## Coal – A Vital Canadian Resource

Dry Bulk & Commodities Conference Vancouver, Canada November 17, 2016

## About the Coal Association of Canada

#### • Vision:

- Canadians understand role and value of coal in Canada
- Mission:
  - Support Association members in development, growth and advancement of a safe, socially responsible and economically sustainable Canadian Coal Industry



## What Do I Know?

- 4<sup>th</sup> generation coal miner
- 30+ years in the coal industry miner, UMWA local and international
- Environmental and Government Policy former provincial Minister of the Environment, also Aboriginal Relations and Finance
- Now: President of the Coal Association of Canada

## What Do We Use Coal For?

#### Power Generation (thermal coal) & Steel Making (metallurgical coal)



Image courtesy of http://www.capitalpower.com/



Image courtesy of http://thetelegram.com/

## Coal Production – Alberta and BC

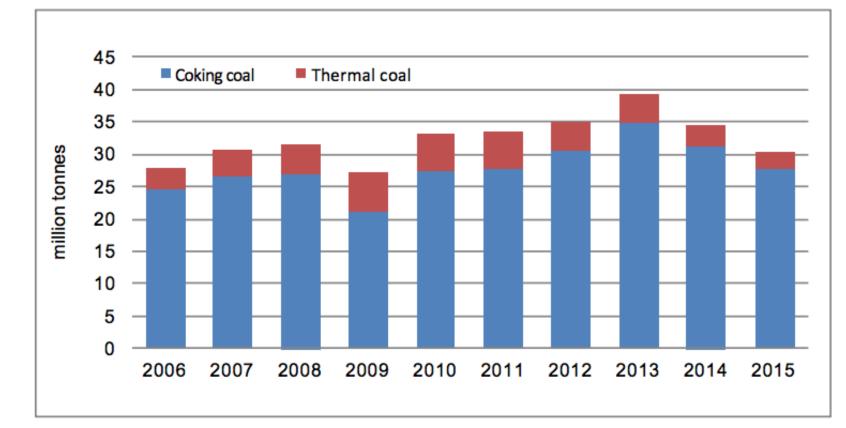
#### Alberta

- ~ 31 Mt production until 2015
- Majority is subbituminous (thermal) for domestic use
- Remainder is export metallurgical and thermal

### British Columbia

- 25Mt production in 2015
- Majority is bituminous for export
  - BC exports almost all of produced coal

#### Figure 6. Canadian Coal Exports, 2006-15



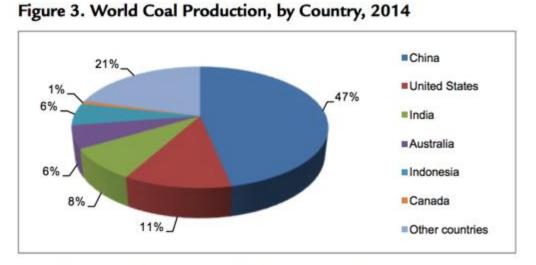
Sources: Natural Resources Canada; Statistics Canada.

## Coal Production – Canada and the World

#### Canada

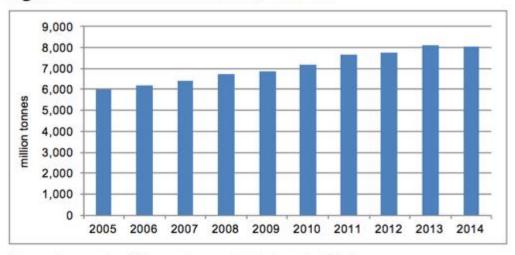
- ~ 70 Mt production 2014
  - 50% thermal, 50% metallurgical
- ~62 Mt production 2015
- 90% of exports are metallurgical
- ~**30MT** of coal exported annually
- Global
  - ~ 8,000 Mt produced in 2014

Canada is the 3<sup>rd</sup> largest metallurgical coal exporter in the world



Source: International Energy Agency, Coal Information 2015.





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## Canadian Coal is the Cleanest, Safest Coal

- Heavily regulated industry, from mining to transportation
- Numerous reclamation success stories
- Innovator of clean coal technology
- Alberta first jurisdiction to put a price on carbon

## What about Mining?

- Coal mining is a temporary use of the land
- Reclamation plans made years before mine is operational very strict conditions
- Over 75% of land disturbed by coal mining in Alberta is already reclaimed
- Over 42% of mines in British Columbia have already been reclaimed
- New recreation areas, fishing lakes, agricultural areas created



Sphinx Lake Project (Luscar) Photo: AB Chamber of Resources



Highvale Mine Reclaimed Land Photo: AB Chamber of Resources

## **Coal Consumption**

 China, USA and India accounted for 70% of global coal usage in 2014, according to International Energy Agency's Coal Information 2015.

Meanwhile... Canada consumed less than 0.5%

#### Future Outlook...

- Coal is not going away anytime soon
- Coal remains 2<sup>nd</sup> largest global energy source until 2030, and 3<sup>rd</sup> largest until 2040, according to IEA's Outlook 2016
  - Essential ingredient in steel makes 90% of steel worldwide

## Challenges facing the coal industry

#### Canada

- Stricter environmental policy
- Rising costs versus moderate profits
- Lack of understanding of value of the industry
- Global
  - International environmental agreements COP21, Morocco
  - Saturated coal market

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# What's happening around the world? Why does it need coal?

- People are moving into cities # of urban dwellers to double to 7.3 billion by 2050, 96% of which will be in developing countries
  - Will need electricity and infrastructure both thermal and metallurgical coal
- Rapid development requires affordable steel

## Why do we need Canadian coal?

- Important part of maintaining strong trade economy
- Ensures that steel we *import* is manufactured from coal we *export*
- Canadian coal is high quality, both metallurgical and thermal

## What Are We Doing?

- Increased advocacy in public affairs to increase awareness of value of industry
- Increased cross-industry collaboration
  - *ie. CoalAlliance, Act For the Future*
- Increased conversation with stakeholders

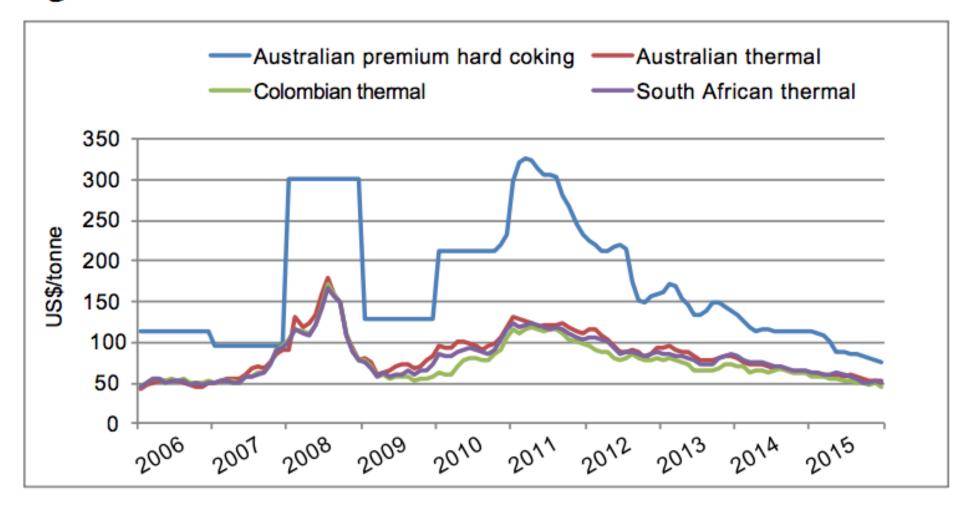
## What impact will the current US election have on the Canadian coal industry?

- President-Elect Trump has promised to revive the coal industry
- Interpretations:
  - Expanded leases on public lands
  - Rolling back the EPA power plan
  - Relaxation of federal regulations
  - Potential of pulling out of NAFTA

## What We Don't Know

- Will it increase investment?
- Will it improve the economy in mining states?
- What would a new bilateral trade agreement look like?
- Will it increase exports?

#### Figure 7. Coal Prices, 2006-15



## What are we saying?

- Coal has a place in the global energy mix for decades to come, and is essential in our trade relationships
- Canada is an important trade partner, not just for the high quality exports, but as a supporter of environmental innovation
- Important that we increase awareness of the great work the Canadian Coal industry does
- Industry, at all points in supply chain must be proactive



## References

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- http://www.forbes.com/sites/danielrunde/2015/02/24/urbanization-development-opportunity/#57e907016277
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