



**NET ZERO
WASTE**

COMPANY NAME:
NetZero Waste

FOUNDED:
2005

HEAD OFFICE:
Vancouver, BC

DIRECTOR:
Mateo Ocejo
P.ENG., LEED™ A.P.

INDUSTRY:
**Waste Management /
Organic Recycling**

KEY MARKETS:
**Solid Waste /
Compost Facility
Design & Operation**

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Company Fact Sheet

Director: Mateo Ocejo



Mr. Ocejo has 11 years of project management experience in heavy industrial and environmental projects. He has managed engineering efforts in excess of 20 personnel and on-site construction efforts over \$10M (USD) in contract value and 100,000 direct labor man-hours.

Mr. Ocejo has focused his efforts on developments in the solid waste industry; specifically as they relate to composting. He has on-site experience with all principal composting technologies on the market and has consulted with multiple clients on potential process and operational improvements. A focus has been placed on the Gore Cover Technology which is new to North America as Mr. Ocejo has been recognized as an expert in the design and construction of this process technology.

Company Description

The company tagline is: *Composing waste for cleaner, greener communities.* NetZero Waste has focused its operational strategy around the Gore Cover System which is based on a membrane laminate technology similar to that of the Gore-Tex fabrics used for outerwear and footwear.

Mission Statement

We provide the services necessary to support programs which promote and encourage both producer responsibility and user responsibility practices, particularly with regards to organic management. Our innovative designs allow us to charge tipping fees well below the cost at the landfill which further encourages waste reduction through financial incentives above and beyond the environmental conscience.

Product Fact Sheet

Product's Function

Installed in more than 170 plants in 26 countries world wide, the benefits of the Gore Cover System include odor reduction of 90-97%; Bio-aerosol Emissions reduction of greater than 99 percent; less than 1 KWH/ton Energy Requirement and a three square feet/ton space requirement.

Distinctive Features

- Repels water
- GORE-TEX® membrane Industrial grade tarp
- Contains odors& humidity
- Allows CO₂ pass through
- Retains heat
- Optimizes biological activity

Capital Cost

Very Competitive Project Start-Up Capital & Cycle Operation Costs allow the Gore Cover System to provide organic disposal fees well below landfill waste tip fees.

Operations

Optimized operations and a reduction of stage treatment and multiple handling requirements (each heap is moved only twice).

Utilities

Positive aeration drastically reduces utility operational costs (less than 1kWh of electricity per tonne of compost). The Gore Cover 2Hp blowers are on for approximately 2 minutes every 10. In comparison, "Negative Aeration Systems" must have their blowers on 24 hours a day 7 days a week to prevent negative odour events.

Layout

Compact design results in a drastically reduced facility footprint and a 400% improvement in throughput from conventional windrow systems.

Safety

Micro-porous GORE-TEX® membrane results in a microbe reduction of more than 99%.

Design Ingenuity

This Gore Cover allows a standard "Aerated Static Pile" to become an in-vessel system through the use of the patented membrane cover (this removes regulatory requirements for an enclosed facility).

Recent Project Highlights & Features

Metro Vancouver Gore Cover Demonstration Project

This trial project was designed to simulate the operation and performance of a full scale facility. Odor sampling was conducted during the trial demonstrating over a 95% reduction in ammonia and VOC's. Two sites were run for Metro Vancouver and a total of 3 different mixes of food and yard waste were trialed using the Gore Cover System.



200,000 Tonnes/yr Gore Cover Composting Facility

The second project of its kind for this client, after the benefits and efficiencies of the design became apparent. This facility is the largest of its kind in the world and included the latest in design feature improvements. Completed in the Fall of 2004 this facility is now able to process 200,000 T/yr of mixed food and yard waste.



Thorold, Ontario – Design and Construction Management of an 80,000 T/year Gore Cover System Facility

This facility will primarily treat food and yard waste once construction is complete in the fall of 2008. This client is converting their existing operation to the Gore Cover System due to the reduced operating cost and improved process performance.

Kingston, Ontario – Design Support and Construction Quality Control Gore Cover System Facility

This facility will treat food, yard, industrial, and bio-solid organic wastes once construction is complete in the fall of 2008. This facility will have design provisions for winter operation and will be the first of its kind to have a "portable" designation made almost entirely of pre-cast concrete sections that can be disassembled and relocated if necessary.