





The Implementation Table contains actionable and measureable initiatives designed to achieve our 2015 sustainability goals. As GreenPrint is the umbrella for many existing plans, existing sustainability initiatives are included when deemed critical to accomplishing the goal area strategy. Other initiatives were developed through the planning process to address specific sustainability challenges or to expand on strengths. The Planning Process and Acknowledgements chapters highlight that our effort to identify and develop initiatives has been collaborative. It represents the culmination of work completed by the Mayor's Sustainability Advisory Board, the Interdepartmental Team, the Climate Change Advisory Task Force, community stakeholders, cities, the Southeast Florida Regional Climate Change Compact partners, and of course the core planning team. Miami-Dade County is the implementation lead on many initiatives and others are owned by community stakeholders.

#### The Implementation Table is organized by each *GreenPrint* Goal Area

The table presents information for each initiative such as the lead entity and partners (internal or external to Miami-Dade County government), funding scenarios, legislative action needed, key five-year milestones, impact on carbon emissions or the value of carbon storage, and performance indicators and targets. It is our action plan and will be used to monitor progress and determine success.

#### **Mutually Beneficial and Inter-related Goals**

The sustainability pillars are overlapping. Benefits in one goal area are often inter-related with benefits in another. Although there are seven different goal areas, the plan is holistic and the order of the goals is purposeful...starting with strong leadership, connections, and commitment to ultimately creating healthy communities. Each area contributes to a solid foundation for the Climate Change Action Plan to adapt and reduce our greenhouse gas emissions. Plans are important, but implementation is crucial for a sustainable Miami-Dade County.















L	Leadership, Connections and Commitment											
	Initiative	Lead & Partners	Funded and Unfunded Costs  Capital Operating	Funding Sources	New Legislative Action	Milestones	Emissions Impacts	Performance Indicators and Targets				
STF	STRATEGY: Strengthen regional and local community partnerships											
1.	Implement the Southeast Florida Regional Climate Change Compact	Lead Office of Sustainability (OOS) and Department of Enivronmental Resources Management (DERM) for Miami Dade County  Regional Climate Action Partners (Leads for Palm Beach, Broward, and Monroe Counties)  Partners South Florida Water Management District (SFWMD), International Council for Local Environmental Initiatives (ICLEI) Climate Leadership Initiative (CLI) Municipalities	Operating Costs: Funded plus in-kind exisiting staff  Year 1: \$75,000 Year 2: \$125,000  Seeking additional funding from federal and foundation sources to augment existing resources	Kresge Foundation through the Climate Leadership Initiative. In-kind contributions from ICLEI, participating Counties, National Oceanic and Atmospheric Administration (NOAA), U.S Geological Ssurvey (USGS), and the U.S. Army Corps. of Engineers (USACE)	No.	Year 1: Develop baseline and future projections of greenhouse gas missions within Southeast Florida. Year 1-2: Draft Regional Climate Action Plan, Develop mitigation strategies to obtain coordinated emission reductions, and develop sea level rise scenario maps to identify vulnerable areas in the SE Florida region. Year 2-5: Further develop climate change impact scenarios for regional adaptation planning.	Regional emissions baseline and targets TBD through implementation	Achievement of milestones				
2.	Codify the sustainability planning process and create a formal leadership structure for GreenPrint implementation	Lead Office of Sustainability (OOS) All initiative owners	Within existing resources	Within existing resources	Yes. Approval by Board of County Commissio ners	Year 1: Planning process legislation Create the internal and external reporting structure and mechanism Establish the implementation team Year 2-5: Report on progress	Indirect impact	Achievement of milestones				
3.	Encourage all municipalities to adopt GreenPrint	Lead Office of Sustainability (OOS)  Partners Elected officials, City and County Managers Association (CCMA), Municipal liaisons	Within existing resources	Within existing resources	Yes. Approval by municipal governmen ts	Year 1: Continue the municipal liaison meetings. Year 1-2: Present at municipal commissions	Indirect impact	# of municipalities that adopt GreenPrint				



#### Leadership, Connections and Commitment **Funded and** Performance Legislative Action **Emissions** Indicators Lead & **Funding Unfunded Costs Initiative Milestones Sources Partners** Capital **Operating** TBD through Pursue more public-TBD through implementation TBD through TBD TBD through TBD through Lead County Executive Office implementation implementation implementation implementati private partnerships to (CEO) Year 1: Identify and on, Number Individual departments prioritize opportunities of PPPs implement policies and other entities including partnerships identified in County depending on selected such as increasing green plans that improve partnerships space though shared use agreements with schools **County services Partners** and improving bus Miami-Dade County service following School Miami-Dade roadway shoulder use County Public Schools model TBD Year 2: Implement selected partnerships. STRATEGY: Integrate sustainability into all leadership systems Within existing resources **Continue to participate** TBD through TBD TBD through Indirect impact TBD by specific Local elected officials, implementation implementation in and influence Office of Sustainability climate

formedecise nation interest through the conference of the conferen	ainability policy sulation and sion-making at the onal and mational level ugh partnerships, erences, and lation	(OOS)  Partners  Four County Regional  Climate Compact,  Seven-County Partnership,  ICLEI,  State and Federal Partners  (SFWMD, NOAA, EPA)						change and energy legislation
6. Integ know leade new	grate sustainability vledge into existing ership programs and elected official ntations countywide	Lead UM Initiative on Excellence in Public Service  Partners Office of Sustainability (OOS), Dade Community Foundation Miami Fellows Initiative, Leadership Miami,	Within existing resources	Within existing resources	TBD	Year 1: Inventory and partner with existing leadership programs. Establish sustainability track. Year 2-5: Implement	Indirect impact	Number of participants in leadership programs  Success of participants in their fields



#### Leadership, Connections and Commitment Indicators and Targets **Funded** and Performance Legislative Action Emissions Impacts Lead & **Funding Unfunded Costs Initiative Milestones Sources Partners Capital Operating** Chamber of Commerce Leadership programs, Beacon Council **United States Department** of Defense Southern Command STRATEGY: Be green government role models Within existing resources TBD through **Integrate and prioritize** Lead Within existing resources Yes. Codify Year 1-3: Establish Achievement County Executive Office implementation of milestones sustainabili sustainability climate change and (CEO) ty planning organizational measures and targets Office of Sustainability process. and targets for strategic sustainability in local (OOS) and business plans and government strategic for agency heads' **Partners** performance evaluations planning, business Miami Dade Office of Year 3-4: Monitor and planning and in fiscal Strategic Business report GHG reductions Management and other sustainability decision making (OSBM), measures County and Municipal Year 5: Recognize Executive Offices, agencies that achieve All County Departments. and exceed sustainability Municipalities targets **Develop an interagency** Lead Within existing resources Within existing resources TBD TBD through Indirect impact Completion of County Executive Office implementation through charge memo working group to ensure (CEO) implement objectives implementation of the Office of Strategic Business ation Management (OSBM) process **CDMP** by tackling **Partners** conflicts between All County Departments different County plans and within the development process



#### **Leadership, Connections and Commitment**

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	Initiative	Lead & Partners	Funded and Unfunded Costs  Capital Operating	Funding Sources	New Legislative Action	Milestones	Emissions Impacts	Performance Indicators and Targets
9.	Work with local Board of Rules and Appeals and other stakeholders to maintain the Florida Energy Code and to better define and set forth responsibilities of each trade in order to improve compliance with and enforcement of the Code (Within the Florida Energy Code and 2010 Florida Statutes, Chapter 468, Part XII)  Adopt existing draft County Ordinance (per	Lead Building and Neighborhood Compliance (BNC)/ Building Code Compliance Office (BCCO)  Partners Miami Dade Board of Rules and Appeal (and possibly Broward Board of Rules and Appeal), Office of Sustainability (OOS), Builders Association of South Florida (BASF) and other Builder/Trade Associations, Other stakeholder groups to be determined  Lead Office of Sustainability	Unfunded Approximately (2) energy Code specialist positions Cost would be \$160,000 – 210,000 annually (2 Energy Code specialist positions at \$80k-\$105k each).	Unidentified Perhaps through permit fees.  Within existing resources	New legislation is not required, but existing codes and regulations need to be better defined and updated.  Yes. Would require	Year 1: Request/ convene a BORA subcommittee to study the lack of compliance/enforcement program Year 2: Establish a check box on permit card that building being reviewed has been inspected for compliance with Florida Energy Code Year 3: Lobby for additional State certified energy raters and request more local representation on the Florida Building Commission. Year 1: Review, update, and finalize draft	TBD through implementation	Achievement of milestones and targets  Compliance with the Florida Energy Code  Achievement of milestones
	Resolution R468-06) requiring water efficiency retrofits at point of home resale (prior to changing ownership) and later update the ordinance to require additional retrofits focusing on energy efficiency	Water and Sewer Department (WASD)  Partners Building and Neighborhood Compliance (BNC)/ Building Code Compliance Office (BCCO), USGBC South Florida Chapter, Others TBD			adoption of an ordinance that has already been developed, then modificatio n of this ordinance and subsequent adoption of the modified version.	ordinance and submit through proper channels for adoption Year 2: Research and draft modified language for adopted ordinance to include energy efficiency component Year 3: Submit revised ordinance through proper channels for adoption Year 4: Educate stakeholders about the ordinance Year 5: Enforce Ordinance		and targets



L	eadership, C	onnectio	ns and Cor	nmitmen	t			
	Initiative	Lead & Partners	Funded and Unfunded Costs  Capital Operating	Funding Sources	New Legislative Action	Milestones	Emissions Impacts	Performance Indicators and Targets
	ATEGY: Create ongoing outre Develop and implement ongoing community outreach about sustainability and climate change	Lead Office of Sustainability (OOS), Miami-Dade College (MDC), Florida International University (FIU), University of Miami (UM), Florida Atlantic University (FAU), Barry University, St. Thomas University, Other local universities, Miami Dade Public School System (M-DCPS)  Partners Media, Museums, South Florida Climate Compact partners (Miami-Dade, Palm Beach, Broward, Monroe	TBD through implementation	unity about the implice TBD through implementation	No.	Year 1: Establish partnerships and work plan framework and analysis of current communication mechanisms and competitions Year 2: Craft educational content that is aligned with work plan Year 3: Conduct outreach Year 4: Assess outreach and modify as necessary Year 5: Continue outreach and assessment	Indirect impact	Achievement of milestones and targets
12.	Estimate the Costs of Action vs. Inaction and communicate implications to key decision-makers	counties)  Lead  School of Business of St. Thomas University  Partners  Offices of Economic Development Coordination (OEDIT ) and Sustainability (OOS), South Florida compact partners (Miami, Dade, Broward, Palm Beach and Monroe Counties), Representatives from academia, and key business leaders through the Beacon Council	Operating funding required (if panel recommends such a study)	TBD through implementation	TBD	Year 1: Convene a group of experts to evaluate study merits, options, scope of work, value, etc. Year 2: If decision is to initiate the study, identify funding sources and procure. Year 3: Conduct the study Year 4: Share study with decision makers.	Indirect impact	Achievement of milestones



W	Water and Energy Efficiency										
	Initiative	Lead & Partners		led and ded Costs Operating	Funding Sources	New Legislative Action	Milestones	Emissions Impacts	Performance Indicators and Targets		
STF	ATEGY: Reduce energy and	d water consumption	n through	increasing e	efficiency						
13.	Continue to implement the Water Use Efficiency Plan and the Non- Revenue Water Loss Plan initiatives to meet established reduction targets	Lead Water and Sewer Department (WASD)  Partners Office of Sustainability (OOS)	Funded: Water Conservati on Approximat ely \$1.5 million for water saving devices. Water efficiency audits Unfunded: Replaceme nt and repair of piping for water loss Water audit retrofits	Funded: Water Conservation outreach and audit reduction	WASD revenue	No, however code changes may be needed to ensure increased water efficiencies such as rainwater harvesting and new constructio n that does not require 100% landscape irrigation	Water use efficiency plan Year 1: Implement plan to reach water efficiency reduction target (1.5 MGD for 5 years). Implement the water efficiency audit program: Restore program to 150 homes per year Year 2: Expand program to reach 200 homes per year, 50 commercial sites per year and 10 industrial sites (or a combination thereof Year 3-5: Develop monitoring mechanism to track water retrofits undertaken and associated reductions  Non revenue water loss reduction program Year 1-3: Perform audits, meter testing and Pilot projects aimed at reducing annual real water and apparent water losses Year 4-5: Develop and implement leakage reduction plan and evaluate plan effectiveness Future: Expand plan and encourage wholesale customers to implement similar programs	16,000 mt CO <sub>2</sub> over five years	Audit performance indicators would be based on funding. Number of audits Estimated annual water savings: 3.2 billion gallons per year Estimated annual cost savings Estimated annual electricity savings in kwh: 3.6 million kWh per year retrofits performed post audit		
14.	Incentivize energy efficient development	Lead Building and Neighborhood Compliance (BNC) and	Existing reso funding TBD incentive me	based on	TBD based on recommendations from Sustainable Code and Permitting Project (EECBG	May require BCC action	Existing Buildings Year 1: Implement recommendations from Sustainable Code and	Year 1-5: Residential Sector: 583 mt CO₂e (over 5	Estimated annual electricity savings		



Initiative	Lead & Partners	Unfun	led and ded Costs	Funding Sources	New Legislative Action	Milestones	Emissions Impacts	Performance Indicators and Targets
prioritizing walkable, transit-oriented areas	Building Code Compliance (BCCO)  Partners Office of Sustainability (OOS) Builders Association of South Florida (BASF) Latin Builders Association of South Florida (LBA)	Capital	Operating	Project)	Leg A	Permitting Project (EECBG Project) pertaining to sustainable development. Year 1-2: Develop incentive package for property owners to incorporate high energy performance strategies in renovation/expansion projects. Year 2-5: Market program to property owners through website and/or educational workshops New Construction Year 1: Implement recommendations from Sustainable Code and Permitting Project (EECBG Project) pertaining to sustainable development Year 1-2: Develop inspectors training	years) Commercial Sector: 1,950 mt CO <sub>2</sub> e (over 5 years)	Residential Sector: 209,000 kWh per year; Commercial Sector: 699,000 kWh per year
15. Implement EECBG projects	Lead Office of Sustainability (OOS)  Partners Department of Environmental Resource Management (DERM), General Services	Funded thru Unfunded be		Department of Energy's Energy Efficiency and Conservation Block Grant (EECBG) program	Yes – adoption of federal legislation to appropriate EECBG continuatio n funding	program in order to attain one hundred percent compliance with the Florida Energy Code. Year 2-5: Enforce compliance and market green building rating standards.  Years 1-3: 12 projects must be completed by August 2012. Projects listed in the Water and Energy Efficiency Chapter. Years 4-5: No action	54,000 mt CO₂e over five years	Estimated annual electricity savings in kwh: 19 million kWh per year Estimated



ı	nitiative	Lead & Partners		led and ded Costs Operating	Funding Sources	New Legislative Action	Milestones	Emissions Impacts	Performance Indicators and Targets
inn	omote and create lovative financing for ergy efficiency	Administration (GSA), Libraries, Miami Dade Parks & Recreation (MDPR), Public Works Department (PWD), Water & Sewer Department (WASD), Enterprise Technology Service Department (ETSD), Office of Grants Coordination (OGC), Office of Capital Improvements (OCI), Department of Procurement Management (DPM), Office of Strategic Business Management (OSBM), Government Information Center (GIC), Finance Department  Lead Office of Sustainability (OOS)  Partners Finance Department, PWD (Special Taxing District), BNC, Property Appraiser	Self sustainin mechanism	g depending on		Federal, local	Year 1: Continue to monitor progress of PACE legislation on a federal level to determine by end of 2011 how program will take shape (specifically, whether it will be PACE or have another structure) Enact Energy Program ordinance (leaving room for flexibility in ordinance) Year 2: Form financing mechanism for voluntary energy efficiency and renewable energy program Year 2-5: Develop program out; MDC's role will be a facilitator as opposed to a program administrator	Residential Sector savings: 3,100 mt CO <sub>2</sub> e over 5 years Commercial Sector savings: 12,000 mt CO <sub>2</sub> e over 5 years	Estimated annual electricity savings in kwh: 1 million kWh per year Estimated jobs created



W	Water and Energy Efficiency									
	Initiative	Lead & Partners	Funded and Unfunded Costs Capital Operating	Funding Sources	New Legislative Action	Milestones	Emissions Impacts	Performance Indicators and Targets		
STR	ATEGY: Improve energy pl	anning through pub	lic-private partnership	S						
17.	Create a Miami-Dade Energy Alliance with a diverse group of stakeholders to implement sustainable energy and building management system retrofits and practices that conserve energy, natural resources, and provide reinvestment savings	Initiated by the County with a diverse group of internal and external stakeholders. Leadership of the group could be rotated year to year to the different external stakeholders  Partners Miami-Dade County Municipalities, Florida Power and Light (FPL), Gas companies, Clean Cities, Building Owners & Managers Association (BOMA), General Services Administration (GSA), Florida Green Building Coalition (FGBC), US Green Building Council (USGBC), Miami Dade County Schools, Other County Departments, Local Universities	To be determined though implementation			Year 1: Form the Alliance. Identify and recruit a group of community stakeholders Year 2: Hold meeting and develop agenda and strategies Collaborate with utilities to for smart grid initiatives Year 3: Identify feasible retrofit/energy performance improvement projects and how to fund them Year 4-5: Implement projects and track their energy and financial benefits	This will be estimated using the multiplier factor of 2 and emissions reductions from the campaigns initiative. 190,00 mt CO <sub>2</sub> e over 5 years			
	ATEGY: Continue water an	0	1				T	I		
18.	Continue to implement current campaigns and pursue additional funding	Lead Water and Sewer Department (WASD), Office of Sustainability (OOS)  Partners Government Information Center(GIC), Department of Environmental	Water Campaign: Total Budget: \$223,000 Web SLA: \$96,000 Marketing: \$127,000  Water conservation programs are funded through end of FY2010 and will continue to be funded by WASD at a lesser level. For	The water conservation program is funded through ratepayer's fees and grants from the SFWMD. The energy conservation projects are funded by the federal government through the Department of Energy's Energy Efficiency and	Yes . Adoption of federal legislation to ensure EECBG continuatio n funding is required past the	Year 1: Allocate funding across existing energy efficiency (OOS EECBG) and water efficiency (DERM) outreach programs and Implement workshops and campaigns Year 2-5: If possible,	190,000 mt CO₂e over 5 years	Estimated water savings: 230,000 gal per year  Estimated annual fuel savings in gallons: 240,000 gal		



#### Water and Energy Efficiency Performance Funded and Legislative and Targets Indicators **Emissions** Impacts Lead & Action **Funding Unfunded Costs Initiative Milestones Partners** Sources Capital **Operating** programs, funding needs met (DERM) Consumer Services (EECBG) program. to include greater crossyears (Ag Extension Center), for the next two fiscal years sections of the economy Estimated Solid Waste Management or until September 30, 2012. (ie, residential, annual (SWM), Public Library commercial and electricity System, Dream in Green. Additional funding for both industrial sectors) and savings in Florida Power and Light programs need to be continue to Implement kwh: 58 (FPL) identified. workshops and million kWh campaigns per year STRATEGY: Expand alternative fuel (bio-diesel/waste-based bio-diesel) and renewable energy industries Within existing resources TBD through Year 1: Work with TBD through 19. Explore partnerships **County Executive** implementation through OEDIT/Beacon Council to implementati with large public and Office(CEO), Office of implement determine what on Sustainability (OOS) ation partnerships can be private explored landowners/entities to **Partners** Year 2-3: Identify and Office of Economic foster opportunities for implement alternative Development & partnership with fuel/energy parks and International Trade renewable fuel/energy (OEDIT), DERM, Beacon companies incentivize public and Council, Potential private Year 4-5: Explore how private use MDC can facilitate sector partners TBD development of local renewable fuel/energy production Lead Unfunded Pursue Year 1-2: Work with TBD based on TBD based on 20. Incentivize local and County Executive Office Black and OEDIT/Beacon Council to incentives incentives sustainable alternative (CEO) yellow explore tax incentives created created Department of grease Create incentives energy/fuel industries, **Environmental Resources** legislation: Develop tax incentives and enact legislation to if not Management (DERM), for renewable remove obstacles and Solid Waste Department energy/fuel companies possible, (SWD). develop Develop stimulate the industry Water and Sewer voluntary marketing/recruitment Department (WASD) program for renewable program for energy/fuel companies **Partners** separation and assist process to Office of Sustainability ensure that business (OOS). Office of Economic plans are sustainable and Development & to help stimulate market International Trade Year 3-5: Implement (OEDIT), Florida Power and Light (FPL), Beacon Council



W	ater and Energ	y Efficiency	y					
	Initiative	Lead & Partners	Funded and Unfunded Costs Capital Operating	Funding Sources	New Legislative Action	Milestones	Emissions Impacts	Performance Indicators and Targets
STR	ATEGY: Be government lea	aders in energy, fuel	and water efficiency					
	Develop and implement a government energy efficiency master plan	Lead Office of Sustainability (OOS)  Partners All (through energy liaisons)	Plan development within existing staff resources  Funding may be needed for implementation		No	Year 1-2: Develop framework for plan (QA/QC on baseline and electricity data collection process) and form Energy Conservation Liaisons from all departments Write and distribute plan that empowers departments to monitor and manage their electricity use Year 3-5: Implement reduction strategies identified in plan	85,000 mt CO <sub>2</sub> e over 5 years	Estimated annual electricity savings in kwh: 30 million kWh per year  Percentage of buildings benchmarked annually = 20%
22.	Continue to implement Energy Star Portfolio Manager Benchmarking of County facilities	Lead All Miami-Dade County Departments  Partners Office of Sustainability (OOS)	Staff time and training of Energy Conservation Liaisons. Additional funding required to implement retrofits		No	Year 1: Reactivate Energy Liaisons committee and train them on the Energy Star process Year 1-5: Benchmark a minimum 20% of MDC building per year (100% by 5 <sup>th</sup> year)	TBD through implementation	Percentage of buildings included in Miami Dade County Energy Star portfolio
23.	Develop incentives for County employees to save energy through the Idea Machine	Lead Human Resources (HR), Office of Sustainability (OOS)  Partners All County Departments	None	County Idea Machine	No	Year 1: Create a process through the Idea Machine. Year 1-5: Implement	TBD through implementation (based on ideas)	Number of pursuable ideas submitted
24.	Create a countywide energy reinvestment fund to capture savings from energy efficiency projects and reinvest in new energy efficiency projects, making the	Lead Office of Sustainability (OOS), Office of Strategic Budget and Management (OSBM)  Partners All County Departments	Unfunded Capital Cost: \$1 million in loan capital	To be determined	No	Year 1: Set up reinvestment fund including repayment mechanism; develop application package and selection process Year 1-5: Award first tranche of loans and perform retrofits Collect payments to recharge	TBD through implementation	Number of projects Energy efficiency



Initiativ	Lead & Partners	Funded and Unfunded Costs Capital Operating	Funding Sources	New Legislative Action	Milestones	Emissions Impacts	Performance Indicators and Targets
EECBG program financially susta					fund; begin new application cycle, reissue loans, repeat		
25. Retrofit govern facilities accord water efficiency recommendation	ding to (OOS), Water and Sew y audit Department (WASD)	er of the recommendations	Funding required to continue auditing County facilities and to implement recommendations	No	Year 1: Secure funding for audits and implementation or recommendations Year 1-2: Prioritize buildings to be audited Year 2: Perform audits Year 3-5: Complete retrofits and track savings	18 mt CO <sub>2</sub> e over 5 years	TBD based on retrofits implemented  Number of audits completed  Estimated annual electricity savings in kwh: 4,000 kWh per year  Estimated annual fuel savings in gallons: 150 gal of diesel equivalent per year  Estimated water savings: 3.5 million gal per year
26. Continue fuel re and monitoring programs such Chicago Climate Exchange	Office of Strategic Busi Management (OSBM)  as	year membership with expected annual average cost of \$71,000	Fleet Operations Fund General Fund	Yes, for membership continuance	Years 1-5: Reduce emissions 1.5% annually relative to baseline year 2000	25,000 mt CO₂e over 5 yrs assuming renewal	Yearly emissions report
27. Continue to tra	nsition Lead General Services	Within existing budgets	Department budgets	No	Year 1: Prioritize deployment of existing	TBD in implementation	# of active hybrid



	Initiative	Lead & Partners	Funded and Unfunded Costs Capital Operating	Funding Sources	New Legislative Action	Milestones	Emissions Impacts	Performance Indicators and Targets
	fleet to hybrid electric vehicles	Administration (GSA) Miami Dade Transit (MDT)  Partners Additional County departments with fleet				hybrid vehicles Year 2-5: Continue to transition transit fleet to hybrid and expand transit to increase ridership		vehicles: 329 # of inactive hybrids made active: 103 # of hybrid buses purchased: 254 Fuel reduction: 76,000 gallons of DSL/yr; 33,000 gallons of UNL/yr
28.	Continue to purchase hybrid-hydraulic diesel garbage trucks	Lead Solid Waste Management (SWM)  Partners General Services Administration (GSA)	Capital: \$380,000 per truck Operating: \$13,918 per truck	SWM budget	No	October 2011 for purchase of 10 additional trucks. 126 trucks by 2015	2,700 mt CO₂e over 5 years	Estimated annual fuel savings in gallons of diesel: 57,000 gallons per year Trucks Purchased: 126 over five years (10 in Year 1, then 26 each additional year for Years 2 - 5
29.	Create a process to purchase biodiesel that complies with Environmental Protection Agency's biodiesel protocol which requires a minimum 50% GHG lifecycle reduction	Lead Department of Procurement Management (DPM)  Partners County Executive Office (CEO) General Services Administration (GSA) Miami Dade Transit (MDT) Office of Sustainability (OOS)	Within existing resources	Within existing resources	No	Year 1 and 2: Develop a procurement process that requires vendor of biodiesel to disclose country of origin and feedstock of biodiesel being purchased.	TBD based on biodiesel purchased	Achievement of milestones



	Initiative	Lead & Partners	Funded and Unfunded Costs Capital Operating	Funding Sources	New Legislative Action	Milestones	Emissions Impacts	Performance Indicators and Targets
30.	Develop a process that facilitates delivery of diesel fuel to Miami International Airport from Port Everglades through existing aviation fuel pipeline	Lead Miami-Dade Aviation Department (MDAD)  Partners General Services Administration (GSA) Private suppliers	Capital cost is \$2 million to upgrade existing tank farm.  This cost would be paid for up front by private vendor but could be offset through incentivized lease with the County. Operational costs TBD.	By private vendor through procurement agreement	Yes. Board of County Commission (BCC) action.	Year 1: Hold an "expression of interest meeting" with potentially interested parties Year 1-2: Release the Request for Proposal Year 2-3: Award contract	210 mt CO₂e over 5 years	Estimated annual fuel savings in gallons of diesel fuel: 22,000 gallons per year



C	Our Environment												
	Initiative	Lead & Partners		ed and ed Costs Operating	Funding Sources	New Legislative Action	Milestones	Emissions Impacts	Performance Indicators and Targets				
31.	Implement Wastewater Reuse Projects consistent with the 20- Year Water Use Permit and the Miami-Dade Water and Sewer Department Master Plans to recharge the Biscayne Aquifer	Lead Water and Sewer Department (WASD)  Partners Department of Environmental Resources Management (DERM), Office of Capital Improvements(OCI), Office of Strategic Business Management (OSBM), Public Works Department, & General Services Administration (GSA)	Total cost of all 3 projects is \$1.61billion Phase 1: funded Phases 2 and 3: unfunded	Phase 1: \$17.74 million Phase 2: \$24.79 million Phase 3: \$18.83 million	State of Florida Alternative Water Supply Grants State Revolving Fund (SRF) Loans Revenue Bonds Operating Revenues	New legislative action will be needed to approve constructio n projects and to raise rates	Dec 31, 2014: South District Water Reclamation Plant (Phase 1) Dec 31, 2021: West District Water Reclamation Plant (Phase 2) Dec 31, 2025: North and Central District Water Reclamation Plants Dec 31, 2026: West District Water Reclamation Plant (Phase 3)	26,000 mt CO <sub>2</sub> e increase within 5-years  After all phases are on-line, increase of 93,000 annually in comparison to current energy use  Although emissions will increase in comparison to current operations, they are less than the emissions associated with desalination	Achievement of milestones  Gallons of potable/desali nized water displaced by reclaimed water				
32.	Develop a water and wastewater utility and municipal working group to identify and implement wastewater reuse opportunities at both the utility and municipal levels	Lead Water and Sewer Department (WASD)  Partners Municipalities	TBD through implementat ion	TBD through implementat ion	Working group within existing staff resources	Unidentified	Year 1: Establish topic within current wholesale customer meetings. Year 2-5:Evaluate and implement opportunities	TBD through implement-ation	Gallons of potable/desali nized water displaced by reclaimed water				
33.	Assess the feasibility of using highly treated wastewater to rehydrate wetlands and Biscayne Bay	Lead Water and Sewer Department (WASD)  Partners Department of Environmental Resources	Pilot study: \$2( includes all cos with the pilot, constructing at the pilot plant, testing and tox ecological testi	its associated including nd operating water quality iicity and	Pilot study: WASD  If the pilot is successful and there is agreement and regulatory approval to do a full-scale treatment plant to generate volumes	Yes. If the pilot study is successful, funding and approval is	Year 1: Complete the water quality data Phase 1 Year 2-5: Complete the toxicity test Phase 2 and the ecological test Phase 3.	Energy and GHG emissions will increase from the intense water treatment approaches and will be	Achievement of milestones  Pilot Study indicators will be related to water quality,				



#### **Our Environment** Indicators and Targets Performance **Funded and** Lead & Action **Funding Unfunded Costs Initiative** Milestones **Partners** Sources **Capital Operating** Management (DERM) of water needed for Year 4: Complete pilot and are likely required monitored restoration in the from project (2015) through the pilot to include **USACE** and Comprehensive Everglades At completion of each project. nutrient U.S. Restoration Plan (CERP), phase feasibility of concentration project will be evaluated then the County may seek Congress s, removal of partnership with the (could be cancelled at micro USACE. any phase). contaminants. Year 5 and beyond: Will and some based on Years 1-4 laboratory results toxicity tests. STRATEGY: Address salt intrusion that threatens drinking water wellfields and sensitive natural areas Lead Within Within Within existing resources Year 1: Convene working Not applicable Projects 34. Formalize an South Florida Water existing group within 3-months of identified and existing interagency working Management District resources resources GreenPrint adoption completed (SFWMD) group to evaluate and Costs would Future address issues **Partners** be based on periodic revision of Water and Sewer project(s) associated with salt the isochlor Department (WASD), identified by water intrusion Department of the working line will **Environmental Resources** group require Management (DERM) funding Department of Planning & Zoning (DPZ) Lead Funded: Funded: WASD Completion of well Not applicable Completion of Nο 35. Monitor the isochlor line Water and Sewer \$263.000 \$1.825.724 milestones installation by August and address spatial gaps (contract Department (WASD) (Monitoring 2010. coves FY well Movement of in salt intrusion data Partners installation) 08/11) Year 1: Publication of the isochlor gathering WASD contract with revised isochlor line line United States Geological Additional March 2011 Survey(USGS), monitoring Department of funding will **Environmental Resources** be needed. Management (DERM) Lead <\$900.000 Not Grant from the SFWMD Yes. Board Year 1: Project design Not applicable Completion of 36. Construct a water Department of applicable and the County of County Year 2-5: Permitting. milestones control structure **Environmental Resources** Commissio bidding, award and Stormwater Utility Management (DERM) construction ners Impact on the on/near the Florida City isochlor line approval of Canal to isolate this **Partners** cost South Florida Water sharing canal from South Florida



	Initiative	Lead &		ed and ed Costs	Funding Sources	New Legislative Action	Milestones	Emissions Impacts	Performance Indicators and Targets
		Partners	Capital	Operating	Sources	Leg		<u> </u>	Perf Ind and
	Water Management	Management District (SFWMD)				agreement.			
	District's dry season	(6							
	agricultural drawdown								
37.	Construct a earthen plug	Lead Department of	\$3,000	Not applicable	Wetland Restoration Trust Fund	Yes. Board of County	Year 1: Project design Year 2-5: Permitting,	Not applicable	Completion of milestones
	at the Card Sound Road	Environmental Resources				Commissio	bidding, award and		
	Canal	Management (DERM)				ners approval of	construction		Impact on the isochlor line
		Partners None				Class I Permit.			Wetlands
		None				Terrinc.			function:
									Improvement of mangroves
									Native species
CTD	ATEGY: Protect, enhance,	and roctors our note	red recorre	505					planting
	Continue to minimize	Lead	Not	Funded	DERM,	Yes. Board	Continue operating	Existing wetlands	Air quality
30.	the impact of	Department of Environmental Resources	applicable	within existing	FDEP, SFWMD, EPA	of County Commissio	programs	store an estimated >212 million	results
	development on natural	Management (DERM)		resources		ners	Year 1: Determine	metric tons of	Water Quality
	resources such as air,	Partners				approval of funded	appropriateness of programs to evaluate for	carbon, with and annual	results
	wetlands, Biscayne Bay	Florida Department of				delegated	CO <sub>2</sub> impact.	accumulation of	# of Coastal
	and coastal habitats,	Environmental Protection (DEP), South Florida Water				contracts.	Year 2-5: Select programs, establish	>362,000 metric tons.	habitats restored
	natural forest	Management District					criteria and baselines.		Estimated.
	communities, and trees	(SFWMD), U.S. Environmental					Explore determining the economic value of		Estimated wetlands
	through regulatory	Protection Agency (EPA)					environmental resources.		acreage
	programs								Trees planted
39.	Identify dedicated	Lead Department of	Current Government	Within existing	Federal and State grants, Bond issues	Yes. Board of County	Year 1-2: Identify funding source. Promote Miami-	Not applicable	Completion of projects
	funding sources for	Environmental Resources	Obligation	resources.	שטווע ושטעכי	Commissio	Dade best practice		. ,
	beach renourishment	Management (DERM)	Bond funding	DERM staff		ners approval of	approach.		Impact on sea turtle nesting
	projects to maintain	Partners	available is	manage		constructio			0
	quality beaches and	County Executive Office(CEO),	estimated to be used	capital projects.		n.			Beach renourishmen
		J.1100(0LO),	NC USCU	INI UICCLJ.		1	Í .	i .	
	minimize the negative	Office of Strategic Business Management (OSBM),	completely in the next	MDPR					t activities are



	Initiative	Lead & Partners		ed and ed Costs Operating	Funding Sources	New Legislative Action	Milestones	Emissions Impacts	Performance Indicators and Targets
	impacts of storm events	Park and Recreation (MDPR)	one- to two- year period. Funding will be needed for work beyond FY 2010-2011 FY 10-11 funded: \$7.4 million FY 11-15 unfunded: =\$ 7.8 million	maintains beaches.					correcting erosional areas caused by the dynamic system of coastal currents and the effects of frequent storm events
40.	Continue to enhance and restore coastal habitats important for the health of Biscayne Bay	Lead Department of Environmental Resources Management (DERM)  Partners County Executive Office (CEO) Office of Strategic Business Management (OSBM) Park and Recreation (MDPR)	Funded: \$4,940,000 Unfunded: \$5,400,000	Within existing staff resources	Florida Inland Navigation District (State Grants) Biscayne Bay Trust Fund	Yes. Board of County Commissio ners approval of construction contracts and potential future funding agreement s.	Year 1: Highland Oaks Wetlands Restoration Oleta River State Park Hammock Restoration Year 2: FIU/Oleta River State Park Wetlands Restoration Year 3: Matheson Hammock Wetlands Restoration Year 4-5: Oleta River Hammock Restoration	Mangrove value impact TBD within Year 1	Completion of milestones Cumulative acres of coastal habitats restored: 525 acres
41.	Develop appropriate indicators of the status and health of the resources of Biscayne Bay, through a collaborative approach with academic, governmental, nongovernmental organizations, and stakeholder entities	Lead Marine and Estuarine Goal Setting for South Florida (MARES): University of Miami  Algal bloom indicator update: Florida International University  Partners National Oceanic and Atmospheric Administration (NOAA), National Park Service (NPS), South Florida Water Management District	million grant.  Project will ass coordinating d	sist in lata collection mong agencies st-	MARES funding is from by a grant to the University of Miami and some of its collaborators from the NOAA Center for Sponsored Coastal Ocean Research.  Additional funding will be required to continue collection of underlying data upon which the indicators are based and to analyze the data.	No.	Chl a (algal bloom) indicator presently being updated through 2008. Year 1: MARES project will begin development of indicators for the southeast Florida Shelf Year 2: Integrate these indicators for a more comprehensive assessment of all coastal waters	Not applicable	Achievement of milestones  Chl a: spatial indicator trends: Improvement  Remaining indicators to be developed through the MARES initiative.



	Initiative	Lead & Partners	Funded and Unfunded Costs  Capital Operating	Funding Sources	New Legislative Action	Milestones	Emissions Impacts	Performance Indicators and Targets
42.	Continue to support the Comprehensive Everglades Restoration Plan (CERP)	(SFWMD), Department of Environmental Resource Management (DERM), Florida Fish and Wildlife Conservation Commission (FWC) , Florida Department of Environmental Protection (FDEP), Audubon Society Lead US Army Corps of Engineers; South Florida Water Management District (SFWMD)  Partners Federal, state, tribal, and local government agencies may participate in planning teams.	The entire program has a 50-year time frame and is now expected to cost well in excess of \$10 billion.	For the portion that is funde Federal: Non-Federal match Federal appropriations auth Congress and State appropri Florida legislature/SFWMD. not available from both part particular activity, the project proceed.  For the portion that is unfun Budget bills and authorizatic federal Water Resources Devact at the federal level	required. orized by U.S. ations from If match is ners for a ct cannot  ded:	Approval of individual project implementation plans; authorization of plans by Congress; federal and state funding approvals; federal or state award of construction contracts; initiation of construction	Not applicable	Progress with projects will be monitored.
43.	Report the air quality benefits of mass transit use and reduced vehicle miles traveled	Lead Department of Environmental Resources Management (DERM)  Partners Miami-Dade Transit Department (MDT)	Within existing resources	DERM MDT	No	Year 1: Develop mechanism to calculate air quality impacts. Report. Year 2-5: Continue	TBD through transit ridership	Reductions in CO, NOx, PM and CO <sub>2</sub>
44.	Continue to pursue funding for government and private diesel retrofit projects in partnership with the EPA Southeast Diesel Collaborative	Lead Department of Environmental Resources Management (DERM)  Partners U.S. Environmental Protection Agency (EPA), Southeast Diesel Collaborative (US SEDC)	Funding with be determined by future EPA grant allocation	EPA	Yes. Board of County Commissio ners approval based on grant	Determined by grant(s)	TBD through grant allocation	TBD through grant allocation



C	Our Environment												
	Initiative	Lead & Partners		ed and ed Costs Operating	Funding Sources	New Legislative Action	Milestones	Emissions Impacts	Performance Indicators and Targets				
STR	ATEGY: Protect environme	ental and other land	s that may	be importa	int for ecosystem an	ıd commur	nity resilience						
45.	Continue to acquire important lands through the Environmentally Endangered Lands (EEL) program	Lead Department of Environmental Resources Management (DERM)  Partners Environmentally Endangered Lands Program (EEL)	Funded: FY 10/11 – FY 14/15: \$28.173 million	Within existing staff resources funded by EEL Trust Fund	EEL Trust Fund	Yes. BCC approval of acquisitions .	Continue acquisition program	Existing lands: Estimated Carbon Stored: 5,024,789  Estimated Yearly Accumulation of Carbon on (metric tons): 11,335  Lands remaining to be acquired have the potential to store an additional 4,004,352 metric tons of carbon and accumulate 8,216 tons of carbon annually.	Year 1-5: Cumulative acquisition target: 24,000 acres				
	Explore alternative funding sources for the EEL program such as a carbon offset sequestration program	Lead Department of Environmental Resources Management's (DERM) Environmentally Endangered Lands Program (EEL)  Partners Office of Sustainability (OOS) Chicago Climate Exchange (CCX)	Year 1 milesto existing staff r	esources	Supplemental funding is being sought to support the EEL Program.	Year 1 milestone will evaluate whether legislative action is required.	Year 1: Develop a Project Document with the CCX to determine value of existing EEL lands and revenue opportunities Year 2-5: Evaluate and implement	CO <sub>2</sub> sequestration  TBD through implementation	Achievement of milestones				
	ATEGY: Develop a sustaina	-	tem and M						Achiouges				
47.	Continue to develop a sustainable Solid Waste Master plan	Lead Department of Solid Waste Management (DSWM)	\$1.5 million to	i rhases 1 and	DSWM Disposal and Collection Fees	TBD through Master Plan recommen	Year 1: Completion of Phase 1 (assessment of current system) Year 2: Completion of Phase 2: Development of	TBD through Master Plan alternatives	Achievement of milestones				



	Initiative	Lead &	Funded and Unfunded Costs		Funding	New Legislative Action	Milestones	Emissions Impacts	Performance Indicators and Targets
		Partners	Capital	Operating	Sources	Legi Ac		Emi	Perfo Indi and <sup>-</sup>
		Partners Customers Community stakeholders				dations	alternatives and road map for implementation. Alternatives include a "Pay as You Throw" system, Rate structure changes, diversion through recycling, composting, mulching, increased waste to energy usage, and new technologies		
48.	Use waste as energy at the WASD South District Wastewater Treatment facility	Lead Water and Sewer Department (WASD)  Partners Department of Solid Waste Management (DSWM)	Funded: \$17.04 million	Costs are not yet in annual budget	Capitol: \$1.8M funded by federal EECBG grant, remaining through WASD Plan Expansion Funds and WASD Series 2010 Bond Funds Operations and Maintenance: WASD annual budget	Yes. BCC Approval of contracts.	Year 1: Award cogeneration units contract Year 1-5: Cogeneration construction schedule to be based on contract	440 mt CO₂e per year	Achievement of milestones Amount of CO <sub>2</sub> e impact avoided
49.	Explore a residential composting program	Lead UF IAFS Miami-Dade County Cooperative Extension Service (UF IFAS)  Partners Department of Solid Waste Management (DSWM)	Funded: Workshops wil UFAS existing s resources  Unfunded: Bulk purchase units. Resident purchase com approximately	of compost s would post units,	UF IFAS	No	Year 1: Conduct educational workshops Year 2: Conduct surveys to determine program effectiveness Year 2-5: Continue/refine program based on Year 1-2 results	Not applicable	Number of workshop attendees: 450 annually Number of attendees composting (follow-up survey results)
50.	Explore a private sector development of a local soil/compost industry	Lead MDC Agriculture Manager  Partners Department of Solid Waste Management (DSWM)	Explored within	n existing staff onjunction with	Within existing staff resources and Solid Waste Master Plan contract	TBD through Master Plan recommen dations	Year 1: Evaluate the quantity of waste needed for SWM operations in comparison to agriculture/ landscaping industry demand. Evaluate potential distribution and operational models. Year 2-5: Based on Year 1 results	TBD through implementation	Achievement of milestones
51.	Continue to increase	<b>Lead</b> Department of Solid		Funded: New single	DSWM residential collection fees	No	Year 1-5: Continue increase current	County residential	County residential



	Initiative	Lead & Partners	Unfund	ed and ed Costs	Funding Sources	New Legislative Action	Milestones	Emissions Impacts	Performance Indicators and Targets
	participation in the residential recycling program	Waste Management (DSWM)  Partners Waste services Inc., Waste Management of Florida Inc., World Waste Recycling Inc.	Capital	stream program: Approximate ly \$8 million annually  Savings of \$4.5 million in comparison to former dual stream program  Unfunded: Year 1-5:			participation with existing customers and encourage municipalities to join.	collection program: Total emissions avoided = 839,449 mt CO <sub>2</sub> e  Community recycling: 1,645,000 mt CO <sub>2</sub> e avoided	collection program: 4% tonnage increase in FY 2010-11 2% increase each year thereafter
52.	Partner with community leaders, and private entities to elevate commercial and multifamily recycling	Lead Department of Solid Waste Management (DSWM)  Partners Building Owners and Management Association (BOMA), Greater Miami Chamber of Commerce, Municipality Chambers Private Waste Hauling Companies League of Cities Municipalities	Not applicable	Outreach Unfunded: Outreach Staffing needs to be determined through developmen t of work plan.	TBD	Possibly. Chapter 15 of Miami- Dade County Code may need to be updated based on developme nt of the work plan.	Year 1: Identify and prioritize key industries. Establish partnerships and work plan, develop outreach program. Host recycling forum link with current enforcement program Year 2-5: Implement	TBD through implementation	Number of known establishment conducting recycling.  Recycling tons collected by private haulers (Approach TBD)
53.	Mandate recycling in all local government buildings	Lead County Executive Office (CEO), Office of Sustainability (OOS)  Partners Miami-Dade County's Department of Solid Waste Management(DSWM), Department of	TBD	,	Already funded by current costs of waste disposal. Waste disposal costs will go down with a resulting increase in recycling costs/revenues.	No	Year 1: Advertise contract Year 2-5: Implement and encourage municipalities to join		Tons recycled



	Initiative	Lead & Partners	Funded and Unfunded Costs Capital Operating	Funding Sources	New Legislative Action	Milestones	Emissions Impacts	Performance Indicators and Targets
		Environmental Resource Management(DERM), Resource Conservation Committee						
54.	Explore a pilot composting and mulching program for County operations such as Public Works and Park and Recreation departments	Lead Public Works Department (PWD), Parks and Recreation (MDPR)  Partners Department of Solid Waste Management( DSWM), Public School System, S. Dade South and Water Conservation District	Within existing staff resources (PWD)  Unfunded Capital (MDPR): \$250,000  No new operating costs due to potential revenue for compost (MDPR)	Within existing staff resources (PWD)  Attempting to obtain Pepsi Refresh Grant, otherwise TBD (MDPR)	No	Year 1: Evaluate current mulching operations and ability to use in gardens and within own operations or to generate revenue. (PWD) Year 2-5: Implement and expand (PWD) TBD based on funding (MDPR)	Indirect impacts	Achievement of milestones, % reduction to landfill (PWD), Lbs. of compost created (MDPR)



R	esponsible L	and Use a	nd Smart	Transpor	tatio	n		
	Initiative	Lead & Partners	Funded and Unfunded Costs  Capital Operating	Funding Sources	New Legislative Action	Milestones	Emissions Impact	Performanc e Indicators and Targets
STRA	ATEGY: Better integrate pla	nnning and prioritize						
55.	Coordinate among the County departments and other agencies in implementing the CDMP and the County code	Lead County Executive Office (CEO) Department of Planning and Zoning (DPZ)  Partners Departments in the Neighborhood and Transportation Strategic Area Teams, Metropolitan Planning Organization (MPO), Miami-Dade Expressway Authority (MDX), Florida Department of Transportation (FDOT)	Within existing resources	Within existing resources	No.	Year 1: Quarterly meetings coordinated by DPZ to achieve integrated planning by bringing together individual departments and stakeholders to evaluate their planning and activities and how they comply and/or further the Comprehensive Development Master Plan and County code. Develop work plan Year 1-5: Implement identified improvements	Indirect measures	TBD through implementation
56.	Increase transit-oriented development (TOD)	Lead Miami-Dade Transit (MDT) Department of Planning and Zoning (DPZ)  Partners General Services Administration (GSA), Parks & Recreation (MDPR), Public Works Department (PWD), Metropolitan Planning Organization (MPO)	Joint Development Agreements: Funded: Brownsville: Estimated cost at \$175 million Unfunded: Northside: TBD  Additional Urban Centers through County legislation: Additional TOD projects TBD	Funded by private developers through the Florida Housing Finance Corporation (FHFC)	No.	Year 1: Continue to plan and legislate urban centers. Complete joint development agreements: Brownsville – 467 units of affordable housing Year 1-4: Construction  Northside – 350 units of affordable housing Year 1: Complete Lease Agreement with Development. Continue to  Year 2: Planning and permitting process Year 3-4: Construction	13,000 mt CO <sub>2</sub> e reduced (4,200 Brownsville, 7,800 Northside)	Ridership at stations or along corridors where TOD occurs Three urban center plans per year
57.	Develop Corridor Master Plans modeled after the community based area planning process and	Lead Department of Planning and Zoning (DPZ)  Partners Metropolitan Planning	Within existing resources	Within existing resources Seek grant funding	County Zoning Ordinances	3 years to develop plans if grant funded. Year 1: Phase 1 milestones (3-6 months): Powerpoint of stakeholder goals; and	Indirect measures	Corridor Transit Ridership, Bicyclists and Pedestrians, Site plans for commercial uses,



Responsible Land Ose and Sin					Hallspor	tatio			
	Initiative	Lead & Partners		led and ded Costs Operating	Funding Sources	New Legislative Action	Milestones	Emissions Impact	Performanc e Indicators and Targets
	designed to address the Federal Livability Principles	Organization (MPO), Transit Department (MDT), Public Works Department (PWD), Water and Sewer Department (WASD), Parks & Recreation (MDPR), various business and community partners					Assessment Reports Phase 2 milestones: Charrette Workshop; Charrette Work-in- Progress Presentation Year 2-3: Phase 3 milestones (10- 14 months): Final Corridor Plan Report; Implementation Strategies and Recommendations; 3D Massing Model Phase 4 milestones (12- 18 months): Zoning Ordinances; Zoning Map Amendments		New Jobs, Site plans for affordable housing, tree canopy, flooding, Park space, funding shift of water and sewer transmission lines to corridors, site plans for affordable housing, site plans for workforce housing, number of public participants
58.	Establish a uniform set of criteria for departments to follow in developing budget priorities as part of the County's capital budget planning process - These criteria should include sustainability benefits and compliance with the CDMP	Lead County Executive Office (CEO) Office of Strategic Business Management (OSBM)  Partners Office of Capital Improvements (OCI), Office of Sustainability (OOS), Department of Planning and Zoning (DPZ) and all other departments	Within existing	ng resources	Within existing resources	No.	Year 1: Gather and review current department prioritization processes. Establish sustainability criteria and links to the CDMP Establish a mechanism and prioritization process to ensure that departments use the criteria and that capital projects are tied into the Business Planning process Prioritize investment and seek funding for projects facilitating the movement of people and goods through the county's economic engines• Year 2-5: Implement	Indirect measure	Number of projects contributing to CDMP policies and sustainability goals  VHTs or VMTs reduced per project and associated emissions reduction;  Jobs created



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	Initiative	Lead & Partners		led and ded Costs Operating	Funding Sources	New Legislative Action	Milestones	Emissions Impact	Performanc e Indicators and Targets
59.	Develop a map illustrating the location of capital improvement projects in comparison to areas designated in the CDMP for redevelopment, i.e. urban infill areas and urban centers for use by departments in planning and prioritizing infrastructure investments	Lead Office of Strategic Business Management (OSBM) Office of Capital Improvements (OCI)  Partners Department of Planning and Zoning (DPZ), Metropolitan Planning Organization (MPO), Transit Department (MDT), Public Works Department (PWD), Water and Sewer Department (WASD), Solid Waste Department (SWD), Enterprise Technology Services (ETSD), Government Information System (GIS), (all capital departments)	Within existing	ng resources	Within existing resources	No.	Year 1: Develop map Year 2: Develop and implement prioritization process Year 2-5: Continue to implement and annually update map	Indirect measure	# of new infrastructure projects in designated areas
60.	Better integrate land use and transportation planning modeling for the long-range transportation planning process	Lead Metropolitan Planning Organization (MPO) Department of Planning and Zoning (DPZ)  Partners Office of Sustainability (OOS) Transit Department (MDT)	Within existing	ng resources	Within existing resources	No.	Year 1: Make it a legislative priority to improve localized modeling that includes density scenarios based on the implementation of the County's land use policies. Establish a uniform set of criteria to be used to prioritize projects in the county's long range transportation planning (LRTP) process. This criteria should address the LRTP Goals, sustainability benefits and the furtherance of CDMP policies.  Year 2-5: Implement	Indirect measure	Completion of the milestones
61.	Evaluate shifting current	Lead County Executive Office	Within existin	ng resources	Within existing resources	Possibly	<b>Year 1:</b> Study, evaluate and prioritize options	Indirect measure	Increase in funding



#### **Responsible Land Use and Smart Transportation Funded and Emissions** and Targets Lead & **Funding Unfunded Costs Initiative** Milestones **Partners** Sources **Capital** Operating (CEO) Year 2-5: Implement revenue streams to Office of Strategic Business include funding of Management (OSBM) transit operations and **Partners** maintenance and other Metropolitan Planning Organization (MPO), sustainable modes Transit Department (MDT), Citizens Independent **Transportation Trust** (CITT), Department of Planning and Zoning (DPZ) Currently funded \$82,009 People's Transportation Study innovative Lead Possibly Year 1: Evaluate and Indirect Amount of actual County Executive Office Plan, CITT select recommendations measure funding secured funding sources and (CEO) Scope: Review literature of the study Office of Strategic Business Year 2-5: Pursue interview industry leaders, mechanisms to support Management (OSBM) implementation and meet with County **Miami-Dade Transit** officials and staff. Prepare a **Partners** full range "menu" of operations and Citizens Independent potential revenue techniques maintenance costs and Transportation Trust with description of use, (CITT), Transit Department components, and for capital (MDT), Metropolitan characteristics such as improvements Planning Organization complexity and revenue (MPO), Department of potential completion Planning and Zoning (DPZ) scheduled for September 2010 STRATEGY: Support existing communities and value neighborhoods Lead Requires staff assignments Within existing resources Possibly Year 1: Evaluate EECBG Indirect TBD through **Continue to promote** County Executive Office for research and analysis; consultant work and measure implementation infill development by there may be consulting work develop work plan exploring incentives and Department of Planning necessary. Assess staffing or Potentially: and Zoning (DPZ) consulting needs addressing costs of Cost of infrastructure TBD. Evaluate tax incentives # of projects their costs and benefits **Partners** infrastructure # of units Office of Capital (including carbon Improvements (OCI), footprint) Office of the Property Year 2-5: Implement Appraiser (PA), Transit Department (MDT), Office of Strategic Business

Management (OSBM)



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	Initiative	Lead & Partners	Unfunded Costs  Capital Operating	Funding Sources	New Legislative Action	Milestones	Emissions Impact	Performanc e Indicators and Targets
64.	Examine innovative options for infrastructure cost sharing mechanisms (consider public private partnerships, reexamine impact fees)	Lead Office of Strategic Business Management (OSBM) Office of Capital Improvements (OCI) Builders Association of South Florida (BASF)  Partners Department of Planning and Zoning (DPZ), Public Works Department (PWD), Water & Sewer Department (WASD)	Within existing resources	Within existing resources	County (potential)	Year 1: Identify and evaluate options  Year 2-5: Implement	Indirect measure	TBD through implementation  # of mechanisms/ improvements
65.	Prioritize infrastructure and service delivery to infill and redevelopment areas consistent with the CDMP (water & sewer, parks, roadways, schools, etc.)	Lead Office of Strategic Business Management (OSBM) Office of Capital Improvements (OCI)  Partners Department of Planning and Zoning (DPZ), Public Works Department (PWD), Water & Sewer Department (WASD), Parks & Recreation (MDPR), Transit Department (MDT)	Initially within existing resources. May require additional resources.	Initially within existing resources.	County (potential)	Year 1-2: Develop list of infrastructure needs per urban center and redevelopment area Integrate with quarterly Comprehensive Development Master Plan implementation meetings Year 3-5: Integrate needs into resource allocation planning.	Indirect measure	Completion of the milestones
66.	Examine the potential barriers to living in urban centers and infill areas including public safety perceptions and access to schools and food, among others	Lead Department of Planning and Zoning (DPZ)  Partners Economic Development Coordination (a division of DPZ), Public Works Department (PWD), Water & Sewer Department (WASD)	Initially within existing resources. May require additional resources.	Initially within existing resources.	No	Year 1: Develop a list of barriers and Action Plans to address barriers. Assess staffing or consulting needs Year 2-5: Implement Action Plans	Indirect measure	Completion of the milestones
67.	Provide for neighborhoods where residents can walk or	Lead Department of Planning and Zoning (DPZ)	The Comprehensive Development Master Plan (CDMP) portion can be accomplished with existing	Within existing resources	County through the CDMP and	Year 1: Prepare update to the CDMP to provide for revised guidelines of urban form as part of the	Indirect measure	Completion of the milestones



	Initiative	Lead & Partners	Funded and Unfunded Costs  Capital Operating	Funding Sources	New Legislative Action	Milestones	Emissions Impact	Performanc e Indicators and Targets
	bicycle to carry on their daily needs	Partners Public Works Department (PWD), Parks & Recreation (MDPR)	staff. Subdivision regulation update may require additional staff assignment		Subdivision Code	Evaluation & Appraisal Review (EAR) based amendments  Assess the resources needed to begin the subdivision regulations update.		
68.	Update existing County and municipal regulatory criteria to provide for housing diversity	Lead Department of Planning and Zoning (DPZ)  Partners All municipalities, Housing and Community Development(HCD)	The County portion can be accomplished with existing staff or staff assignment. The municipal portion needs to be coordinated	Within existing resources	County	Year 1: Develop draft Ordinance updating the County Code	Indirect measure	Completion of the milestones
69.	Coordinate school locations with Miami-Dade County Public Schools and provide the regulatory criteria for all other schools to assure that these facilities are within reasonable walking or biking distance from the residential communities they serve	Lead Department of Planning and Zoning (DPZ)  Partners Miami Dade County Public Schools (M-DCPS), Parks & Recreation Department (MDPR)	The County portion requires staff assignment. Use process similar to the development of the Interlocal Agreement on School Concurrency	Within existing resources	County and M-DCPS	Year 1: Establish a working group with the M-DCPS Prepare ordinance establishing criteria	Indirect measure	Completion of the milestones
70.	Establish additional meaningful open space and recreation areas through cooperative land use and joint-development programs	Lead Parks & Recreation Department (MDPR)  Partners Department of Planning and Zoning (DPZ), Miami- Dade Public Library System (LIB), Cultural Affairs	Funding for implementation of Policy ROS-8G of the RISE is through the Communities Putting Prevention to Work (CPPW) Grant	Communities Putting Prevention to Work grant	No.	Year 1-2: Development of a new urban design manual for meaningful public spaces that incorporate elements which encourage incidental physical activity.	Indirect measure	Number of partnerships resulting in coordinated public spaces constructed as part of civic projects.



	Initiative	Lead & Partners	Funded and Unfunded Costs  Capital Operating	Funding Sources	New Legislative Action	Milestones	Emissions Impact	Performanc e Indicators and Targets
	with schools, libraries, cultural areas, and other civic/institutional places	(CUA), General Services Administration (GSA); Miami-Dade School District				Year 3-5: Changes to department operating procedures in the incorporation of meaningful public spaces in the planning and development of libraries, museums, schools, government buildings, transit stations within Transit-Oriented Development (TOD) and stand-alone transit stations, and other civic/institutional places  These milestones are based on the CDMP Recreation Open Space Element policies ROS-8G, ROS-3A and ROS-3B;		
71.	Develop regulations and programs that promote connectivity, pedestrian movement and lower vehicular speeds	Lead Department of Planning and Zoning (DPZ)  Partners Public Works Department (PWD), Parks & Recreation Department (MDPR), Metropolitan Planning Organization (MPO), Florida Department of Transportation (FDOT)	Portion can be accomplished with existing staff, the balance may require staff assignments		County	Year 1: Inventory current needs and strategies. Develop programs needed such as roundabouts. Develop action plans Year 2: Develop regulatory framework	Indirect measure	Completion of the milestones
72.	Explore redfields to greenfields options (Red Fields to Green Fields seeks to convert vacant and financially distressed commercial property into urban parks.)	Lead Parks & Recreation Department (MDPR)  Partners Department of Planning and Zoning (DPZ), Transit Department (MDT);	TBD through implementation	Potential sources include FDIC, federal funds, private investors	Local and federal	Dependent on funding	Indirect measure	Number of Redfield to Greenfield Projects



Responsible Land Use and Smart Transportation									
Initiative	Lead & Partners	Funded and Unfunded Costs  Capital Operating	Funding Sources	New Legislative Action	Milestones	Emissions Impact	Performanc e Indicators and Targets		
STRATEGY: Increase bicycling 8	Housing & Community Development (HCD); University of Miami; Health and Built Environment Committee of the M-D County Health Department.; Speedwell Foundation; Knight Foundation and Trust for Public Land								
73. Implement Complete Streets initiative — "Complete Streets" allow for safe, comfortable travel by all users, including pedestrians, bicyclists, public transportation riders and drivers, and people of all ages and abilities, including children, youth, families, older adults, and individuals with disabilities.	Lead Department of Planning and Zoning (DPZ)  Partners Office of Sustainability, Public Works Department (PWD), Parks & Recreation Department (MDPR), Metropolitan Planning Organization (MPO), Florida Department of Transportation (FDOT), Miami-Dade Expressway Authority (MDX), Transit Department (MDT)	Portion can be accomplished with existing staff, the balance may require staff assignments		County	Year 1: Submit Resolution to the BCC on the Complete Street Initiative. Submit ordinance Update the Zoned right- of-way via ordinance concurrently. Year 2-5: Incorporate concept into planning, design, approval, and implementation processes for construction, retrofit, maintenance, alteration, or repair of streets, bridges, or other portions of the transportation network, including pavement resurfacing, restriping, and signalization operations if the safety and convenience of users can be improved. Departments make "Complete Streets" practice a routine part of everyday operations, in every projects and in coordination with other	Indirect measure	Completion of the milestones		



	Initiative	Lead & Partners	Funded and Unfunded Costs  Capital Operating	Funding Sources	New Legislative Action	Milestones	Emissions Impact	Performanc e Indicators and Targets
74.	Implement the Bicycle & Pedestrian Facilities Plan, prioritizing projects and securing funding	Lead County Executive Office (CEO), Metropolitan Planning Organization (MPO)  Partners Department of Planning and Zoning (DPZ), Office of Sustainability (OOS), Public Works Department (PWD), Parks & Recreation Department (MDPR), Florida Department of Transportation (FDOT), Miami-Dade Expressway Authority (MDX)	The 2011 Transportation Improvement Program includes \$158.9M of funded roadway projects that will include 22.7 miles of bike lanes. The bike lanes are a component of the larger project and costs can not be isolated from the overall project costs.	Various Federal, State, and Local Transportation Funds	No	departments, agencies, and jurisdictions.  Year 1 – 5: Construct projects in Bicycle and Pedestrian Facility Plan - 22.7 miles of bike lanes planned in the projects specified in the Transportation Improvement Program.	Indirect measure	Number of miles of bicycle and pedestrian facilities built/year
75.	Conduct non-motorized planning studies for corridors and urban centers	Lead Metropolitan Planning Organization (MPO)  Partners Florida Department of Transportation (FDOT), Public Works Department (PWD), Department of Planning and Zoning (DPZ), Parks & Recreation Department (MDPR), Municipalities and bicycling community groups	TBD	Potential federal funds in Transportation Reauthorization Bill, MPO Unified Planning Work Program (UPWP)	No	Year 1: Develop scope of work for studies and submit for funding through the Unified Planning Work Program  Year 2 – 5: Develop plans for each of the corridors and urban centers  Seek capital funding for implementation	Indirect measure	Develop 1 plan/year
76.	Increase the number of safe walking and bicycling facilities as components of road improvement projects	Lead Florida Department of Transportation (FDOT), Public Works Department (PWD)  Partners Metropolitan Planning	The review of projects is within existing resources  Cost is variable if facility is incorporated into other roadway construction as the cost of sidewalks and bike lanes is nominal where right-	People's Transportation Plan, Road Impact Fees, State and federal funds (depends on roadway jurisdiction)	County – update Zoned Right of Way	Year 1-5: Ongoing identification of bike and pedestrian project needs and opportunities in scoping phase of projects	Indirect measure	Increase the number of bike and walking facilitates in road improvement projects  Decrease in the



	Mesponsible Edita ose alla siliare fransportation									
	Initiative	Lead & Partners	Funded and Unfunded Costs  Capital Operating	Funding Sources	New Legislative Action	Milestones	Emissions Impact	Performanc e Indicators and Targets		
		Organization (MPO), Department of Planning and Zoning (DPZ)	of-way is available.					number of bicycle injuries/fatalities		
77.	Fund and construct priority non-motorized multi-use trails	Lead Parks & Recreation Department (MDPR)  Partners Metropolitan Planning Organization (MPO), Public Works Department (PWD), Transit Department (MDT), Florida Department of Transportation (FDOT)	Biscayne Trail and Black Creek Trail Bridge: 2,599,789 Averages: Capital approximately \$875,000 per mile for paved trail Maintenance: approximately \$15,493 per mile	Surface Transportation Enhancement (SE) program, Federal High Priority Projects (FHPP), Surface Transportation Program (STP), Legislative Earmarks, General Obligation Bonds (GOB), American Recovery and Reinvestment Act (ARRA) stimulus funding. Potential funding from the passing of the Active Community Transportation (ACT) act of 2010	Need BCC pass waiver on GOB 17% soft cost cap (planning services, design services and project administrat ion) to permit expenditur es of up to 25% (see form for details).	Year 1 -2: Biscayne Trail Segments A & B 3/15/10 to 1/17/12; Black Creek Trail segment A 10/1/10 to to 9/18/12; Black Creek Trail Bridge A construction 7/31/11 to 7/3/12; Snake Creek Trail Phase 1 construction 12/04/1 to 12/5/12; Old cutler Trail Phase 1 7/10 to 1/11; Commodore Trail construction 11/10 to 10/11	Black Creek Trail: 640 mt CO <sub>2</sub> e reduced over 5 years 2,400 mt CO <sub>2</sub> e avoided over 5 years	# of trail projects completed, including # of miles of trail		
78.	Implement signage plans for multi-use trail and bike routes	Lead Park & Recreation Department (MDPR) & Public Works Department (PWD)  Partners Metropolitan Planning Organization (MPO)	\$5,000/mile for regulatory signage \$1,835/ trail way finding sign (within right-of-way)	Building Better Communities Bond, competitive grants, Fernandez Pave the-Way Foundation, Rails-to Trails Conservancy and Coca- Cola, Surface Transportation Enhancements Program, municipal donations	No	Year 1: PWD to complete assessment of needs for pavement markings. Years 2-5: Complete pavement markings as funding allows. Seek additional funding for remaining needs.	Indirect measure	Miles of marked trails and routes		
79.	Establish criteria for the delivery of parks and recreational open spaces that are intended to encourage equitable access to neighborhood parks and open space as well as area-wide	Lead Parks & Recreation Department (MDPR)  Partners None identified	Communities Putting Prevention to Work (CPPW) Grant	This effort is being funded through the Center for Disease Control's Communities Putting Prevention to Work Grant	No	Completion by December 2011 with implementation through adoption by the Park and Recreation Department of standards	Indirect measures	The development of department operating procedures and standards		



	Initiative	Lead & Partners	Funded and Unfunded Costs Capital Operating	Funding Sources	New Legislative Action	Milestones	Emissions Impact	Performanc e Indicators and Targets
	recreational activities							
80.	for all County residents Provide or require bicycle parking and other end-of-trip facilities at public and private destinations	Lead Metropolitan Planning Organization (MPO), Department of Planning and Zoning (DPZ)  Partners Business community, Large employers	Unfunded: Bike Rack: \$225/rack Bike Locker: \$2,500/locker	Unfunded	No	Year 1: Develop the necessary code and program changes to implement initiative.  Adoption of the changes.	Indirect measure	Number of bike parking facilities, showers, and/or lockers established each year
81.	Encourage municipalities to adopt the County's bicycle parking ordinance	Lead Metropolitan Planning Organization (MPO), Department of Planning and Zoning (DPZ)  Partners Municipalities	Within existing resources  Parking retrofits to be funded In accordance with new development.	Within existing resources	Yes. County and City.	Year 1: County to adopt updated regulations. Year 2-5: Adoption by municipalities	Indirect measure	Number and/or percent of municipalities who have adopted ordinance each year
82.	Expand bicycle parking legislation to include showers and lockers for employees	Lead Department of Planning and Zoning (DPZ)  Partners Metropolitan Planning Organization (MPO), County Attorney Office (CAO)		Within existing resources	County	Year 1: Adoption by Board of County Commissioners	Indirect measure	Number of employment sites with showers and/or lockers
83.	Increase integration of transit with pedestrian and bicycle trips	Lead Transit Department (MDT)  Partners Metropolitan Planning Organization (MPO)	TBD through implementation	Federal and local	No	Year 1: Establish baseline of number of bicycle and pedestrian trips to transit  Inventory and explore expanding programs to increase bicycling and pedestrian trips  Identify barriers and disincentives to bicyclists and pedestrians	3,800 mt CO <sub>2</sub> e reduced over 5 years, 19,000 mt CO <sub>2</sub> e avoided over 5 years	1,750 Bike on Train Permits/Year
84.	Include designated	Lead Transit Department (MDT)	Funded \$2.3 million/ Metrorail car	Peoples Transportation Plan	No	Year 1 - Notice to proceed to metrorail car	Indirect Measure	Number of permits for bikes



#### **Responsible Land Use and Smart Transportation Funded and** Lead & **Funding Unfunded Costs Initiative Milestones** Sources **Partners Capital** Operating builder on trains bicycle space within **Partners Year 3** – Prototypes **Metrorail cars** N/A received 2013 Years 4 and 5 -Staggered replacement of 136 rail cars in fleet with 4 cars per month - 4 bike racks per car Lead Unfunded No dedicated funding Nο Year 1 - Review and Indirect Number of Improve bicycle parking Transit Department (MDT) Unit Costs: source update the list of Bicycle measure bicycle parking at transit hubs Bike Rack: \$225/rack Parking Needs and spaces (racks, Bike Locker: \$2,500/locker lockers, lids, etc.) **Partners** Recommendations in the Metropolitan Planning established at Bicycle Parking Plan for Organization (MPO) Miami-Dade Transit hubs (2002)Evaluate results of bike lid demonstration project underway at University Station Seek funding for bike parking racks or lockers Within existing resources Within existing resources County Year 1 - Identify zoning Indirect Number of 86 Reduce the automobile Lead ces and of ted

00.	parking requirements in the zoning code	Department of Planning and Zoning (DPZ)  Partners  Transit Department (MDT), Metropolitan Planning Organization (MPO), Public Works Department (PWD)			Ordinances	districts and type of uses that will benefit from parking requirement reduction. Urban center parking requirements could be used as a model for this process. Identify additional transit needs resulting from parking reductions.  Year 2- Establish series of parking reductions through ordinances	measure	ordinances and number of spaces eliminated			
STR	STRATEGY: Increase transit ridership										
87.	Increase the number of enhanced bus corridors	Lead Transit Department (MDT)  Partners Federal Transportation	Partially funded North Corridor – 35.8M East – West Corridor – 22.6M Flagler Street Corridor – 8.8M Bisc. Blvd Corridor – 6.7M	County General Fund, People's Transportation Plan, Federal or state program grants (block grants) and competitive	Federal, state and local	Year 2: North Corridor: Phase 2 2012, Phase 2 – 2016 Year 4: Flagler Street Corridor: 2014	3,300 mt CO <sub>2</sub> e reduced over 5 years 13,000 mt avoided CO <sub>2</sub> e over 5	Increase in ridership along corridors			



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	Initiative	Lead & Partners	Funded and Unfunded Costs  Capital Operating	Funding Sources	New Legislative Action	Milestones	Emissions Impact	Performanc e Indicators and Targets
		Authority (FTA), Florida Department of Transportation (FDOT), Federal Highway Administration (FHWA), Metropolitan Planning Organization (MPO), Miami-Dade Expressway Authority (MDX), Public Works Department (PWD), Department of Planning and Zoning (DPZ)		grant opportunities		Biscayne Blvd Corridor: 2014 East-West Corridor : 2016	years	
88.	Increase the number of park and ride facilities	Lead Transit Department (MDT)  Partners Federal Transportation Authority (FTA), Florida Department of Transportation (FDOT), Metropolitan Planning Organization (MPO), Miami-Dade Expressway Authority (MDX), Public Works Department (PWD), Department of Planning and Zoning (DPZ), private developers and private property owners	Funded  1. Kendall Dr/SW 150 Ave - \$190K annual lease payments  2. Kendall Town Center - \$0 capital costs  3. Miami Gardens Dr/73 Ave - \$1.8M capital costs  4. Busway/SW 344 St - \$10.7M capital costs  5. NW 107 Ave/12 St - \$0 capital costs  6. Kendall Dr/SW 127 Ave - \$2.8M capital costs	County General Fund, People's Transportation Plan, Federal or state program grants (block grants) and developer driven	Possibly for joint participation nagreement s	Year 1: Establish a standard practice to encourage or require these facilities as Traffic Concurrency Measures	900 mt CO <sub>2</sub> e reduced over 5 years 4,000 mt CO <sub>2</sub> e avoided over 5yrs	Number of Park & ride facilities constructed Number of Park & Ride facilities constructed as part of development projects
89.	Complete the Airport Link – connection of the Metrorail to Miami International Airport	Lead Transit Department (MDT)  Partners Florida Department of Transportation (FDOT), Metropolitan Planning Organization (MPO), Public Works Department (PWD), Department of Planning and Zoning (DPZ)	Funded \$526 Million	FDOT - \$100 Million People's Transportation Plan - \$426 Million	No	Year 1: Miami River Crossing estimated to begin by Summer 2011.  Tie into existing Earlington Heights Station estimated to begin by Summer 2011.  Year 2: Project estimated to be complete by April 2012.		Number of boardings originating and ending at Miami Intermodal Center (MIC)
90.	Improve the image of	Lead Transit Department (MDT)	Unfunded – scope and costs TBD	County General Fund, People's Transportation	No	Year 1: Review existing marketing and public	Indirect measure	Completion of the milestones



	Initiative	Lead & Partners	Funded and Unfunded Costs  Capital Operating	Funding Sources	New Legislative Action	Milestones	Emissions Impact	Performanc e Indicators and Targets
91.	transit including social marketing campaigns to target different groups and make riding the bus and train 'cool' - in particular, marketing efforts to non-transit dependent population  Improve real or perceived problems with safety and cleanliness	Partners Government Information Center (GIC), Metropolitan Planning Organization (MPO), Florida Department of Transportation (FDOT), South Florida Commuter Services, South Florida Regional Transportation Authority (SFRTA), Federal Transportation Authority (FTA), possibly universities Lead Transit Department (MDT)  Partners MDPD, Contracted Security, Civic organizations, employers and other community stakeholders	MDT Operational support expenses	Plan, Federal or state program grants (block grants) and competitive grant opportunities  County General Fund, People's Transportation Plan, Federal or state program grants (block grants) and competitive grant opportunities	No	involvement plans to evaluate new initiatives. Conduct best practice research to develop an education program to show non-bus riders how to ride the bus. Components could include providing community workshops, trial rides or develop on- line video that would walk people through the process step by step Years 1-5: Continue to conduct regularly scheduled safety and inspection audits to maintain passenger facilities and vehicles while monitoring complaints, accidents, and incidents/continue marketing and outreach efforts/maintain visible level of system wide security presence	Indirect measure	Level of investment in safety projects/acciden t ratios/complianc e with system safety program plan
92.	Increase technology features, including real time bus signage and Wi-Fi	Lead Transit Department (MDT)  Partners Enterprise Technology Services (ETSD), Public Works Department (PWD)	Funded Real Time Signage for all Metrorall Stations: 5.4 Million  Real Time Signage for Bus Stops: \$15,000/ stop  Onboard Wi-Fi on rail vehicles and premium bus routes: \$1,500/vehicle (bus or train)	Real Time Signage for all Metrorail stations: FDOT funds, local gas taxes, ARRA, and MDT operating budget  Real Time Signage for Bus Stops: CAD/AVL funding  Onboard Wi-Fi on rail vehicles and premium bus routes: MDT operating budget	No	Year 1-5: Install signage and Onboard Wi-Fi	Indirect measure	# of people signing up for mobile alerts, # of train stations and bus corridors with real time information/Wi- Fi accessibility
93.	Establish and implement minimum standards to	<b>Lead</b> Transit Department (MDT) Public Works Department	Improvements made as part of private development projects will be part of	Development driven, People's Transportation Plan, and competitive	Possible	Year 1: Promote inclusion of transit amenities in new projects	Indirect measure	-number of development projects that



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	Initiative	Lead & Partners		ed and led Costs Operating	Funding Sources	New Legislative Action	Milestones	Emissions Impact	Performanc e Indicators and Targets
	enhance routes within a quarter mile of public transit stops to create safe, convenient, comfortable, and aesthetically pleasing access for bicyclists and pedestrians including the elderly and disabled	(PWD)  Partners  Department of Planning and Zoning (DPZ), Metropolitan Planning Organization (MPO), Community Image Advisory Board (CIAB), Florida Department of Transportation (FDOT), Municipalities and private developers	TBD through i	g to amenities.	grant funding		adjacent to transit facilities through incentive mechanisms such as density increases Assess and identify needs including shading; retiming signalization for crossing; medians, crossings, and sidewalk improvements including ADA, bike, and pedestrian accessibility; accommodations for rain and weather protection; Year 2-5: Develop plan, identify and seek funding for implementing improvements		include accessibility improvements or amenities -reduce the number of transit stops identified by MDT as having limited accessibility
STR	ATEGY: Improve connectivi	ty and mobility on t		•					
94.	Continue to implement projects that improve connectivity and mobility between major economic drivers and major activity hubs such as the Port of Miami, airports, sports venues, and convention centers	Lead County Executive Office (CEO)  Partners Metropolitan Planning Organization (MPO), Miami-Dade Transit (MDT), Port of Miami (POM), Aviation Department (MDAD), Department of Planning and Zoning (DPZ), Federal Highway Administration (FHWA), Federal Transportation Authority (FTA), Florida Department of Transportation (FDOT),City of Miami, South Florida Regional Transportation Authority (SFRTA), Miami-Dade Expressway Authority (MDX), Amtrak, Greater	Million, funde	funded  Tunnel – \$610  d  se 1: \$117 d; Phase 2: \$85	Federal, State, and Local funds	No	Vear 1-4: Continue construction of projects.  MIC –expected completion in 2012  Port of Miami Tunnel – expected completion in 2014  Viaduct – Phase 1 expected completion in 2011, Phase 2 2020	Viaduct – 19,000 tons CO <sub>2</sub> /year Emission Reductions estimates not available for other projects	Completion of Milestones  Level of Service ratings on connecting roadways



	Initiative	Lead &	Funde	ed and ed Costs	Funding	New Legislative Action	Milestones	Emissions Impact	Performanc e Indicators and Targets
	IIIIIative	Partners	Capital	Operating	Sources	Ne Legis Act	Willestoffes	Emis Imp	Perfo e Indi and T
		Miami Chamber of Commerce and the Greater Miami Visitors & Convention Bureau.							
95.	Continue implementing traffic system management solutions including improved signal timing	Lead Public Works Department (PWD)  Partners Florida Department of Transportation (FDOT) Metropolitan Planning Organization (MPO) Enterprise Technology Services Department (ETSD) Office of Intergovernmental Affairs (OIA)	Funded \$23 million		People's Transportation Plan and State Grant	No	Year 1: Scope and select consultant services.  Perform additional software enhancements, along with the study and/or implementation of related projects (e.g. new Traffic Management Center, evaluation and implementation of software that is adaptable to real-time traffic volume fluctuations, expansion of the video surveillance system, enhanced communication network, etc.)  Year 2-5: Explore additional TSM approaches.	Indirect measure	Completion of the milestones
96.	Continue to pursue traffic demand management solutions such as ridesharing, congestion pricing, and high occupancy toll lanes providing express transit service	Lead Metropolitan Planning Organization (MPO)  Partners Florida Department of Transportation (FDOT), Miami-Dade Expressway Authority (MDX), South Florida Commuter Services (SFCS)	Unfunded unti	l 2015	Varies	No	For congestion pricing: Year 1: Explore the adoption of a Mobility Fee (i.e. Road User Fee, Modified Impact Fee, Transportation Utility Fee) through conducting research on types and the feasibility of implementation	n/a	Completion of the milestones
97.	Work in partnership with the Metropolitan Planning Organization	Lead Metropolitan Planning Organization (MPO) Department of Planning and Zoning (DPZ)	Carpool \$3.1 million pe Vanpool \$1,279,953 for		Federal and state funding	No	Carpool 5% increase in participation each year Vanpool net growth of 12 vans	Carpool 4,000 mt CO₂e reduced over 5 years, 11,000 mt	Carpool # Commuters switched to Carpool from SOVs, # Vehicle



	Initiative	Lead & Partners	Funded and Unfunded Costs  Capital Operating	Funding Sources	New Legislative Action	Milestones	Emissions Impact	Performanc e Indicators and Targets
	(MPO) and South Florida Commuter Services to expand carpooling and vanpooling programs	Partners Florida Department of Transportation (FDOT), South Florida Commuter Services (SFCS)	program. Capital costs make up approximately 55% of the costs.			per year	CO <sub>2</sub> e avoided over 5 years <u>Vanpool</u> 2,000 mt CO <sub>2</sub> e reduced over 5 years, 10,000 mt CO <sub>2</sub> e avoided over 5 years	trips and miles eliminated <u>Vanpool</u> # of vanpools, average monthly mileage, passenger trips and passenger miles saved, fuel and emissions savings
98.	Expand the express bus service between Miami- Dade and Broward counties through extending the I-95 managed/express lanes from Golden Glades Interchange to I-595	Lead Florida Department of Transportation (FDOT)  Partners Miami-Dade Transit (MDT), Broward County Transit (BCT), Metropolitan Planning Organization (MPO)	Capital: \$3.2 million  Operation & Maintenance – \$3.8 million/year	Capital – Federal Transit Administration Operation & Maintenance– FDOT (Tolls and State Funds)	No	Year 1: Plan route and service expansions  Begin construction March 2011  Year 3: Complete construction December 2013	1,350 mt CO <sub>2</sub> reduced and 1,350 mt CO <sub>2</sub> avoided	Ridership on express buses
99.	Explore feasibility of "pay for miles travelled" insurance	Cead Office of Sustainability (OOS)  Partners Metropolitan Planning Organization (MPO)	n/a	n/a	State	Year 1: Locally conduct and evaluate best practice research Identify statewide organization partners.	Indirect Measure	Completion of the milestones



	Initiative	Lead & Partners	Funding Capital Operating	Funding Sources	New Legislative Action	Milestones	Emissions Reduction	Performance Indicators and Targets
100.	Establish a local action plan for green industries and green jobs and examine economic challenges related to climate change	Lead Economic Development  Partners Office of Sustainability (OOS), Department of Environmental Resources Management (DERM) Small Business Development (SBD), Finance Local Business Tax Socio-economic Development Council 7 County Regional Partnership Lead	Within existing resources at this time	Within existing resources at this time	No.	Year 1: Appoint a Green Economy Task Force. Assess local green economy and develop an action plan. Year 2-5: Implement	Indirect impact	Achievement of milestones will determine indicators and targets # of jobs created
101.	Develop a Green Business Certification Program	Cead Office of Sustainability (OOS) Economic Development  Partners Department of Environmental Resources Management (DERM), Water and Sewer Department (WASD) Small Business Development	Pilot to be accomplished within existing resources.  May require additional funding based on inspection time required.	Explore federal grant options	res. Will require Board of County Commissio ner approval	Year 1: Pilot Year 2-5: Program roll- out	IBD Based on number of businesses participating in program	# of businesses certified Energy efficiency, water reductions, etc.  # of businesses that adopt the Green Jobs Pledge through the certification
102.	Leverage state and federal funding to develop green small business loan program for sustainable improvements, i.e. revolving loan	Lead Elected Official(s) Financial Institution Economic Development  Partners Office of Sustainability (OOS) Office of Grants Coordination (OGC) Finance Dept. Municipalities	Funding is expected to be external and TBD through implementation	Seed money to be identified through grants, private investment etc.	Yes. Will require Board of County Commissio ner approval	Year 1: Develop program and identify funding Year 2-5: Implement when funding is secured	TBD through implementati on Based loans and retrofits	# of loans # and type of retrofits # of jobs created



	Initiative	Lead & Partners	Funding Capital Operating	Funding Sources	New Legislative Action	Milestones	Emissions Reduction	Performance Indicators and Targets
103.	Integrate sustainability criteria with existing and new County economic development programs	Lead County Executive Office (CEO) Economic Development  Partners Planning and Zoning (CDMP) Office of Sustainability Beacon Council	Within existing resources	Within existing resources	Yes. Will require Board of County Commissio ner approval	Year 1: Identify existing programs and integrate criteria Year 2-5: Identify new programs as needed	TBD through implementati on	Achievement of milestones TBD through implementation: # of businesses # of jobs created
STRA	TEGY: Expand our successf	ul tourism and trade	e industries	<u> </u>		<u> </u>		
104.		Lead Greater Miami Visitors and Convention Bureau (GMVCB)  Partners Economic Development ( Green Certification Program) Florida Department of Transportation	Within existing resources at this time TBD through implementation	Within existing resources at this time TBD through implementation	No	Year 1: Inventory existing sustainable venues Examine how to enhance additional venues Year 2-5: Market and grow number of facilities and events	TBD through implementati on (based on number and types of facilities and events)	# of facilities # of events
105.	Explore a voluntary carbon offset purchasing program for conventions, conferences, large events, and individual tourists	Lead Greater Miami Visitors and Convention Bureau  Partners Office of Sustainability (OOS) Agriculture Manager Farm Bureau Community Image Advisory Board (CIAB) Department of Environmental Resources Management (DERM) Park and Recreation (MDPR)	Program development within existing resources	Intended to be a revenue source	May require BCC action	Year 1: Research and develop program Year 2-5: Market and implement	Emission offsets TBD through implementati on	Funding generated
106.	Integrate and promote a sustainable tourism	Lead Agriculture manager Greater Miami Visitors	TBD through implementation		May require BCC action	Year 1: Organize and add to the Green Lodging Program	TBD Based on number of	



	Initiative	Lead & Partners	Funding Capital Operating	Funding Sources	New Legislative Action	Milestones	Emissions Reduction	Performance Indicators and Targets
	experience through linking hotels, restaurants, and our unique environment through the Florida Green Lodging Program	and Convention Bureau (GMVCB)  Partners Office of Sustainability (OOS) Economic Development Florida Department of Environmental Protection (FDEP) Green Lodging Program National Park Service South Florida Water Management District Park and Recreation				Year 2-5: Implement program	events participating in project.	
107.	Seaport sustainability leaders through certifications specific to the enterprise	Lead Miami International Airport (MIA) Port of Miami (POM)  Partners Office of Sustainability	TBD through implementation		No	Year 1: Identify the appropriate green certification programs through benchmarking Year 2-5: Obtain certification and promote	TBD through implementati on	ISO 140001 Certification Status, etc.
	TEGY: Support educational Promote technical/vocational training for sustainable fields through business and educational institution partnerships	Lead Economic Development Small Business Development  Partners Office of Sustainability Area colleges and universities	Initially within existing resources. New program funding TBD through implementation.	TBD	No	Year 1: Establish a team to coordinate efforts. Inventory existing technical/vocational training and assess demand for additional programs. Year 2-5: Develop programs and implement	Indirect emissions	Achievement of milestones # of program participants
109.	Incorporate sustainability principles into public and private school and university initiatives	Partners Office of Sustainability MDC Public Schools Colleges/ Universities Environmental Education Providers	Requires staff assignments		May require BCC action. May require State legislative action	Year 1: Establish a team to coordinate efforts. Inventory existing academic program and identify needs Year 2-5: Develop programs and implement	Indirect impact	Achievement of milestones # of children receiving information



	Initiative	Lead & Partners	Capital	nding Operating	Funding Sources	New Legislative Action	Milestones	Emissions Reduction	Performance Indicators and Targets
STRA	TEGY: Increase the sustain	ability of agricultura	I practice:	S					
110.	Develop a sustainability certification for agriculture	Lead Economic Development, Agriculture Manager  Partners Office of Sustainability Farm Bureau	Within existi this time	ng resources at		May require BCC action	Year 1: Develop program Year 2: Roll into Green Certification Program Year 2-5: Implement	TBD through implementati on	# of certification
111.	Explore new sustainable agriculture opportunities, expanding Best Management Practices	Lead Economic Development, Agriculture Manager  Partners Office of Sustainability Fairchild Tropical Gardens	Within existi this time	ng resources at		May require BCC action	Year 1: Explore expanding on the Ag Incubator Partnership with Fairchild (currently under study) Year 2-5: Implement	TBD through implementati on	TBD through implementation



Healthy Communities										
Initiative	Lead & Partners	Funded and Unfunded Costs Capital Operating	Funding Sources	New Legislative Action	Milestones	Emissions Impact	Performance Indicators and Targets			
STRATEGY: Facilitate active a	nd safe lifestyles for res	sidents through the O	pen Space Master	Plan and ot	her community init	iatives	•			
112. Implement the Open Space Master Plan (OSMP)	Lead Miami-Dade Parks Department (MDPR)  Partners Miami-Dade Public Works Department (MDPWD)	Year 1 milestones : \$529,000 Year 2-5 milestones: TBD	Year 1 milestones: Communities Putting Prevention to Work (CPPW) Grant	No	Year 1: Begin implementation of Strategies of the CPPW Grant including:  1. Complete the Park and Open Space and Recreation Activities Access and Equity Evaluation and Measures  2. Improve Urban Design Manual Volume I (Private Development), Pattern Book, Safe Routes to Parks (SRTP) and Wayfinding Signage.  3. Improve the Urban Design Manual Volume 2 (Public Development) Years 2-5: Continue implementation of the OSMP: 1. Identify new areas to be designated for greenways, trails, and bicycle lanes, and update the North Miami-Dade Greenway Master Plan and South Miami-Dade Greenway Network Master Plan and the CDMP to include such greenways. Including designation of Western Greenway.  2. Develop a plan for protecting and preserving designated Environmental Zones (Eco Zones) & Cultural Zones.	Indirect	Achievement of milestones (See OSMP)			

	Initiative	Lead & Partners	Funded and Unfunded Costs Capital Operating	Funding Sources	New Legislative Action	Milestones	Emissions Impact	Performance Indicators and Targets
113.	Promote and develop biking activities such as the City of Miami Bike Days	Lead Metropolitan Planning Organization (MPO)  Partners Parks, municipalities, OOS, GIC, Miami Bike Scene, Emerge Miami, South Florida Bike Coalition, Green Mobility Network, other private organizations	Funding agreements vary Costs vary by event; informal events may have no costs; large events like Bike Days cost approximately \$30,000 for street closures, security, etc.	Funding agreements vary	No.	Year 1: Identify interested parties; develop information sharing / promotional approach. Explore developing additional programs. Year 2 – 5: Implement and follow-up	Indirect impact: May lead to residents shifting vehicle trips to walking and bike trips	Number of events Targets to be determined through implementation
114.	Explore tax incentives for bicycle commuting	Lead Metropolitan Planning Organization (MPO)  Partners GSA, HR, OOS, South Florida Commuter Service	Program development: Within existing staff and resources Implementation of tax incentives: dependent on number / extent of employees using incentives	Implementation of tax incentives: Tax benefit funded by federal govt. Additional benefits funded by employer	No.	Year 1: Evaluate feasibility for Miami-Dade County workforce  Year 2-5: Implement and promote incentives to municipalities, private sector	Indirect impact: May lead to employees shifting vehicle trips to walking and bike trips	Number of County employees using benefit; Number of employers providing benefit  Targets to be determined through implementation
115.	Improve safety for pedestrians and bicyclists through legislation and enforcement of traffic laws (e.g. anti-distracted driving laws, red light cameras, etc.)	Lead Metropolitan Planning Organization (MPO)  Partners Police, Intergovernmental Affairs	Planning and advocacy: within existing staff and resources Implementation of red light cameras: TBD depending on specific technology used	Traffic fines, ad valorem revenue	Yes – local red light camera laws, state legislation on distracted driving	Year 1: Research best practices and develop recommendations for new legislation  Year 2-5: Put forth recommendations to BCC, State; implement and enforce if adopted	Indirect impact: May lead to residents shifting vehicle trips to walking and bike trips	Annual: Bike injuries: <365 Bike fatalities: <8 Pedestrian injuries: <1,200 Pedestrian fatalities: <64
116.	Increase safe walking, bicycling and driving behaviors through educational, public awareness and social marketing programs (for example, 'Share the Road,'	Lead Metropolitan Planning Organization (MPO) Miami-Dade Police Department (MDPD)  Partners Police, Government Information Center (GIC), University of Miami Miller School of Medicine	Miami Dade Police Department (MDPD) pedestrian safety program: Within existing staff and resources; no new funding needed	County Unincorporated Area General Fund; possible Florida Department of Transportation (FDOT) pedestrian safety grants; Federal Safe Routes to School funds; US Department of Health and Human Services Communities Putting	No.	Year 1: Explore program needs and best practices to increase safe behaviors. Continue to serve all public/private schools in unincorporated Miami Dade through the MDPD pedestrian safety program; continue to provide pedestrian safety	Indirect impact: May lead to residents shifting vehicle trips to walking and bike trips	Number of residents reached through MDPD pedestrian safety program: 219,000 October 2009 – August 2010 Number of schools served in



Treatury communities										
	Initiative	Lead & Partners	Funded and Unfunded Costs Capital Operating	Funding Sources	New Legislative Action	Milestones	Emissions Impact	Performance Indicators and Targets		
	WalkSafe, BikeSafe programs, Walk to School Day, Bicycle month)			Prevention to Work (CPPW) initiative (Miami Dade Health Department is grantee; has subcontracted with UM)		outreach to senior centers and faith based organizations, at special events, etc. Year 2-5: Implement		MDPD pedestrian safety program: Target is 100% of schools in UMSA  Bike injuries: <365 Bike fatalities: <8 Pedestrian injuries: <1,200 Pedestrian fatalities: <64		
117.	Increase participation in the "Safe Routes to School" program and provide school crossing guards at elementary schools	Lead Metropolitan Planning Organization (MPO)  Partners Public Works, School Board, Florida Department of Transportation (FDOT), Police	Federal program: Average capital cost of \$31,000 per school based on 13 initial project completed  School crossing guard program: Within existing staff and resources; no new funding needed.	Federal grants (via FDOT) current Safe Routs program is authorized for projects scheduled for completion through 2015  County Unincorporated Area General Fund: Municipalities requesting crossing guards over the cost of the service	No	Completion of individual routes:  Year 1: 13 schools Year 2: 6 schools Year 3: 8 schools Year 4- 5:11 schools  Continue to provide/train school crossing guards for all public schools in UMSA and to municipalities by request	Indirect impact: May lead to residents reducing vehicle trips	Number of children age 0-14 years hit by cars Target: <166 (2007 total – Source WalkSafe)  Number of Safe Routes programs completed: Total target is 38 school (excludes 13 projects previously implemented)		
118.	Identify barriers to mobility for disabled and elderly residents and create an action plan	Lead Americans with Disabilities Act (ADA) Coordination/ Senior Advocate  Partners Public Works, Parks	Within existing staff and resources	Within existing staff and resources	No	Year 1: Establishment of working groups; identification of barriers; development of action plan Year 2-5: Implement	Indirect impact: May lead to residents reducing vehicle trips	Installation of accessibility improvement, removal of existing barriers will be established based on action plan		



Initiative	Lead & Partners	Funde Unfunde Capital		Funding Sources	New Legislative Action	Milestones	Emissions Impact	Performance Indicators and Targets
TRATEGY: Plant more trees								
19. Promote community partnerships such as Million Trees Miami	Lead Community Image Advisory Board (CIAB)  Partners Public Works Department (PWD), Parks Department, Department of Environmental Resources Management (DERM)	Tree purchase is currently unfunded: Costs vary depending on the kind of tree, its size, and where it will be planted. For planning purposes, unit costs for a small street tree (average size, 40 gallon tree) are provided. Average Unit cost _\$175 per tree Average Unit cost (including installation and warrantee)=\$350 per tree.	Maintenan ce costs are currently unfunded: Establishm ent costs: Average Unit cost = \$150 per year for first 3 years (Note that installation contracts include 90 days of watering and establishm ent costs and a 1 year warrantee on each tree.) Establishm ent period is 3-5 years. Maintenan ce costs: Average Unit cost = \$50 per year after 3 years for pruning, etc.	Partial funding for administering program exists through FY 2010.  Potential County, municipality and private partnerships.	Some local legislation to support community tree plantings and interlocal agreement s between governmen ts will be needed.	Year 1: Create a steering committee and work plan and secure funding; establish partnerships with interested municipalities organizations, companies, and treeplanting groups, to include public institutions that have resources to maintain trees; develop participation requirements to ensure ongoing tree maintenance; identify main target planting sites; develop a system to track countywide tree planting efforts; develop a website and clearing house for information; streamline county policies to facilitate public plantings; develop and promote sponsorship program.  Year 2-5: Plant trees Coordinate tree planting projects and tie in existing independent efforts for planting trees through the community to account for efforts outside the county projects (target 125,000 per year, planted or counted)	Impact TBD through implementati on.  Year 1: Utilize the localized carbon storage and sequestration and CO <sub>2</sub> e avoidances approaches defined in "Miami-Dade County's Urban Forests and their Ecosystem Services," led by the University of Florida and currently under peer review to determine emission targets.	Target is 500, trees by 2015  Tree canopy target is 30% (50% tree canopy in suburban residential, 2 tree canopy i urban residential, 11 tree canopy i the urban contact the contact in the



Н	Healthy Communities									
	Initiative	Lead & Partners	Funded and Unfunded Costs Capital Operating	Funding Sources	New Legislative Action	Milestones	Emissions Impact	Performance Indicators and Targets		
						Five year plan is 50% of goal to reach 30% by 2020.				
120.	Promote proper tree maintenance (for example use the CIAB Tree Care Guide in development)	Lead Community Image Advisory Board  Partners Government Information Center (GIC) Department of Environmental Resources Management (DERM), Office of Sustainability (OOS), local media, University of Florida Institute of Food and Agricultural Sciences (IFAS)	Leverage existing promotional programs		None	Year 1: Identify partners, existing marketing/publication mechanisms, work plans, event schedule Incorporate tree care into the "Million Trees" website; promote through social networking sites Year 2: Continue to promote programs and direct traffic to website so it can be updated as new information becomes available	Indirect impact	Number of County planting events (5 per year); Number of County tree give- a-ways (4 per year) Number of website hits		
121.	Promote landscaping and gardening suitable for the South Florida environment	Lead University of Florida Institute of Food and Agricultural Sciences Miami-Dade County Cooperative Extension Service (IFAS)	Within existing staff and resources (program could be expanded with additional funding)	Miami Dade County University of Florida, Miami Dade Water and Sewer Department (WASD) Department of Environmental Resources Management (DERM) Solid Waste Department (SWD)	None	n/a – continue current program	n/a	317 + classes on Florida friendly landscaping per year  11,000 + class participants per year  30,000 education contacts per year including phone, office, email and on-site consultation		
STRA	TEGY: Promote fresh, local,	organic food in all n			markets, a		lens			
122.	Create a working group to coordinate sustainable	<b>Lead</b> Earth learning	A full-time staff person and some interns) with lead agency to coordinate the	Grant funding (e.g. USDA)	Legislation to enable urban	Establishment of a Food Policy Council, development of a local	Indirect impact	Examples include: Number of		

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	Initiative Lead & Partners		Funded and Unfunded Costs Capital Operating	Funding Sources	New Legislative Action	Milestones	Emissions Impact	Performance Indicators and Targets
	food initiatives	Partners Office of Sustainability (OOS), Municipalities, Miami- Dade County Public Schools, Miami-Dade College, Breaking Ground Collaborative (Greenworks, Youth LEAD, Belafonte Tacolcy Center, and urban oasis project), other community groups	work of the council with the many groups and other municipalities and county; funds to bring in consultants on assessment; web development for a portal and interactive tracking system for initiatives; local food guides		agriculture, community composting (even curbside composting)  Additional helpful legislation would include requiremen ts/incentive s for institutiona I procureme nt of local foods, local governmen t targets for edible landscaping , state property tax incentives for small food farms	food web portal (pre- web portal already exists) (sub-group of the GreenPrint Implementation Partners); other specific milestones to be developed through implementation		community gardens  Number of farmer's markets  Percent of local that stays local  Percent of local food production that is organic  Specific indicators and targets to be developed through implementation
123.	Continue Redland Raised to promote local/organic agriculture and economy by connecting farmers with local users such as restaurants, grocers, and farmers markets	Lead Agricultural Manager  Partners Government Information Center (GIC), Parks Department, local government, agricultural industry and other community organizations, restaurants, grocers	Funding for promotional material (approx. \$330,000 for five years; \$142,000 in grant funding has already been received); capital funding for construction of community commercial kitchen (approximately \$1-3 million; a more detailed study of the costs is currently underway); capital funding for construction of "mega" market (possibly in the range	County budget, grants, possible private sector investment	Possibly land use	Promotional material placement in retail outlets (ongoing), publish cookbook (mid 2011); development of community commercial kitchen (timeline of 2-3 years once funding is obtained); establishment of new markets (ongoing); establishment of "mega" farmers' market in central location	Possible reduced from transportation , chemical use, processing, etc.	# of retail outlets carrying Redland Raised promotional material (target is to maintain total of 180); # of farmers' markets – targets to be developed through implementation



Initiative		Lead & Partners	Funded and Unfunded Costs Capital Operating	Funding Sources	New Legislative Action	Milestones	Emissions Impact	Performance Indicators and Targets
124.	Develop an analysis of potential sites and develop approach for turning 'un-buildable lots' close to schools and churches into community gardens	Lead Community Image Advisory Board (CIAB)  Partners Office of Sustainability (OOS), General Service Administration (GSA), Parks; will require nonprofit partners to manage urban agriculture initiatives; other municipalities may also participate	of \$3 million; could be less if an existing public facility can be identified); ongoing operating funding support	No existing funding. Possible revenue from the sale or lease of County property and/or a portion of successful community garden revenue, should gardens be commercially viable	Yes-land use policy may have to change, agreement s or leases of County land to organizatio ns may need to be approved, etc.	(timeline of 3-5 years once funding is obtained)  Development of list of available lots, development of policy, identify gardening non-profits	Possible reduced from transportation , chemical use, processing, etc.	#/acreage of parcels donated or leased for gardens; targets to be developed through
125.	Amend the Comprehensive Development Master Plan (CDMP) and County Code to provide for sustainable, urban agricultural practices inside the Urban Development Boundary (UDB)	Lead Planning & Zoning Partners Agricultural Manager	Within existing staff and resources	n/a	Yes; amend CDMP and zoning code	CDMP amendment – April 2012	Possibly reduced from transportation , chemical use, processing, etc.	Target is achievement of milestone



#### **Climate Change Action Plan** Performance Legislative Action and Targets **Emissions** Indicators Impact **Funded** and Lead & **Funding Initiative Milestones Unfunded Costs Sources Partners** Capital **Operating** STRATEGY: Track local and regional climate change indicators and trends Year 1: Assemble Within existing resources Within existing resources No. Indirect TBD through 126. Track local and regional SE FL Climate Change indicators and trends implementation impact indicators and trends Compact such as sea level rise, **Partners** temperature, Department of precipitation and tropical **Environmental Resources** Management (DERM) storms Water and Sewer Department (WASD), NPS, **US Geological Survey** (USGS), South Florida Water Management District (SFWMD), National Oceanic Atmospheric Administration (NOAA), Office of Emergency Management (OEM) Universities Within existing resources TBD through 127. Conduct a pilot project to Within existing resources No. Year 1: Assemble an Indirect Department of interagency team to impact implementation assess the feasibility of **Environmental Resources** review ongoing using existing monitoring Management (DERM) environmental monitoring efforts in efforts and determine if south Miami-Dade and **Partners** Water and Sewer the information can be conduct a pilot program Department (WASD), to track climate change used as vital signs of National Park Service related patters or trends (NPS), US Geological on a local scale using climate change Services (USGS), South data identified and indicators chosen Florida Water Management District (SFWMD) TBD as a result of the pilot TBD Year 2: December 2012 Lead No. Indirect TBD through **Develop consensus-based** 128. Department of study complete graphics impact implementation graphic communication **Environmental Resources** Management (DERM) tools from the pilot project reporting the Partners monitoring data such as Water and Sewer Department (WASD),



	Initiative Lead & Partners		Funded and Unfunded Costs Capital Operating	Funding Sources	New Legislative Action	Milestones	Emissions Impact	Performance Indicators and Targets
	maps, bar graphs, "stoplights"	National Park Service (NPS), US Geological Services (USGS), South Florida Water Management District (SFWMD)						
129.	Develop a working group to analyze potential climate change related to public health impacts (for example, infectious disease changes, heat related illness)	Lead Miami Dade County Health Department (MDCHD), Epidemiology, Disease Control, and Immunization Services Program  Partners Division of Environmental Health and Engineering  Academia partner	Within existing resources: The initiative requires a commitment of 4 work group members for 2 hours each week, starting August 9, 2010 to August 5, 2011. Pending supervisory approval, each work group member is expected to commit time to the initiative in addition to their normal work duties	No funding sources have been identified; however, potential funding requirements and opportunities will be explored	No	Year 1: Organize group and develop work plan	Indirect impact	TBD through implementation
130.	Report periodically on the status of climate change indicators and trends	Lead National Oceanic Atmospheric Administration (NOAA)  Partners Office of Sustainability (OOS), Department of Environmental Resources Management (DERM), SE FI Regional Compact, South Florida Water Management District (SFWMD)	TBD through implementation		No	Year 2: Produce report	Indirect Impact	TBD through implementation
STRA	TEGY: Develop local and reg	ional climate chang	e scenarios depicting	various impacts and	d time fram	nes		
131.	Develop local and regional sea level rise scenario maps	Climate Compact Partners  Partners  Dept. of Environmental Resources Management (DERM)	TBD during the planning process			Year 1: Work with partners to analyze and reconcile data Year 2: Complete maps	Indirect impact	Achievement of milestones



	Initiative	Lead & Partners	Funde Unfundo Capital		Funding Sources	New Legislative Action	Milestones	Emissions Impact	Performance Indicators and Targets
132.	Develop planning maps and tools for Miami-Dade County based on consensus of SE FL Climate Change compact planning scenarios	Atmospheric Administration (NOAA), South Florida Water Management District (SFWMD), US Geological Survey (USGS)  Lead Department of Environmental Resources Management (DERM)  Partners Dept. of Planning and Zoning (DPZ) Enterprise Technology Services Dept. (ETSD), Office of Emergency Management (OEM), South Florida Water Management District (SFWMD), National Oceanic Atmospheric Administration (NOAA), US Geological Survey (USGS), Compact partners	TBD during the process		TBD through implementation	No	Year 1-2: Use local and regional climate change data and models to develop planning scenarios Year 3-5: Develop planning maps and tools for local decision makers	Indirect impact	Achievement of milestones
133.	Continue existing local surface water, ground water and salt water intrusion modeling projects, incorporating expected climate change impacts (i.e. changes in temperature, precipitation, sea level rise, etc.) and integrating with regional water	Lead Water and Sewer Department (WASD)  Partners US Geological Survey (USGS)		\$49,158.50/y ear (O&M) Total \$2,769,513 (6 years)	WASD departmental revenues	No	Year 1-2: Complete (3) modeling scenarios with completed integrated model Year 3: Publish peer reviewed report and publically release model code	Indirect impact	Achievement of milestones



	Initiative	Lead & Partners	Funded Unfunde Capital		Funding Sources	New Legislative Action	Milestones	Emissions Impact	Performance Indicators and Targets
	modeling projects from the South Florida Water Management District and other SE FL Climate Change Compact partners								
	ATEGY: Integrate future climate Analyze sea level rise scenario maps to model buildable/livable footprints and correlate economic scenarios	Lead County Executive Office (CEO) Department of Planning & Zoning (DPZ) Office of Economic Development (OED)  Partners Department of Environmental Resources Management (DERM) Water and Sewer Department (WASD) Office of Sustainability (OOS) Enterprise Technology Services Department (ETSD) Community leaders	Initially within erresources TBD during the process	xisting	TBD during the planning process	n-making fo	Pending development of maps	Indirect impact	Achievement of milestones
135.	Examine the implications of sea level rise on vulnerable facilities (i.e. solid waste facilities, and water and wastewater utilities)	Lead County Executive Office (CEO) Office of Capital Improvements (OCI) Office of Sustainability (OOS)  Partners Department of Environmental Resources Management (DERM),	Within existing r	resources	Within existing resources	No	Year 1 - 2: Appropriate County departments (determined by OOS) will evaluate/estimate impact of minimum 1 ft. sea level rise on responsibilities and operations (Incl. geographic, economic, & sociologic & maps) Year 1 - 2: Based on above, determine	n/a	Achievement of milestones



	Initiative	Lead & Partners		ed and ed Costs Operating	Funding Sources	New Legislative Action	Milestones	Emissions Impact	Performance Indicators and Targets
		Water and Sewer Department (WASD), Seaport, Dade County Airport Department (DCAD), Solid Waste Management (SWM), Office of Capital Improvements (OCI), Public Works Department (PWD) Private stakeholders					departments likely have the most impacts.  Year 2 – 3: Priority departments identified above determine at what level of sea level rise they will need to modify economics, operations, and/or infrastructure		
136.	Develop mechanisms for organizations to integrate potential climate change impacts into capital and operational decisionmaking	Lead County Executive Office (CEO) Office of Strategic Business Management (OSBM) Office of Sustainability (OOS)  Partners All County departments	Within existing	g resources	Within existing resources	No	Pending evaluation of impacts to operations and infrastructure, and development of planning scenarios and maps	Indirect impact	Achievement of milestones
137.	Continue to implement the Stormwater Master Plan	Lead Department of Environmental Resources Management (DERM)  Partners SFWMD, OEM, USACE	\$5,000,000	\$25,000,000	Stormwater Utility fee	No	Basins updated on rotating basis every 3 years	n/a	Maintain a CRS score of 5 Square miles of terrain modeling (topographical mapping) updated