

TOWARDS ZERO WASTE

The Estrie region,
a green and innovative economy



THE ESTRIE REGION...

... A LEADER IN THE RECOVERY OF RESIDUAL MATERIAL

The Estrie region is renowned for the management and recovery of residual material and is determined to make its **ZERO WASTE** vision a central concept for its development.

PROACTIVE MUNICIPALITIES

100% of its 89 municipalities practice 2-way collecting and 40% practice 3-way collecting.

Sherbrooke recovers over 34,000 tons of residential residual material and more than 13,000 tons of organic material per year!

Lac-Mégantic recovers 70% of its residual material as a result of 3-way collection from residents and IBI (institutions, businesses and industries).

- > More than 400 tons/year of greenhouse gas avoided!
- > Production of AA quality compost

Coaticook has instituted a program to collect agricultural plastic.

- > Over 200 tons of plastic recovered!



SHERBROOKE INSTITUTIONS IN PARTNERSHIP

Nine Sherbrooke institutions work together at the **TABLE DES INSTITUTIONS** and develop common sustainable development and residual material management strategies.

The Université de Sherbrooke innovates!

- > Ranked 3rd internationally among universities regarding sustainable development for its residual material management
- > 80% of its residual material is recovered as a result of comprehensive sustainable waste management and use of compostable bioplastic dishes

The CEGEP of Sherbrooke, a green CEGEP!

- > First organization to obtain the carbon-neutral certification from the Canadian Standards Association (CSA)
- > Institution active in the recovery of residual material: elimination of bottled water on campus, use of non-disposable, compostable or recyclable dishes, etc.



SUSTAINABLE EVENTS

Université de Sherbrooke

1st university certified by BNQ (Bureau de Normalization du Québec) for sustainable event certification.

NOVA Envirocom

Winner of the Vivats prize (Conseil québécois des événements écoresponsables - Québec Council of sustainable events) in the "Supplier" category for its expertise and the tools it provides to allow businesses and organizations to perform sustainable events.



HERE WE RECYCLE PROGRAM

Estrie's regional environmental council (CREE), an essential player for the last 20 years!

The CREE has certified more than sixty organizations (IBI) in the Estrie region for achieving improvement objectives relative to the Québec Policy for residual material management.



... AN ENVIRONMENT THAT IS A CATALYST FOR INNOVATION

FROM RESEARCH TO BUSINESS: THE ENERKEM MODEL

Firmly rooted in the Estrie region, Enerkem is a rapidly growing business established in Sherbrooke since 2000. Enerkem is known in the residual material recovery sector for its exclusive gasification technology platform enabling the production of biofuels and green chemical products from waste.

1999 > PILOT at the Université de Sherbrooke

2000 > Business START-UP

2003 > Pilot plant in Sherbrooke

2009 > Commercial DEMO PLANT in Westbury

2011 > Internationally renowned business (cited among the **50 MOST INNOVATIVE COMPANIES** in the world by Fast Company alongside Twitter, Apple and Google)

2012 > Released February 6th: Construction project for the **FIRST COMMERCIAL PLANT FOR BIOFUEL PRODUCTION** from waste in the Province of Québec

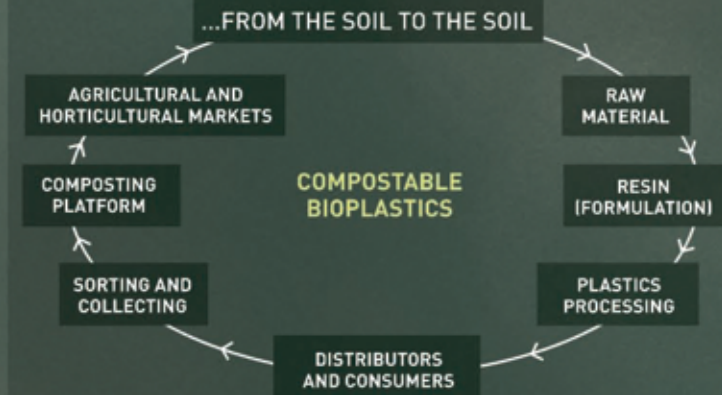
Under construction > Full scale commercial plant in Alberta

Under development > Full scale commercial plant in Mississippi



AN EMERGING SECTOR: COMPOSTABLE BIOPLASTICS

Including **COMPOSTABLE BIOPLASTICS** in the lifecycle chain allows better management of organic waste, minimizes the quantity of buried waste, and ensures a complete lifecycle...



NOVA ENVIROCOM is the precursor of bioplastics in Québec! Innovating organization that collaborates in the development and marketing of compostable bioplastic dishes and containers in the Province of Québec.

Université de Sherbrooke: Chemical Engineering and Biotechnological Engineering Department
Development of compostable bioplastic polymers made from natural resources (sugar, corn, vegetable oils, etc.).

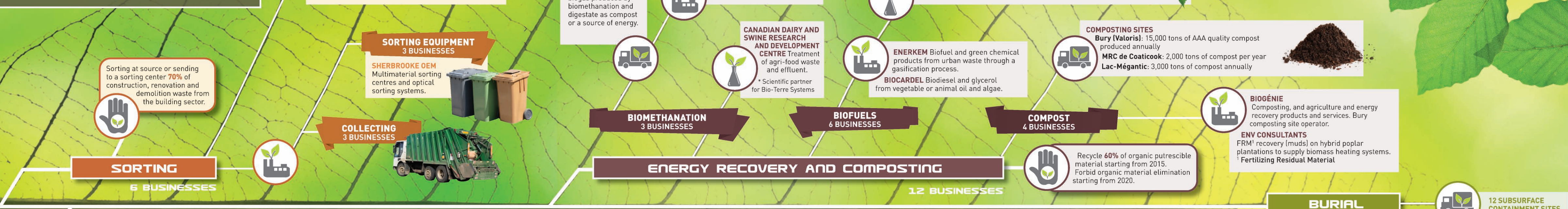
A PIONEER IN INTEGRATED COMPOST MANAGEMENT: UNIVERSITÉ DE SHERBROOKE!



Valoris technical burying site

GREEN ECONOMY FULL SPEED AHEAD!

MORE THAN 100 ORGANIZATIONS IN THE ESTRIE REGION



- SOME OF THE BUSINESSES INVOLVED IN THE RECOVERY OF RESIDUAL MATERIAL**
- > Bourque, acier et métaux inc. - Sherbrooke
 - > Acier et métal Belfer - Waterloo
 - > Animat - Sherbrooke
 - > Armée du Salut - Sherbrooke
 - > Bio-Solutions CR - Sherbrooke
 - > Biocardel - Sherbrooke
 - > Biogénie (division d'EnGlobe Corp) - Sherbrooke
 - > Bio-Terre Systems - Sherbrooke
 - > Bureau en Gros - Sherbrooke
 - > Cascades - East Angus
 - > Centre industriel de Confection Windsor Inc.
 - > Certi Auto - Sherbrooke
 - > CFER Memphrémagog - Magog
 - > Clinique Électronique - Sherbrooke
 - > DéfiRécupAir (Une division d'Atelier PolyTeck) - Sherbrooke
 - > Domtar - Windsor
 - > Dumas Jean-Paul et Fils - Windsor
 - > E.A.I. Technologie - Windsor
 - > École-Entreprise du Centre Saint-Michel - Sherbrooke
 - > Enerkem - Sherbrooke
 - > ENV Consultants - Sherbrooke
 - > Excavation René St-Pierre Div. Démolition - Sherbrooke
 - > Faber Moore - East Angus
 - > Gestion Michel Couture - Sherbrooke
 - > Granules Combustibles Energex - Lac Mégantic
 - > GSI Environnement (Bury) - Sherbrooke
 - > Intro-Pak - Sherbrooke
 - > Kruger (Usine de Brompton) - Sherbrooke
 - > La Cartoucherie (Sherbrooke) - Sherbrooke
 - > LaserPro - Sherbrooke
 - > Les Métaux B. Hinse Ltée - Magog
 - > Magotteaux Ltée - Magog
 - > Matériaux usagés de l'Estrie St-Denis-de-Brompton
 - > MI Intégration - Sherbrooke
 - > Nova Envirocom - Sherbrooke
 - > Olympique Métal - Sherbrooke
 - > Ovide Rouillard - Sherbrooke
 - > Récupération CC - Magog
 - > Récupération Centretrie - Sherbrooke
 - > Récupex (Sherbrooke) - Sherbrooke
 - > Régie de Tri et de Récupération de la Région Sherbrookaise - Sherbrooke
 - > Ressorcerie du Granit - Nantes
 - > SanEstrie - Sherbrooke
 - > Sanitaire Lac-Mégantic 2000
 - > SDD - Sherbrooke
 - > Sherbrooke OEM - Sherbrooke
 - > Sherbrooke Pièces d'autos usagées
 - > Sintra (Estrie) - North Hatley
 - > Solinov - Sherbrooke
 - > Solution EAS (division d'EnGlobe Corp) - Sherbrooke
 - > Surplec (équipements électriques) - Sherbrooke
 - > Tafisa Canada - Lac-Mégantic
 - > Tréd'si - Westbury
 - > Valbio Canada - Magog
 - > Valoris - Bury
 - > Veolia ES Canada Services Industriels - Windsor
 - > Waste Management - Magog

LEGEND

- 2011-2015 RMM QUÉBEC POLICY
- INFRASTRUCTURE
- RESEARCH
- BUSINESS

MAJOR BUSINESSES INVOLVED IN REPROCESSING IN THE ESTRIE REGION!

CASCADES, KRUGER AND DOMTAR are major pulp and paper companies that have espoused sustainable development strategies such as:

- Energy recovery from heat exhaust or waste
- Paper/cardboard recycling plants
- Production of recycled goods

TAFISA is a global leader in the production of composite panels made entirely from recycled or reprocessed wood fiber. No tree is cut in its production process!



- 1 Valoris
- 2 Kruger
- 3 Domtar
- 4 Cascades
- 5 Tafisa
- 6 Récup Estrie
(Estrie region reprocessing agency)

COMMITTED PLAYERS



The Environmental bio-industries Niche of excellence rallies around 40 businesses, organizations and research centers with the common objective of reducing or eliminating environmental impacts caused by the use of biotechnologies, bioprocesses or biomass.

It spans the three following industrial clusters:

- > Bioenergy: technology and production of ethanol, biodiesel, biogas, and energy pellets made of wood and agricultural plants
- > New material/green chemistry: biopolymers, biofibres, bioplastics
- > Bioremediation: biological treatment of water, soil, air and residual material

Unique to the Province of Québec, this Niche of excellence stands out with targeted networking activities and its ability to generate new alliances and partnerships leading to large-scale collaborative projects. A specific financing program is available to facilitate the implementation of such projects.

Information

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Two hundred hectare eco-industrial park in Bury that integrates a panoply of residual material recovery resources in a single location, including a sorting center, a methane plant, a subsurface containment site and attractively priced lots for industries that want to use available material on site. The park offers equipment sharing and permanent monitoring of wastewater treatment and of the water table and is conveniently situated away from lived-in areas.

Information

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Financial support available via the Regional County Municipality (MRC) of Haut-Saint-François

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The mandate of Sherbrooke Innopole is to support the economic turnaround of the City of Sherbrooke by capitalizing on innovation and the development of five clusters, including the Cleantech sector. Sherbrooke, the main city of the Estrie region, dominates the Cleantech market because of the prevalence of businesses established in the sector.

Sherbrooke Innopole offers the following advantages:

- > Accompanying businesses at every step of their development
- > Access to investment funds enabling Sherbrooke Innopole to invest up to \$1M in business projects
- > Access to an international network

Information

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Cleantech sub-sectors 88 businesses

