

Resource Conservation and Recovery Strategies for Greenhouse Gas Emission Reductions

Integrating Solid Waste
Management into Kansas City's
Climate Protection Plan

Dennis Murphey
Chief Environmental Officer
Kansas City, MO

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- In July 2008 the Mayor & City Council unanimously adopted the KCMO Climate Protection Plan
- Based upon our review of other city climate protection plans, Solid Waste Management was a fundamental element in the development of our Plan
- There was a separate Work Group who developed suggested GHG reduction strategies re carbon offsets & waste management

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Primary Intent Was to Build on Existing SW
Management Program Activities thru KC Recycles:

- Weekly curbside collection of recyclable household materials (voluntary)
- Operation of drop-off recycling centers
- Special event recycling
- Approximate collection – 1,500 – 1,600 tons/month

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Additional Objective:

- Include solid waste management GHG reduction strategies that provide other benefits, even if we can't quantify their GHG reduction impacts
 - Avoid the need to site & construct additional landfills
 - Create “enterprise” opportunities by recovering materials that were previously discarded
 - Collaborate with regional partners to provide cost savings

SW Management Strategies included in KC's Climate Protection Plan

- Develop a Comprehensive SW Management Plan
- Within 4 Years, Double the Amount of Materials Collected in the City's Curbside Recycling Program
- Expand the City's Internal Recycling Program
- Recycle Materials at Public Events (parades, festivals, concerts, & sporting events)

SW Management Strategies included in KC's Climate Protection Plan

- Compost Food Collected at City Market & Other Facilities
- Place Recycling Containers in Public Right of Way for Use by Pedestrians in High Traffic Areas (we've also added recycling collection to public parks, community centers, & other municipal facilities)
- Recycle at least 75% of C&D Materials from City Construction Projects
- “Flip” the Paradigm of 80:20(landfill:recycling/reuse) to 20:80

SW Management Strategies included in KC's Climate Protection Plan

- Build a Regional “Eco Center” (Resource Recovery & Management Facility) – will go out for bids next month
- Expand Organic Waste Collection & Composting (we are building a 3rd leaf & brush facility that should be open in March 2013)
- Enact an Ordinance to Require Construction & Demolition Projects to have a C&D Management Plan to Achieve an 80% Diversion Rate by 2020

Other SW Management Strategies for GHG Reductions in KC

- Deconstruction vs. Demolition of Dangerous Buildings, with recovery of reusable materials – saves the embedded energy of recovered materials & reduce GHG emissions from C&D landfills
- Energy Generation from Biomass (e.g. woody waste from tree trimming & storm damage) being evaluated with NREL & EPA

SW Management Strategies that Address GHG Reductions from a Materials Consumption Basis

- Reuse of waste concrete & asphalt in road construction projects
- Enactment of a Sustainable Procurement Ordinance that includes preferences for purchase of goods that are durable, recyclable, and are made from recyclable materials

Links to Info Sources

KCMO Climate Protection Plan

<http://www.kcmo.org/idc/groups/citymanager/documents/citymanagersoffice/022729.pdf>

KCMO Long-term Solid Waste Management Strategic Plan

<http://www.kcmo.org/idc/groups/publicworks/documents/publicworks/finalplan.pdf>

Contact Info for KCMO Resource Staff

Dennis Murphey, Chief Environmental Officer

dennis.murphey@kcmo.org

Michael Shaw, Solid Waste Manager

michael.shaw@kcmo.org