

# Industrial Bioeconomy: Agriculture and Agri-Food Canada

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Agriculture and  
Agri-Food Canada

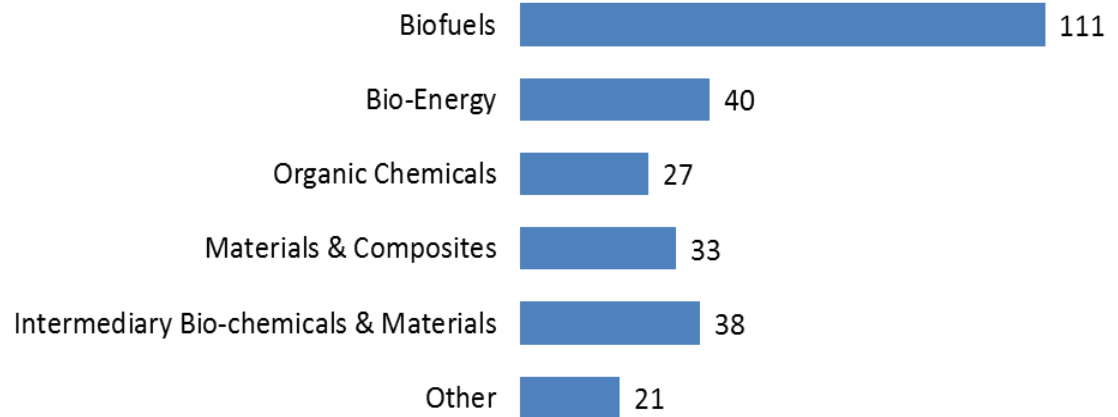
Agriculture et  
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Canada

# Canada's Industrial Bioeconomy

- In 2015, 190 firms were involved in the production or development of non-conventional industrial bioproducts in Canada with estimated revenues of bioproducts at \$4.27 billion and employment of 5,618.

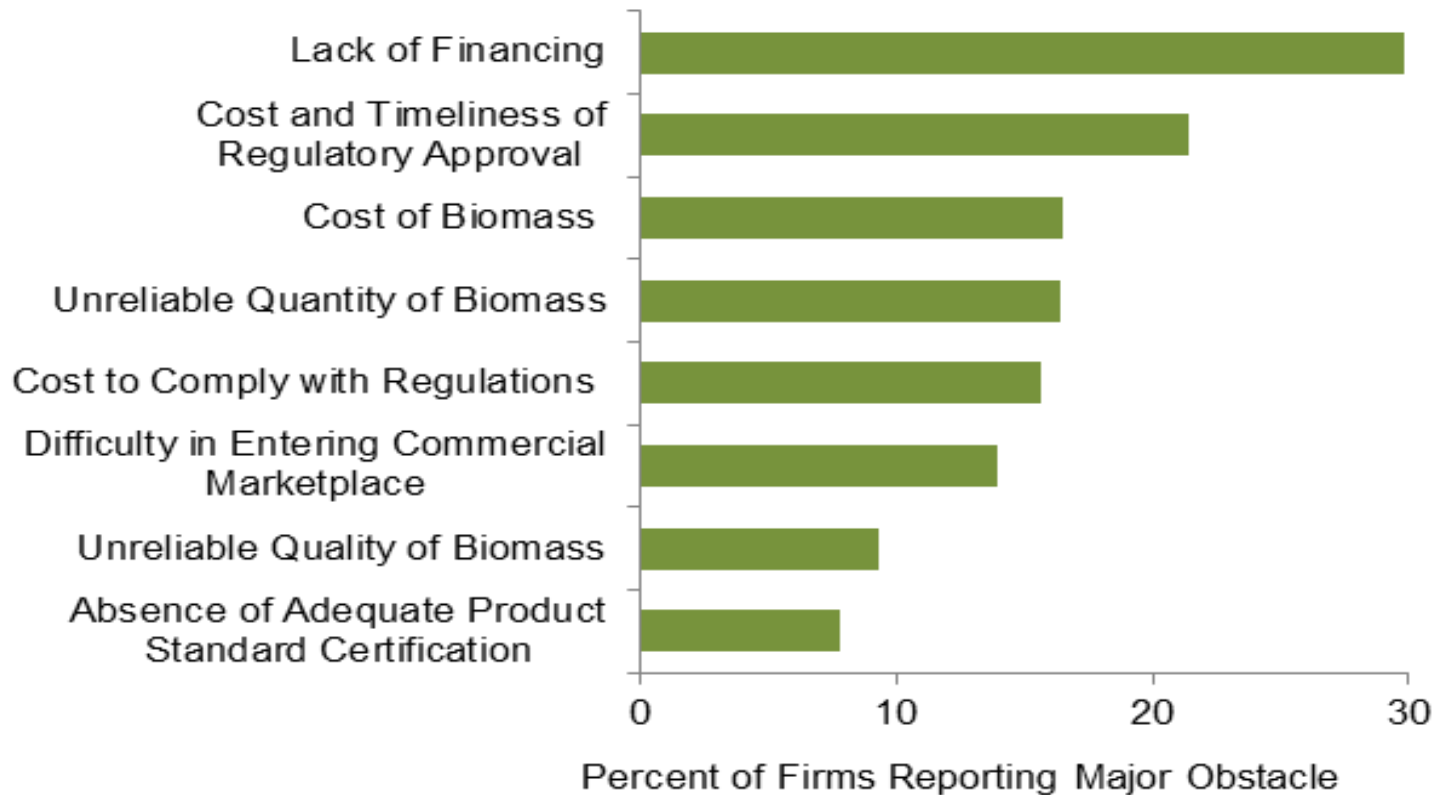
Firms reporting production or development activity



- Biofuels is the largest subcategory of the bioproduct industry in Canada - estimated revenues of \$2.72 billion (or 63.7% of total bioproduct revenues), 111 firms.
- Many firms indicate activity without sales. Many are in pre-commercial stages (research or product development)

# Challenges Facing the Bioeconomy

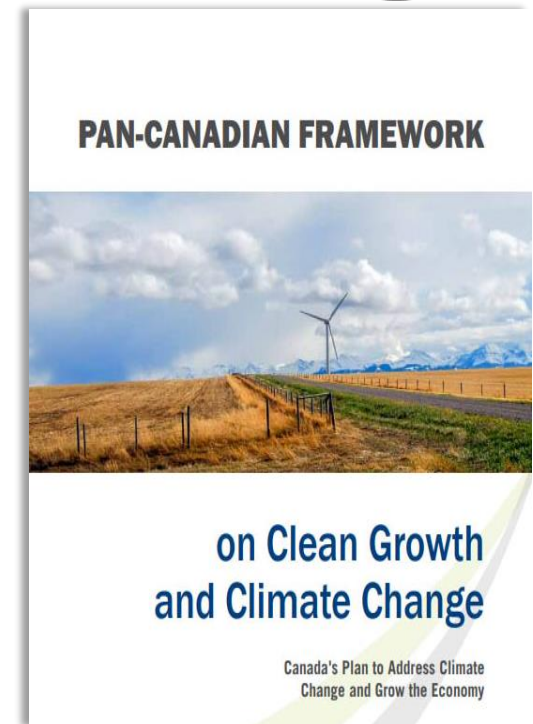
## Barriers to Production or Development of Bioproducts, 2015



Source: Statistics Canada and AAFC calculations.

# Government of Canada's Clean Growth Agenda – Opportunities for Bioeconomy

- Clean technology, Innovation, and combatting Climate Change are key Government of Canada priorities
- Pan-Canadian Framework on Clean Growth and Climate Change - GHG reductions and transitioning to a low-carbon economy
- Commitments to Clean Technology and Innovation also have potential to contribute to clean growth, and offer opportunities for the bioeconomy
  - AAFC Science Sector Strategy on Clean Technology
- International commitments
  - Mission Innovation, Horizon 2020, International Bioeconomy Forum, and others.



# Canada's Natural Advantage

Large supply of sustainably managed biomass resources

Well-integrated wood biomass product supply chain networks

Emerging agri-based clusters and supply chains

Biomass science and technology leadership

Provincial engagement and buy-in

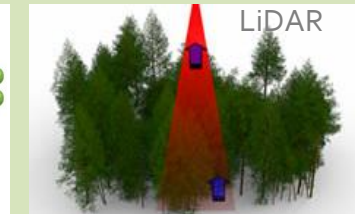
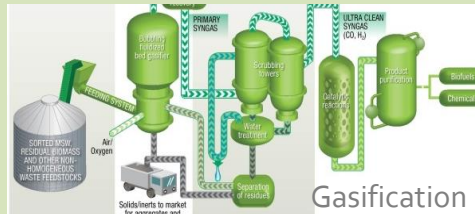
Large sustainable biomass supply



Well integrated supply chains

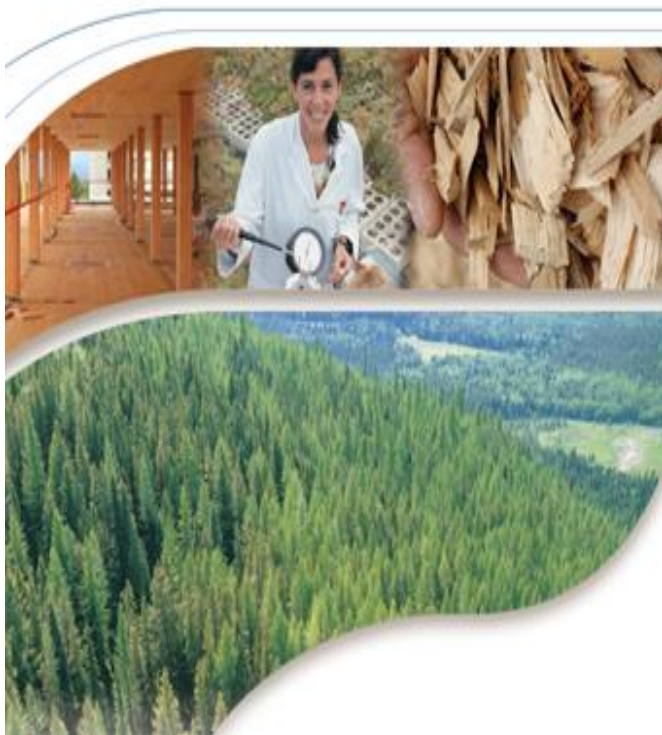


Biomass technology leadership



# A Common Vision in the Forestry Sector

A Forest Bioeconomy Framework for Canada



Canada will be a global leader in the use of sustainable forest biomass as part of the transition to a low carbon economy.

*CCFM Forest Bioeconomy Framework for Canada (2017)*



Communitie  
s



Supply



Demand



Innovation

# Support for the Agricultural Bioeconomy

- **Agricultural Clean Technology Program** - \$25M in support spanning the innovation continuum for **agri-based bioproducts** and precision agriculture
- Agricultural innovation programming through the **Canadian Agricultural Partnership**

The **Canadian Agricultural Partnership** is a five-year, \$3 billion investment by federal, provincial and territorial governments to strengthen the agriculture and agri-food sector

Federal Programs

Growing Trade and Expanding Markets

**\$297 M**

**AgriMarketing**

Focused on helping increase and diversify exports through industry-led promotional activities.

**AgriCompetitiveness**

Assist industry-led efforts to provide producers with the information they need to build capacity and support the sector's development.

Innovative and Sustainable Growth in the Sector

**\$690 M**

**AgriInnovate**

Aims to help applicants get their innovative projects that increase competitiveness and sustainability to market.

**AgriScience**

Helps accelerate the pace of innovation by supporting pre-commercialization activities and investing in cutting-edge research.

Supporting Diversity and a Dynamic, Evolving Sector

**\$166.5 M**

**AgriDiversity**

Strengthens the sector by helping diverse groups build skills and take on leadership roles.

**AgriAssurance**

Supports industry in meeting consumer needs for Canada's high quality products.