

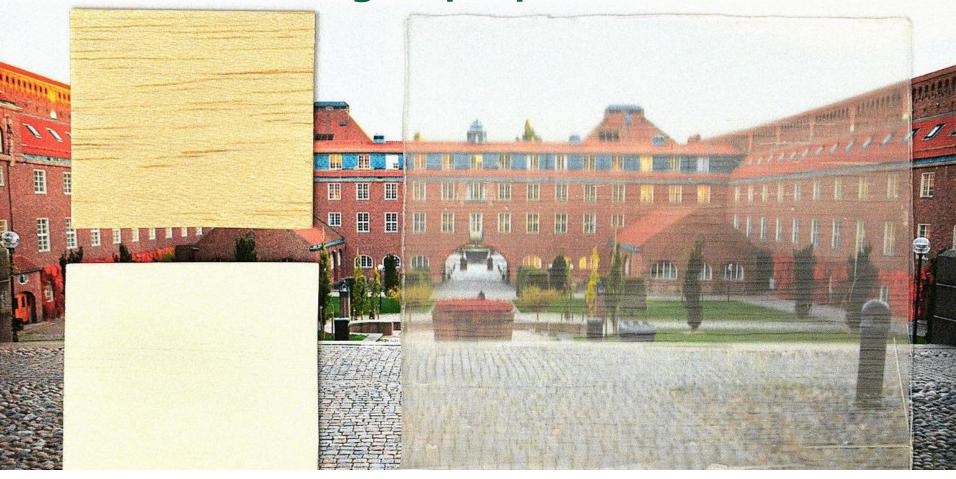
### **BIOECONOMY**

A place for forests





### Ouvrir la fenêtre sur un nouveau paysage: les biotechnologies propres du bois



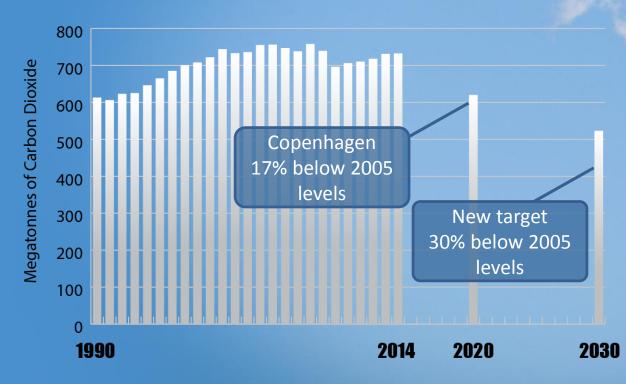
Source:www.fastcodesign.com





# Canada's commitment to a low carbon economy: a place for forests

#### **Carbon emissions in Canada**





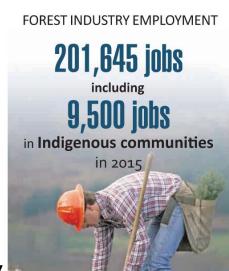
# Canada's commitment to growing the economy: a place for forests

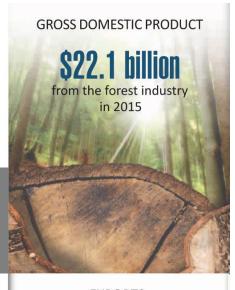
The forest sector creates more jobs and contributes more to the balance of trade for every dollar of value added than any other natural resources sectors

### Canada's forest industry is trade oriented:

- Exports: \$32.7 billion (2015)
- Over 70% of most forest industry products are exported
- Canada is the world's largest exporter of lumber, NBSK, and newsprint

Product and market diversification is key









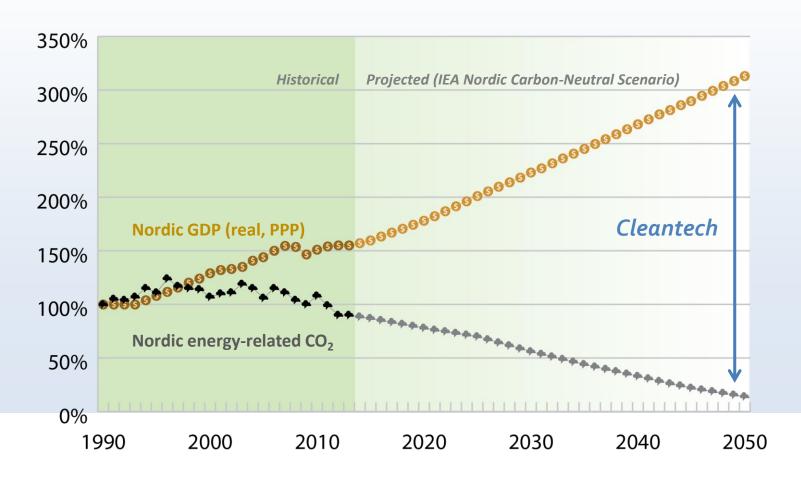
## Bioeconomy: part of the solution to a green low-carbon economy







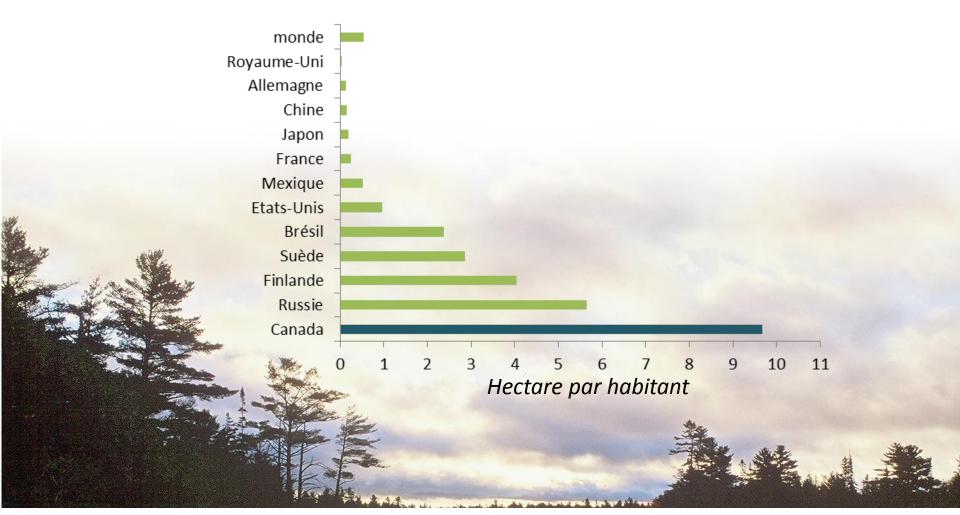
### Biocleantech: bridging the gap between clean economies and growing economies







### Biotechnologies propres: l'avantage forestier du Canada

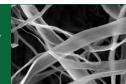






#### Biocleantech: it's here now!

**Cellulose nanomaterials** for pigments, inks, coatings, biosensors, reinforcement



**Lignin** for glues, resins, rubber additives, thermoplastics, pharmaceuticals and insulating foams



Bioenergy for heating or aviation fuel



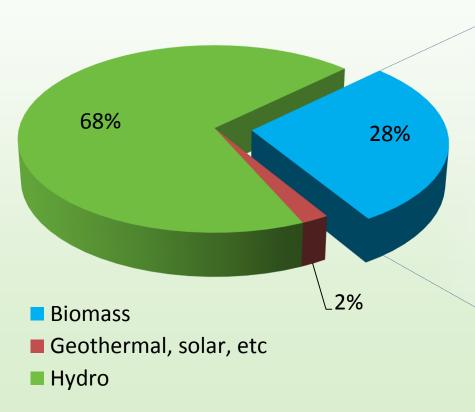
**Advanced Building Systems** for tall wood buildings, bridges, arenas etc.







#### Biocleantech: bioenergy leads the way



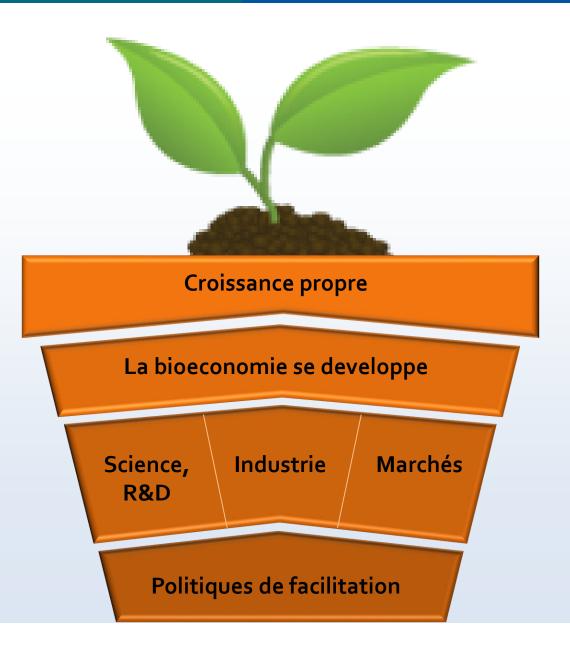
- 150 community heat projects in 2014 using only biomass (from 5 projects in 2000)
- Pulp and paper the largest industrial source of cogeneration
- 77 Operating biogas installations in 2013 (from 43 operations in 2012)
- Renewable fuel consumption doubled from 2010-2014

Canada's total renewable energy production in 2014





S'assurer que la biotechnologie propre livre ses bienfaits







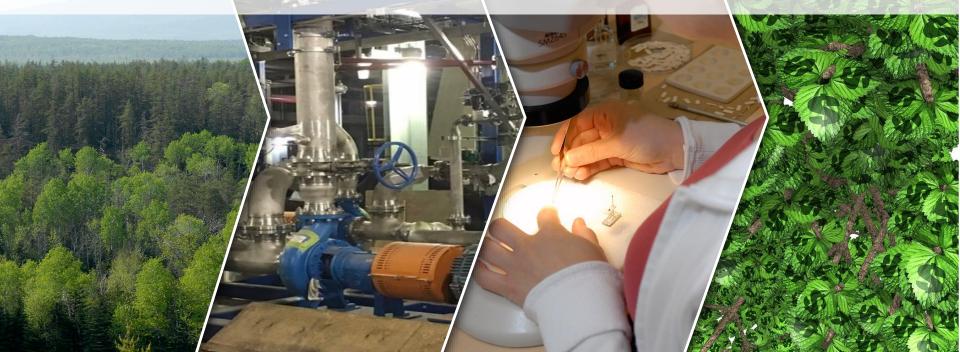
## The forest sector: a pioneer supporter of the bioeconomy

Constantly improving the sustainability of biomass supply & supply chain

Advancing the economic and environmental competitiveness of bioenergy and bioproducts

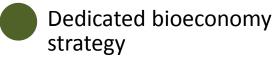
Better understanding and communicating the eco-credentials of bioenergy and bioproducts

Forest and forest products generate environmental and socio-economic benefits



#### Strategies: how Canada measures up





Partial bioeconomy strategy (e.g. bioenergy, bioindustry, regional strategies)



Bioeconomy strategy under development







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