



Reciprocating ion exchange

Metal ion recovery for recycling with payback periods as short as one year

Membrane systems

Separation and recovery of valuable feed stock to save on treatment costs

Automated polymer dosing

Sludge dewatering that offers up to a 40-per-cent polymer savings

Ultraviolet oxidation

Destruction of complex synthetic organic compounds for re-treatment and/or post-treatment of industrial effluent and remediation of contaminated aquifers

Ultraviolet disinfection

Cost-effective and environmentally friendly control of bacteria in effluent and industrial process waters

Wet air oxidation

Compact technology for breakdown of complex organic compounds

Oil from sludge (OFS)

Residuals management with useful by-product recovery

Wastewater treatment plant modelling

Realistic, dynamic modelling for process design and operation control of wastewater treatment plants

**CANADA IS A
WORLD LEADER IN
BIOTECHNOLOGY,
REMEDIATION,
MONITORING AND
INSTRUMENTATION.**

AIR QUALITY MANAGEMENT

The majority of air quality management equipment manufactured by Canadian companies can be grouped into filters, extractors, specialized scrubber components and some precipitators. Canadian companies have expertise in managing sulphuric emissions and the effects of acid rain, as well as in advanced industrial filtering systems.

Canadian air quality management firms have developed innovative, cost-effective solutions in emerging sectors, including:

- CONTINUOUS EMISSIONS MONITORING WITH PROCESS CONTROLS,
- BIOFILTRATION,
- BIOMEDICAL WASTE INCINERATION,
- HOT-GAS CLEANING USING ADVANCED PARTICLE FILTERS.

SOLID WASTE MANAGEMENT

Currently 80 per cent of municipal and industrial solid waste in Canada is disposed of by landfilling. The remainder is disposed of through recycling, resource recovery and incineration. More stringent regulations in many countries have made solid waste management one of the fastest-growing sectors of Canada's environmental industry. While Canadian companies' emphasis to date has been on the North American marketplace, Canadian solid waste equipment and services are shipped worldwide.

Canadian expertise in solid waste management includes:

- COMPOSTING AND RECYCLING TECHNOLOGIES,
- MATERIAL RECOVERY FACILITIES,
- INCINERATION,
- WASTE-MANAGEMENT PLANNING,
- SLUDGE MANAGEMENT.

