

# Solid Waste Management Master Plan



*Planning for a Sustainable Future  
in Solid Waste Management*

August 2010



Department of  
Solid Waste Management

# Introduction: 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  
Ash Landfill
- G** Landfill
  - G1** Sequencing Batch Reactor
  - G2** Future Landfill Gas Recovery Facility
  - G3** South Dade Landfill Restored Wetlands
- H** 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



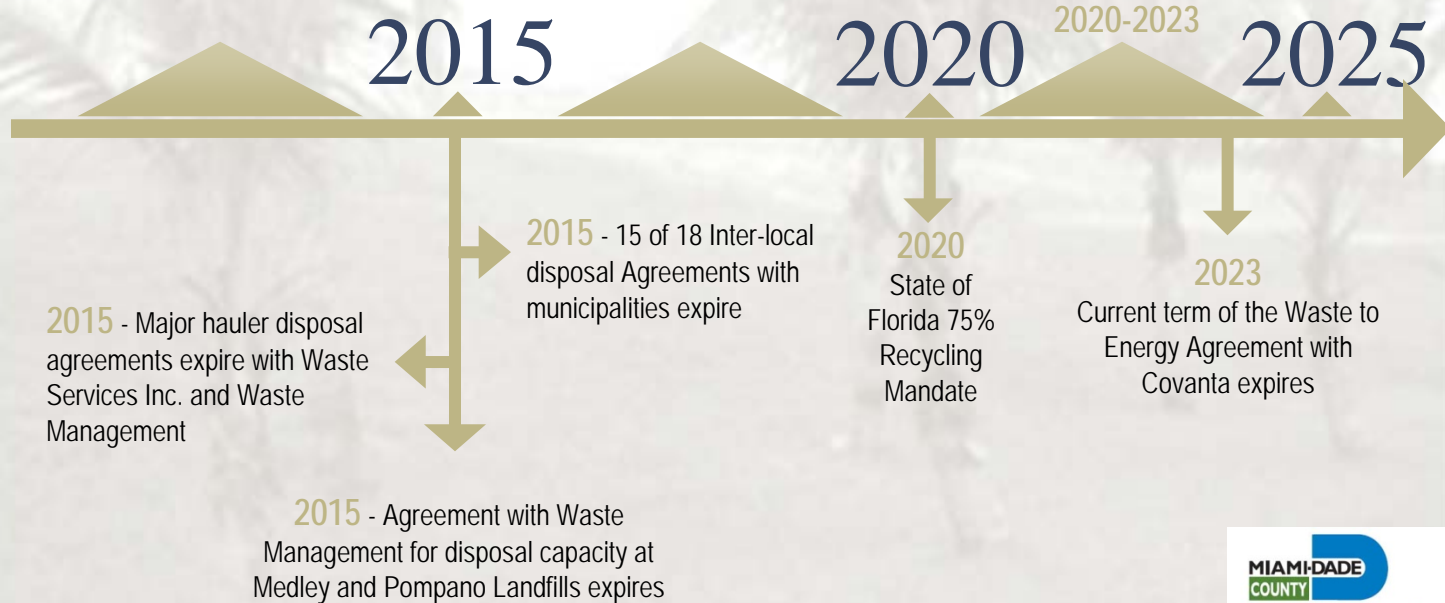
Estimate of North Dade Landfill reaching capacity  
2012-2014



Estimate of South Dade Landfill reaching capacity  
2017-2020



Estimate of the Waste to Energy Ash Landfill reaching capacity  
2020-2023



# 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





# 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](http://www.miamidade.gov/dswm/master_plan.asp)

Additional Comments or Questions  
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