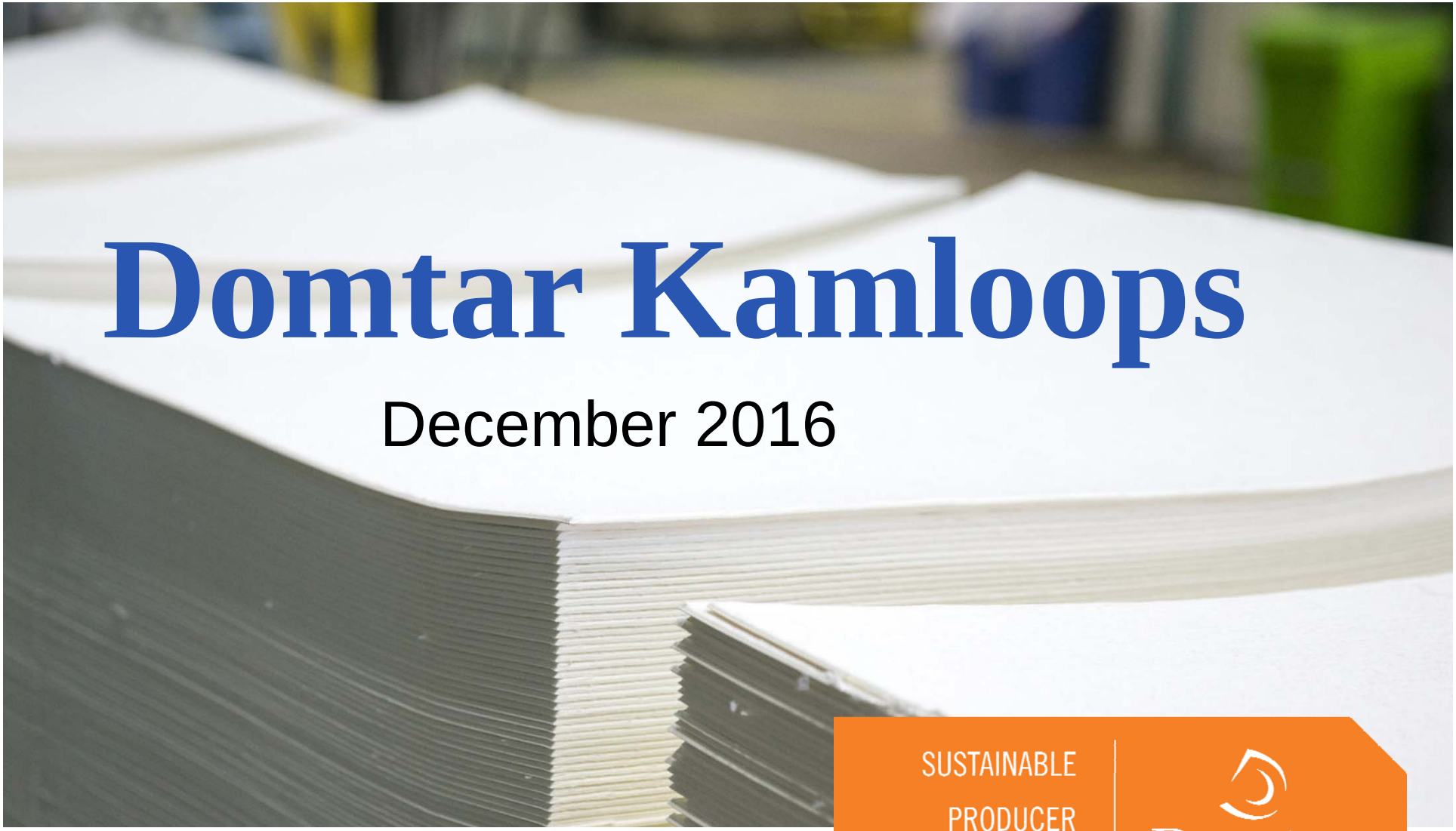


# Domtar Kamloops

December 2016

SUSTAINABLE
PRODUCER
OF PULP

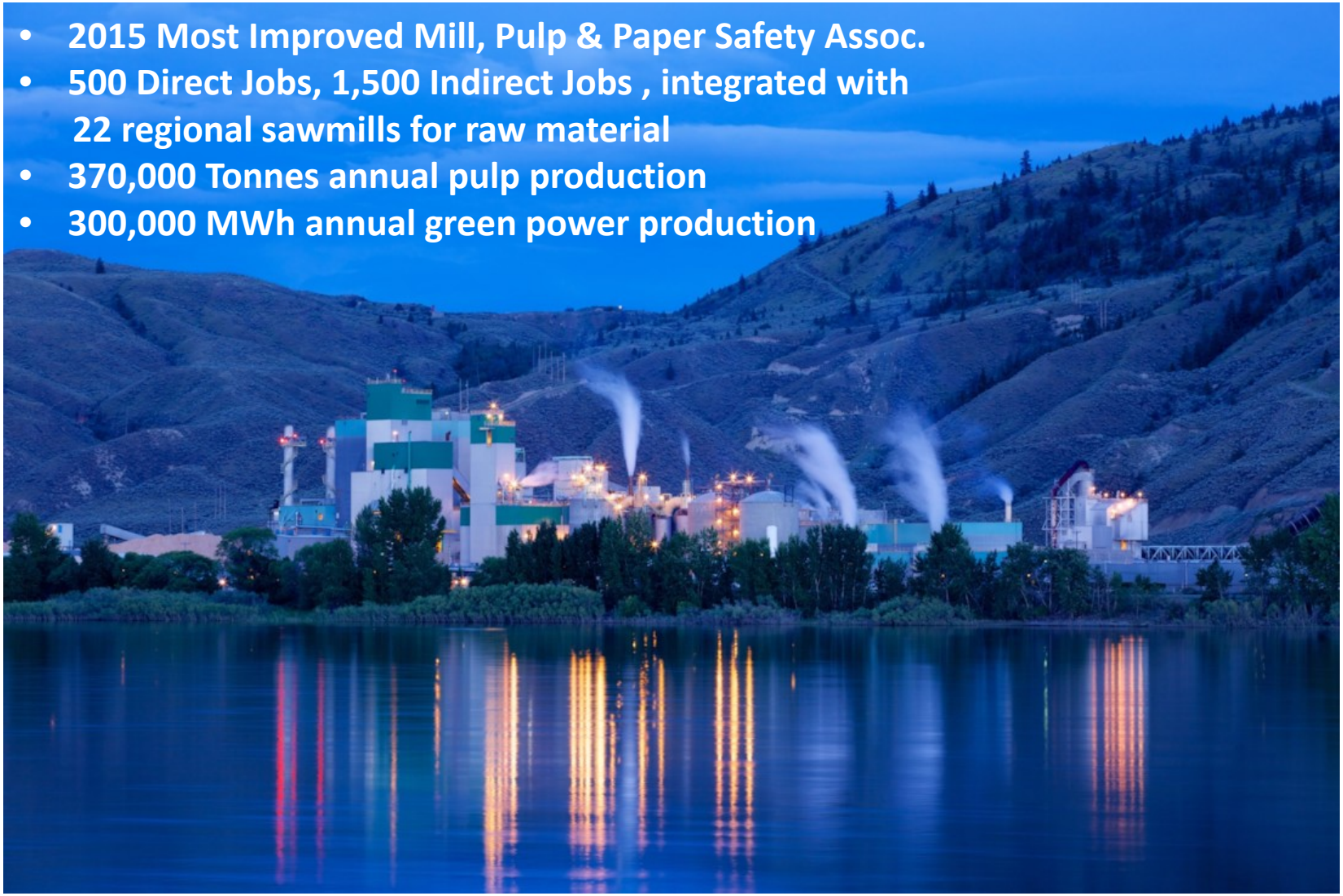
Domtar
PULP

# Domtar Kamloops

SUSTAINABLE PRODUCER OF PULP

Domtar PULP

- 2015 Most Improved Mill, Pulp & Paper Safety Assoc.
- 500 Direct Jobs, 1,500 Indirect Jobs , integrated with 22 regional sawmills for raw material
- 370,000 Tonnes annual pulp production
- 300,000 MWh annual green power production



# Kamloops Mill History

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**1965** - Start-up of 250 ton per day Kamloops Pulp & Paper Ltd.

**1972** – Capacity increased to 1050 ADMT/day, Weyerhaeuser takes ownership

**1988** – Capacity increased to 1200 ADMT/day

**2000** – Certification to ISO 14001 Environmental Management System

**2007** – Joined Domtar

**2013** – Closure of sawdust pulping line

**2016** – Record year for reliability and chip pulp production

# Domtar Mill System

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**Market Pulp Production**

| | |
|---|---|
| Kamloops | NBSK |
| Dryden | NBSK |
| Espanola | NBSK |
| Ashdown | Fluff/SBSK |
| Plymouth | Fluff |
| Hawesville | SBHK |
| Marlboro | SBSK |

# Products, Certifications

SUSTAINABLE PRODUCER OF PULP

Domtar PULP

**Products:**

Northern softwood Kraft pulp (bleached & unbleached)
Renewable, green power

**Customer's Products:**

Paper, Tissue/Towel, Molding Compounds, specialty papers,
Fiber cement siding materials

**Certifications:**

ISO 9001 (Quality)
ISO 14001 (Environment)
FSC Controlled Wood (Forestry)
PEFC Chain of Custody (Forestry)

*Rigorous independent scrutiny ensures integrity in the chain-of-custody from the forest to the market. All of Domtar's facilities are certified to the standards of the Forest Stewardship Council® (FSC®), Sustainable Forestry Initiative® (SFI®), and/or Programme for the Endorsement of Forest Certification™ (PEFC™). Where available, Domtar has a preference for FSC Certification. In addition to FSC, Domtar recognizes and utilizes fiber certified to SFI, PEFC, and ATFS standards.*

*To view Domtar's certifications, please visit:* http://www.domtar.com/en/sustainability/certification/10909.asp

# What is 'Pulping'?

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- Pulping takes wood chips and chemically separates them into lignin, extractives and cellulose.
- The process uses a solution of sodium hydroxide (NaOH) and sodium sulfide ($Na_2S$), and "cooks" the wood chips at high temperature and pressure.

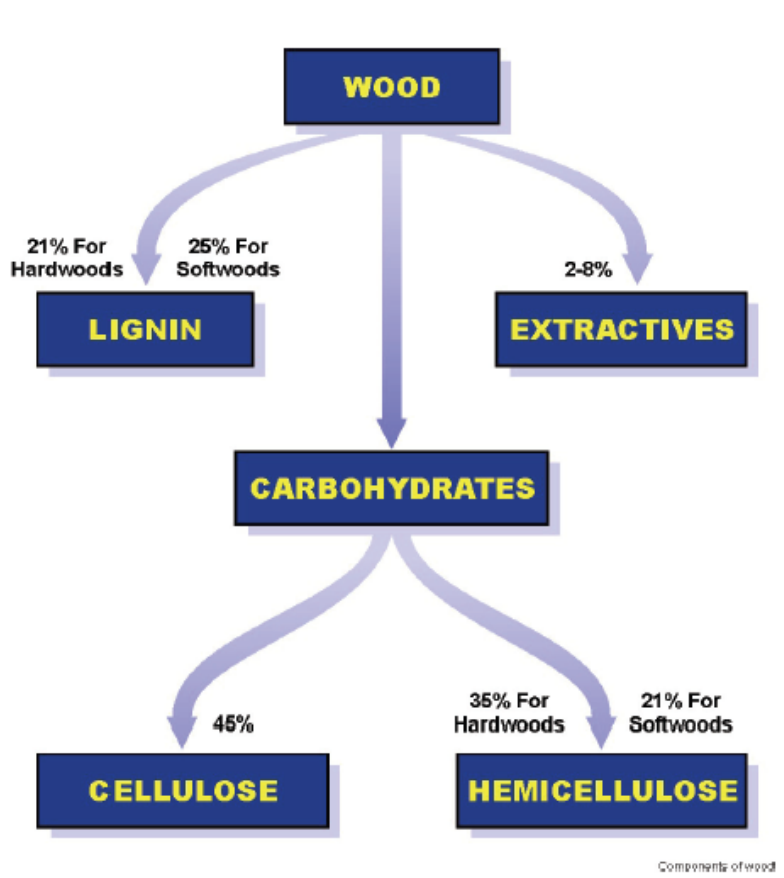


Figure 1: Chemical Components of Wood

# Why does it smell?

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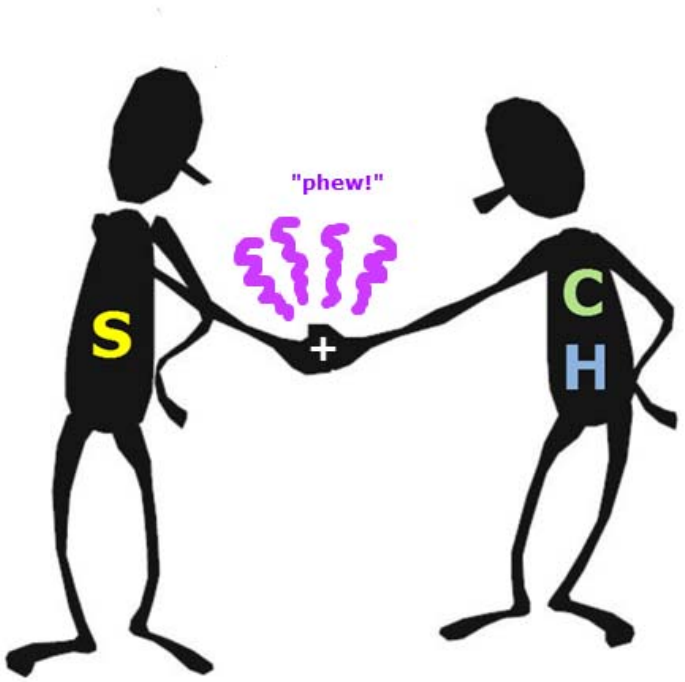
- In the cooking process, small amounts of the sulfur molecule combines with other molecules to form odourous, reduced sulfur compounds, thus giving Kraft pulp mills their characteristic odour.

- These smelly compounds are captured and treated, but even very tiny amounts can be noticeable.

- The human nose can detect sulfur compounds at the part per trillion level – making odour management very challenging!



# Air Emissions

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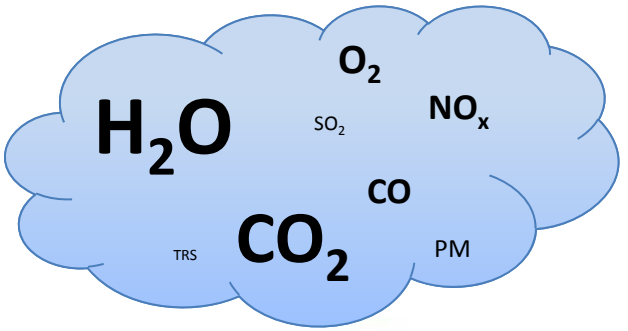
- Domtar's provincial air permit sets emissions limits and prescribes monitoring & reporting requirements.

- Key regulated parameters:
  - particulate (PM)
  - sulfur dioxide ($SO_2$)
  - total reduced sulfur (TRS)

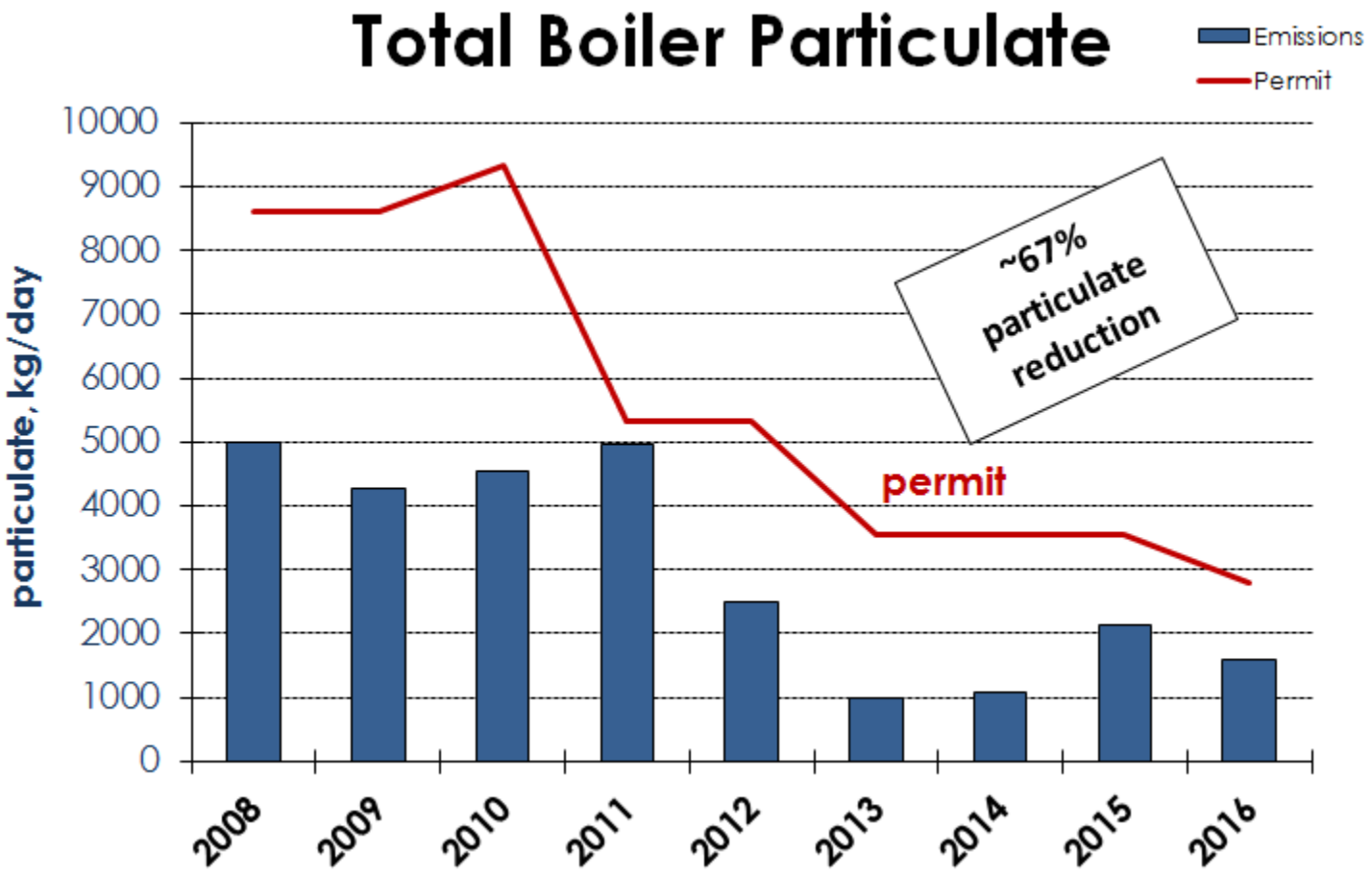
- Continuous improvement is an expectation of Domtar.




# Air Emissions

SUSTAINABLE PRODUCER OF PULP

Domtar PULP



# Air Emissions

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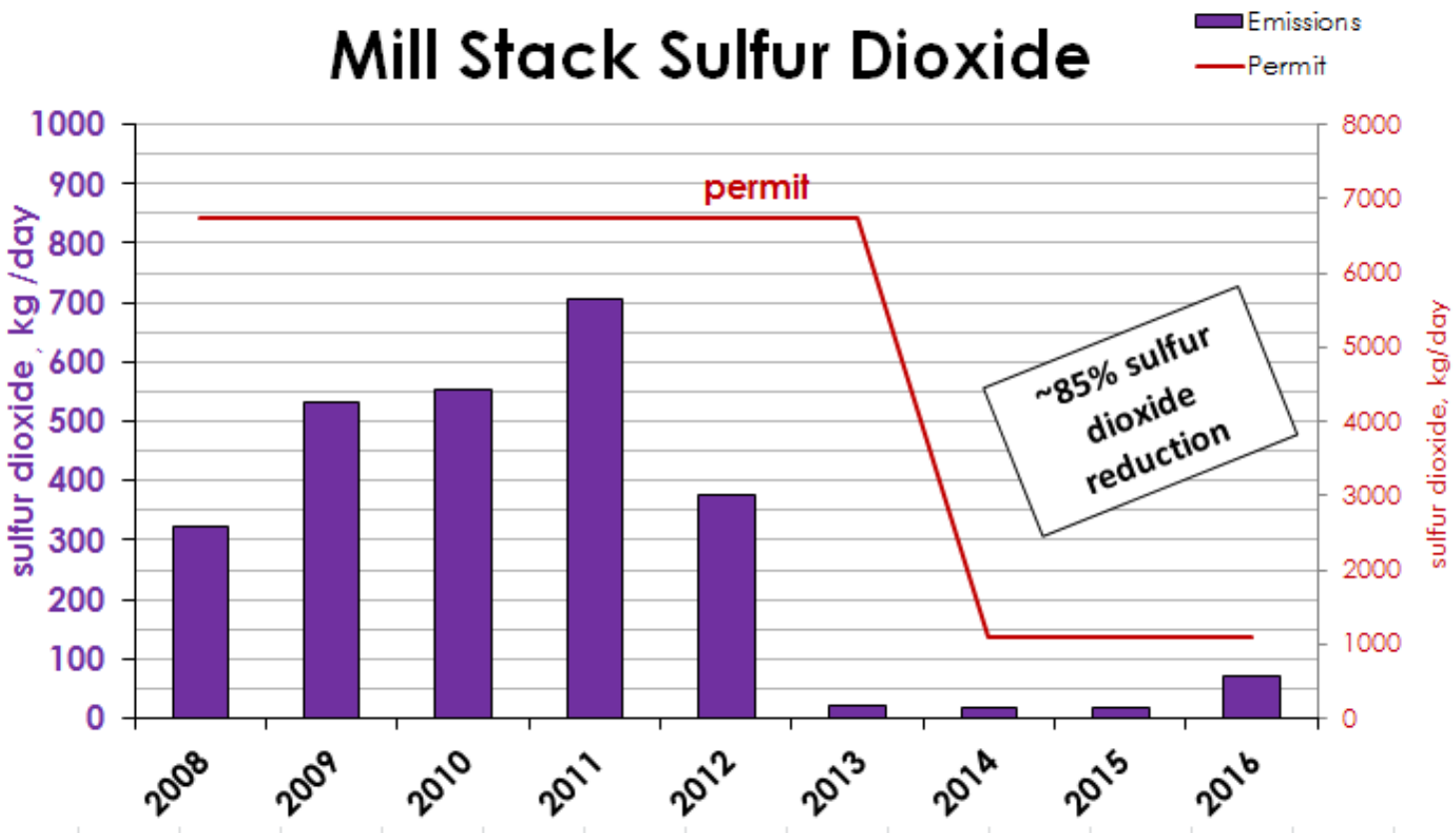

# Air Emissions

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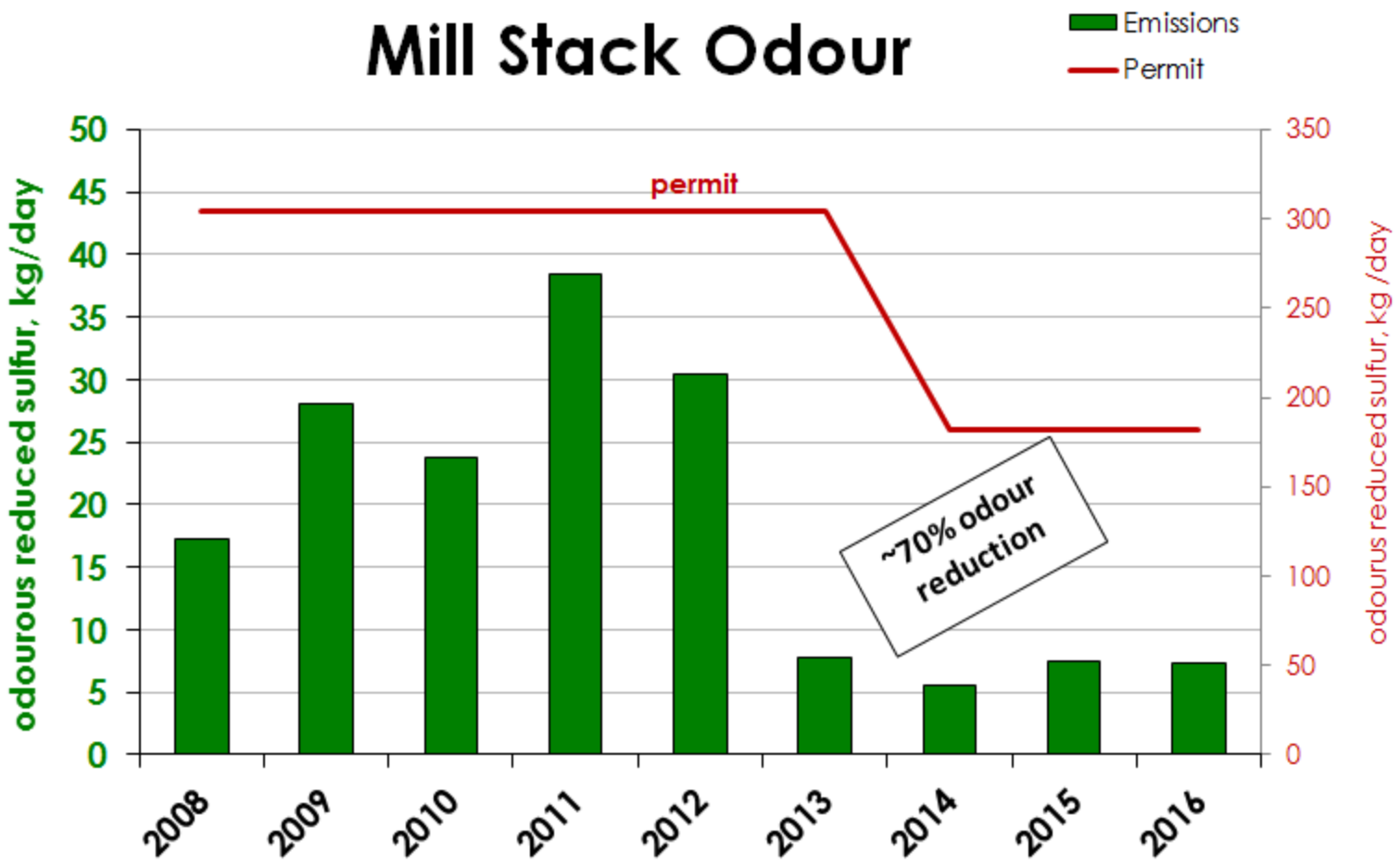

# Air Emissions

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- Domtar is responsible for managing and controlling what the pulp mill emits.
- People who work at Domtar do their best to run steady and stable every day; thereby minimizing odour and particulate.
- Domtar cannot control wind direction and/or inversion conditions, which can vary greatly day to day.
- Depending on weather conditions, mill odour can be more or less evident.

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United Way

ALS SLA CANADA

20 YEARS KAMLOOPS FILM FESTIVAL March 3 - 12, 2016

kamloops arts council

EARTH CHOICE Ambassadors

BC Wildlife Park Kamloops

sca

# Questions?

Domtar

97.5 THE RIVER 80s 90s & WOW! TOYS For Kids

Special Olympics

Postmedia Raise a Reader

EUReKA!

Kamloops Food Bank

NORKAM

INTERIOR COMMUNITY SERVICES ...ENRICHING LIVES

project(X) theatre productions

THOMPSON RIVERS UNIVERSITY


Domtar