Solid Waste Management Master Plan

Planning for a Sustainable Future in Solid Waste Management

August 2010

Department of Solid Waste Management
Mission Statement:

"To provide our customers with exceptional waste collection, recycling and disposal services that protect, preserve and improve our environment and the quality of life in our community."
Miami-Dade County’s Integrated Solid Waste Management System
At A Glance

A. Neighborhood
B. Trash & Recycling Center
C. Home Chemical Collection Center
D. Materials Recovery Facility
E. Regional Transfer Station
F. Resources Recovery Waste-to-Energy Facility
G. Ash Landfill
H. Landfill
J. Sequencing Batch Reactor
K. Future Landfill Gas Recovery Facility
L. South Dade Landfill Reviwst Wetlands
M. DSWM Administration Building
Existing System Components

- Over 320,000 Homes Served
- Approximately 1,000 Employees
- Over 100,000 Tons Recycled in the new single stream system
- 13 Trash and Recycling Centers
- 3 Transfer Stations, 3 Active Landfills
- 2 Home Chemical Collection Centers
- World Class Waste to Energy Facility
Introduction: Development of a Solid Waste Master Plan

Master Plan Focus Areas

• Consistency with the County’s Land Use Plan (CDMP)
• Maintenance of Environmental Quality
• Regulatory Compliance
• Waste Reduction and Recycling
• Waste Collection and Transfer Efficiency
• Management of Household Chemical Wastes
• Adequate and Equitable Funding System
• Evaluation of New Processes and Technologies
Master Plan Tasks

Phase I Tasks

• Gain Public Input
• Assess Current and Future Solid Waste Management Needs
• Study the Current Waste Composition
• Project Future Solid Waste Generation
• Clarify Regulatory and Policy Issues
• Evaluate Current Financial Program
• Identify Alternatives and Options
Master Plan Tasks

Phase II Tasks

• Gain Public Input
• Screen and Select Alternatives
• Craft a new Financial Plan
• Develop an Implementation Strategy
• Prepare a Long-Term Master Plan
Issues Influencing Development of the Solid Waste Master Plan

- Population Growth
- Landfill Capacity
- Aging Facilities
- Legislative Mandate
- Waste Reduction and Recycling
- Storms
- Consensus Building/Stakeholder Involvement

Year

2010  2020  2030
Near-Term & Long-Term Solid Waste Challenges

- Estimate of North Dade Landfill reaching capacity 2012-2014
- Estimate of South Dade Landfill reaching capacity 2017-2020
- Estimate of the Waste to Energy Ash Landfill reaching capacity 2020-2023

- 2015 - State of Florida 75% Recycling Mandate
- 2020 - Agreement with Waste Management for disposal capacity at Medley and Pompano Landfills expires
- 2023 - Current term of the Waste to Energy Agreement with Covanta expires

2015 - Major hauler disposal agreements expire with Waste Services Inc. and Waste Management
2015 - 15 of 18 Inter-local disposal Agreements with municipalities expire
Sustainability is Fundamental to Long-Term Solid Waste Planning

Sustainability Means Meeting the Needs of the Present Generation Without Compromising Future Generations
Sustainability is Fundamental to Long-Term Solid Waste Planning

- Innovation
  - Capital Efficiency
  - Risk Management
  - Margin Improvement
  - Growth Enhancement
  - Total Shareholder Return

- Job Creation
  - Skills Enhancement
  - Local Economic Impacts
  - Social Investments
  - Business Ethics
  - Security

- Economic Growth
- Socio-Economic
- Eco-Efficiency

- Sustainability
- Social Progress
- Environmental Stewardship

- Diversity
- Human Rights
- Community Outreach
- Indigenous Communities
- Labor Relations

- Clean Air, Water, & Land
  - Emissions Reductions
  - Zero Waste, Releases & Spills
  - Biodiversity

- Safety & Health
  - Environmental Regulations
  - Global Climate Change
  - Access to Potable Water
  - Crisis Management
  - Environmental Justice
Sustainability—What it Means

- **ECONOMIC GROWTH**: Innovation, Capital Efficiency, Risk Management, Margin Improvement, Growth Enhancement, Total Share Return
- **SOCIAL PROGRESS**: Diversity, Human Rights, Community Outreach, Indigenous Communities, Labor Relations
- **ENVIRONMENTAL STEWARDSHIP**: Clean Air, Water & Land, Emissions Reductions, Zero Waste, Releases & Spills, Biodiversity
Miami-Dade County
Solid Waste Master Plan

OPTIONS FOR CONSIDERATION

• What do you like about the current system and the services provided?
• What do you dislike about the current system and the services provided?
• What services or directions would you like to see the Department move into in the future?
• What issues would you like to see addressed in the Solid Waste Master Plan?
Miami-Dade County Solid Waste Master Plan

Meeting Conclusion

For more information please visit
http://www.miamidade.gov/dswm/master_plan.asp

Additional Comments or Questions can be sent to
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