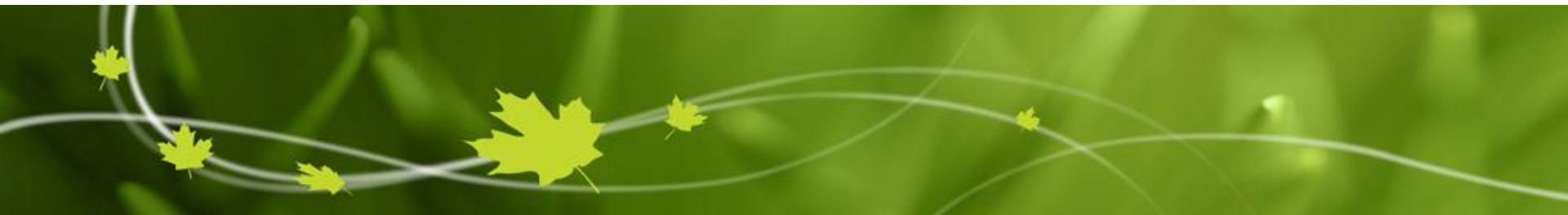




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# Addressing methane emissions from Canada's oil and gas sector

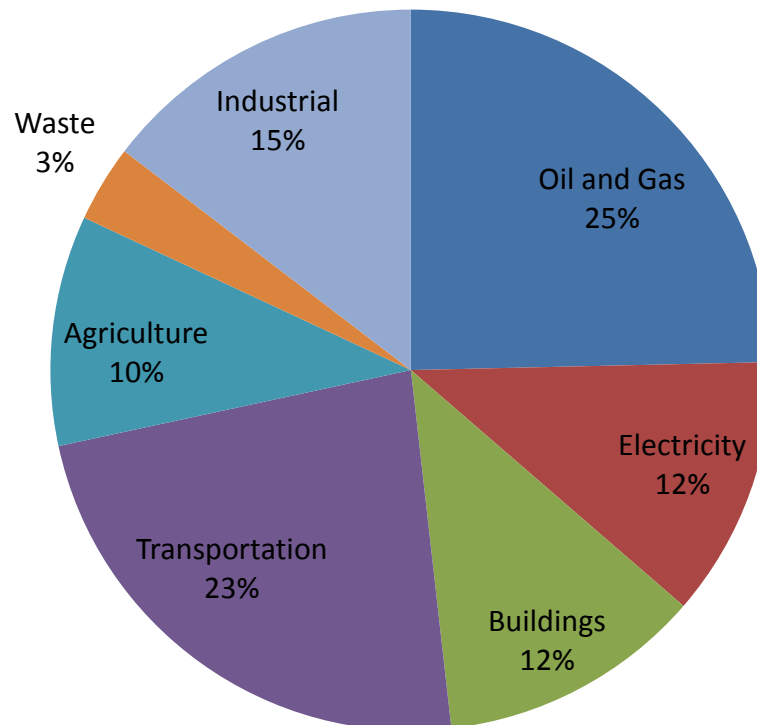
**Mike Beale**

**Assistant Deputy Minister,  
Environmental Stewardship  
Branch**

**March 30, 2016**

# Canada's GHG emissions (2013)

Total emissions = 726 Mt CO<sub>2</sub>e



Source: National Inventory Report 2015

Page 2 – April-5-16



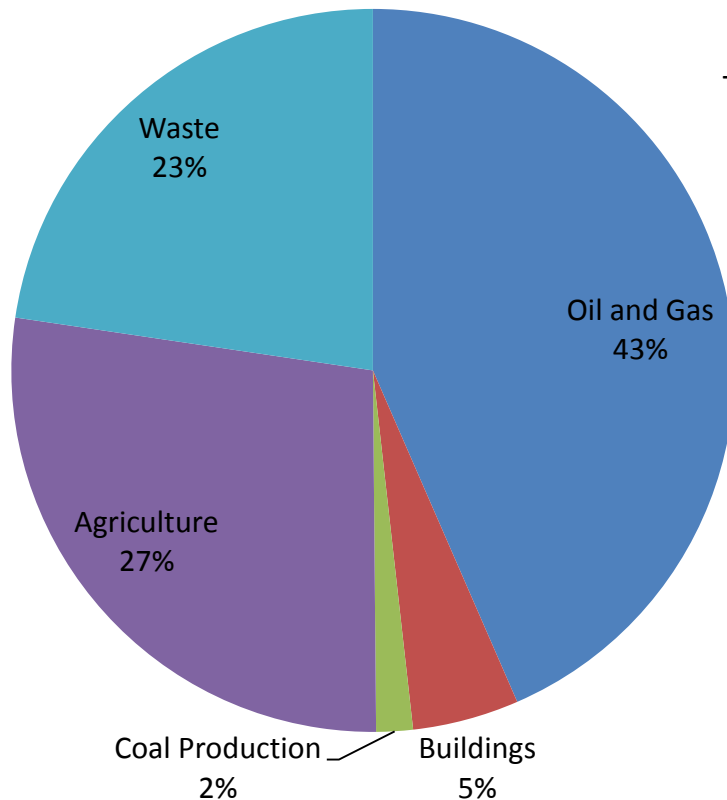
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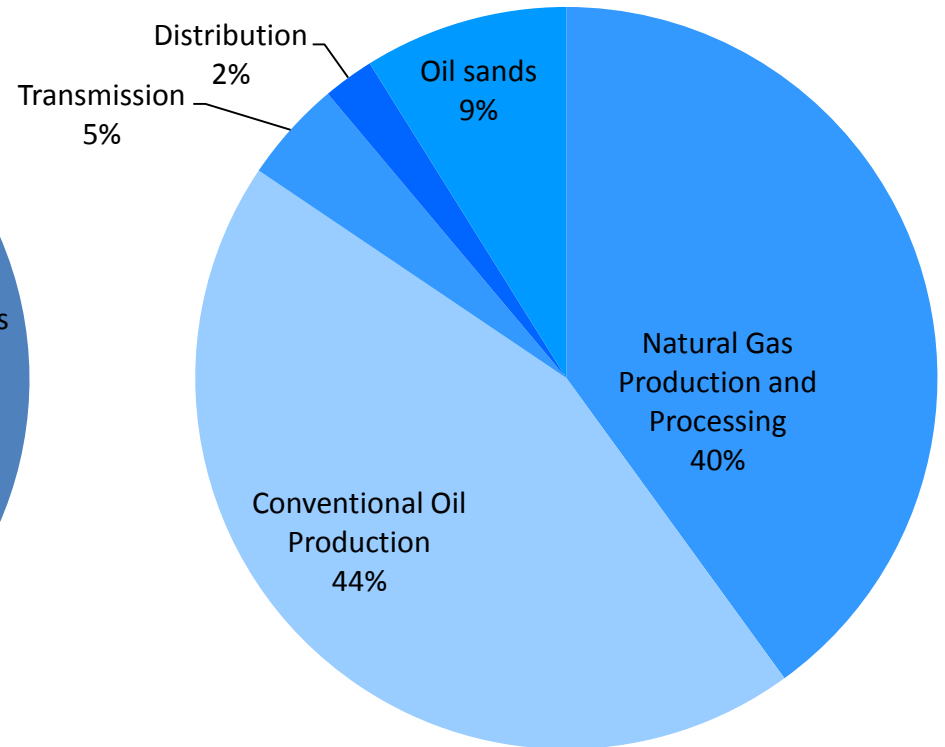
Canada

# Canada's methane emissions (2013)

Total emissions = 107 Mt CO<sub>2</sub>e



Oil and gas emissions = 46 Mt CO<sub>2</sub>e



Source: National Inventory Report 2015

Page 3 – April-5-16



# Covered sources of methane



Oil and Natural Gas  
Production & Oil Sands

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



Storage tanks



Gas processing



Compressors

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



Pipeline compressor stations



Pneumatic  
devices



# Provincial actions on methane

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- 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

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## 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

Page 6 – April-5-16



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