RAILWAY ASSOCIATION OF CANADA



ASSOCIATION DES CHEMINS DE FER DU CANADA

Y E A R S / A N S 2 0 1 7

Part of the problem or part of the solution?

How Canada's railways can help address climate change

Enrique Rosales

Research Analyst, Railway Association of Canada

October 2017

🔄 @RailCanada

👔 www.facebook.com/RailCanada





www.railcan.ca

Canadian Rail Network

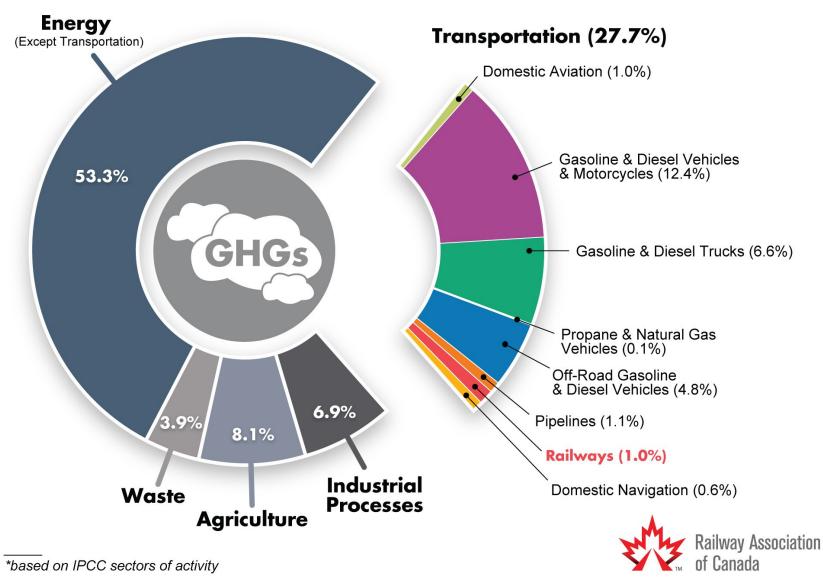


Source: RAC Geospatial Database





Greenhouse Gas Emissions by Sector* - 2014

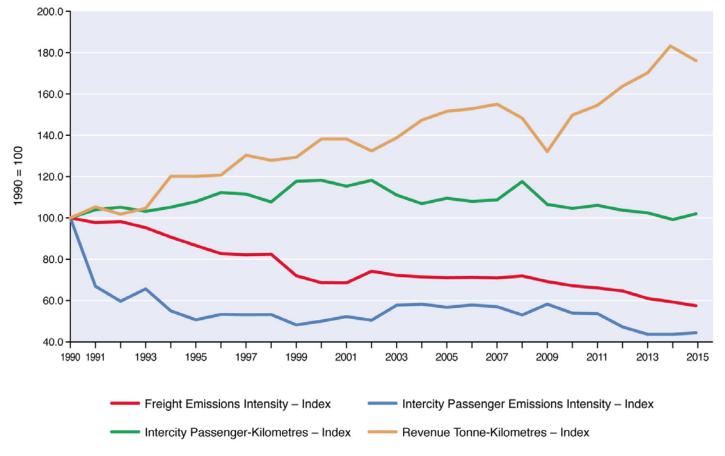








Canadian Rail - Emissions Performance





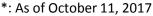




Canadian Carbon Policy

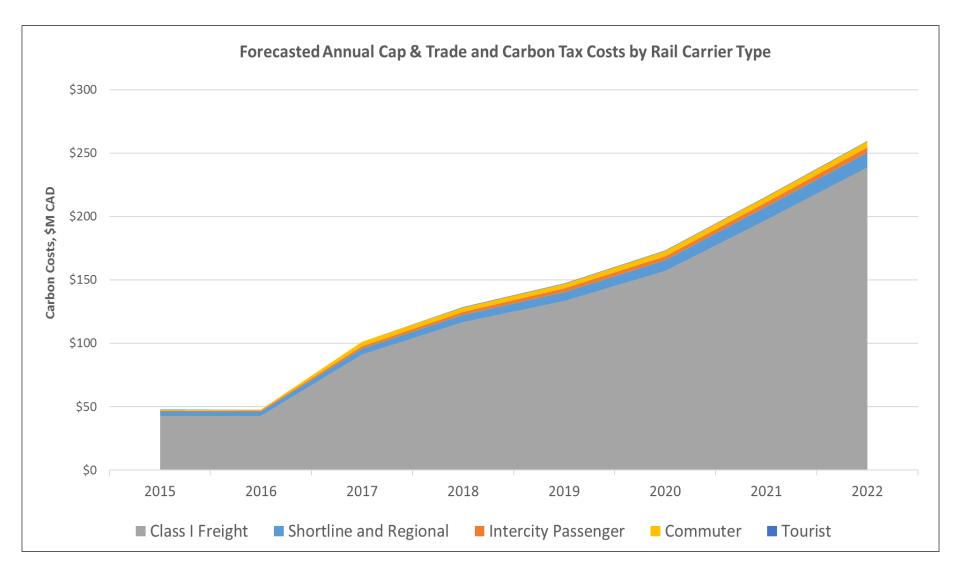
- Announced in October 2016
- Seeks to price carbon emissions and impose floor price
- Each province will define its pricing scheme that needs to at least meet the floor
- The plans need to be in place by the end of 2018

| Carbon TaxCap and TradeUnannounced• British Columbia • Alberta• Quebec • Ontario • Nova Scotia• Saskatchewan • Manitoba • New Brunswick • Prince-Edward-Island | Canadian Carbon Schemes* | | | |
|--|--------------------------|---------------|---|--|
| Alberta Ontario Nova Scotia New Brunswick | Carbon Tax | Cap and Trade | Unannounced | |
| Newfoundland & Labrador | | Ontario | ManitobaNew BrunswickPrince-Edward-Island | |









Source: The Delphi Group





Freight Modal Shift Model

of litres required to move 1 tonne of freight 200+ klms

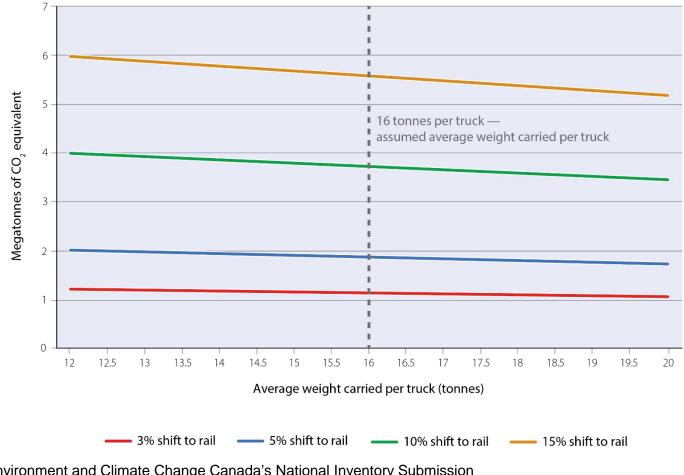
How much more efficient is rail than truck?

~2 to 5.5x





Impact of Modal Shift on GHGs



Sources: Environment and Climate Change Canada's National Inventory Submission to the UNFCCC, LEM Dataset, Rail Trends Database, US EPA, NRCAN's Fuel Efficiency Benchmark for Canada's Trucking Industry, Transport Canada's Statistical Addendum to the 2014 Annual Report



