

### Energy East Consultations Part Two January 2015



**OEB** Energy East Consultation and Review

Ontario Energy Board Commission de l'énergie de l'Ontario

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# Overview

Study objective: To assess how TransCanada's proposed Energy East project would affect global GHG emissions:

- 1. Review existing studies on how pipelines affect global GHG emissions; and
- 2. Conduct modeling to estimate the impact of the Energy East project.

### This presentation will:

- Provide highlights from the modeling;
- Compare our results to other estimates; and
- Conclude with key findings.



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price (i.e., consumption declines wi**Wallactorstank** price).



# Approach: Method

- Simulated the global oil market from 2015 until 2035.
- Examined different "scenarios". These scenarios varied:
  - Whether other pipelines from Western Canada are approved; and
  - How responsive the consumers of refined petroleum products are to prices.
- Simulated each scenario twice: once with and once without the Energy East pipeline.
  - The difference is attributed to the approval of the pipeline.



## GHG impact from well-to-tank





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## GHG impact from tank-to-wheels





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### Comparison to other research (well-to-tank)





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# Is rail available to transport crude?

- This analysis suggests that rail transport would expand rapidly in the absence of new pipelines.
- The rate of the expansion is significantly lower than the:
  - Experience in other jurisdictions (Bakken resource in North Dakota);
  - Expansion that has already occurred in Alberta.



# **Key Findings**

- 1. Impacts on Ontario are minimal
- 2. Most impacts (from well-to-tank) occur in the Rest of Canada
- Emissions decline in the rest of the world, offsetting most of the increase in Canada (from wells-to-tank)
- 4. Impact from tank-to-wheels could be important. It occurs outside exclusively Canada.





### Thank-you! Questions are welcome

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## Global GHG from well-to-tank





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# Range in global GHG impact





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### Location of GHG impact (well-to-tank)





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14