

Quebec Perspectives on Climate and Energy

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DEPARTEMENT OF DECISION SCIENCES

Friday, May 12th 2017 / 9:00 – 10:30 am

Ontario's climate change action plan in the subnational and intercontinental context

Ontario Climate Symposium

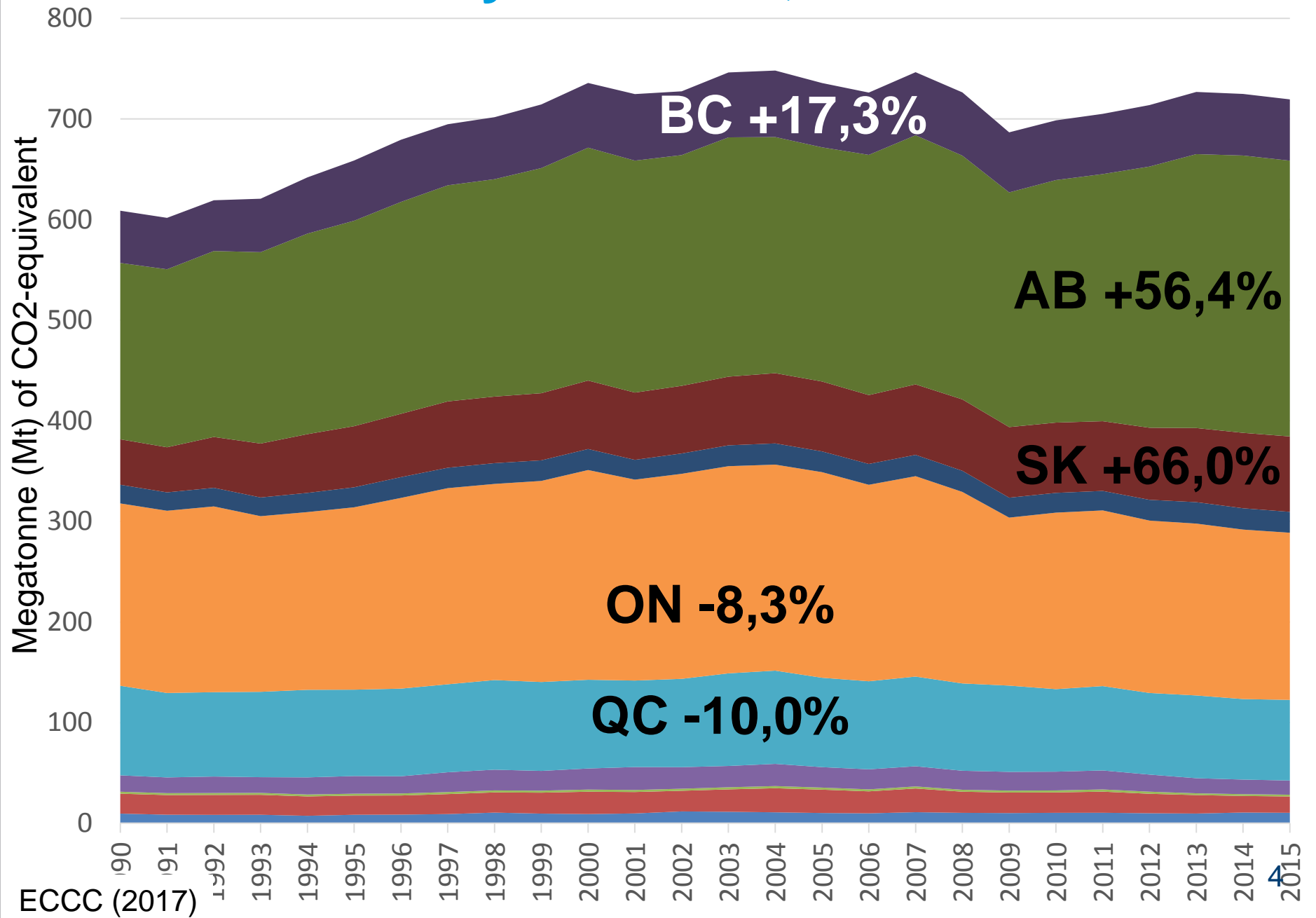
Osgoode Hall Law School, Room 1006 – York University

Outline

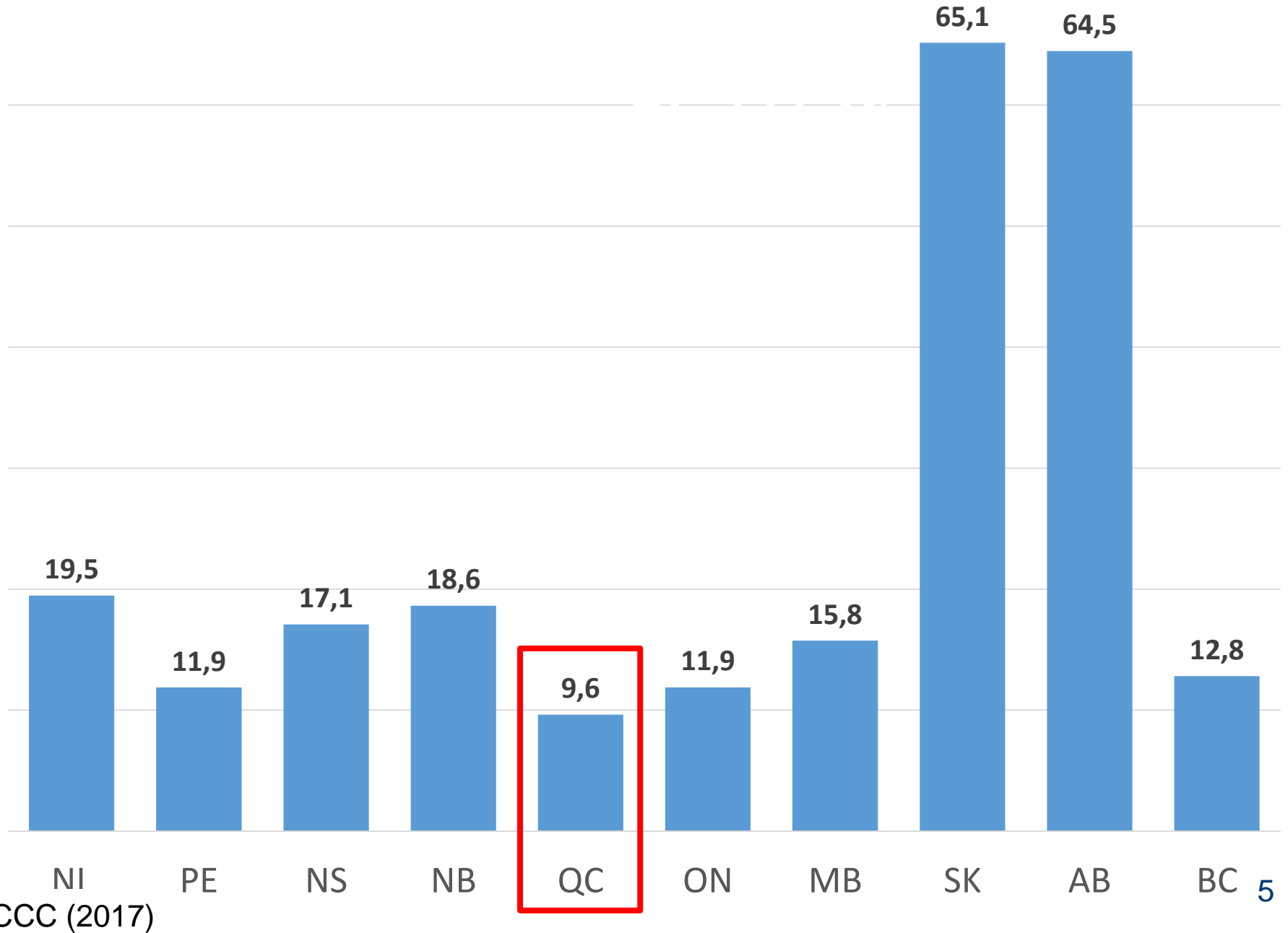
1. Emissions in Quebec
2. Cap and Trade
3. Quebec's Climate Change Inaction Plan
4. Quebec's Energy Transition

1. EMISSIONS IN QUEBEC

GHG by Province, 1990-2015

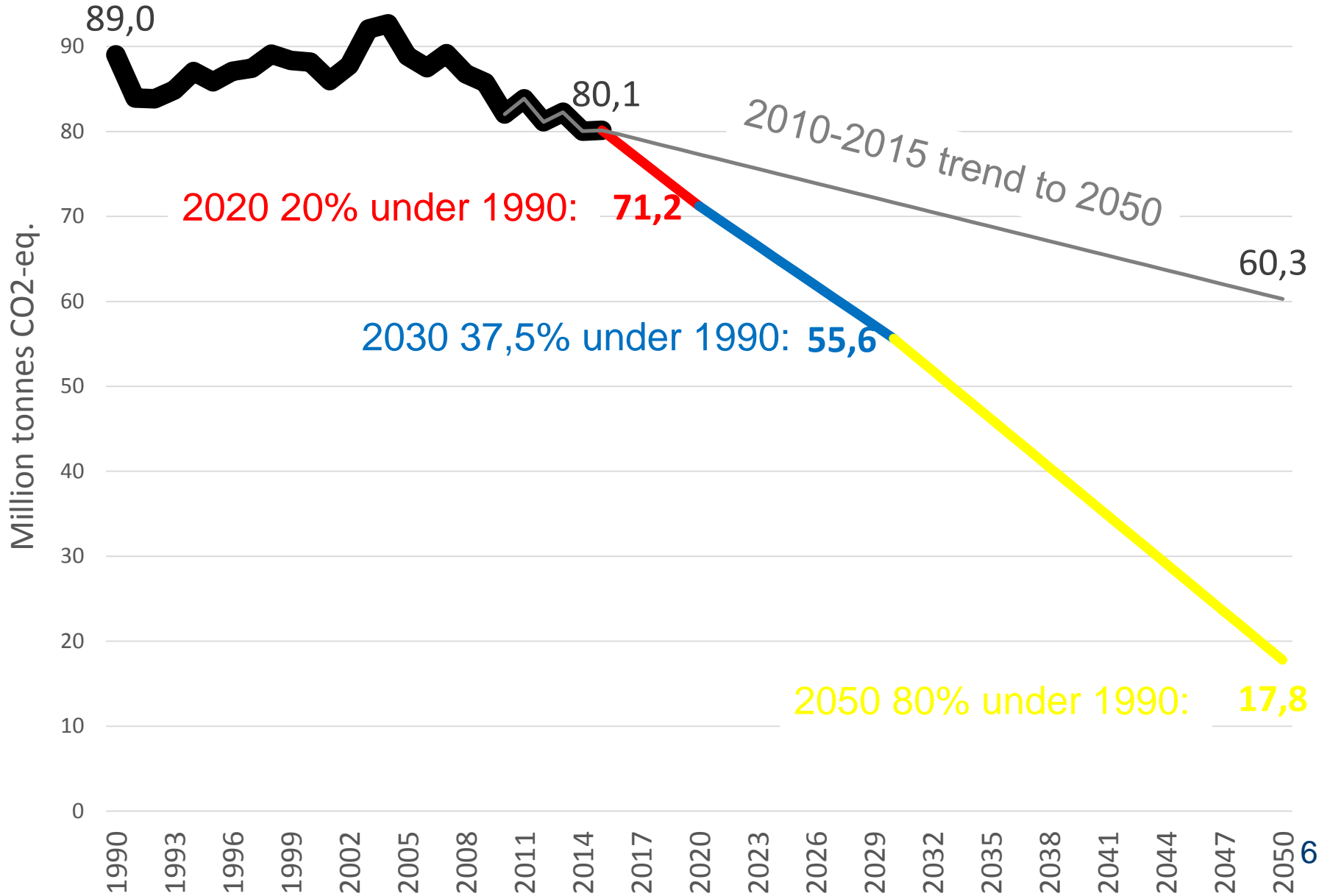


GHG per Capita per Province, 2015

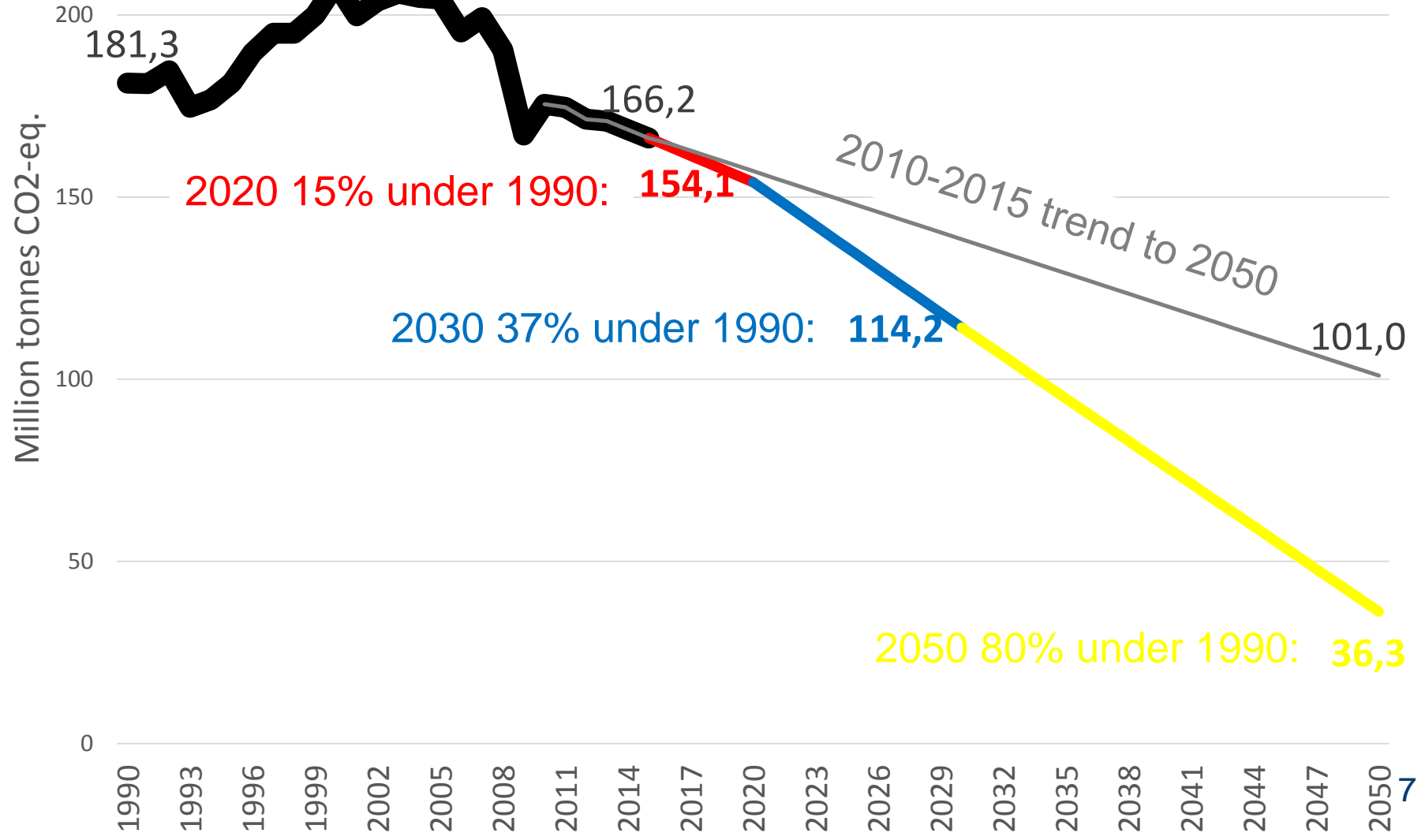


ECCC (2017)

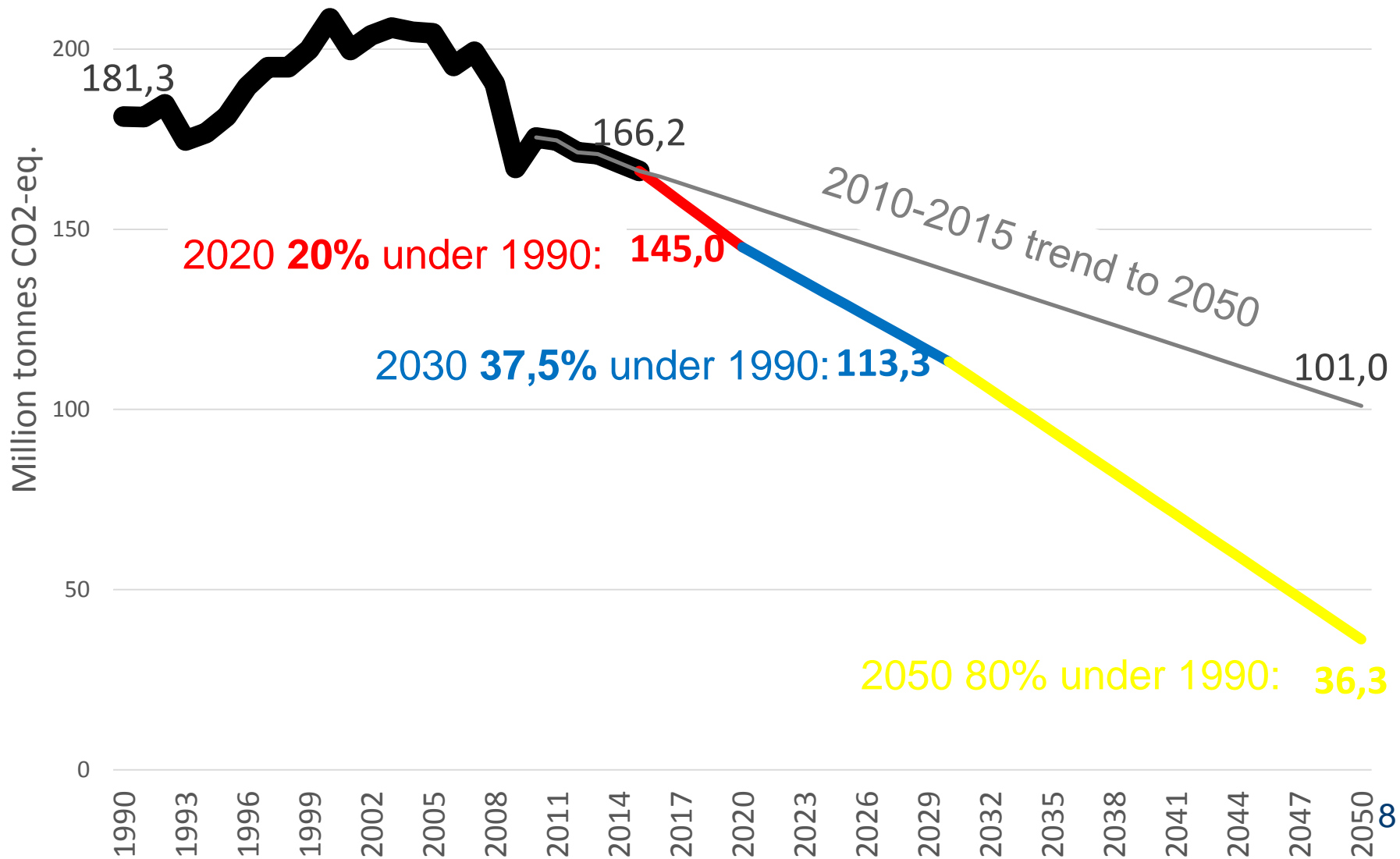
Quebec's Real Emissions 1990-2015 and Targets



ON's Real Emissions 1990-2015 and Targets



ON's Real Emissions 1990-2015 with Québec's Targets



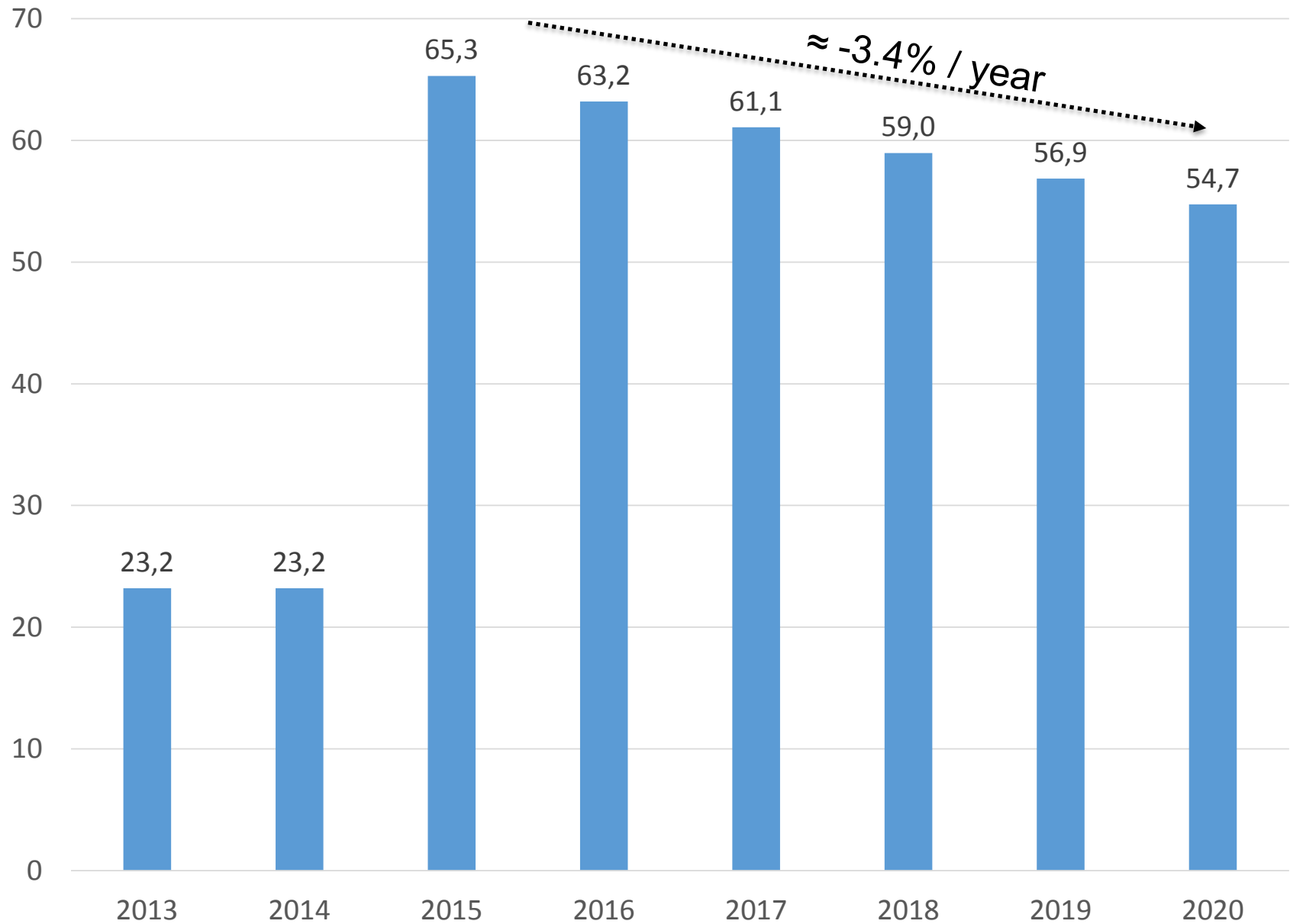
Three Partners

Three Different Ambitions

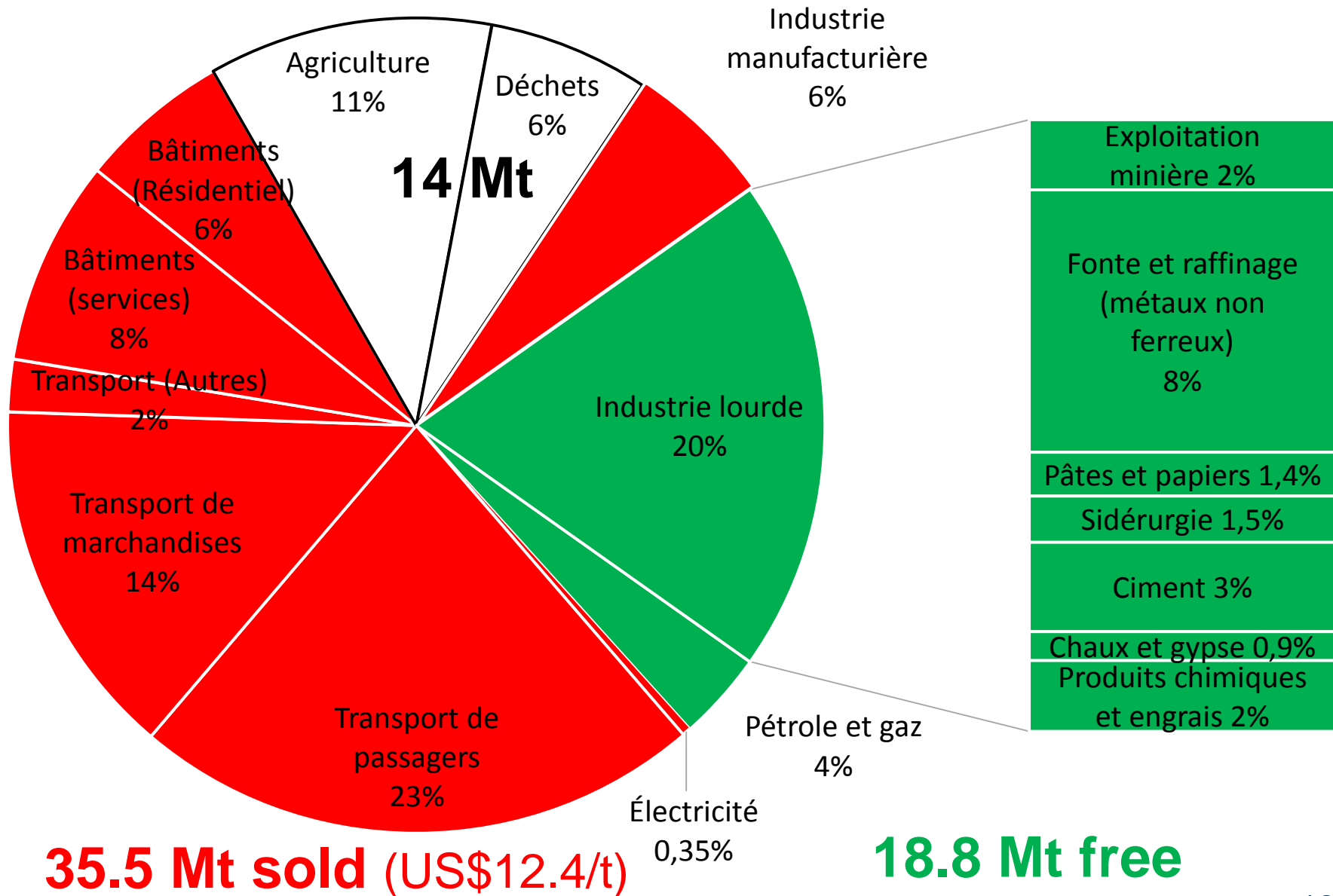
	<i>California</i>	<i>Ontario</i>	<i>Quebec</i>	CA+ON +QC
1990 (Mt)	431	181	89	701
...	...			
2014 (Mt)	441	168	80	690
2020 objective	0%	-15%	-20%	-6,42%
2020 limit (Mt)	431	154	71	656

2. CAP AND TRADE

Quebec's Cap and Trade System



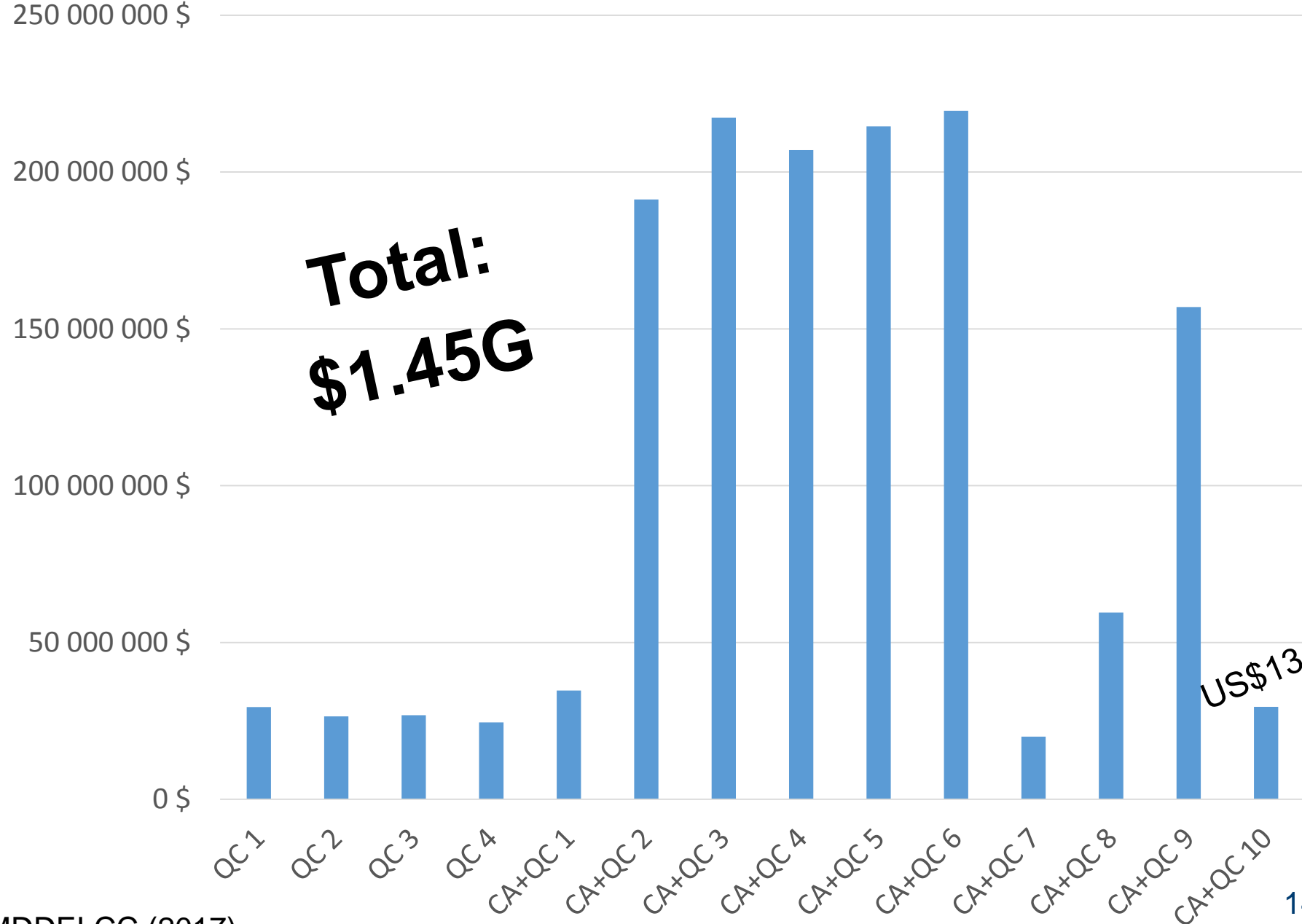
GHG by Sector in Québec, 2015 (80 Mt)



Cap and Trade Issues

1. Credibility (legal challenges in California)
 2. Uneven targets CA / ON / QC
 3. Californian Offsets (54.7 Mt vs. 0.5 Mt in QC)
 4. Target not reached “in Quebec”
 5. Financial transfers to California (QC emitters buying CA emission rights)
 6. Shortage of emission rights
- possible price shock
(\$10/t = 2.36 ¢/litre of gasoline)

QC GHG Auction Proceeds 2013-2017



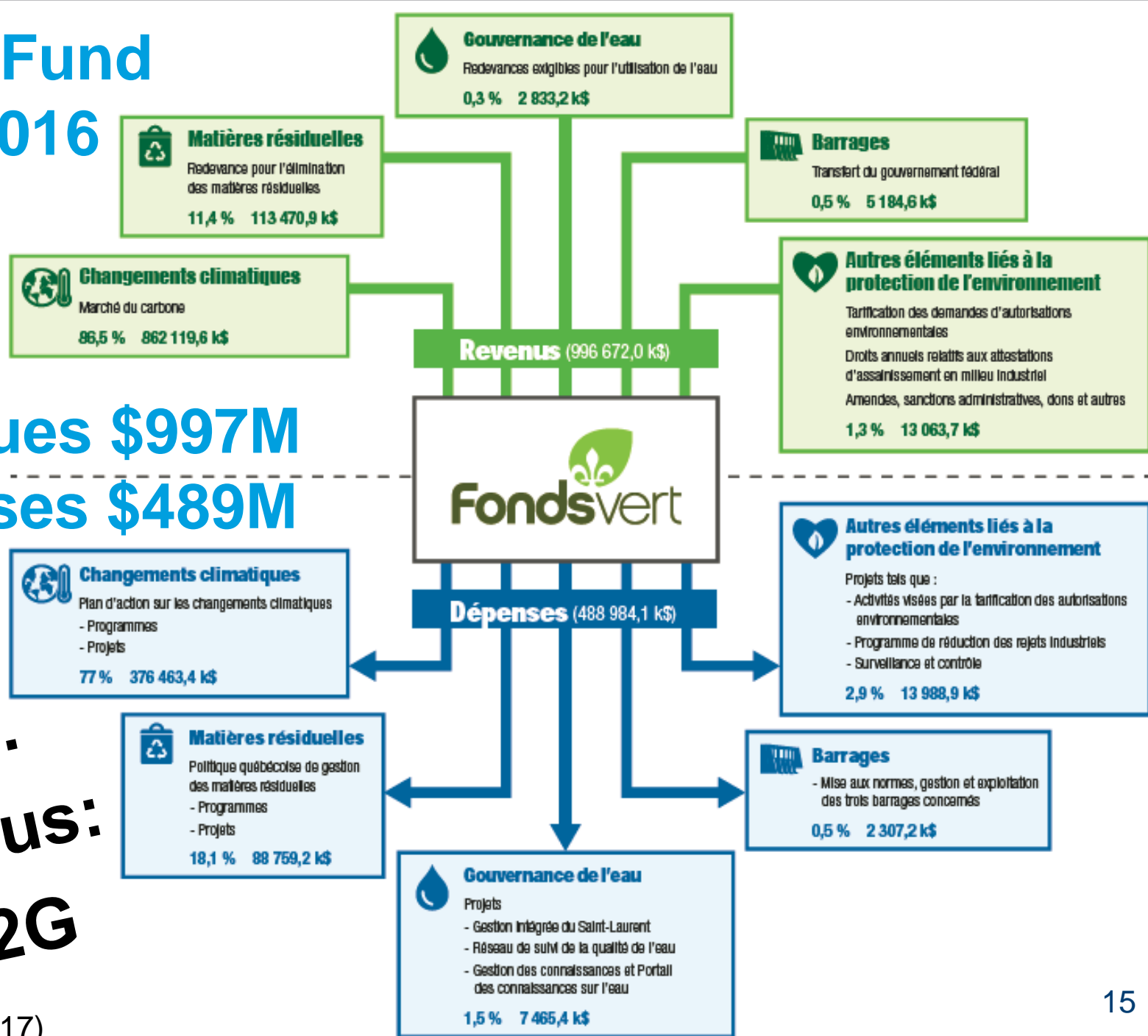
**Total:
\$1.45G**

US\$13.6/t

Green Fund 2015-1016

Revenues \$997M
Expenses \$489M

Cum.
Surplus:
\$1.2G



3. QUEBEC'S CLIMATE CHANGE INACTION PLAN



Quebec's Climate Change Action Plans

- 2006-2012 CCAP
- 2013-2020 CCAP
 - 2013-14: 0.3 Mt reduced @ \$760/t
 - 2014-15: 0.6 Mt reduced @ \$471/t
- Bundle of unrelated programs
- No structural change

No vision / No priorities / Not effective

Current QC Climate Governance

Interministerial Committee – Green Fund

CC Advisory Committee

Ministry of the Environment
Cap and Trade + Green Fund: -37.5% GHG

Green Fund Mgt Committee

9-member Board

Ministry of Energy and NR
Energy Policy: -40% oil

Energy Transition Quebec

12-member Board

Stackholder Panel

4. QUEBEC'S ENERGY TRANSITION

2030 Energy Policy

Targets

1. 15% energy efficiency gain
2. 40% reduction in oil products consumption
3. Eliminate coal
4. 25% increase in renewable energy production
5. 50% increase in bioenergy production



Energy Transition Québec

Transition énergétique Québec (TEQ)

- Mission: support, stimulate and promote energy transition, innovation and efficiency
- Integrated governance
- Coordinate the implementation of all of the programs and measures necessary to achieve the energy targets
- ***Energy transition, innovation and efficiency master plan***

Transition énergétique Québec (TEQ)

- *Governance: really integrated?*
- *Free of political interference?*
- *Adequate financial support?*
- *Stakeholder Panel?*

Key points - Summary

- Low GHG emissions, high ambitions
- No plan
- No governance framework for an effective plan
- **California** = Source of cheap(er) emission rights
- **Ontario** = Source of policy legitimacy (cap and trade)



Booklet on the state of energy in Quebec

energie.hec.ca

HEC MONTRÉAL

Chair in Energy Sector Management

Created in 2013 to advance energy knowledge and understanding.

- Energy systems and global issues (energy literacy)
- Dynamics of consumption sectors (transportation, buildings and industry)
- Organization and regulation of the energy sector

BMO  Groupe financier

BORALEX

Brookfield

 **ENBRIDGE**

 **GazMétro**
la vie en bleu

mccarthy
tetrault


pwc


VALERO

HEC MONTRÉAL