Addressing methane emissions from Canada’s oil and gas sector

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Canada’s GHG emissions (2013)

Total emissions = 726 Mt CO$_2$e

- Oil and Gas: 25%
- Transportation: 23%
- Buildings: 12%
- Agriculture: 10%
- Electricity: 12%
- Industrial: 15%
- Waste: 3%

Source: National Inventory Report 2015
Canada’s methane emissions (2013)

Total emissions = 107 Mt CO$_2$e

Oil and gas emissions = 46 Mt CO$_2$e

- Oil and Gas: 43%
- Agriculture: 27%
- Coal Production: 2%
- Buildings: 5%
- Waste: 23%
- Distribution: 2%

Oil and gas production and processing: 40%

Conventional Oil Production: 44%

Oil sands: 9%

Natural Gas Production and Processing: 40%

Source: National Inventory Report 2015
Covered sources of methane

**Oil and Natural Gas Production & Oil Sands**

**Gas processing**

**Pipeline compressor stations**

**Venting**: Intentional releases from storage tanks, well completions, associated gas, pneumatics, compressors

**Fugitives**: Leaks from pumps, valves, pipes, etc.

**Storage tanks**

**Compressors**

**Pneumatic devices**
Provincial actions on methane

• Some Canadian provinces – such as Alberta, Saskatchewan, British Columbia and New Brunswick – have requirements that reduce methane
  – Include some requirements for venting, well completions, compressors and leak detection and repair
  – Goal is resource conservation rather than reducing GHGs

• Government of Alberta recently announced plans to take further action on methane

• Federal regulations would build on provincial requirements and ensure a consistent approach across the country
Proposed next steps on methane regulations

Spring to Fall 2016

• Engagement on proposed regulatory approach – with provinces and territories, Indigenous Peoples, stakeholders
• Development of proposed methane regulatory package, including the cost-benefit analysis and the proposed regulations
• Ongoing technical cooperation with U.S. EPA

Early 2017

• Publish draft methane regulations
• Public consultation period of 60 days

Late 2017

• Publish final methane regulations

Early 2018

• Requirements will begin coming into force (e.g., leak detection and repair and well completions for new and existing facilities)

By 2020

• All other requirements will have come into force