# Climate Change and Association Leadership in the New Decade

March 10, 2020





### Welcome

Paul Lansbergen, Past Chair, CSAE Ottawa-Gatineau Chapter

Coro Strandberg, President, Strandberg Consulting





## Agenda Review

Presentations:

- Vincent Ngan, DG of Horizonal Policy, Engagement & Coordination Directorate, Environment and Climate Change Canada
- Q and A
- Case Studies
- General Discussion
- Break (10:30 10:45)
- Table and General Discussion: Association priorities, barriers and opportunities, role of CSAE





### Introductions

- Name, title, organization
- Where are you on a scale of 1 3 re: climate change?
  - 1 = learning
  - 3 = leadership







### **CLIMATE CHANGE IN CANADA**

Climate Change and Association Leadership in the New Decade Canadian Society of Association Executives (CSAE)

### Vincent C. Ngan

Director General Pan-Canadian Framework Implementation Office A climate-change.canada.ca

March 10, 2020





## **OVERVIEW**



# SCIENCE OF CLIMATE CHANGE



#### **Climate change**

There is overwhelming evidence that the Earth has warmed during the Industrial Era and that the main cause of this warming is human influence.



Canada is warming about 2X global average, with the North warming about 3X

### **CLIMATE CHANGE IS A GLOBAL ISSUE**

- Human activity has caused approximately 1.0°C of global warming
  above pre-industrial levels
- This warming will continue to persist for centuries to millennia
- The planet is projected to warm by a further 1.0-5.5°C by late century (>66% chance)
- Global warming of 1.5°C will likely be reached between 2030 and 2052



Source: IPCC, 2018

### IMPACTS OF CLIMATE CHANGE ARE A CONCERN ACROSS CANADA

Reduced ice cover affecting economic development and traditional ways of life

Permafrost degradation affecting northern infrastructure



Ecosystem changes / shifts in species distribution affecting country food supply and species at risk

Increased pests pine beetle) affecting forest productivity and fires

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Increased frequency of drought is projected in some areas, affecting forests, agriculture, and wildfires.

Reduced glacier cover affecting western water resources and hydro production



Increased risk of flooding

Sea level rise and increased coastal erosion affecting infrastructure

Lower Great Lakes water levels affecting shipping, hydro, and recreation



Increased temperatures affecting human health due to heat stress and diseases such as Lyme Disease

Reduced reliability of ice roads affecting access to remote mine sites and northern communities

### TAKING ACTION NOW BRINGS MORE BENEFITS, AVOIDS MORE COSTS

- Climate change poses an acute risk of harm to Canada
- Economic impact of climate change could reach between \$21B \$43B / year in 2050
- Climate action drives innovation and enables Canada to be a leader in a low carbon economy.
- Advancing adaptation can also lead to avoided costs and decreased insurance claims.

"Investor and consumer preferences are shifting towards lower-carbon sources and production processes, suggesting that the move to a low-carbon economy is underway"

Bank of Canada, 2019 Financial System Review)

e.g., In May 2018, Alcoa and Rio Tinto announce world's first carbon-free aluminum smelting process – headquartered in Quebec

SUSTAINABLE FINANCE

Key opportunity for markets to properly assess and value climate to get capital flows (e.g. increased lending activity for retrofits)



Global clean tech market = \$2.5T by 2022 Bio-economy (biomass) = \$715B by 2021; ~\$1T by 2030 Bold climate action = 65M jobs worldwide by 2030 Energy/resource efficiency ↑ = savings of \$3.6T by 2030

### **CANADA'S INTERNATIONAL COMMITMENT**





Objective of limiting global warming to well below 2°C and pursue efforts to limit 1.5°C

Set national targets every 5 years, each more ambitious than the last, and enhance resilience and capacity to adapt

Transparency, accountability and stocktaking

Provide financial resources to support developing countries

Cut GHG emissions to 30% below 2005 levels by 2030

Work with provinces, territories, Indigenous Peoples, stakeholders, and international partners

Report annually on progress

\$2.65 Billion to support developing countries

### **CANADA'S CLIMATE JOURNEY SINCE 2015**



### CANADA'S CLIMATE PLAN





### Pricing carbon pollution



Complementary mitigation actions across all sectors



Adaptation and climate resilience



Clean technology, innovation & jobs

### **CARBON POLLUTION PRICING**

- October 2016: Pan-Canadian Carbon Pollution
  Pricing Benchmark
  - Set stringency standards to ensure pricing across Canada is fair and efficient
  - Gives provinces and territories flexibility to develop their own systems
  - June 2018: Greenhouse Gas Pollution Pricing Act receives Royal Assent
  - Federal system will apply in jurisdictions that request it or that do not have their own systems that meet benchmark



• The federal system has two parts:

#### FUEL CHARGE

- Generally payable by fuel producers and distributors
- Starts at \$20/tonne of CO2e in 2019, rising by \$10 per year to \$50/tonne in 2022
- Proceeds are returned to the jurisdiction of origin

#### **OUTPUT-BASED PRICING SYSTEM**

- Applies to industrial emitters
- Creates a strong financial incentive for the least efficient facilities to reduce emissions per unit of output and for strong performers to continue to improve
- Government has comitted to return OBPS
  proceeds to the jurisdiction of origin

As committed, the Government will review the approach to carbon pollution pricing in 2022, with an interim report in 2020.

### **ACTION TO REDUCE EMISSIONS**



### LOW CARBON ECONOMY FUND

### ~\$2B over seven years beginning in 2017-2018

#### For projects that will:

- make homes and buildings more energy efficient;
- help companies innovate and access technologies to reduce emissions; and
- help the forest and agriculture sectors to enhance stored carbon in forests and soils.







### Leadership Fund

#### (\$1.4B)

Available to provinces and territories for example:

- Investments to support building energy efficiency retrofits for roughly 1,000 public housing units in Nunavut

- Investments in forestry projects which will increase the carbon sink capacity of forested land by over 300,000 hectares

#### Challenge Fund (>\$500M)

*Champions Stream:* 

> \$450M available to broad set of applicants. Applications closed.

Partnerships Stream:

**\$50M** – Small and mediumsized companies, Indigenous communities, NGOs, etc. Applications closed .

### PROCEEDS FROM CARBON POLLUTION PRICING





# **CLIMATE ACTION FUND**

- \$3 million per year
- Supports projects that raise awareness and increase participation on climate change action
- For youth, students, Indigenous Peoples and groups, and SMEs

Successful proposals can receive a maximum of \$500,000 all eligible recipients (except for-profit entities)	Full-time Canadian students including undergraduate, graduate, or post-doctoral students registered at a Canadian college or university	<b>Canadian</b> <b>youth</b> between the ages of 15 and 30 (inclusive)	Research, academic, and educational institutions	Indigenous peoples and organizations
Eligible Projects:	Canadian small and	Canadian not-for-profit organizations		<b>Industry</b> and/or
Education, training, and tools Outreach and promotion Networking and partnering	medium-sized businesses with less than 500 employees	such as non-governn professional, indust student/youth c	nental organizations, ry, community, and lub associations	trade associations

## INFRASTRUCTURE

Investing in Canada: \$180+ billion Infrastructure Plan over 12 years



Environment and

## ADAPTATION



Climate Science & Information



Climate Resilience Infrastructure



Protecting Human Health



Supporting particularly vulnerable regions



Reducing climate-related hazards and disaster risks

#### **DEMONSTRATING LEADERSHIP**

- Joined Global Commission on Adaptation to raise the profile of adaptation and advance global action
- Climate Adaptation Leaders
  Forum on Finance and
  Investment
- The Expert Panel on Climate
  Change Risks and Adaptation
  Potential



## CANADIAN CENTRE FOR CLIMATE SERVICES

#### Web Presence

Facilitates access to existing climate data, tools and related resources

### Support Desk

Assist users in finding, understanding and using climate data, information and tools to consider climate change in planning and decision-making

- 1-833-517-0376
- @ info.ccsc\_cccs@canada.ca
- ClimateData.ca



### **CLEAN GROWTH**

- Supporting clean tech development and deployment
- Contributed to Canada's economic growth by enhancing competitiveness, increasing exports, and creating jobs
- In 2017, clean tech activity contributed **\$28.4B** to Canada's GDP and **183,000** jobs
- Increase support for clean tech for Indigenous
  Peoples, northern, and remote communities



The Clean Growth Hub is a wholeof-government focal point for clean technology focused on supporting companies and projects, coordinating programs and tracking results. Since its creation, it has helped 1080+ clients navigate federal funding and services.

A Canada.ca/clean-growth

### **PROGRESS TOWARDS 2030 TARGET**



### **PROGRESS TOWARDS 2030 TARGET**



## **GOING FORWARD**

- Continue to fully implement Canada's climate plan
- Strengthen existing and introduce new measures to exceed our 2030 emissions reduction goal
- Develop a plan to set Canada on a path to achieve a prosperous net-zero emissions future by 2050. This includes:
  - Legally-binding 5 year emission-reduction milestones
  - Consult with experts and Canadians
  - Global leader in clean technology



### **SUCCESS REQUIRES EFFECTIVE PARTNERSHIPS**

#### **PROVINCES AND TERRITORIES**

Canadian Council of Ministers of Environment, bilateral engagement

#### **INDIGENOUS PEOPLES**

Distinctions-based Senior Bilateral Tables with National Indigenous Organizations (First Nations, Inuit, Métis)

#### STAKEHOLDERS AND CANADIANS

Municipalities, non-governmental organizations, industry, small & mediumsized enterprises, youth, Canadians

#### INTERNATIONAL PARTNERS

Multilateral and bilateral engagement

#### FEDERAL PARTNERS

Over 20 departments and agencies

## SUMMARY

- The Pan-Canadian Framework on Clean Growth and Climate Change (PCF) has set a strong foundation of climate action:
  - Set Canada on a path to 2030 target and net zero by 2050
  - >50 concrete measures
  - Historical investments (\$60 billion 2015-2019)
- Path forward
  - Build on our climate plan, identify new measures to 2030
  - Develop a plan to a net-zero emissions future by 2050
- Opportunities for collaboration
  - Upcoming consultation efforts
  - Support the implementation of existing and new PCF measures
  - Promote action on climate change



# DISCUSSION

- What do you see as opportunities? Challenges?
- What role can your organization play? In the short-term, medium-term, and long term?
- What type of support is most needed?
- How would you like to be engaged for the journey ahead?



## ANNEX

### CANADA'S CHANGING CLIMATE REPORT – HEADLINE STATEMENTS

- Canada's climate has warmed and will warm further in the future, driven by human influence.
- Both past and future warming in Canada is, on average, about double the magnitude of global warming.
- Oceans surrounding Canada have warmed, become more acidic, and less oxygenated, consistent with observed global ocean changes over the past century.
- The effects of widespread warming are evident in many parts of Canada and are projected to intensify in the future.
- Precipitation is projected to increase for most of Canada, on average, although summer rainfall may decrease in some areas.
- The seasonal availability of freshwater is changing, with an increased risk of water supply shortages in summer
- A warmer climate will intensify some weather extremes in the future
- Canadian areas of the Arctic and Atlantic Oceans have experiences longer and more widespread sea-ice-free conditions
- Coastal flooding is expected to increase in many areas of Canada due to local sea level rise
- The rate and magnitude of climate change under high versus low emission scenarios project two very different futures for Canada.





#### A changingclimate.ca

### **CANADA'S EMISSIONS PROFILE**



#### 2017 EMISSIONS BY SECTOR: 716 MT CO<sub>2</sub> EQ

\* 2030 Quebec total includes -12.7 Mt from WCI credits

# CLIMATE CHANGE – FEDERAL DEPARTMENTS

ECCC coordinates federal climate action, support mitigation, builds resilience, develops climate science and advances international climate priorities with key federal partners:

AGRICULTURE AND AGRI-FOOD CANADA (AAFC) e.g., science, innovations and best practices in the agricultural sector	CANADIAN FOOD INSPECTION AGENCY (CFIA) e.g., monitor new and emerging health threats related to food supply	CANADIAN NORTHERN ECONOMIC DEVELOPMENT AGENCY (CANNOR) e.g., economic development and adaptation in the North	CROWN-INDIGENOUS RELATIONS AND NORTHERN AFFAIRS CANADA (CIRNA) e.g., off-diesel, adaptation, and supports Indigenous climate leadership	FISHERIES AND OCEANS CANADA (DFO) e.g., adaptation, monitors climate impacts on oceans and fisheries
<b>DEPARTMENT OF</b> <b>FINANCE CANADA (FIN)</b> e.g., carbon pollution pricing, sustainable finance	GLOBAL AFFAIRS CANADA (GAC) e.g., international climate finance, clean tech export support	HEALTH CANADA (HC) e.g., human health impacts of climate change	INFRASTRUCTURE CANADA (INFC) e.g., green infrastructure, municipal capacity building, disaster mitigation and adaptation	INDIGENOUS SERVICES CANADA (ISC) e.g., off-diesel, adaptation in Indigenous communities
INNOVATION, SCIENCE AND ECONOMIC DEVELOPMENT CANADA (ISED) e.g., clean growth, innovation and technology	PUBLIC SERVICES AND PROCUREMENT CANADA (PSPC) e.g., mitigation and adaptation in federal real properties & procurement	NATURAL RESOURCES CANADA (NRCAN) e.g., energy transformation, oil & gas, forestry, just transition, clean tech, and adaptation	PRIVY COUNCIL OFFICE (PCO) e.g., advice, leads on Results and Delivery	PUBLIC HEALTH AGENCY OF CANADA (PHAC) e.g., adaptation, monitors emerging human health threats
PUBLIC SAFETY CANADA (PS) e.g., emergency management, and disaster preparedness	NATIONAL RESEARCH COUNCIL CANADA (NRC) e.g., energy and safety codes	STANDARDS COUNCIL OF CANADA (SCC) e.g., development of standards	TREASURY BOARD OF CANADA SECRETARIAT (TBS) e.g., greening government operations	TRANSPORT CANADA (TC) e.g., clean transportation (ZEV, modal optimization, aviation, rail and marine)

### RESOURCES

#### **PAN-CANADIAN FRAMEWORK**



#### on Clean Growth and Climate Change

Canada's Plan to Address Climate Change and Grow the Economy











#### Climate-change.canada.ca

### **Case Studies**

- Beth McMahon, Chief Executive Officer, Canadian Institute of Planners (CIP)
- Benjamin L. Shinewald, President and CEO, Building Owners and Managers Association (BOMA) of Canada





### General Discussion on Climate Change Role of Professional and Industry Associations





# Break





## Table Discussions

- What is your association doing to advance climate change priorities among your members?
- What are the barriers and opportunities ahead?
- Are there opportunities to partner with each other?
- What role could CSAE play to help?

\*Identify a facilitator





### Discussion

- Report Back
- General Discussion
- Take-Aways and Wrap-Up



