

# Municipal Solid Waste Update Canada

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**Alain David**  
**GMI Municipal Solid Waste Subcommittee Meeting**  
**Vancouver, Canada, 13 March 2013**

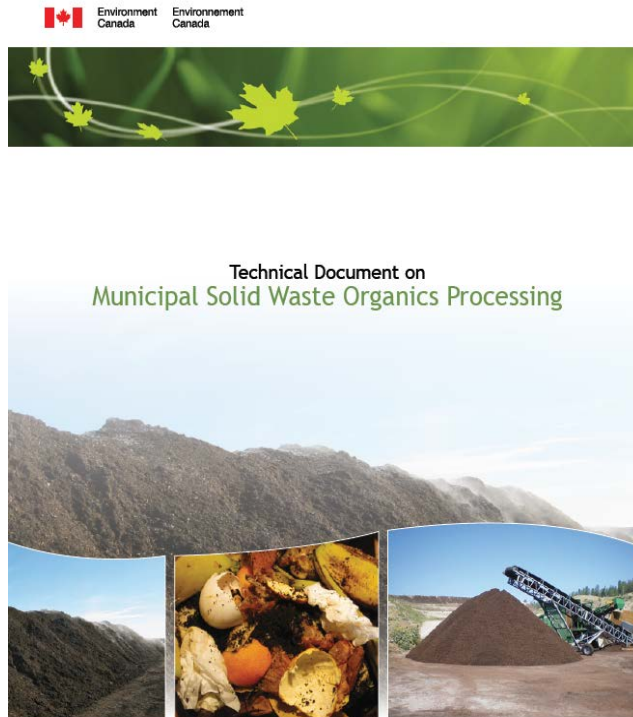


# Technical Document on Municipal Solid Waste Organics Processing

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- Avoid the formation of landfill gas, produce valuable compost and renewable energy (anaerobic digestion)
  - 18 comprehensive chapters (lessons learned and expert knowledge)
  - Composting and Anaerobic Digestion
  - Science & Principles, Technologies
  - Benefits of diverting organics
  - Biogas treatment and utilization
  - Odour control, facility siting

# Technical Document on Municipal Solid Waste Organics Processing – (Cont'd.)



Canada

To obtain a copy:  
visit

[www.ec.gc.ca/gdd-mw](http://www.ec.gc.ca/gdd-mw)

or contact

WRMD-DRGD@ec.gc.ca

# Update

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- **Increased emphasis on organics diversion**
- **Provincial regulations for landfill gas recovery and starting to implement organics bans in landfills**
- **Landfill gas:**
  - 68 landfills with LFG recovery
  - Generation: 24.9 Mt eCO<sub>2</sub>
  - Capture: 7.3 Mt eCO<sub>2</sub> (30% recovery rate)
  - Emission: 17.6 Mt eCO<sub>2</sub>
- **Composting:**
  - Leaf and yard waste: well developed
  - Food waste: increasing number of facilities
- **Anaerobic Digestion:**
  - Option for larger municipalities (e.g. Toronto, Montréal, Vancouver, Surrey)
  - Beneficial use of biogas (electricity/vehicle fuel)

# Nationally Appropriate Mitigation Actions (NAMA)

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Building on its experience and expertise, Canada is supporting the development and implementation of NAMA in the waste management sector

## **Objective:**

Support country-led development of long-term sectoral mitigation strategies that enable the partner country to identify, select and develop alternatives to “business as usual” and create enabling conditions for transformational mitigation action.

# Nationally Appropriate Mitigation Actions (NAMA) – Cont'd

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## **Approach:**

- Canada is providing financial support (\$2.55M) to help partner countries identify opportunities for mitigating emissions in the waste management sector that create enabling conditions for transformational action that support national priorities.

## **Country Partners:**

- Chile
- Colombia
- Mexico
- Dominican Republic

## **Delivery Channel:**

- Center for Clean Air Policy

# Nationally Appropriate Mitigation Actions (NAMA) – Cont'd

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## **Colombia and Chile:**

Development of an integrated approach including a series of measures: diversion of organics, composting, use of RDF and recycling: and increased methane capture and biogas utilization from landfills and wastewater treatment facilities.

## **Dominican Republic,**

Development of an integrated approach in the tourism industry with a pilot project in Punta Cana that will eventually lead to the development of a national strategy.

## **Mexico,**

Development of feasibility studies for the implementation of a bio-digester in Colima while building capacity with Mexican experts



# Climate and Clean Air Coalition (CCAC)

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- Canada is a founding member of the CCAC
- Active co-lead of the Municipal Solid Waste Initiative, with the US, Mexico, and the World Bank.
- Contributed \$300,000 to the CCAC Municipal Solid Waste Initiative (first year)
- Works directly with 8 cities in Latin America, Africa, and South East Asia
  - Rio, Brazil
  - Cali, Colombia
  - Vina del Mar, Chile
  - Accra, Ghana
  - Lagos, Nigeria
  - Hi Chi Minh, Vietnam
  - Dhaka, Bangladesh
  - Penang, Malaysia



# Climate and Clean Air Coalition – Cont'd

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## Goal:

Identify concrete and on-the-ground action that can effectively reduce short-lived climate pollutant (SLCP) emissions from the MSW sector.

## Next Steps:

- Implement new actions to reduce SLCP emissions from the MSW sector
- Bring on more cities and country partners to take direct action
- Quantify potential and real emissions reductions
- Explore sustainable financing for MSW projects

# Questions?

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Alain David, Environment Canada

[Alain.David@ec.gc.ca](mailto:Alain.David@ec.gc.ca)

(819) 953-1110

Website: [www.ec.gc.ca/gdd-mw](http://www.ec.gc.ca/gdd-mw)

