

Quebec Non Residential Market Development

WPC Annual General Meeting

Quebec
April 2014

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Manager

Presentation content

- **Cecobois in a few words**
- **Current non residential market**
- **Market development initiatives**
- **Treated wood**



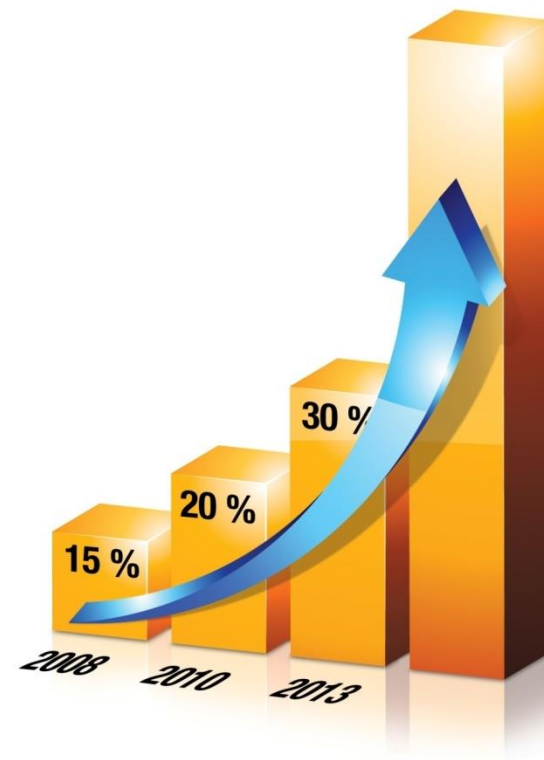


Mission

Promote, facilitate and support the increase use of wood in non residential construction.

Objective

Work toward doubling market share within five years and to multiply wood demand by three.



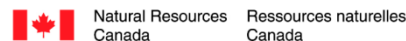
Cecobois Team

Team

- 4 structural engineers
- 1 architect
- 2 communication agent
- 1 manager

Budget

- 1.4 million / year
 - Industry 20 %
 - MRN 40 %
 - NRCan 40 %



Quebec Forest Industry Sector

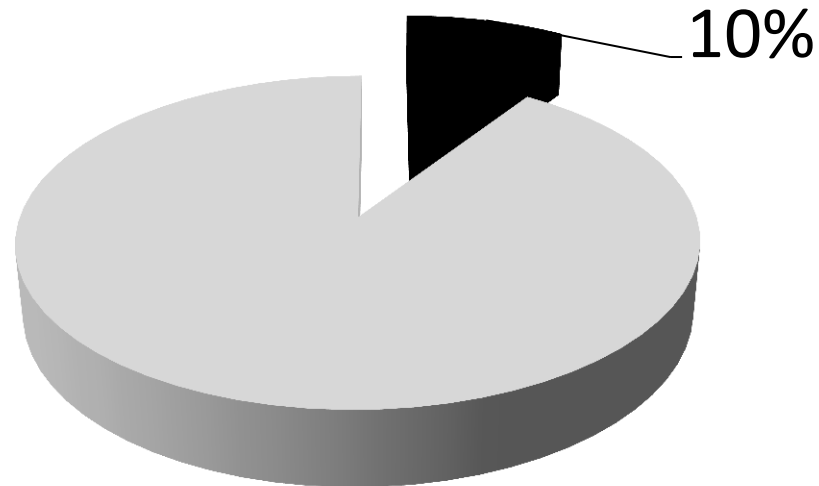
	Mines (2012)	Aerospace (2012)	Alluminum (2012)	Forest Industry (2012)
Jobs	18 166	42 550	7 714	60 906 ¹
Sales	8,2 G\$	12,2 G\$	7,3 G\$	15,8 G\$

Source: MRN

¹ 10 000 emplois seront à combler au cours des 5 prochaines années.

North american market share

Softwood lumber 2012

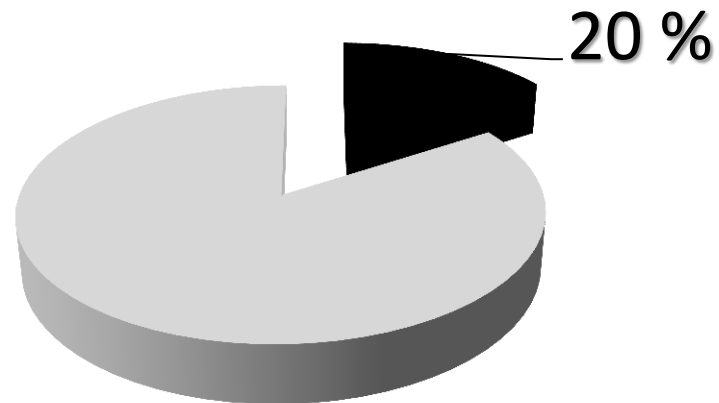


Quebec production : 4,6 billions bf

Source : Statistique Canada, Wood Markets

Share of Canadian production

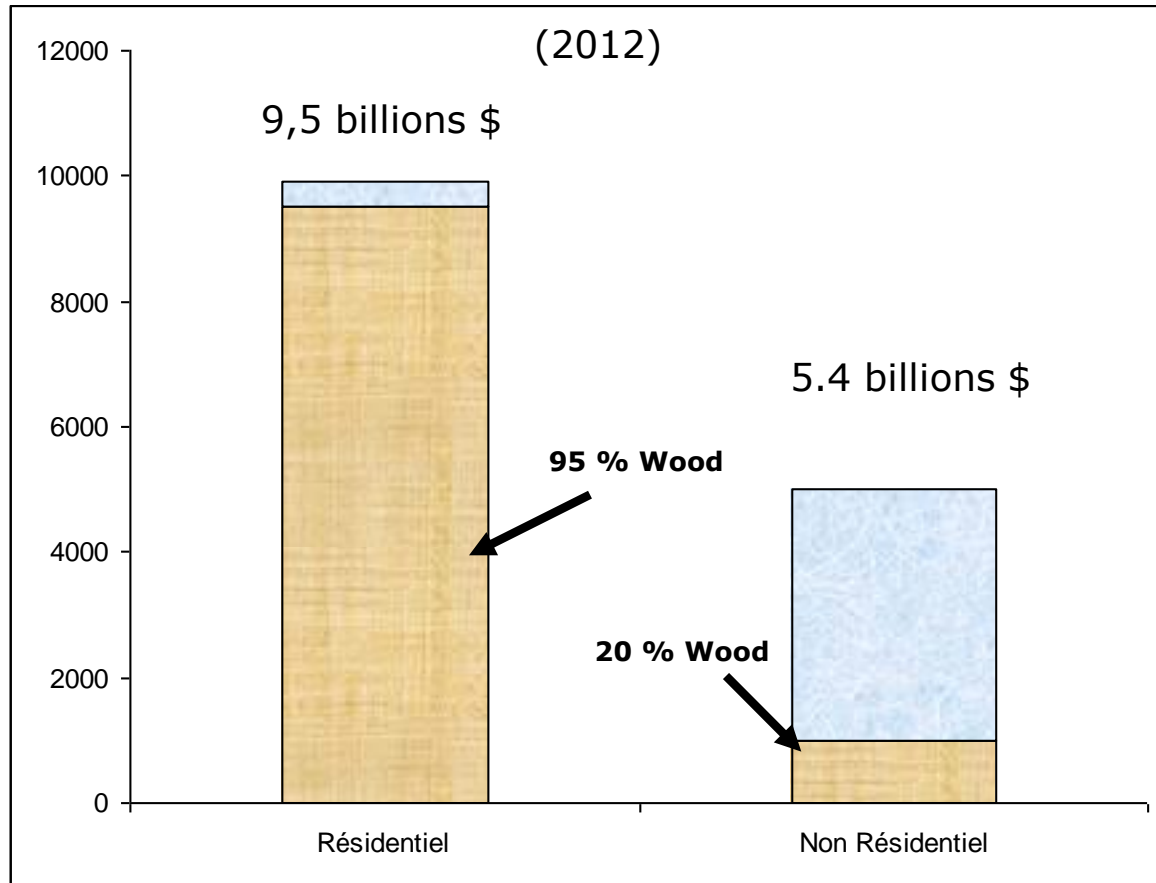
Softwood Lumber 2012



Production au Québec 4,6 billions bf.

Source : CIFQ

Value of buiding permits in Quebec Non residential market



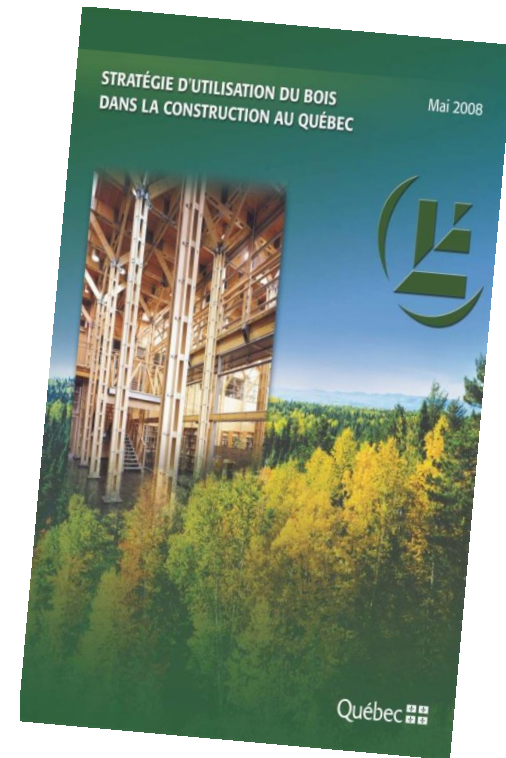
Activities

1. Technical support (550 inquires/year)
2. Continuous education & training
3. Technical guides (9 guides)
4. Design tools (2 softwares + 8 calculators)
5. Wood Design Award (Prix d'excellence)
6. Student Contest (Défi cecobois)



History of the wood movement

- **December 2007** – Summit on wood industry
Consensus about the necessity to use more wood in the non residential construction.
- **May 2008** – Government Wood Use Strategy
360 millions bf – 600 000 T of CO₂
- **Février 2012** – Beaulieu Report and Recc.
- **Avril 2013** - Government Wood Charter
- **June 2013** – 6 story res. building accepted

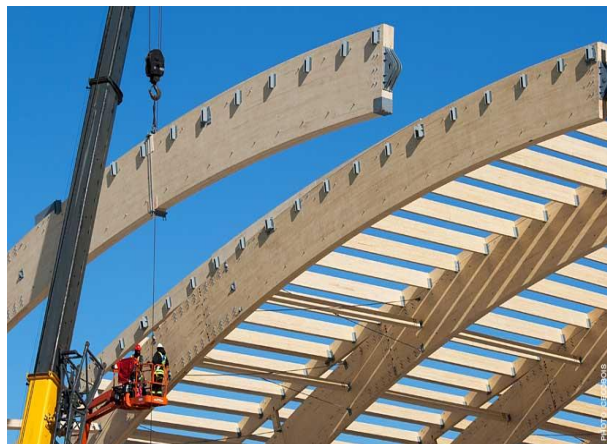


Wood Charter = Treat Wood Fairly



1. Wood must be considered and evaluated at the preliminary stage for all new buildings funded by the government.
2. A comparative analysis of carbon footprint must be completed.

Glulam Systems



Arches en bois lamellé-collé de
456 x 1 862 mm (18" x 73")
rotulées au centre
73,5 m (240 pi) de portée
32 000 kg chacune

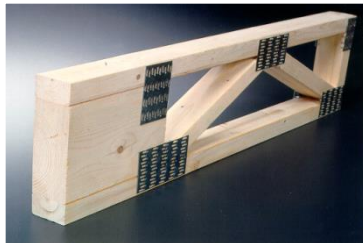


Light frame prefab system

Long span trusses – Tall prefab walls



Engineered Wood



Fédération des chasseurs et pêcheurs



PHOTO: STÉPHAN MONTIGNY
PROJET GAGNANT
prix
d'excellence
cecobois
2011

Catégorie : Bâtiment commercial

Gymnasium - École vision (Québec)



Architecte : Claude Guy, architecte
Ingénieur en structure : Génio Structures



Ultramar Gas Station - Québec



Faberca Plant - Portneuf



Holiday Inn (Sainte Hyacinthe)



4 étages
1394 m² de superficie par étage



Architecte : Favreau & Blais architectes, Granby
Ingénieur: Équation groupe-conseil, Laval

Community Centre - Betsiamites



Photo : Stéphanie Groleau

Architecte : Richard St-Pierre Architecte
Ingénieur en structure et civil : Groupe-Conseil TDA
Photos: Stéphane Groleau



Aréna de l'UQAC - Chicoutimi



Photo : Stéphane Groleau



PHOTO : STÉPHANE GROLEAU

PROJET GAGNANT
prix
d'excellence
cecobois 2013
Catégorie:
Bâtiment institutionnel
de plus de 1 000 m²

Architecte : Lemay architecte et les architectes associés
Ingénieur en structure : Cégertec

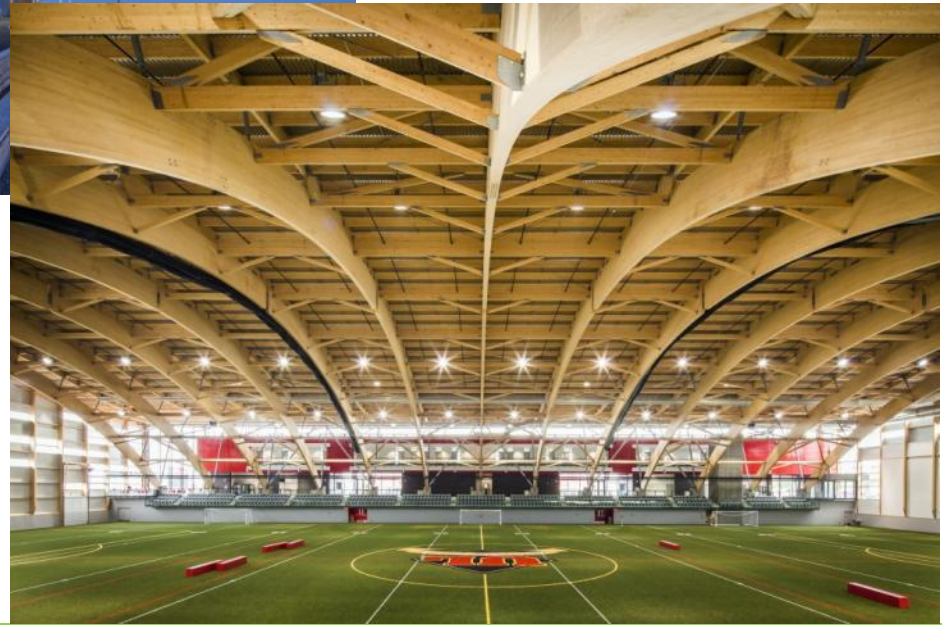


Exeltech Hangar - Dorval



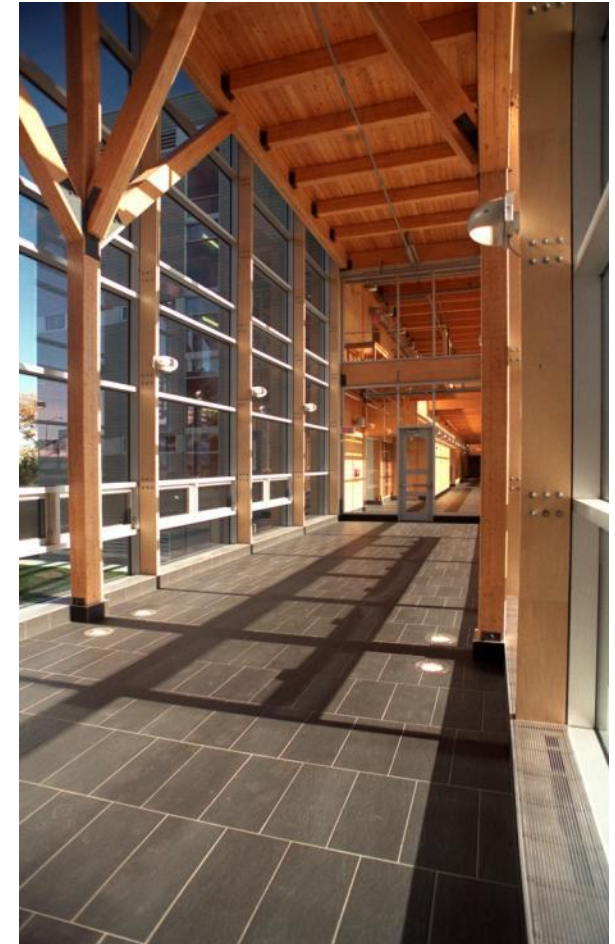
Architecte : Guillermo Farregut, Giasson Farregut
Ingénieur en structure : Michel St-Germain

Telus Stadium – Laval University



Architecte : ABCP architecture
Ingénieur en structure : Bureau d'Études Spécialisées

Pavillon Gene H. Kruger – Laval University



Architecte: Les architectes Gauthier, Gallienne et Moisan
Ingénieur en structure: BPR Groupe-conseil

Pavillon – Sherbrooke University



Photo : Espace Vital



BMR Hardware



Police Station - Beauport



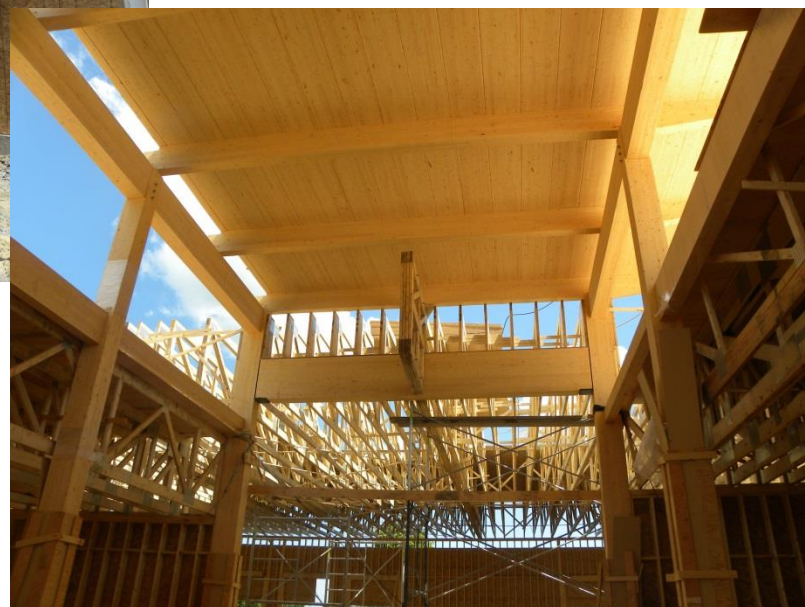
Port Station –Saguenay



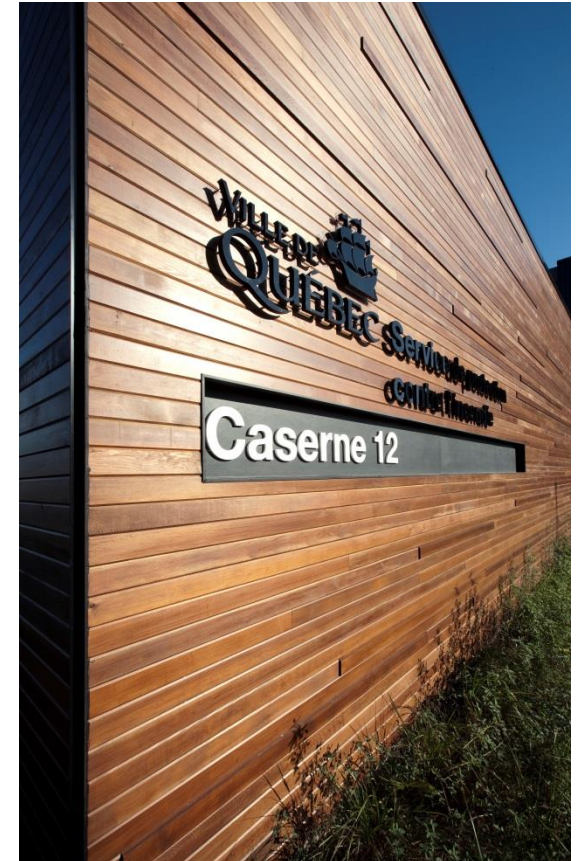
Park Office - Temiscouata Lake



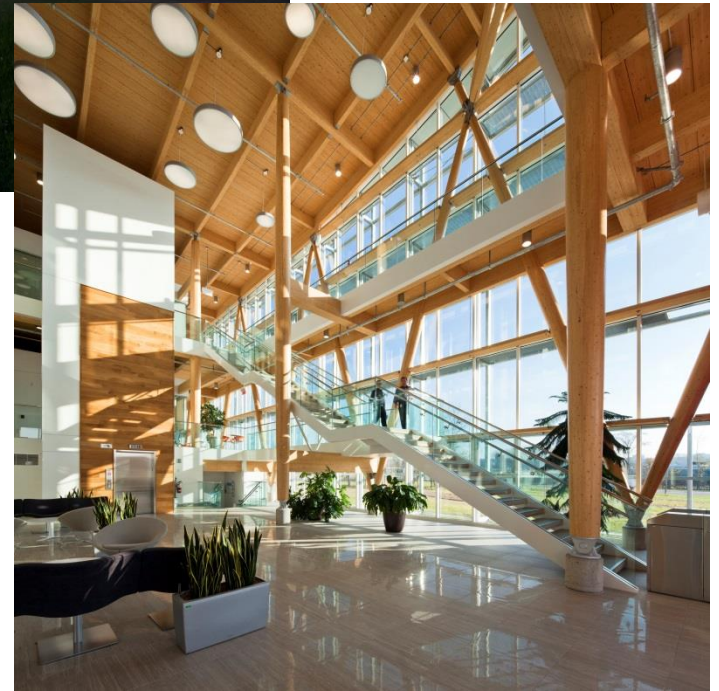
Community Centre – Saint-Ephrem



Fire Hall 12 – Val Belair



GSK Office - Québec



Fondation – Québec



- 6 000 m²
- 6 story
- 22.2 m high
- 1 000 m³
- Glulam



District 03 - Québec



Architecte : Éric Pelletier Architectes
Ingénieur : Nordic Structures Bois



Light frame 6 story wood buildings Richmond (C.B) - Remy Project

Trois bâtiments couvrant une superficie de 17 650 m2 dans
188 unités d'habitation



Bridges



PONT RIVIÈRE MONTMORENCY



**PONT MAICASAGI
68 meters**



Lumber used in concealed spaces building (technical voids)

For 6 story wood buildings, floor and roof concealed space must be sprinklered **or**

built with fire retardant treated wood according to **NFPA 13.**

- except if voids are filled with non combustible insulation
- except when voids are (compartimenté)
- next Code change may drop the requirement for filling the voids with non combustible insulation



Exterior Wood Siding on a non combustible construction

For buildings requiring a non combustible construction, exterior wood siding is permitted as long as the wall assembly meets **CAN/ULC-S134** « Fire test of Exterior Wall Assemblies».

Prior to the fire test, the wood siding must go through the Accelerated Weathering test (ASTM-D2898).

Assemblies with fire treated wood siding meets this requirement but none is available in Quebec!

Not compliant



Merci!

