



WASTE

A high-growth sector around the world

Waste Management

US\$475 billion in 2015
US\$562 billion in 2020
an **18% increase**

Recycling

US\$21 billion in 2015
US\$35 billion in 2020
a **67% increase**

Waste-to-Energy

US\$23.7 billion in 2015
US\$37.7 billion in 2020
a **59% increase**

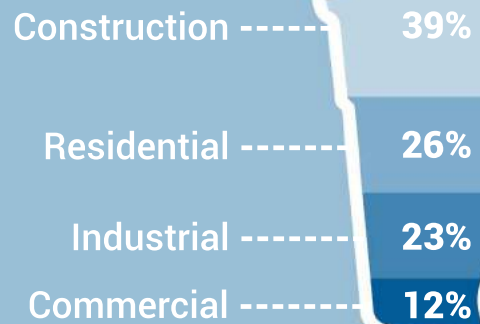
Québec's expertise

- Biomass conversion
- Recycling of polymers, including polystyrene
- Thermal treatments
- Industrial ecology
- Processing equipment
- Automated sorting facilities

Favourable business environment

- >> Application of Extended Producer Responsibility
- >> Disposal royalties
- >> Compensation scheme

International situation



**+ 10 000
JOBS**



**+ 800
FACILITIES**



**+ \$8 billion
IN REVENUES
IN 2011**

Research and organizations



- >> Centre de Recherche Industrielle du Québec (CRIQ)
- >> Centre de Transfert Technologique en Écologie Industrielle (CTTEI)
- >> Centre Technologique des Résidus Industriels (CTRI)
- >> Chaire de Recherche sur la Valorisation des Matières Résiduelles (CRVMR) - Polytechnique Montréal
- >> Groupe de Recherche en Recyclage Biologique et Aquaculture (GREREBA) - Université Laval
- >> National Optique Institute (INO)
- >> Recyc-Québec
- >> Conseil des Entreprises en Technologies Environnementales du Québec (CETEQ)
- >> Québec Business Council on the Environment (CPEQ)
- >> Éco Entreprises Québec (ÉEQ)
- >> Recycle Médias
- >> Regroupement des Récupérateurs et des Recycleurs de Matériaux de Construction et de Démolition du Québec (3R MCDQ)
- >> Réseau Environnement

A sample of Québec's innovations



machinexrecycling.com

Machinex designs and produces custom-made sorting and recycling technology for facilities around the world: disc screen separators, optical sorting equipment, trommels, bag openers, glass cleanup and recycling systems, over belt magnets, eddy current separators, etc. The technology can process construction and demolition debris, commercial and industrial waste as well as conventional municipal solid waste.



pyrowave.com

Pyrowave has developed a microwave technology for recycling mixed plastics. Modular recycling units can be rented or set up at the customer's place of business. Pyrowave then delivers the liquid generated to refiners. This business model increases the recycling rate and reduces the volatility of recycled resin prices.



sherbrooke-oem.com

Sherbrooke OEM specializes in the design, manufacture and integration of customized recycling equipment for various industries (e-waste, construction, curbside collection, metal recyclers, waste-to-energy projects, etc.).



terragon.net

TERRAGON
Environmental Technologies Inc.

Terragon's unique appliances enable the Total Resource Utilization (TRU) habitat as well as the Zero Waste Discharge habitat, leading to reduced environmental impact and contributing to a revolution in resource management.



pyrogenesis.com

PyroGenesis Canada is the world leader in the design, development, manufacture and commercialization of advanced plasma processes. The company provides high value-added innovative solutions to address the real problems of numerous industries (the environment, defense, additive manufacturing, oil and gas, mining and metallurgy). With the US Department of Defense as one of its clients, PyroGenesis makes compact, easy-to-use processes that optimize the use of plasma.



tricentris.com

Tricentris operates a glass micronization plant that produces glass powder and aggregates from recycled glass. Glass powder can be used as a cement additive to improve concrete performance, while aggregates can be used as a sand substitute in various applications like road abrasives and backfill material



As the first organization of this kind in Canada, **Écotech Québec** brings together key decision makers of Québec's cleantech ecosystem.

Discover how Québec stands out in the clean technologies' sector

www.ecotechquebec.com