

Waste Treatment



Waste Composting

Composting is a biological processing procedure that transforms organic waste into useful compost. Although it may seem very straightforward, a number of parameters must be considered when making compost to avoid odours, leachates, or poor quality compost (containing foreign bodies such as glass, metals, plastics). CRIQ is an experienced composting leader when it comes to helping businesses develop and put in place simple, efficient, and economic procedures. In the near future, municipalities and private businesses will put in place biomethanation procedures that will generate digester's sludge. Composting this sludge is a first-rate solution and it is important to begin looking now for the best composting procedures to be followed since this will have an impact along the whole organic waste processing chain.

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OUR TRACK RECORD

Using organic waste from a three-pronged collection system, CRIQ specialists helped businesses that were very involved in composting carry out operations to minimize their impact on the environment. Our specialists have also adapted and optimized composting processes with a view to reducing the amount of carbon residue and to more efficiently dry wet waste using the BIOSECO™ biodrying process. For over 20 years, CRIQ has come up with a number of innovative techniques to efficiently compost organic waste as varied as abattoir sludge, municipal waste, cow manure, and septic tank sludge.

OUR EXPERTISE

- Lab and pilot-scale trials
- Basic and specialized compost formulations
- Comprehensive compost analysis as per the Canadian standard (CAN/BNQ 0413-200)
- Technical assistance for evaluating the process's technical and economic aspects
- Equipment development, trials, and validation
- Méthode de production de BRF (bois rameaux fragmentés)
- Accompagnement pour la mise à l'échelle du procédé

OUR STATE-OF-THE-ART FACILITIES

CRIQ has a testing area where bench-scale composting work is performed. More than ten isolated 120 L reactors are available for simulating composting reactions at the centre of a large pile of waste. The composting lab is equipped to variably aerate compost and continuously record temperatures. Material balances (mass and volume) are carried out to upscale the most successful conditions (operating parameters). CRIQ also has an outdoor platform for piloting the procedure.

OUR ANALYSIS EQUIPMENT

CRIQ has a well-equipped microbiology and chemistry lab for analyzing liquids, gases, and solids. CRIQ is recognized by Bureau de normalisation du Québec (BNQ) as a compost certification lab.

For more on waste composting, contact:

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