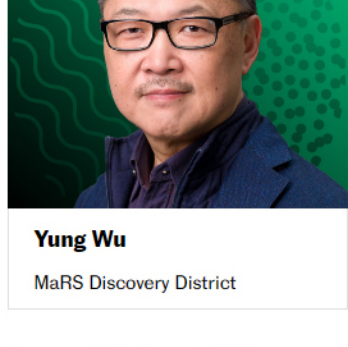
Jennifer Côté

Opalia



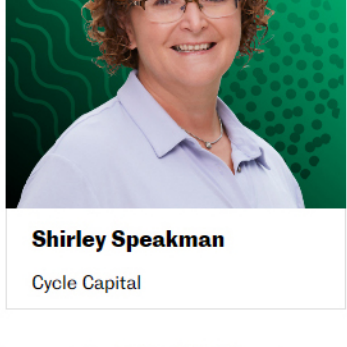
Marcius Extavour

XPRIIZE



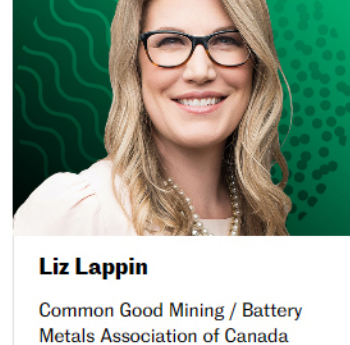
Yung Wu

MaRS Discovery District



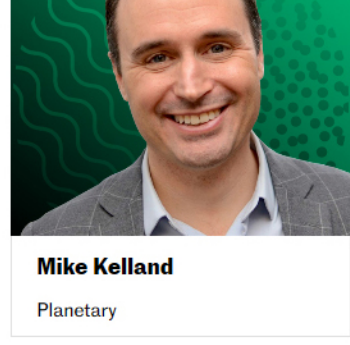
Shirley Speakman

Cycle Capital



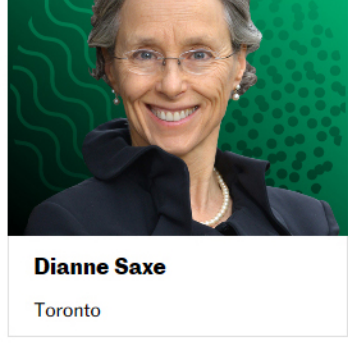
Liz Lappin

Common Good Mining / Battery Metals Association of Canada



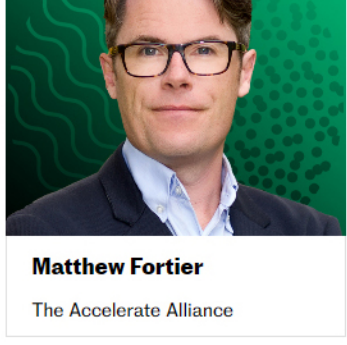
Mike Kelland

Planetary



Dianne Saxe

Toronto



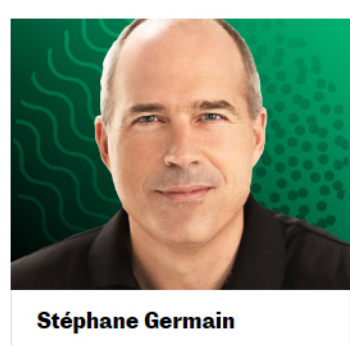
Matthew Fortier

The Accelerate Alliance



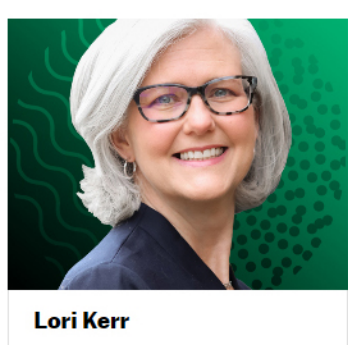
Alison Crumblehulme

Innovation Guelph



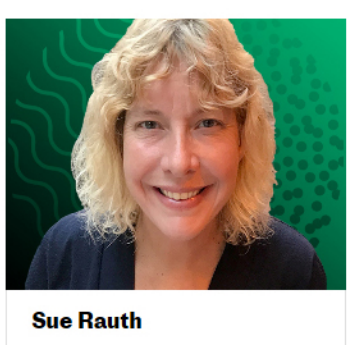
Stéphane Germain

GHGsat



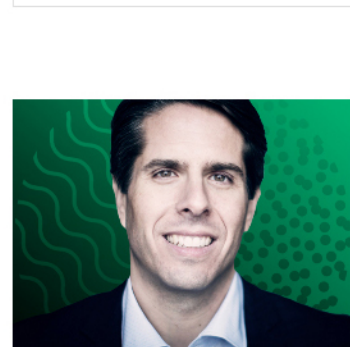
Lori Kerr

FinDev Canada



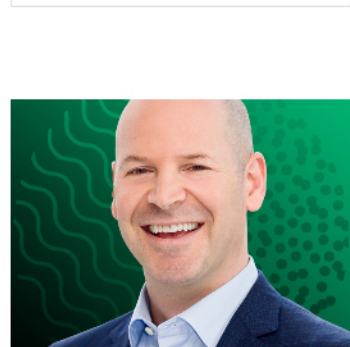
Sue Rauth

Ontario Regional Office, Trade Commissioner Service, Global Affairs Canada



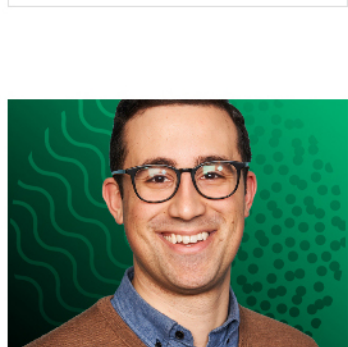
Dustin Angelo

Novamera



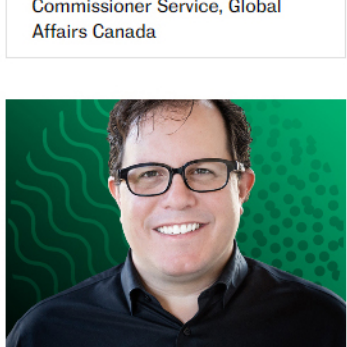
Nelson Switzer

Climate Innovation Capital



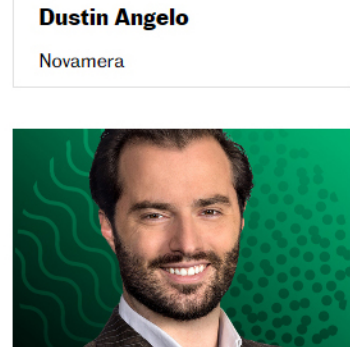
Michael D'Aurizio

HSBC Asset Management



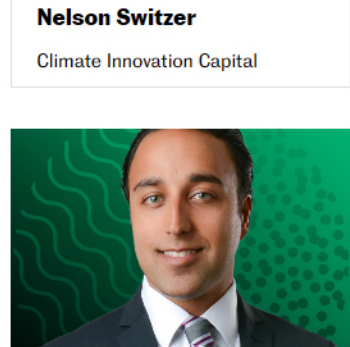
Jason Blumberg

Energy Foundry



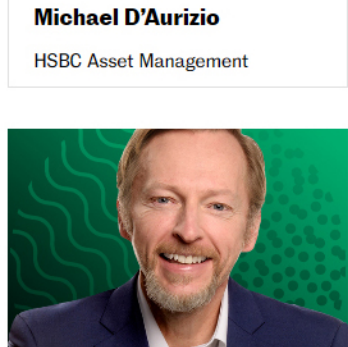
Tobi Mueller-Glodde

TELUS Pollinator Fund for Good



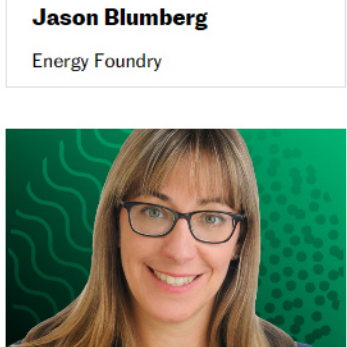
Shafiq Vallani

TELUS Pollinator Fund for Good



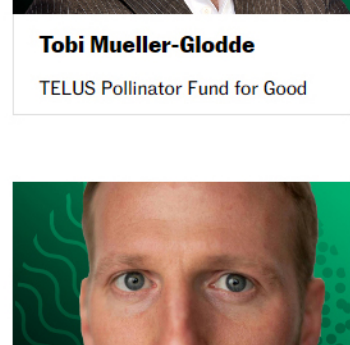
Blair Miller

TELUS Pollinator Fund for Good



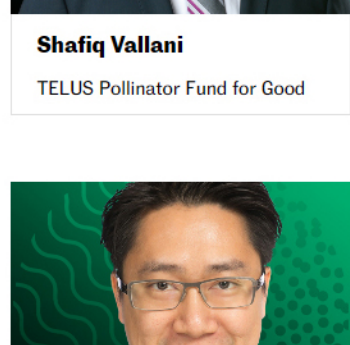
Catherine Cobden

Canadian Steel Producers Association



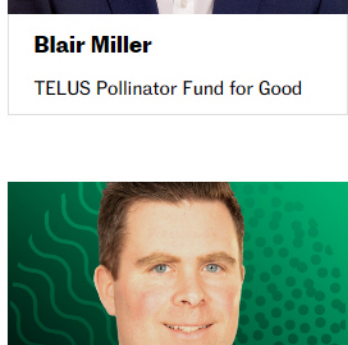
Marco Chown Oved

Toronto Star



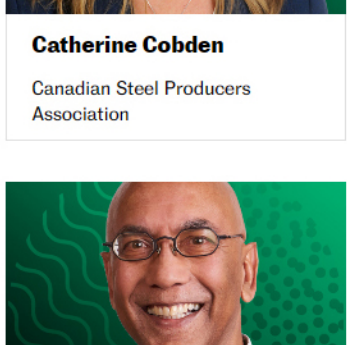
Joshua Wong

Opus One Solutions



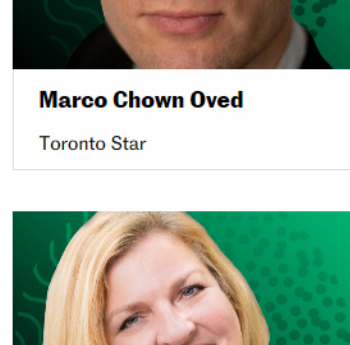
Michael Torrance

Bank of Montreal



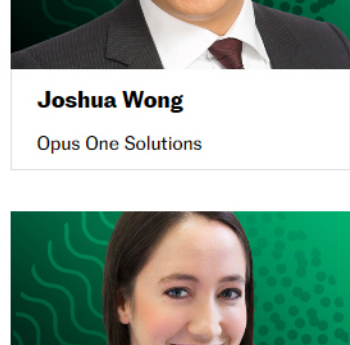
Stephen Achal

4pi Lab



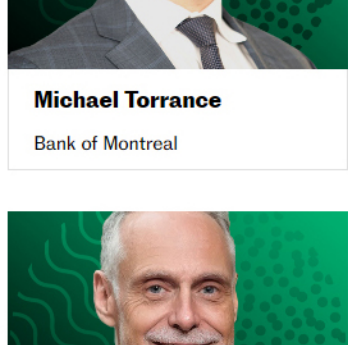
Krista Jones

MaRS Discovery District



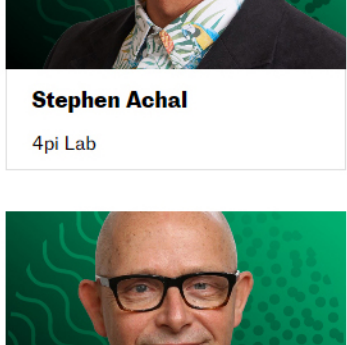
Alicia Lenis

Chrysalis Venture Capital



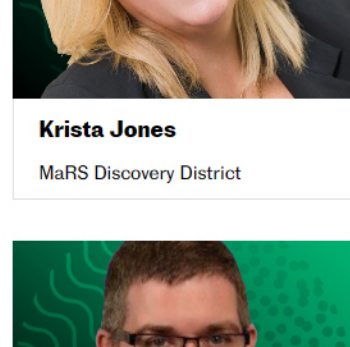
Peter McArthur

RBCx



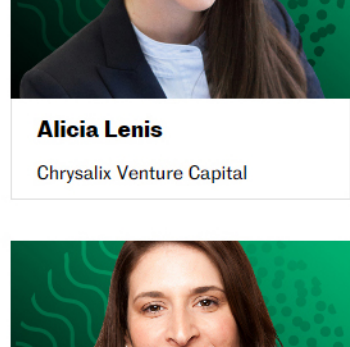
Nicholas Parker

Clean Earth Acquisition



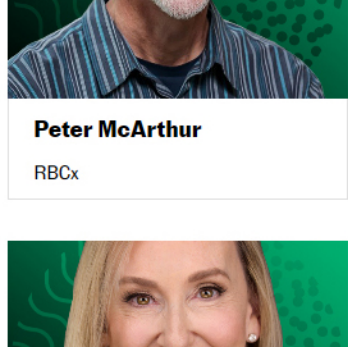
John Bucknell

Virtus Solis Technologies



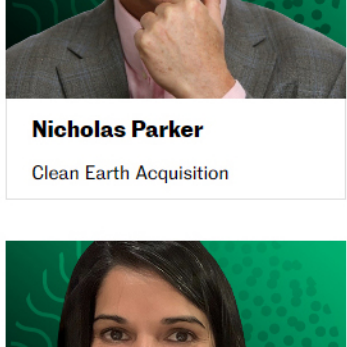
Sarah Petrevan

Cement Association of Canada



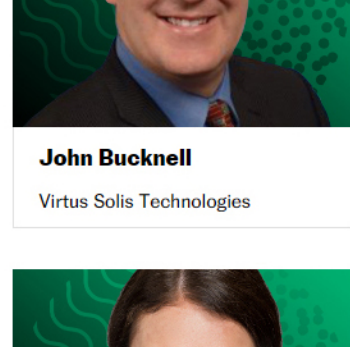
Jan De Silva

Toronto Region Board of Trade



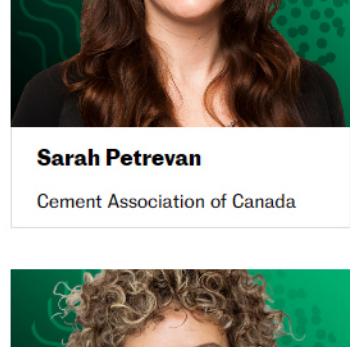
Manjula Selvarajah

Tech Journalist



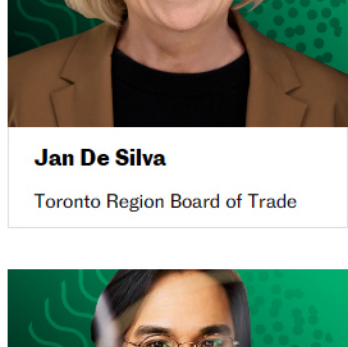
Anna Stukas

Carbon Engineering



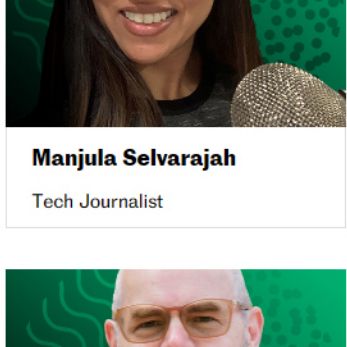
Catherine Abreu

Destination Zero



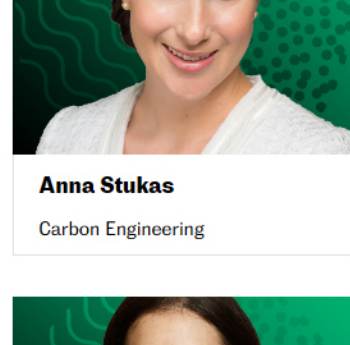
Phil De Luna

McKinsey & Company



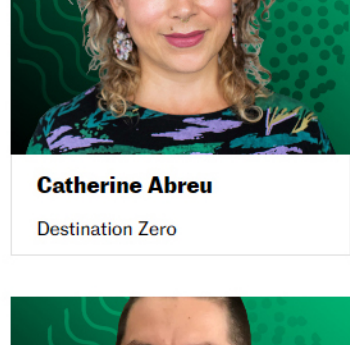
Paul Needham

Carbin Minerals



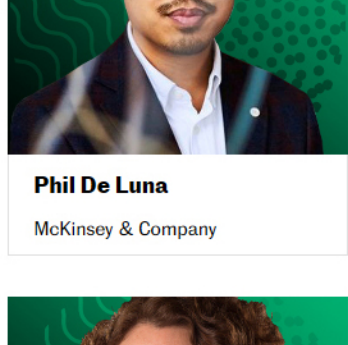
Kathryn Wortsman

Amplify Capital



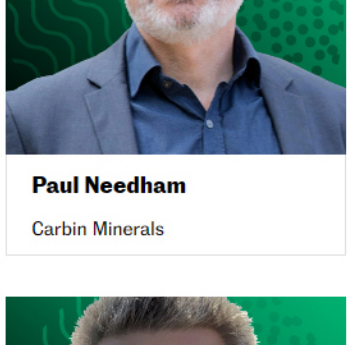
Dana Tizya Tramm

Vuntut Gwitchin First Nation



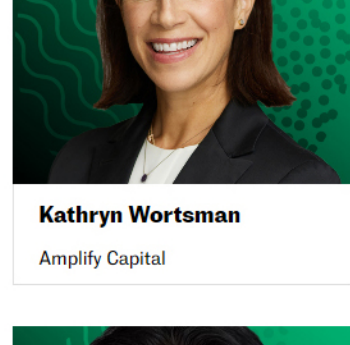
Kelly Hagen

Entomo Farms



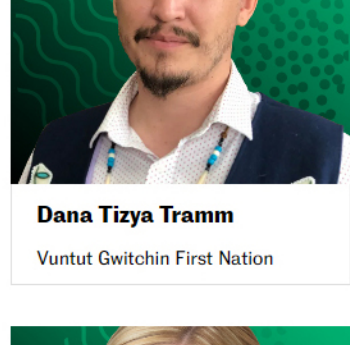
Andrew Collins

Miro Forestry & Timber Products



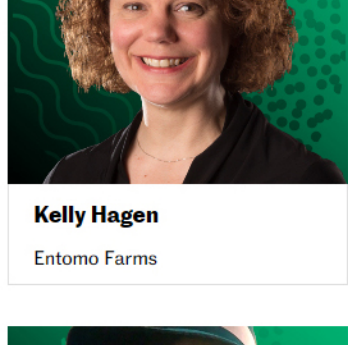
Eric In

Dragonfly Ventures



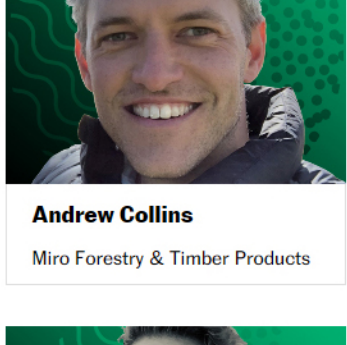
Marie Glenn

CRH, PLC



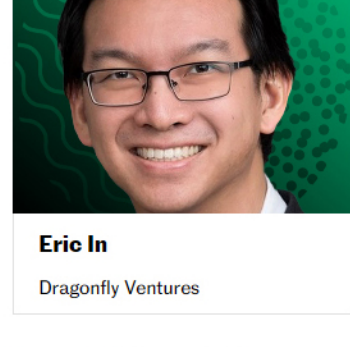
Adria Vasil

Corporate Knights



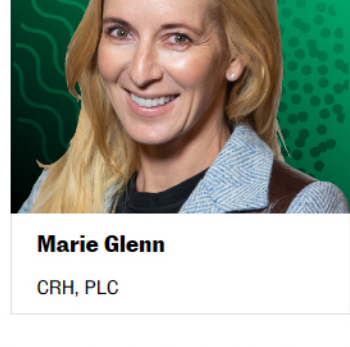
Felix Whitton

Clean Energy Canada



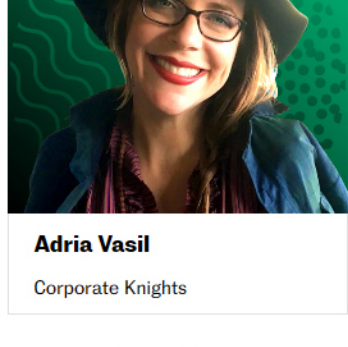
Ka-Hay Law

TELUS Pollinator Fund for Good



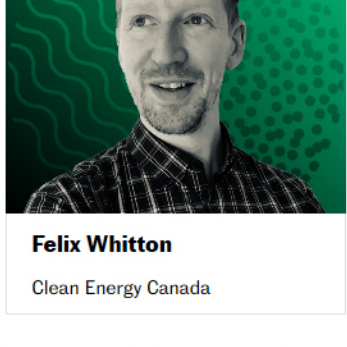
Nabeela Merchant

TELUS Pollinator Fund



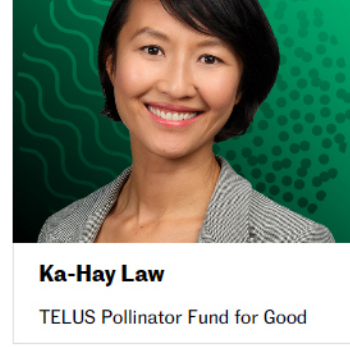
Joanna Klimczak

CRCO



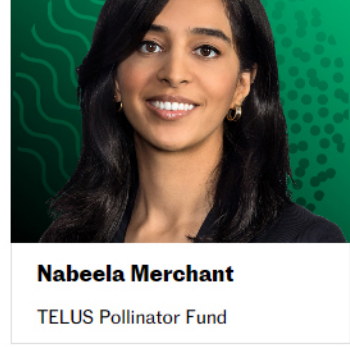
Zoltan Tompa

BDC Capital



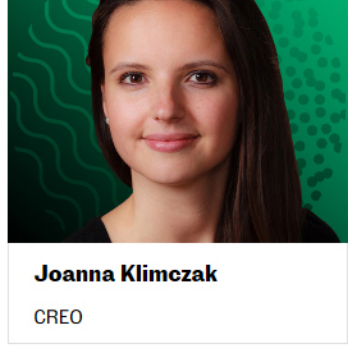
Yuan Shi

The51 Food and AgTech Fund



Tyler Hamilton

MaRS Discovery District



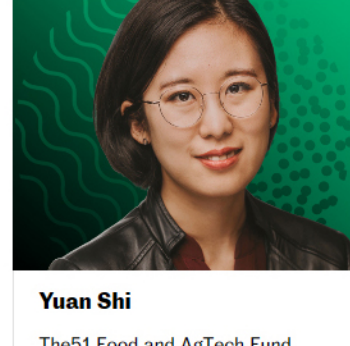
Josée Thibault

MaRS Discovery District



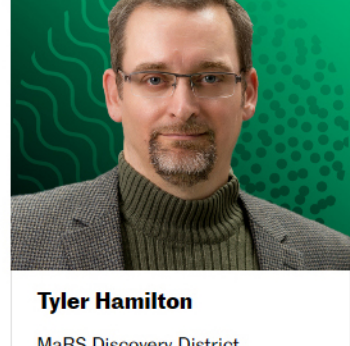
Leah Perry

MaRS Discovery District



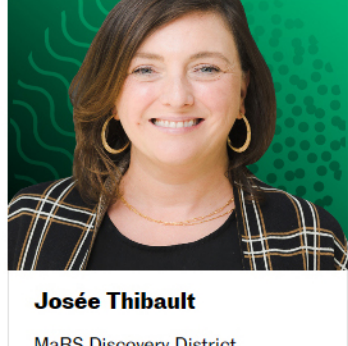
Devika Shah

Environment Funders Canada



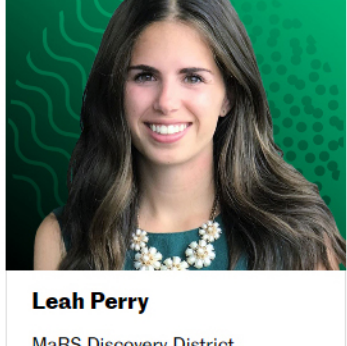
Daniel Resnick

KPMG



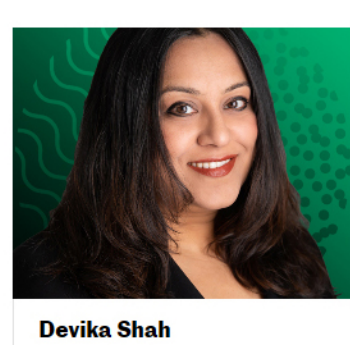
Bolis Ibrahim

Argentum



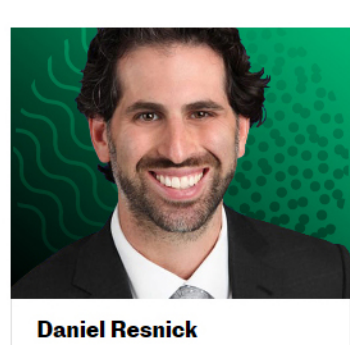
Nicole Mortillaro

CBC News



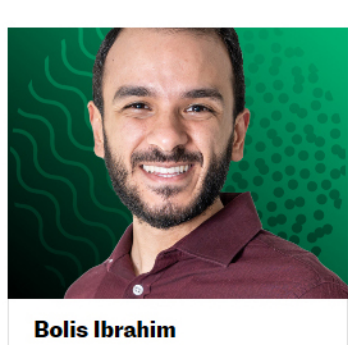
Stacey Kline

The Good Fund



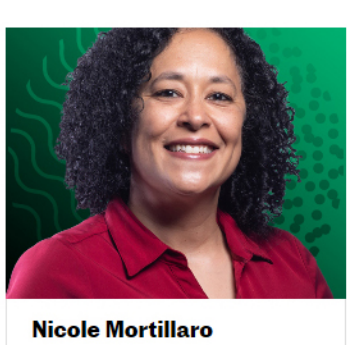
Daniela Roeper

Borealis Wind



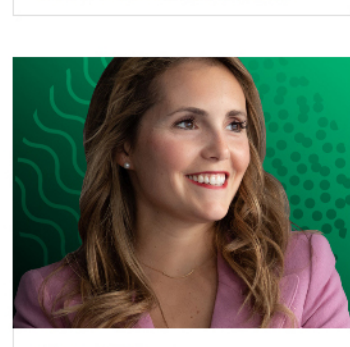
Kostyantyn Khomutov

GBatteries



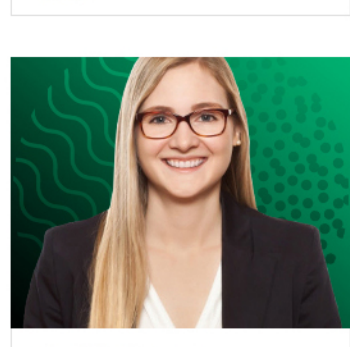
Robert Napoli

Cascadia Seaweed



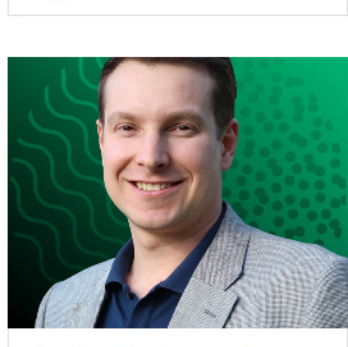
Robert Alexander

AlumaPower



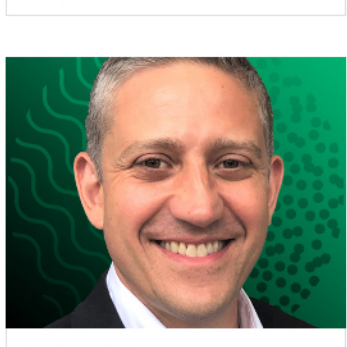
Xavier Hebert-Couturier

Picketa Systems



Max Nelki Gopfert

Rainforest Builder



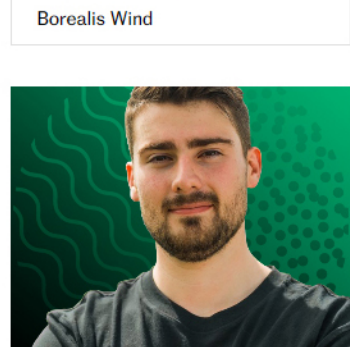
Dan Wicklum

The Transition Accelerator



Jo-Anne St. Godard

Circular Innovation Council



Sahar Sam

Solaires