

Eastern Border Transportation Coalition

2009 workshop
Burlington, Vermont
October 14th 2009

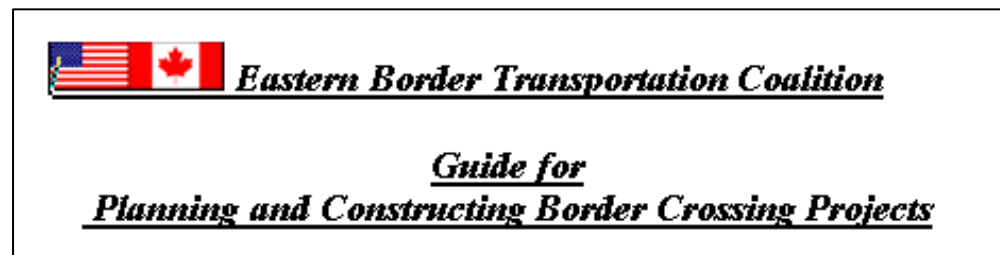
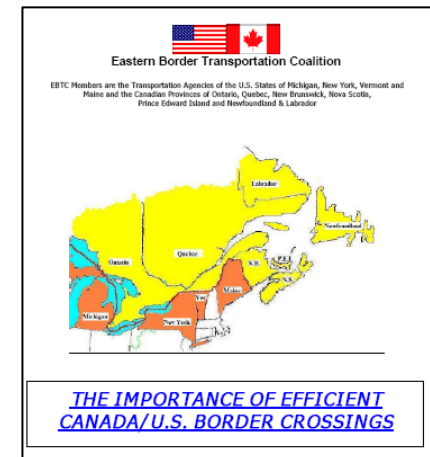
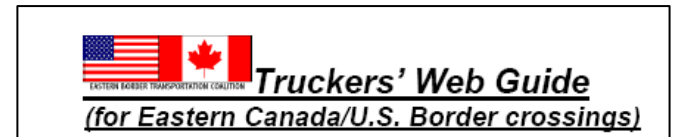
Session 1:

Green initiatives in transportation

presented by Dave Henry

Example of previous tools developed by EBTC

- Truckers Web guide (2006)
- White paper: the importance of efficient Canada/U.S. border crossings (2006)
- Consultation and approval guide for border projects (2007)



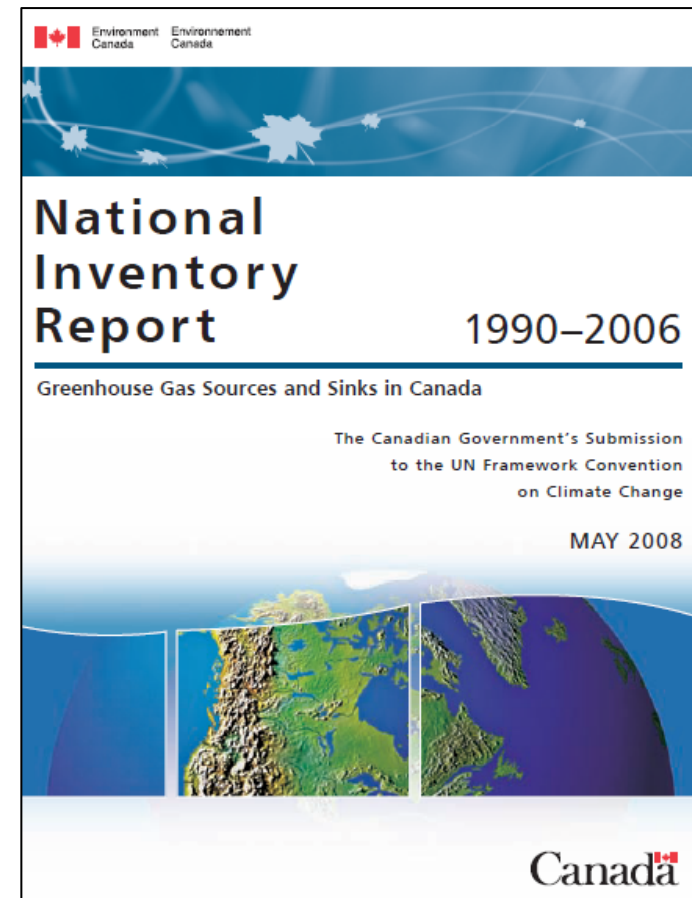
Why an inventory of the various green initiatives implemented in each jurisdiction ?

- Previous EBTC workshops and meetings highlighted the fact that environment and air quality are linked to all aspects of transportation, including at the border (infrastructure, policies, trucking regulation, etc)
- Sustainable development is now part of the mission of most of the Ministries/Departments of transportation in the Northeast
- The green shift is a huge challenge for the transportation (mainly trucking) industry and for government agencies
- It's related to EBTC mandate to facilitate information exchange



The relative importance of Transportation and trucking in GHG emissions

- Transport-related emissions account for 27% of Canada's GHG emissions
- In 2006, road transportation accounted for 70% of overall transportation-related emissions
- Heavy-duty diesel vehicles (Trucking) accounts for 29.6% of the road transportation emissions
- Emissions from transport increased 32% between 1990 and 2006

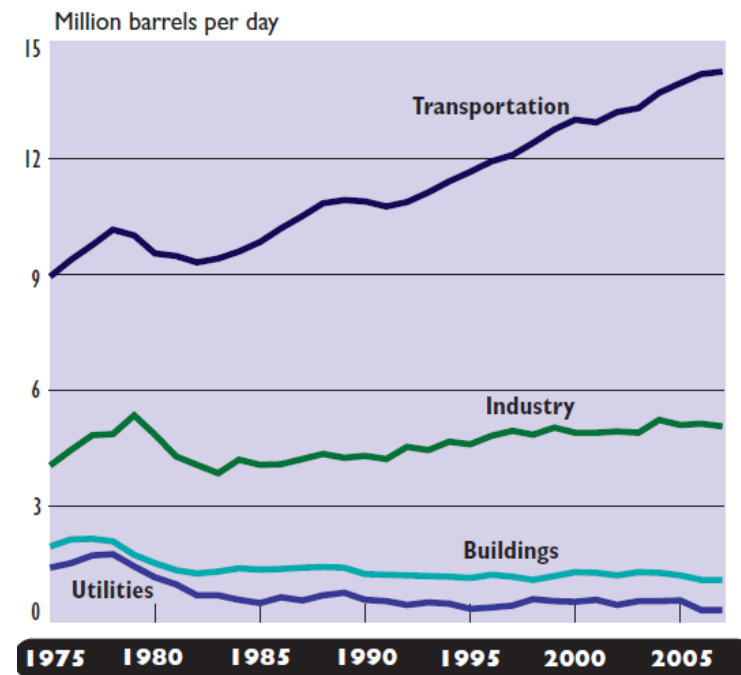




The impact of transportation on the environment

- Consumption of fuel in the US:
 - Since the mid 1970s, transportation's share of petroleum use increased faster than the other sectors, including industry

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Transportation's Share of
U.S. Petroleum Use: 1975–2007



Source: U.S. Department of Energy, Energy Information Administration, *Annual Energy Review 2007* (Washington, DC: June 2008), tables 5.13a–d, available at <http://www.eia.doe.gov/aer/petro.html> as of October 2008.




The challenge of reducing the impact of transportation on the environment and air quality can't be ignored by EBTC

- In 2006, up to 13 million trucks crossed the border at one of the 124 crossings between Canada and the US
- 11.61 million (up to 90%) used one of the 20 busiest crossings
- Trucking supports 61% of the value of trade between Canada and the US



The green transportation initiatives spreadsheet

 GREEN TRANSPORTATION INITIATIVES						
JURISDICTION	PROGRAM NAME	PROGRAM AUTHORITY	PROGRAM DESCRIPTION	OBJECTIVE	MEASURE	SPONSORING AGENCY
Maine	California Low Emission Vehicle Standard	Regulation	establishes motor vehicle emission standards for new passenger cars, light duty trucks, medium duty vehicles, and heavy-duty diesel vehicles.	cleaner and more efficient light-duty vehicles	Reduction of greenhouse gas and conventional air pollutants in the transportation sector	Maine Department of Environmental Protection
Maine	Portland North Study	Executive Authority	Implementation of passenger rail or Bus Rapid Transit (BRT) service between Portland and Yrmouth, Brunswick, and Auburn.	Congestion relief along I-295 and I-95 corridors, increase accessibility and mobility for travelers, and improve air quality	Cost Effectiveness Travel Forecasting & Benefits Development of Alternatives Local Financial Commitment	Maine Department of Transportation
Maine	Free Fare Fridays	Governor	Month-long Transit Fare Subsidies on Fridays during in July and December	Allow Maine citizens to explore low-cost transit options available in communities throughout the State, and to help Maine residents cope with soaring gasoline prices.	Increase in transit ridership	Maine Department of Transportation
Maine	Heavy Duty Diesel Testing	Regulation	Roadside testing (snap-acceleration smoke opacity test) of diesel-powered motor vehicles.	Cleaner diesel-powered motor vehicles.	Number of vehicles failing inspection	Maine Department of Transportation
Maine	Anti-Idling Law	Statute	Limits idling time for commercial vehicles	Reduce air emissions from unnecessary idling	Reduction of air emissions and fuel saved	Maine State Legislature
Maine	Enhanced motor vehicle inspection program	Statute	The program requires that all gasoline-powered motor vehicles registered in Cumberland County be subjected to an Onboard Diagnostics (OBD) inspection and gas cap pressure test.	Cleaner, more efficient vehicles	Number of vehicles failing inspection	Maine State Legislature, Maine Department of Environmental Protection, Maine Department of Public Safety
Michigan	Low-Carbon Fuel Use Policy	Recommended Policy	Promotes low-carbon transportation fuels through a package of incentives, education, and standards, including recommendations by the Michigan Renewable Fuels Commission (RFC)	Reduce the average "carbon intensity" of on-road transportation fuels sold within the state to achieve a 5% reduction of GHG emissions on a life cycle carbon dioxide basis by 2015 and 10% reduction by 2025.	Reduced emissions	Michigan Climate Action Council, Michigan Department of Environmental Quality
Michigan	Eco-Driver Policy	Recommended Policy	Establish an eco-driving program. The primary focus of an eco-driving campaign would target light-duty vehicles, where driver education on eco-driving principles would have the greatest benefit.	Achieve a fuel-economy increase of at least 10% in the mid-term and up to 20% in the long-term.	Increased fuel economy	Michigan Climate Action Council, Michigan Department of Environmental Quality

Guideline

- It should be completed by all jurisdictions
- It should be neutral and not include any interpretation or analysis
- It should be limited to provincial and state initiatives
- It should remain simple but offer links to more complete references
- It should be available on the EBTC web site

<http://ebtc.info/>



Examples

- Speed limiters in Québec and Ontario



JURISDICTION	PROGRAM NAME	PROGRAM AUTHORITY	PROGRAM DESCRIPTION	OBJECTIVE	MEASURE	SPONSORING AGENCY
Québec	Speed limiters	Legislation	Québec passed legislation mandating speed limiter use on most large trucks to cap speeds at 105 kilometres per hour to reduce pollution and improve road safety.	To reduce greenhouse gas emissions and to increase safety.	<p>Annual fuel savings of 46 millions litres</p> <p>Reduction of greenhouse gas emissions by 130 million tons of CO2 per year</p> <p>Reduction of heavy vehicles average speed and improved road safety</p> <p>Reduction of the overall cost of operation for companies</p>	<p>Ministère des Transports du Québec</p> <p>http://www.mtq.gouv.qc.ca/portail/page/portail/entreprises_en/camionnage/limiteurs_vitesse</p>

- Long combination vehicles (LCV) pilot project in New Brunswick
- Enhanced Vehicle inspection program in Maine
- Regional greenhouse gases initiative in New York

Conclusions

- Every jurisdiction has its share of initiatives to reduce the impact of transportation (mainly trucking) on air quality
- Initiatives take various forms:
 - Support to the industry (financial and technical)
 - Legislation
 - Pilot projects
- Significant similarities between initiatives, especially among provinces and states
- No specific initiatives target the border



GREEN TRANSPORTATION INITIATIVES

Conclusions (2)

- Main concern: reduce air pollutants and GHG emissions resulting from combustion of fuel
- Strong focus on idling and new technologies
- Sponsoring agencies:
 - Ministries/Departments of transportation
 - Ministries/Departments of environment



Notice!

- It has no legal value, it's a reference document
- It has been built by transportation specialists
- It has been validated by proper agencies in each jurisdiction
- It could be updated as necessary to reflect new legislation or changes in policies

Questions – comments - suggestions

- Content?
- Format?
- Distribution?

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