Canada's Wood Pellet Sector

Presentation to the European Pellet Conference Wels, Austria February 28, 2019

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Outline

- Canadian wood pellet production statistics
- Canadian wood pellet markets
- Regional developments Canada-Québec

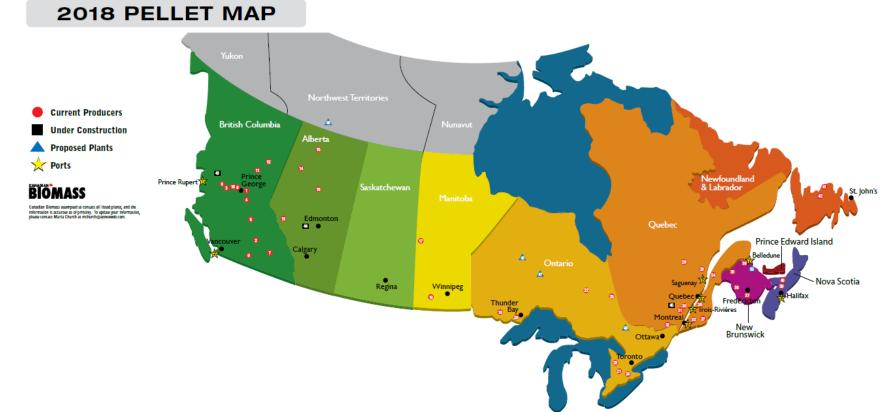




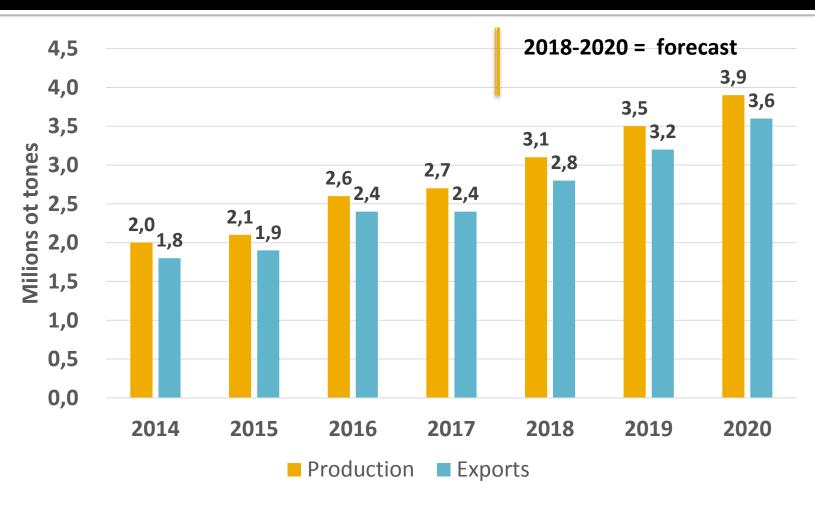
Canada's wood pellet plants



- 44 pellet plants in Canada
- Export focus, therefore concentrated near coasts
- > 4 million tonnes annual capacity



Canadian production and exports

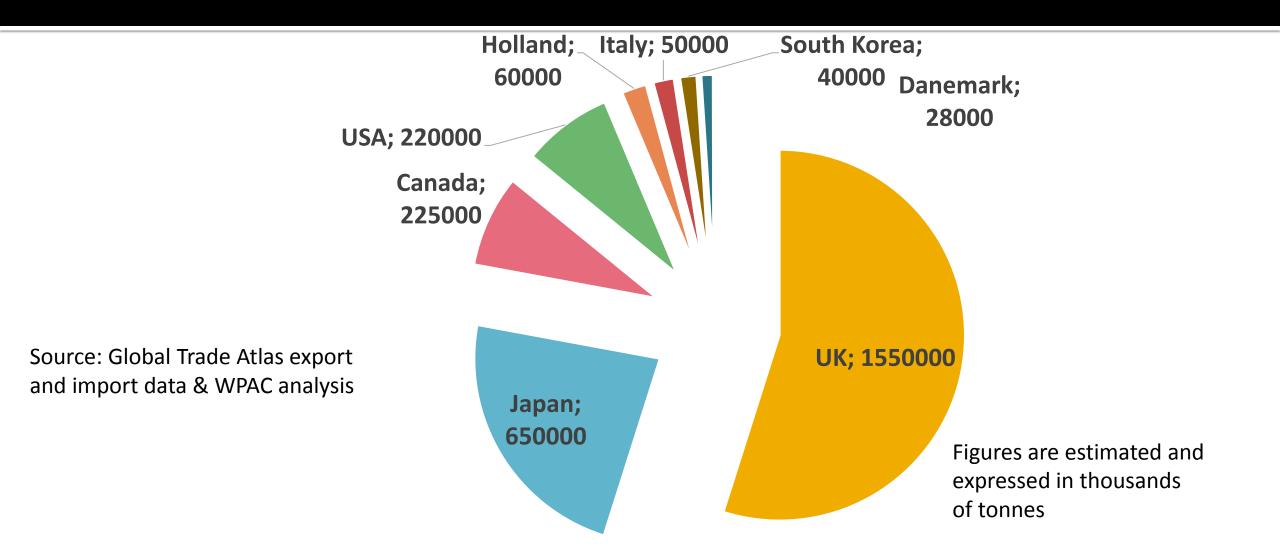


Source: Global Trade Atlas export and import data & WPAC analysis

Canada: pioneer in overseas pellets

- First overseas bulk shipment
 Sweden 1990, 5kt
- First commercial offtake agreement:
 Sweden 1998
- First trans-Pacific shipment
 Japan 2008
- First Panamax shipment
 UK 2015, 60 kt

Canada's pellet markets – 2018

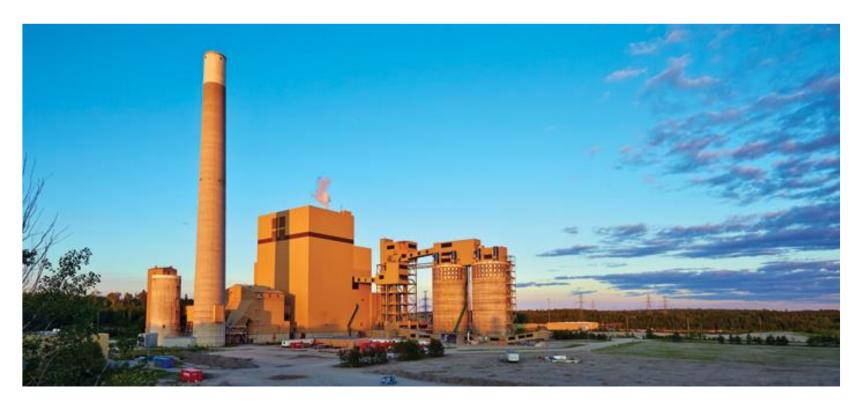


Wood Pellet Association of Canada

Canada's domestic wood pellet market

- Estimated internal market 250-300 kt/a.
- Pellets used for power generation in Ontario (90kt/a), and for residential and commercial heating, mainly in areas off the natural gas grid.
- Stoves dominate, but boiler installations are increasing slowly, especially in NWT and Atlantic Canada.
- Coal is to be eliminated by 2030.

Ontario Power Generation



Ontario Power Generation's Atikokan Power Plant: converted from coal, now firing on 100% wood pellets

Canada's domestic wood pellet market

- Regional efforts starting to pay off.
- North West Territories government exemplarity has created huge pellet market penetration
 1 toppo/vr/resident)
 - (> 1 tonne/yr/resident)
- Atlantic provinces have installed over 30 systems > 50 kw, tenders for 20 more.
- Quebec has created Vision Biomasse with aims of using 1 000 000 tonnes of biomass per year, at least half pellets.

Vision Biomasse Québec

- Multiple stakeholders(GO,NGO, EnvNGO, etc.)
- Recognized by government support programs
- Organizing communications
 - Website with documentation and examples
 - Annual Biomass conference



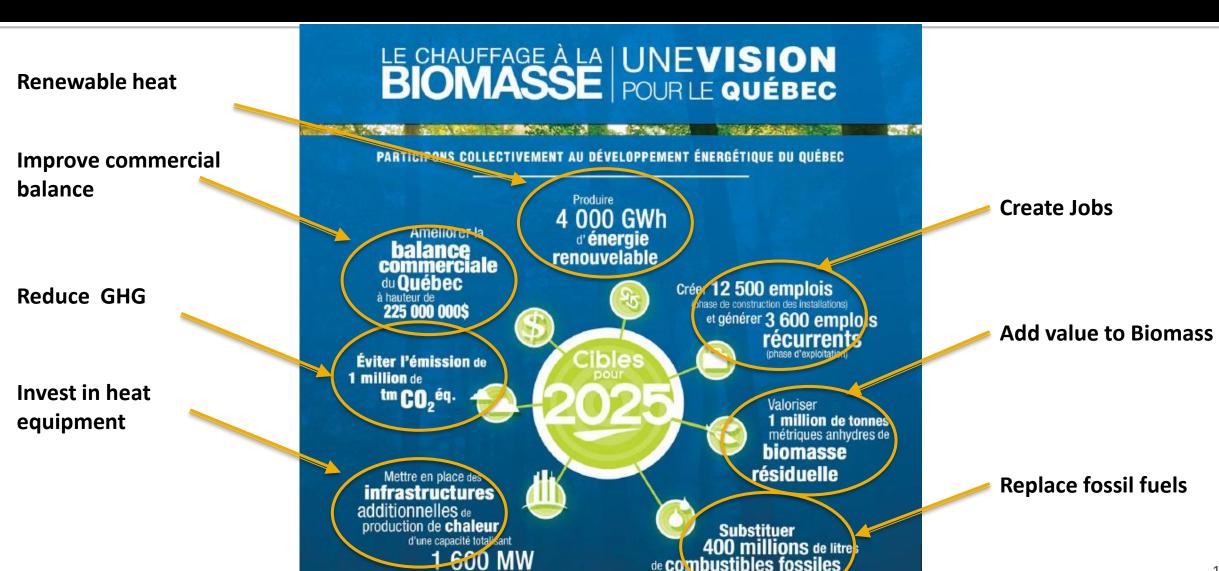
Vision Biomasse Québec

- Working with Quebec Government Energy Transition office (TEQ)
- Over 6,5 Mt/yr of forest biomass available
- Potential market ~ 2 Mt/yr

TABLEAU 1 : SCÉNARIOS 1 À 4 — POTENTIEL NET DE SUBSTITUTION HORS DE L'ÎLE DE MONTRÉAL AU MAZOUT LÉGER, AU MAZOUT LOURD, À L'ÉLECTRICITÉ ET AU PROPANE PAR LA BIOMASSE FORESTIÈRE

	Mazout léger (litres)	Mazout lourd (litres)	Propane (litres)	Électricité (GWh)	Granules (tma)	Copeaux (tma)
Scénario 1	63 639 279	13 051 376	0	0,0	47 559	114 473
ajout incrémental	0	0	4 593 775	1 190,7	46 790	279 988
Scénario 2	63 639 279	13 051 376	4 593 775	1 190,7	94 349	394 461
ajout incrémental	84 693 037	18 673 718	31 487 981	2 744,0	809 791	113 634
Scénario 3	148 332 315	31 725 094	36 081 756	3 934,8	904 139	508 095
ajout incrémental	68 391 130	15 105 109	13 005 901	1 460,0	294 034	271 118
Scénario 4	216 723 445	46 830 203	49 087 657	5 394,8	1 198 173	779 213

Vision Biomasse Québec visionbiomasse quebec.org



WPAC market development

- Produced two videos on pellet use:
 - Industrial: www.pellet.org
 - Residential: www.pelletheat.ca
- Regionally targeted social media campaign during the fall of 2018
- Currently preparing marketing strategy towards pellet appliance buyers.

Conclusions

- Canada's pellet industry is growing thanks to demand from Europe and Asia
- Repurposing PC power plants for co-firing or dedicated firing with wood pellets is proven and widely used in many countries. Canada should adopt this more widely.
- There is a huge opportunity to increase the use of wood pellets for domestic heating in Canada built on strong regional bases

Thank you!

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