

MINNESOTA>ENVIRONMENTAL<INITIATIVE
INTEGRATED SOLID WASTE MANAGEMENT STAKEHOLDER PROCESS
Centroid Sub-Groups Charge
June 17, 2009

Purpose/Mission: Each centroid sub-group is to develop up to four centroid-based implementation plans to at least meet the centroid GHG emission reduction targets set by the Work Group. The centroid targets are as follows:

Duluth Centroid: 3.3 MMTCO₂e
Rochester Centroid: 2 MMTCO₂e
St. Cloud Centroid: 3.7 MMTCO₂e
Twin Cities Centroid: 43.5 MMTCO₂e

Parameters:

- Higher centroid GHG emission reduction targets can be set, but targets cannot be reduced.
- Centroid material mix targets within management methods can change as long as the resulting overall GHG emission reduction target is still met.
- The solid waste management hierarchy should be followed when designing implementation plans or augmenting material mix targets.
- Local efforts and plans within each centroid should be focused on when developing strategies.
- Larger regional, statewide or national desired efforts can also be suggested, but are not necessary.
- Costs, practicality and centroid needs should be identified in plans as much as possible.
- Plans can be developed under a variety of funding and resource scenarios, from no additional funding/resources to sufficient additional funding/resources. In the cases where additional funding or resources are desired, plans should identify ideas to meet those additional needs, including how existing resources from within, and/or outside of, the centroid could be reallocated to meet the goals or ideas to generate new funding/resources. Sub-groups are asked to also identify other ways of accomplishing goals without the infusion of new resources.
- The Work Group created a list of strategies the centroid sub-groups must consider when creating implementation plans. If the sub-groups decide not to incorporate items on the list they need to provide rationale for why they chose not to incorporate the strategy ideas into the centroid implementation plans.
- When developing plans, sub-groups will need to provide the MPCA information and specificity on how tonnages, or percentages, of specific material amounts would change by implementing proposed strategies. This will allow the MPCA to run the WARM model or other models where possible.

Available Tools/Resources:

- 2005 Waste Composition and GHG Baseline Data – Foth Infrastructure & Environment completed a study to determine the baseline waste composition and resulting GHG emission data for each centroid. Foth utilized county (SCORE) data as well as local composition studies to generate 2005 baseline waste composition data. Some reassignment of materials occurred in order to fit into the WARM model material categories.
- Work Group straw proposals – the Work Group has developed a set of straw proposals that could potentially be used to meet the solid waste management method GHG emission goals of the Minnesota Climate Change Advisory Group (MCCAG). Sub-groups can use these straw

proposals and any additional ideas they create to achieve the centroid GHG emission reduction target.

- GHG Potential Impact Charts for straw proposals – to help the sub-groups, the MPCA reviewed the Work Group straw proposals and labeled them according to the following four categories to help inform their GHG emission reduction potential and to identify where more information is needed: Potential to directly impact GHG; Potential to indirectly impact GHG; Immaterial/no impact on GHG; Unknown impact/more information needed.
- WARM model GHG emission factor material multipliers – A spreadsheet outlining WARM's GHG emission reduction multiplier calculation for 34 different materials by management method is attached. This spreadsheet can help sub-groups identify and/or prioritize materials to focus on within each management method.
- Implementation Plan Template – A template for the implementation plans was created for the sub-groups. This template includes all aspects of the waste management hierarchy and is intended to guide format consistency across centroid implementation plans.
- MPCA staff – the MPCA will provide technical support to sub-groups as needed, including running WARM and other models where appropriate to estimate the GHG emission reduction potential associated with centroid strategies and plan(s). In addition, where possible, the MPCA can help to identify costs or other relevant information needs.

Desired Outcomes/Results: Sub-groups will develop up to four centroid-based implementation plans. As shown in the Implementation Plan Template, plan(s) should detail the overall integrated plan(s) proposed management method structure and material mix targets, as well as the specifics on individual strategies including:

- Description of strategy
- GHG reduction potential (by strategy where possible)
- Implementation timeframe and mileposts
- Potential implementation parties
- Costs
- Funding mechanisms
- Barriers and opportunities to implementation
- Feasibility
- Priority
- Material target (type and quantity)
- GHG reduction measurement method

Timing: Sub-groups are asked to complete and submit their plans to MEI by **Monday, August 31, 2009**. During the fall of 2009, the iterative process for centroid based strategy development will continue. Centroid plans will be reviewed and refined during Work Group meetings, regionally based Stakeholder Input Group meetings, and an online open public comment period on the rough draft strategies report. Work Group meetings will take place throughout the fall of 2009, the Stakeholder Input Group meetings are tentatively scheduled for October, and the online public comment period is tentatively scheduled for the second half of November. Centroid sub-group members and other interested parties are encouraged to attend and participate in all of the above opportunities to provide input. The final report is scheduled to be completed in December 2009.