CSA Group standards and research support circular economy practices

Embracing the circular economy can help Canada build a more sustainable, resilient, and prosperous future, creating new business opportunities, supporting job creation, and stimulating innovation. CSA Group's research, standards development, and collaborative initiatives support organizations across various sectors as they implement circular economy practices to preserve resources, reduce the demand for virgin raw materials, generate less waste and greenhouse gas emissions, limit adverse environmental impacts, and improve economic efficiency.



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CSA Group standards and research publications:

Circular economy principles and measuring

1. **CSA ISO 59004**, *Circular economy – Vocabulary, principles and guidance for implementation*
2. **CSA ISO 59010**, *Circular economy – Guidance on the transition of business models and value networks*
3. **CSA ISO 59020**, *Circular economy – Measuring and assessing circularity performance*
4. Rounding the Corner: Towards a Circular Economy in Canada (public policy report)
5. Quantifying the Impact of Circular Economy in Strategic Sectors and Value Chains (research report)
6. Canadian National and Subnational-Level Circular Economy Measurement Framework (research report)
7. Climate-Smart Circularity: Guiding Decision-Making Through Data-Informed Standard Protocols (research report)
8. The Circular Built Environment in Canada: A Review of the Current State, Gaps and Opportunities (research report)
9. The Circular Built Environment in Canada: A Strategic Framework for Future Action (research report)

Resource management

Agriculture

10. **CSA R120**, *Definitions and certification for regenerative agriculture* (in progress)
11. Regenerative Agriculture in Canada: Considerations for Standardization (research report)
12. Standardization of Soil Health Measurement and Reporting (research report)

Bioeconomy

13. **CSA/ANSI B149.6**, *Code for digester gas, landfill gas, and biogas generation and utilization*
14. **CSA W401**, *Biomass and bioproduct traceability and chain of custody* (in progress)
15. Standards for bio-based building materials and products
16. Codes and Standards for Renewable Gas Pathways (research report)

Built environment

17. **CSA R300**, *Circular built environment – Principles and implementation guidance* (in progress)
18. **CSA S448.1**, *Repair of reinforced concrete in buildings and parking structures*
19. **CSA S478**, *Durability in buildings*
20. **CSA O302.1/CSA O302.2**, *Scaling roundwood/Measurement of wood chips, tree residues, and by-products*
21. **CSA Z782**, *Guideline for design for disassembly and adaptability in buildings*
22. **CSA Z783**, *Deconstruction of buildings and their related parts*
23. Exploring Circular Strategies to Extend the Life of Existing Buildings (research report)
24. Opportunities to Apply Circular Strategies to Existing Office Buildings (research report)
25. Circular Economy for Sustainable Use of Wood-Based Construction Materials (research report, in progress)

Reuse

26. **RES-002/CSA R303**, *Reusable packaging system design standard: Container washing, inspection, and packing for distribution*
27. **RES-001/CSA R304**, *Reusable packaging system design standard: Container design and performance*
28. **RES-003/CSA R302**, *Reusable packaging system design standard: Marking and labeling of reusable containers, collection points, signage, and other assets* (in progress)
29. **RES-004/CSA R305**, *Reusable packaging system design standard: Digital* (in progress)
30. **RES-005/CSA R306**, *Reusable packaging system design standard: Systems operations and performance* (in progress)
31. **RES-006/CSA R307**, *Reusable packaging system design standard: Collection points* (in progress)

Recycling

32. **CSA R117**, *Plastics recycling – Definitions, reporting, and measuring*
33. Defining Recycling in the Context of Plastics (research report)
34. A Roadmap to Support the Circularity and Recycling of Plastics in Canada – Technical Standards, Regulations and Research (research report)
35. Circularity and Recycling of Lithium-Ion Batteries for Electric Vehicles – Standardization and Safety Requirements (research report)
36. Photovoltaic (PV) Recycling, Reusing, and Decommissioning (research report)

Repairability

37. Landscape Review of Repairability in Canada (research report)

Waste management

38. **CSA K100**, *Food loss and waste: Terminology and measurement*
39. **CSA SPE-890**: *A guideline for accountable management of end-of-life materials*
40. Municipal Food Loss and Waste in the Industrial, Commercial, and Institutional Sector: Recommendations for Measurement Standardization (research report)
41. Recovering and Recycling Lithium and Rare Earth Elements from Waste (research report)
42. Behavioural Insights into Waste Diversion from Multi-Unit Residential Buildings (research report, in development)

For more information visit CSA Group website
www.csagroup.org/CircularEconomyStandards

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