Standards for agriculture and agri-food

Helping promote sustainable practices and adoption of technology in the agriculture and agri-food sector to address climate change and food security

With extensive experience in developing world-class standards and codes in areas such as environment and natural resources, alternative energy technologies, circularity, bioeconomy, and sustainability, CSA Group can help strengthen Canada's position as a global leader in sustainable agriculture and food production.

How can standards support the agriculture and agri-food sector?

Circular and sustainable agriculture and agri-food practices balance environmental stewardship, economic viability, advanced technology, and societal benefits to address and mitigate climate change challenges and provide access to safe and nutritious food. CSA Group’s standards can help support the adoption of practices and technologies that help improve production efficiency, strengthen climate resilience, and reduce the sector’s greenhouse gas emissions.

Common terminology
By establishing common definitions and terminology, standards can help facilitate alignment in collecting, monitoring, and reporting data and process outcomes across the whole value chain.

Convening of experts
The standards development process brings together experts representing a wide range of interest groups and builds consensus among them. Standards can put forward recommendations and best practices reflecting the latest knowledge and tailor it for Canadians.

Enhanced safety and reliability
Standards help ensure that products, services, or systems operate safely and as intended. This helps advance emerging technologies, build their credibility, and remove barriers to their adoption.

Opening global markets
By harmonizing requirements across regions and internationally, standards can help open up export markets and support global supply chains.
Current CSA Group activities supporting the agriculture and agri-food sector:

**Advisory Groups**
Providing advice and direction on emerging issues and standardization gaps in:
- Agriculture and Agri-food Data
- Agriculture and Agri-food Robotics and Automation

**International Standards Activities**
Management of the Canadian Mirror Committees (MC):
- MC to ISO/TC 34/SC 20, Food loss and waste
- MC to ISO/TC 347, Data-driven agri-food systems

**National Standards Activities and Research**
- CSA TS-01, Biosecurity for robotics in greenhouses (in progress)
- CSA K100, Food loss and waste definitions and measurement (in progress)
- CSA R120, Regenerative agriculture: principles and terminology (planned)
- Food Loss and Waste – Institutional, Commercial and Industrial Food Loss and Waste Data (research report, in progress)
- Regenerative Agriculture (research report, in progress)
- Cybersecurity for agriculture and agri-food (research report, in progress)

**CSA Group’s focus areas**
- Circular and sustainable practices in agriculture and food production
- Automation and robotics technologies in agriculture
- The use of data in agriculture

For more information, visit csagroup.org/agriculture

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