



# Pipeline Performance Report

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# Outline

- 》 Pipeline Performance Report
- 》 Highlights from 2018
- 》 Improving performance
- 》 Detailed Tableau report

# Industry Performance Program

- 》 Measures and discloses how companies are performing against our rules and requirements
- 》 Reporting since 2016
- 》 AER.ca > Protecting What Matters > Holding Industry Accountable > [Industry Performance](#)
- 》 Our reports include:
  - [Pipeline performance](#)
  - [Water use](#)

# Pipeline Performance Report

» Third annual update

» Includes:

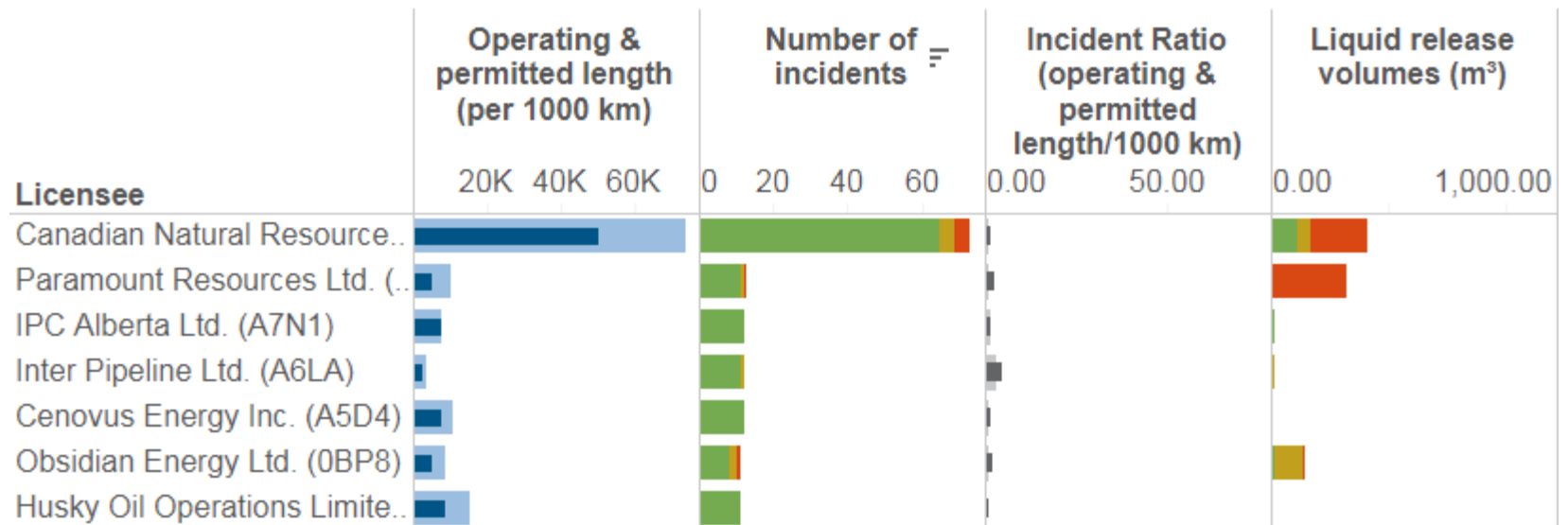
- information about each company involved in a pipeline incident
- data on all AER-regulated pipelines and on each pipeline failure between 2015 and 2019
- volumes and substances that were released
- causes of incidents

» Added new cause of failure attribute

# Industry Performance

## 》 Metrics:

- Number of incidents per 1000 km per year
- Total number of incidents
- Consequence rating (low, medium, high)
- Volume of product released



# Products Released

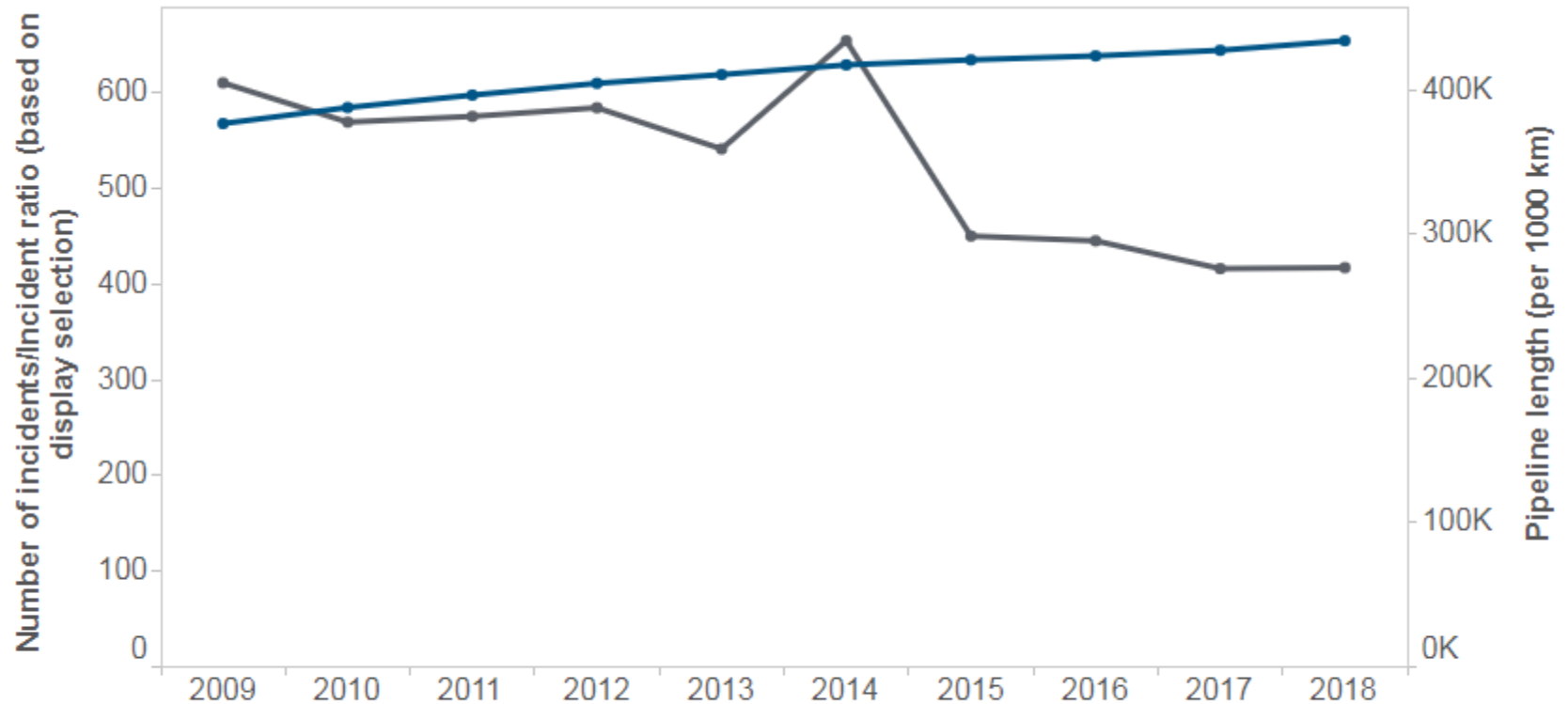
- 》 88% non-freshwater (salt/produced water)
- 》 39% of total liquid volume comes from top 5 incidents
- 》 67% of pipeline incidents had less than or equal to 1 cubic metre or about 6 bbls to no liquids released
- 》 In 2018, the largest liquid spill released was 335 cubic metres of salt water

# Highlights from 2018:

- 》 416 pipeline incidents in 2018, compared to 415 in 2017
- 》 About 86% of incidents were rated as being low consequence
- 》 Number of high consequence incidents dropped by 8%
  - 92% of high consequence incidents involved pipelines carrying salt water, or oil-well effluent
- 》 Internal corrosion remained the leading cause of incidents at 38% (51% failures)

# 10-Year Trend

- » The total number of incidents in 2018 was 32 per cent lower than in 2009



■ Total incidents or ratio

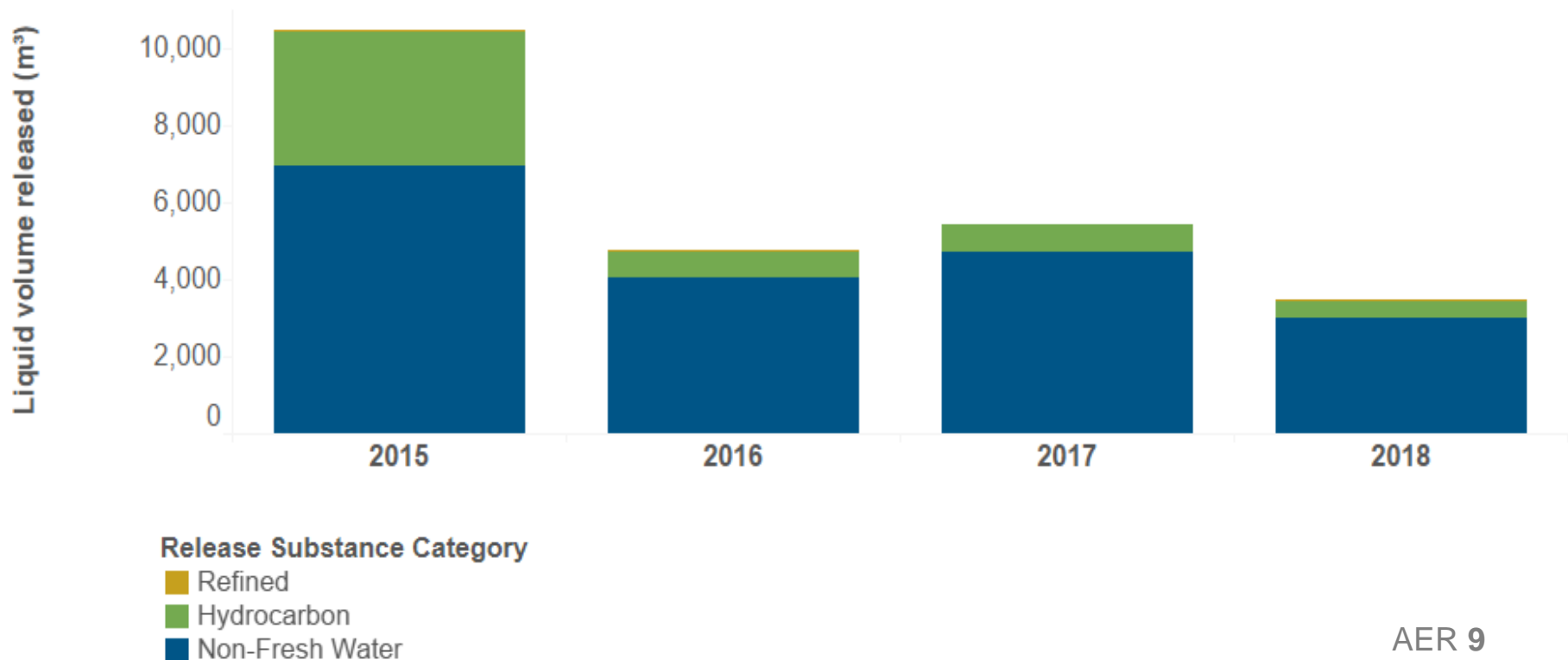
■ Pipeline length



# Liquid Volumes Released

- » In 2018, the total volume of hydrocarbon liquid, salt water, and produced water released was 36 per cent lower than in 2017

Total Liquid Release Volumes (m<sup>3</sup>) by Year



# Improving Pipeline Safety

- 》 Analyzing data on pipeline incidents
- 》 Enforce and encourage compliance through:
  - Proactive pipeline inspections
  - Incident reviews on every incident
  - Safety and loss management assessments
- 》 Continue to explore more features, trends, and details about contributing factors
- 》 Companies that perform poorly under program receive more attention

# Pipeline Performance Full Workbook

- 》 10-year trend
- 》 Inventory data
- 》 Company data
- 》 Field centre data
- 》 Liquid release volumes
- 》 Pipeline incident details
- 》 Incidents by failure type
- 》 Notes on the data



**Questions**



A landscape photograph showing a dirt road winding through rolling hills. The foreground and middle ground are dominated by vibrant yellow fields, likely rapeseed, interspersed with green grass. The background shows more rolling hills under a clear blue sky with scattered white clouds. A large white arrow graphic points from the left towards the text.

**Thank you**