

Creating Strategic Value Through Sustainability

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Moderated by: **Eugene Hoeven,**President & Founder, EH&A
Business Advisory



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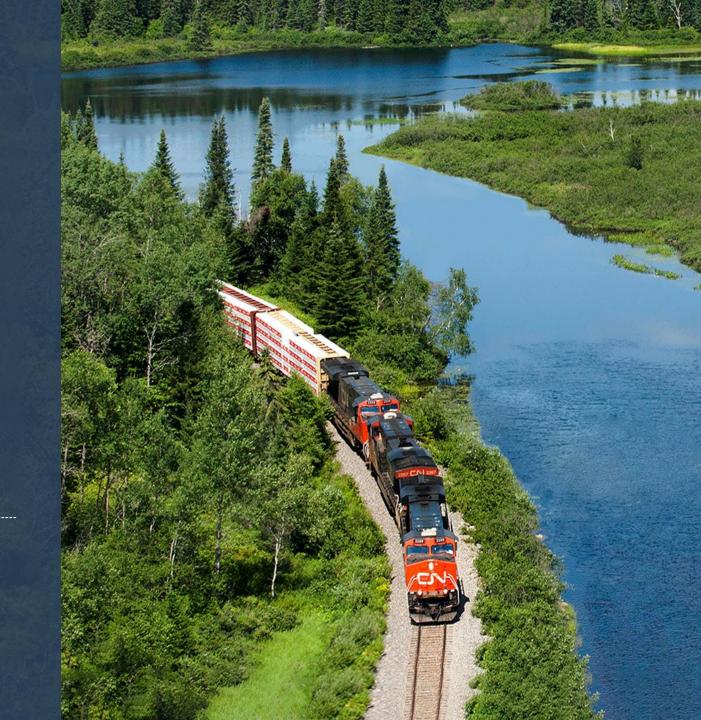
Creating Strategic Value Through Sustainability



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September 15, 2022





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Outline

- 1. Context: How ESG is Shaping our Future
- 2. About CN
- 3. Tackling Climate Change
- 4. Strengthening Our Safety Culture
- 5. Embracing Diversity and Inclusion
- 6. Driving Continuous Improvement



ESG is Shaping our Future



Investors urge 1,600 companies to set science-based targets for carbon emissions

IR Magazine, September 2021

Lawyer who defeated Shell predicts 'avalanche' of climate cases

Financial Times, December 2021

BlackRock adds diversity target for U.S. boardrooms

Reuters, December 2021

ESG assets may hit \$53 trillion by 2025, a third of global AUM.

Bloomberg, February 2021

The world inches closer to 'alignment' on global ESG standards

Fortune, December 2021

Nestle and Delta are among dozens of firms most at risk of climate change hazards, investors warn

Forbes, September 2021

Big business pledged nearly \$50 billion for racial justice after George Floyd's death

Washington Post, August 2021

Climate change will alter where many crops are grown

The Economist, August 2021

Investors tell Australian firms to improve Indigenous relations

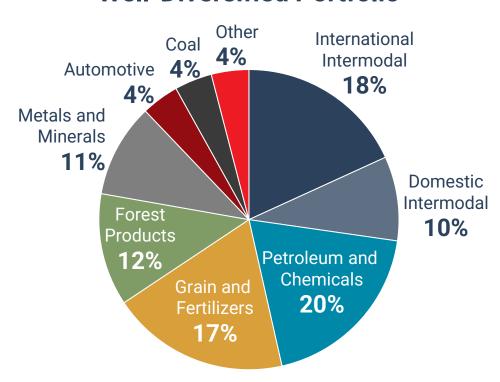
Bloomberg, December 2021

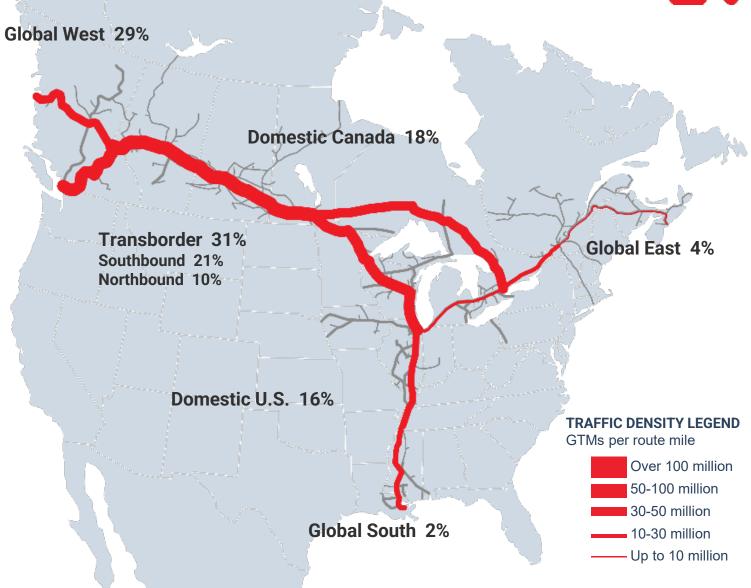
How climate change can be addressed through executive compensation

World Economic Forum, January 2021

A Great Franchise

Well-Diversified Portfolio





A Responsible Approach



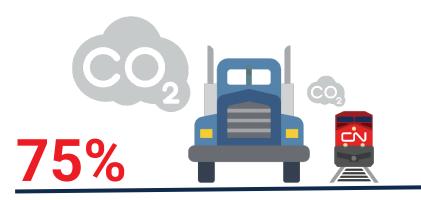
Delivering Responsibly defines how we conduct our business every day and our contribution to building a more sustainable future.

Environment Safety **People Community** Governance Conduct our Aim to be the safest Safe, supportive Help build safer, Continuously operations railroad in North and diverse work stronger improve with minimal America communities our culture of environment environmental integrity impact 13 CLIMATE ACTION 3 GOOD HEALTH AND WELL-BEING 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE 5 GENDER EQUALITY 8 DECENT WORK AND ECONOMIC GROWTH 15 LIFE ON LAND 5 GENDER EQUALITY RESPONSIBLE CONSUMPTION B DECENT WORK AND ECONOMIC GROWTH AND PRODUCTION

United Nations Sustainable Development Goals

Rail Offers Significant Environmental Benefits





Moving freight by train instead of truck reduces GHG emissions by up to 75%



One train can move, on average 1 ton of freight 480+ miles on 1 gallon of fuel



Railroads are approximately 4 times more fuel efficient than trucks



A single freight train can replace over 300 heavy duty trucks

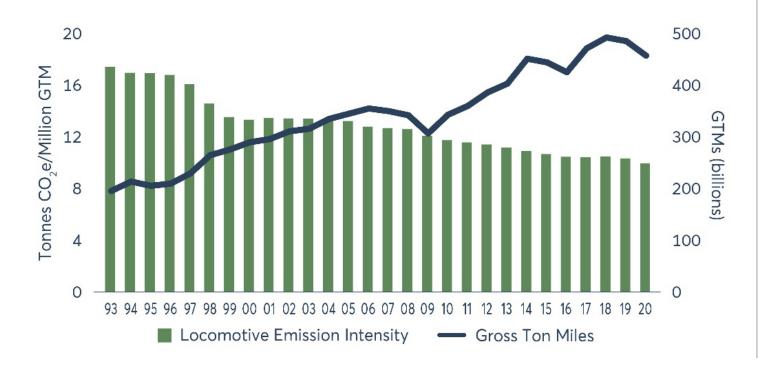
Moving More of our Customers' Goods with Less Fuel



Decoupling Growth from Carbon Emissions Intensity

LOCOMOTIVE GHG INTENSITY vs. GROSS TON MILES (GTMs)

(Tonnes CO₂e/Million GTM vs. Traffic Billion GTM)



SINCE 1993:

43%

REDUCTION IN LOCOMOTIVE GHG INTENSITY

↓48 million

TONNES OF CARBON AVOIDED
WHILE CONTINUING TO GROW IN
THE VOLUME OF FREIGHT WE MOVE

CN's Commitment to Further Reduce Emissions



1st railroad in North America, and amongst the **first** 100 companies globally, to set an approved science-based target

2030 Target

43%

REDUCTION IN GHG
EMISSIONS INTENSITY

Renewable Fuels Pilot

Collaborative approach to the first of its kind longterm test of high-level renewable fuel blends

To better understand the long-term durability and operational impacts of renewable fuels on locomotives, especially in cold weather







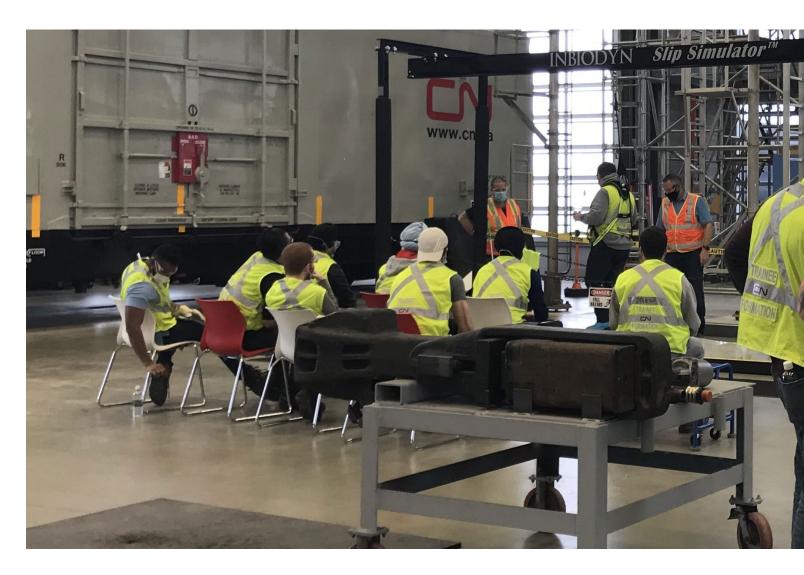
Beyond 2030....Towards Net Zero by 2050



Strengthening Our Safety Culture

Safety is a core value that guides our actions at all times. Our goal is to eliminate serious injuries and fatalities from our workplace and become the safest railroad in North America.





Embracing Diversity and Inclusion

Building a respectful, inclusive, and supportive culture is integral to our ability to innovate, and to meet the expectations of our employees, our customers, our shareholders, and the communities in which we operate.





Setting ESG Targets and Long-Term Goals



Raising our level of ambition to deliver for a sustainable future

Environmental Protection

by 43% by 2030, based on 2019 levels

First N.A. rail to commit to having a net-zero target by joining Business Ambition for **1.5°C** and 'Race to Zero' Campaign



Social Responsibility

Goal to reduce serious injuries and fatalities to zero

Targeting **30% women** on the executive management team by 2022





Strong Governance

Targeting at least 50% of independent directors coming from diverse groups, including gender parity

Strengthening relationships with **Indigenous People** and Communities



Thorough, Transparent Disclosures



Commitment to be open about our business and to communicate our progress with focus, clarity and comparability

















Sustainable aviation fuels in Canada

The Chartered Institute of Logistics and Transport

Sep 15, 2022



Geoff Tauvette, Executive Director of the Canadian Council of Sustainable Aviation Fuels (C-SAF)





Industry commits to net-zero emissions by 2050

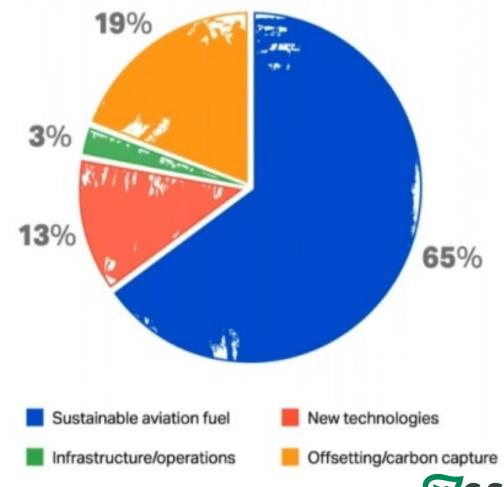
A global solution







Contribution to achieving Net Zero Carbon in 2050



ATAG Waypoint 2050 technology assessment

		2020	2025	2030	2035	2040	2045	2050
~73% of CO2	Long-haul 250+ seats 150+ minute flights ~30% of industry CO ₂	SAF	SAF	SAF	SAF	SAF	SAF	SAF
	Medium-haul 100-150 seats 60-150 minute flights ~43% of industry CO ₂	SAF	SAF	SAF	SAF	SAF	SAF	SAF potentially some Hydrogen
issions	Short-haul 100-150 seats 45-120 minute flights ~24% of industry CO ₂	SAF	SAF	SAF	SAF potentially some Hydrogen	Hydrogen combustion and/or SAF	Hydrogen combustion and/or SAF	Hydrogen combustion and/or SAF
~27% of CO2 emissions	Regional 50-100 seats 30-90 minute flights ~3% of industry CO ₂	SAF	SAF	Electric or Hydrogen fuel cell and/or SAF	Electric or Hydrogen fuel cell and/or SAF	Electric or Hydrogen fuel cell and/or SAF	Electric or Hydrogen fuel cell and/or SAF	Electric or Hydrogen fuel cell and/or SAF
~27% 0	Commuter 9-50 seats <60 minute flights <1% of industry CO ₂	SAF	Electric or Hydrogen fuel cell and/or SAF	Electric or Hydrogen fuel cell and/or SAF	Electric or Hydrogen fuel cell and/or SAF	Electric or Hydrogen fuel cell and/or SAF	Electric or Hydrogen fuel cell and/or SAF	Electric or Hydrogen fuel cell and/or SAF

Source: ATAG Waypoint 2050 Report, rev 2021

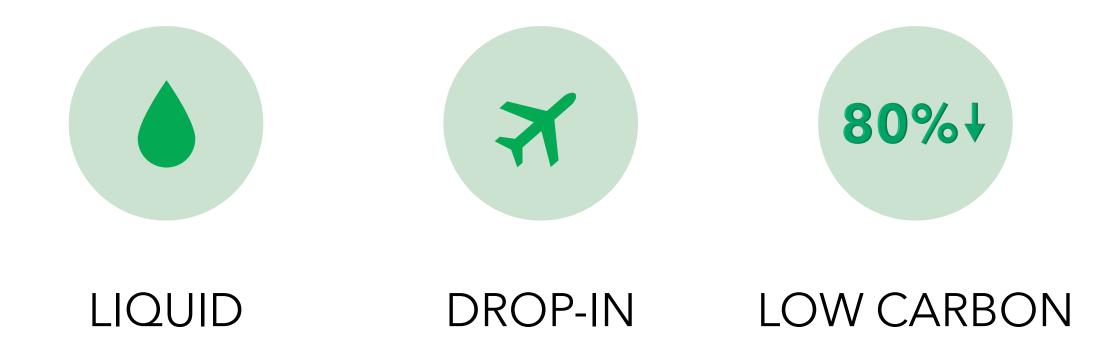
Electric & Hydrogen initial commercial market entry in regional markets in 2030's, short-haul markets in 2040's

Medium and long-haul markets require Hydrocarbon Fuel over long-term

Large volumes of
Sustainable Aviation Fuel
(SAF) essential to meeting
2050 ambitions



What is SAF?



SAF is SAFE and can be deployed now to reduce emissions from aviation



We know how to make it - but it is expensive







C-SAF was formed to coordinate SAF efforts in Canada



Vision

Facilitate the **production** and **use** of sustainable aviation fuels (SAF) that are:

- Affordable
- Low-carbon/Sustainable
- Made-in Canada

Mission

Accelerate **commercial production** and **deployment** of SAF in Canada by:

- Catalyzing the ecosystem and activate value chains
- Designing and promoting public policy, strategies and a roadmap for SAF development in Canada
- Acting as a neutral and balanced technical expert
- Providing the "go-to-place" for SAF deployment in Canada



Mobilizing the ecosystem

+60 Airlines/End Users 10 Fuel Infrastructure Consortia 45 Key Stakeholders



- Domestic
- Regional
- International
- Charters
- Cargo



Owned and operated by commercial airlines

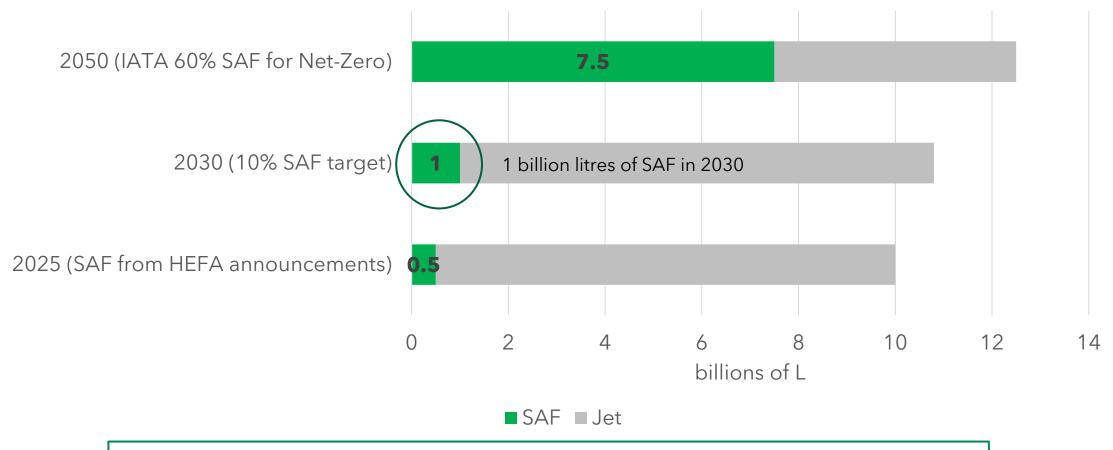
6 billion Litres handled in 2019



Academia Financial sector



How much SAF are we talking about?



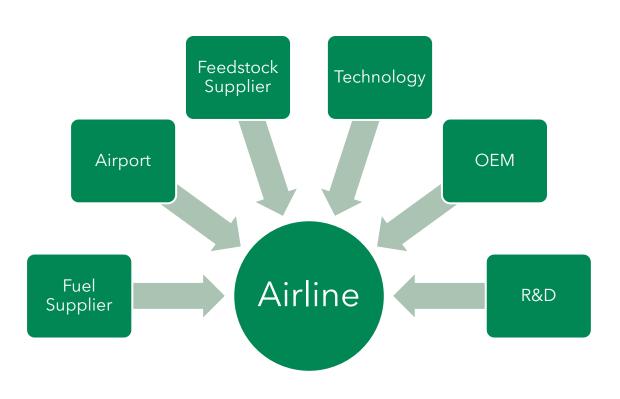
What policies, how fast and what effort is needed to fill the gap to 1B L



Moving Forward?



C-SAF bring the SAF Value Chain together Airline meet farmer...



Airlines need rateable supply

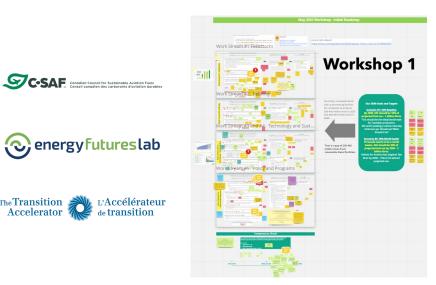
- SAF price estimated at 2 to 8 times more than Jet
- What model does an airline use for pricing
 - Need for rateable supply
 - Who gets credit?
 - Where do we Blend and who does it
 - SAF Pathway is safe?
 - Long term returns vs short term
- How do you design pricing strategies for customers

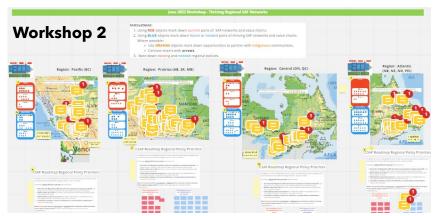


C-SAF Clean Competitiveness SAF Roadmap

SAF is a piece of Canada's energy system transition to net-zero

- Identify the priority actions, policies, and investments
- ▶ Build long-term economic value and decarbonize the industry.
- Align the whole supply chain
- Get down to concrete initiatives.







SAF principles in Canada

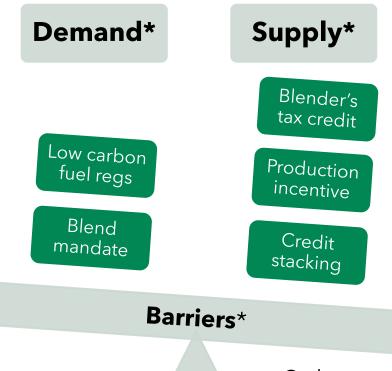
- ▶ Ensure SAF availability in Canada
- ▶ Ensure sector **competitiveness**
- ▶ Limit impact on aviation customers
- Ensure regulatory certainty

SAF Policy will be key!



Keeping aviation competitive in a net-zero future

- Policies Tailored for aviation
- SAF is harder to make than renewable diesel
- Compete with SAF incentives in other countries
- Create a stable and long-term investment regime



- Carbon tax on SAF
- Patchwork reporting
- Assumed same as ground fuels

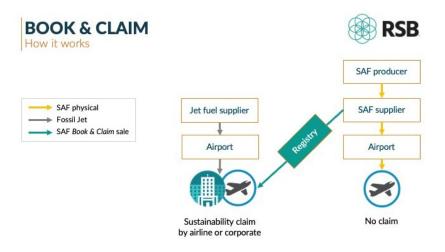


Final thoughts

Scope 3

 What are your customers needs for reducing emissions related to products or services

Book and Claim



Working together

- Optimizing logistics
- Airports
- Rail/Heavy Duty Trucks
- Operations
- Fuel



Let your SAF demand and requirements be known!







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