Monroe County, Florida
Energy Efficiency and Conservation Strategy

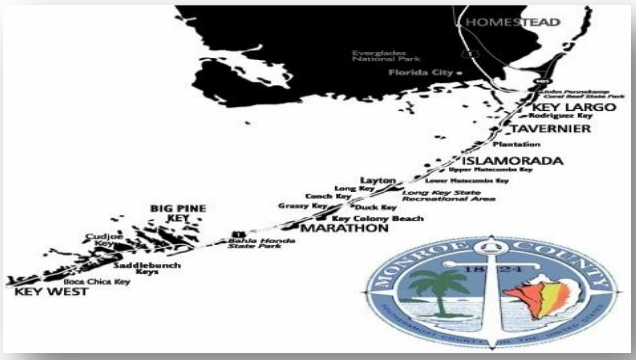

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Table of Contents

List of Tables and Figures

List of Appendices

APPENDIX A: 2005 Buildings/Facilities List, 2010 Equipment List, 2005 Vehicle List

APPENDIX B: Greenhouse Gas Inventory and Management Plan

APPENDIX C: Activity Worksheets

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Definitions

◊ Energy Efficiency

Energy efficiency refers to products or systems using less electricity or fuel to perform the same function as a conventional product or system. The more efficient the product or system, the more energy, greenhouse gas emissions, and money are saved.[1] Energy efficiency retrofits can include lighting and heating, ventilation, and air conditioning (HVAC) upgrades, as well as insulation, window improvements, and envelope repair. [2]

◊ Energy Conservation

Energy conservation is achieved through the use of energy efficient technologies in conjunction with responsible energy consumption behaviors. Energy conservation is a broad principal incorporating any practice that reduces overall energy utilization.[3]

◊ ENERGY STAR

ENERGY STAR is a joint program of the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Energy (DOE) promoting the use of energy efficient products and practices. Along with providing a standard for product efficiency, ENERGY STAR advocates the tracking of building performance as a first step in reducing overall energy consumption. EPA's Portfolio Manager, part of the ENERGY STAR tool suite, allows users to track energy and water consumption across their entire portfolio of buildings. Portfolio Manager helps users to identify under-performing buildings, capture the benefits of energy efficiency improvements, and assess energy management goals over time in a secure online environment.[4]

◊ Energy Efficiency and Conservation Block Grant (EECBG)

The Energy Efficiency and Conservation Block Grant (EECBG) Program was authorized as part of Title V, Subtitle E of the Energy Independence and Security Act (EISA) of 2007. The Program aims to promote energy efficiency and conservation programs and projects by providing grants to local governments, states, and Indian tribes. Modeled after the Community Development Block Grant Program, it is designed to reduce fossil fuel emissions and energy use while both creating and retaining jobs.[5]

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[1] U.S. EPA. "Clean Energy Glossary," Accessed August 29, 2011. http://www.epa.gov/cleanenergy/energy-and-you/glossary.html#E
[2] Oak Ridge National Laboratory. "Retrofit Best Practices Guide," January 6, 2004.
[3] Alliance to Save Energy. "Energy Conservation vs. Energy Efficiency: What's the Difference?," Accessed August 29, 2011. http://ase.org/resources/energy-conservation-vs-energy-efficiency-whats-difference
[4] U.S. EPA. "Portfolio Manager Overview," Accessed August 29, 2011. http://www.energystar.gov/index.cfm?c=evaluate_performance.bus_portfoliomanager
[5] U.S. Department of Energy. "Energy Efficiency and Conservation Block Grant Program," Accessed August 29, 2011. http://www1.eere.energy.gov/wip/eecbg.html

◊ Eligible Activity

An eligible activity is any project or program that meets the requirements to be funded under the U.S. DOE EECGB Program. Each activity must reduce fossil fuel combustion and emissions and promote energy efficiency and conservation. EECBG funds may only apply to the following 14 eligible activity categories:

(1) Local Government and Indian Tribe Energy Efficiency and Conservation Strategy Development
(2) Retaining Technical Consulting Services
(3) Residential and Commercial Building Energy Audits
(4) Financial Incentives Programs for Energy Efficiency
(5) Energy Efficiency and Retrofit Grants for Local Governments and Nonprofit Organizations
(6) Energy Efficiency and Conservation Programs for Buildings and Facilities
(7) Conservation of Transportation Energy - Development of Transportation Programs
(8) Building Codes and Inspection Services
(9) Energy Distribution Technologies
(10) Material Conservation Programs
(11) Reduction, Capture, and Use of Landfill Gases
(12) Replacement of Traffic Signals and Street Lighting
(13) On-site Renewable Generation On or In a Government Building
(14) Other Activities as Determined by the Secretary of Energy[6]

◊ Global Warming Potential (GWP)

Global Warming Potential (GWP) is the cumulative radiative forcing effects of a gas over time resulting from the emission of this gas relative to a reference gas. The GWP-weighted emissions of greenhouse gases are displayed in terms of equivalent emissions of carbon dioxide (CO_2) which has a GWP of 1.[7]

◊ Leadership in Energy and Environmental Design (LEED)

LEED, developed by the U.S. Green Building Council (USGBC) in March of 2000, is an internationally-recognized green building certification system. LEED for both new construction (NC) and existing buildings (LEED EB: Operations & Maintenance) provides a flexible framework by which buildings are evaluated for their environmental and health performance.

[6] U.S. Department of Energy. "EECBG Program Notice 10-021- Guidance for Eligibility of Activities under the Energy Efficiency and Conservation Block Grant Program," January 4, 2011.
[7] U.S. EPA. "Glossary of Climate Change Terms," Accessed September 9, 2011.

As a voluntary standard, recipients of LEED rankings demonstrate their environmental leadership and social responsibility.[8]

◊ Leveraging

To leverage funds is to provide seed funding for a program or project with the hopes of lowering the risk of investment and procuring further funding. If EECBG funds are used as seed funding for eligible activities, the funding is considered "Proposed Funds Leveraged."

◊ Performance Contracting

Energy Performance Contracting is a type of financing in which a private energy service company (ESCO) identifies, installs, and monitors energy-saving measures and opportunities for a company or organization and is then paid through the energy savings. The ESCO will guarantee that the money saved through reduced energy consumption will exceed the annual payments for the retrofit during the contract period. If savings are not realized, the ESCO will pay the difference at no loss to the customer and the Contracting relationship is regulated by Section 489.145, F.S.[9]

◊ Utility Rebate

Utility rebates encourage customers to invest in energy efficiency retrofits and renewable energy technologies by offering financial assistance in return for decreasing demand on the electric grid.

[8] U.S. Green Building Council. "What LEED is," Accessed August 29, 2011. http://www.usgbc.org/DisplayPage.aspx?CMSPageID=1988
[9] Energy Services Coalition. "What is Energy Performance Contracting?," Accessed August 30, 2011. http://www.energyservicescoalition.org/resources/whatis.htm

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I. Executive Summary

This document presents the Energy Efficiency and Conservation Strategy (EECS) for Monroe County, Florida ('the County'), and was prepared through a grant received from the U.S. Department of Energy's Energy Efficiency and Conservation Block Grant (EECBG) Program. The purpose of this EECS is to guide the County's efforts to reduce total energy use, which will help achieve its stated goal of a 20% reduction in greenhouse gas (GHG) emissions from a 2005 baseline by 2020. As there is not a one-to-one relationship between total energy use and total GHGs emitted (since fugitive emissions of GHGs are not driven by energy use), this EECS is targeted at reducing the County's GHGs directly associated with energy consumption. Although not expressly stated or adopted by the County, it is assumed that a parallel goal of 20% reduction in energy use below 2005 levels by 2020 is desired.

There are multiple benefits to reducing total energy use in County operations. The County spends millions of dollars each year on electricity and liquid fossil fuels to run its operations. In addition, the consumption of electricity and combustion of fossil fuels by the County contributes to anthropogenic global warming, which many scientists believe is causing climate change. The County has an acute need to respond to this issue, as its unique geographic setting makes it vulnerable to the impacts of climate change such as sea level rise and high-energy hurricanes. The natural beauty and varied habitats of the County are highly valued by its residents and tourists from across the globe, the latter of which drives a significant portion of the local economy. The County can lead by example, save money and protect and preserve what makes it so unique by doing its part to mitigate global warming and climate change.

This EECS has been designed using the following guiding principles: 1) reduce energy consumption associated with County operations and facilities; 2) reduce GHG emissions intrinsic to energy consumption in County operations; and 3) create new demand for green jobs and sustainable industry. The County will use these guiding principles to ensure that the Strategy conforms to EECBG Program requirements and assists in meeting the County's stated goals.

The County selected calendar year 2005 as its baseline, and during that time period, operations consumed 15,968,524 kWh of electricity, 166,692 gallons of gasoline, and 74,132 gallons of diesel. Total energy expenditures in that year were $2,599,255. Data were gathered from utility and fuel bills as well as historical accounting information. As a member of the International Council for Local Environmental Initiatives (ICLEI), the County used this

organization's software to enter energy consumption figures and calculate GHG emissions. In 2005, the County emitted 11,853 metric tons of CO_2 equivalents (CO_2e).

To achieve the stated reduction goals, this EECS provides a performance framework to measure energy consumption and emissions, take actions to reduce them, measure the results, and cross-check them against the needed progress toward the 2020 goal. The framework provides Key Performance Indicators (KPIs, commonly referred to as 'metrics'), a proposed interim target (10% reduction below 2005 levels by 2015), and the ultimate 20% reduction goal for all KPIs. Using this framework and baseline levels for KPIs, by 2020 the County will strive to reduce its electricity consumption from 15,968,524 kWh to 13,808,461 kWh; its gasoline consumption from 166,692 gallons to 136,537 gallons; and, its diesel consumption from 74,132 gallons to 59,354 gallons. These consumption reductions correspond to reductions in GHG emissions of 1919 MT CO_2e, 300 MT CO_2e and 152 MT CO_2e respectively.

The EECS also calls for the establishment of an Energy Reduction Task Force (ERTF) to act as the governance body for all energy-related issues. The ERTF will develop detailed specifications for what is needed to support energy management, evaluate existing data management systems, identify gaps, and recommend options for filling those gaps. It will also conduct energy assessments and benchmarking for buildings against national ratings; measure energy consumption and GHG emissions on an annual basis, starting with calendar year 2010; and create and implement action plans for five categories – electricity consumption, gasoline consumption, diesel consumption, renewable energy and funding/resources. An example action plan for electricity is provided to serve as a template for the other four categories. A process for implementing this Strategy is also provided within this document. A number of recommendations have also been made, the most salient being the call for establishing an energy-specific goal and interim target to drive reductions in energy consumption.

Finally, Monroe County has already taken steps to evaluate and address (to some degree) its energy consumption and GHG emissions prior to development of this Strategy. Such steps include: its membership in ICLEI; as a signatory to the U.S. Mayors' Climate Protection Agreement; the completion of a Strategic Vision Statement by the GITF; the drafting of a Climate Action Plan (and subsequent development of the GHG reduction goal); collaboration with the Southeast Florida Regional Climate Compact; the Update of the County's Comprehensive Plan; and direct actions to reduce energy and GHG emissions such as equipment retrofitting and fuel switching (biodiesel). Analysis and recommendations from these efforts have, to the extent possible, been incorporated into this Strategy.

II. Purpose of This Document

The purpose of this document is to guide the County's efforts to reduce total energy use – specifically, the direct consumption of fossil fuels and purchased electricity for County facilities and operations only. Reducing fossil fuel-based energy use is a critical undertaking because of increasing energy costs, the non-renewable nature of fossil fuels, and emissions of GHGs from their combustion – the latter of which most scientists believe is the cause of global warming and resultant climate change.

A strategy, by definition, is a plan of action or policy designed to achieve an overall or ultimate aim. The County's ultimate aim is to create a sustainable future, as described in its Sustainable Vision Statement. Part of that vision is the transition away from fossil fuel use in a manner that contributes to climate change mitigation and can be supported economically without major disruptions or deleterious effects on County-provided services.

In order to be effective, this EECS provides metrics and targets to reduce energy consumption across County government operations based on a stated goal. The adage "what gets measured gets managed" applies here; without metrics, the efficacy of actions that are implemented could not be discerned. Further, the EECS by its nature will require the consideration of energy consumption in all new actions (e.g., construction of new buildings) in terms of how they impact progress toward the stated goal.

It is important to note that Monroe County has not yet developed and received approval for a specific energy reduction goal. However, the County has approved a GHG reduction goal of 20% below 2005 levels by 2020. Total GHG emissions and total energy use are not always the same. Process and fugitive emissions of GHGs are not generated by energy consumption, and therefore would be in addition to GHGs emitted from sources that combust fossil fuels. Monroe County does not have processes that emit GHGs, but it does have closed landfills that have fugitive emissions of methane from anaerobic digestion of waste and refrigeration, chiller systems, and vehicle air conditioning systems that leak (emit) hydrofluorocarbons (HFCs). As no estimates of these emissions have been developed to date, they are excluded from the analysis in this EECS.

In order to complete the EECS, it is assumed that a 20% reduction in absolute energy use from a 2005 level by 2020 is the intention of the County, and that this goal will contribute to the reduction in GHGs that are emitted from sources that combust fossil fuels.

While it is recognized that energy consumed and GHGs emitted from County operations embody only a small fraction of national and global emissions, Monroe County's unique geographic vulnerabilities to sea-level rise due to climate change and its status as a primary

tourist destination only increase its dedication to becoming an environmental leader[10] by working toward and achieving its reduction goals.

[10] Monroe County Comprehensive Plan Update: Technical Document, April 5, 2011.

III. Background

A. County Description

Monroe County is the southernmost county in Florida and the United States, consisting of the Florida Keys and portions of the Everglades National Park and Big Cypress National Preserve. These mainland parks remain mostly uninhabited. The most well-known geographical feature of Monroe County is the Florida Keys. The string of 1,700 islands is connected by U.S. Highway 1, which ends in Key West, 150 miles southwest of Miami[11].

In total area, Monroe County is comprised of 3,737 square miles, 73% of which is water.[12] The Florida Keys proper are a curved arc-like chain of islands, 233 miles in length.[13] They extend from the southeastern tip of the Florida peninsula and create a border between the Gulf of Mexico and the Atlantic Ocean. Key West is the largest of the islands in the chain and controls a natural deep water harbor. The Atlantic side of the keys contains the only living coral reef in the continental United States.[14]

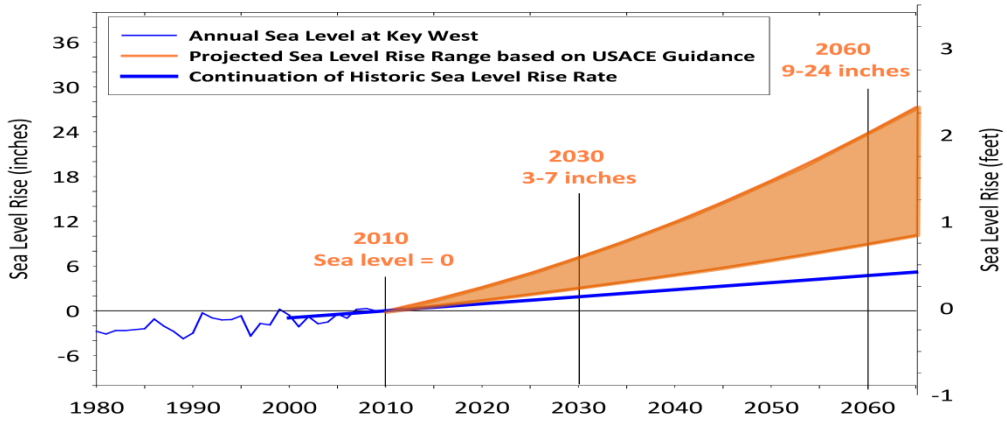
Climatic conditions across the County are generally warm and humid, with precipitation and high temperatures peaking in the summer months. Annual average temperatures range from 66°F to 83°F, with average annual rainfall at 50 inches.[15] Monroe County, and specifically the Florida Keys, is a part of the Southern Zone of the Gulf Coastal Lowlands physiographic province. The entirety of the County lies in a flood plain with an average elevation of less than 5 feet above sea level.[16]

According to the 2010 U.S. Census, Monroe County is home to 73,090 individuals representing an 8.2% population decrease since 2000.[17] The County, established in 1824, retains a diverse mixture of permanent and seasonal residents although the permanent population has been steadily decreasing largely due to the economic recession and the threat of hurricanes. Tourism, however, is still Monroe County's largest industry employing approximately 20% of the working population.[18] As this suggests, the County's economic well-being depends on its ability to maintain its natural resources and beauty.

[11] http://www.monroecounty-fl.gov. "About Monroe County." Accessed September 8, 2011.
[12] Ibid
[13] Monroe County Comprehensive Plan Update: Technical Document, April 5, 2011.
[14] Ibid
[15] http://www.worldclimate.com/cgi-bin/grid.pl?gr=N25W080
[16] Ibid
[17] U.S. Census Bureau. State and County Quick Facts, Accessed September 19, 2011.
[18] Monroe County Comprehensive Plan Update: Technical Document, April 5, 2011.

The highest point in the County is 18 feet above sea level on Windley Key.[19] Its geography increases its vulnerability to the effects of climate change including (but not limited to) intensifying hurricanes that move northward from the South Atlantic and sea level rise. In the last 10 years, Monroe County has experienced 7 tropical storms and 9 named hurricanes, resulting in $128.64 million in damage.[20] Sea level rise has been predicted as illustrated in **Figure 1**.[21] Additional background on anthropogenic global warming, climate change and its affect on South Florida and Monroe County can be found in the County's Comprehensive Plan Update.[22]

Figure 1 – Unified Southeast Florida Sea Level Rise Projection[23]



B. County Governance and Operations

County legislative and executive functions are performed by Monroe County's Board of County Commissioners (BOCC), and as a political subdivision of the State of Florida, the government functions in accordance with the Florida Constitution. The BOCC consists of five members elected at large for a term of four years by the citizens in their respective districts. County operations include those facilities or divisions for which the BOCC has operational control.

Issues related to energy use and environmental impacts are managed by Monroe County Department of Public Works under Director Kevin Wilson. External input on climate change issues is solicited from the Climate Change Advisory Committee (CCAC).

[19] Ibid
[20] National Oceanic and Atmospheric Administration (NOAA): National Climatic Data Center. Storm Events Database, Accessed September 19, 2011. http://www4.ncdc.noaa.gov/cgi-win/wwcgi.dll?wwEvent~Storms
[21] Monroe County Comprehensive Plan Update: Technical Document, April 5, 2011.
[22] Monroe County Comprehensive Plan Update: Technical Document, April 5, 2011.
[23] Unified Southeast Florida Sea Level Rise Projection for Planning Purposes. This projection is calculated using the U.S. Army Corps of Engineers Guidance (USACE, 2009) intermediate and high curves to represent the lower and upper bound for projected seal level rise. The Key West tidal data shows current trends in the recent past and the historic rate projected into the future.

The following is a list of County operations that are covered by this EECS:

- County-owned and operated facilities and buildings (including leased space where the County has operational control) with fixed and moveable equipment (e.g., HVAC, lighting, elevators, generators, appliances, computers, etc.);
- Public street lighting;
- Public and recreational park lighting;
- County-owned and operated vehicle fleet;
- Key West International Airport (KWIA) equipment; and
- Florida Keys Marathon Airport (FKMA) equipment.

All energy-consuming operations and activities that occur in sources that are not wholly owned or operated by the County are excluded from this EECS. This includes operations run by municipalities, the state of Florida, and the federal government within the geographic boundary of Monroe County. Further, all energy consumption by businesses, non-profits, other organizations and permanent and temporary residents within the County (commonly referred to as "community-wide") are also excluded from this EECS.

A list of buildings/facilities owned and/or operated by the County was compiled in 2005, along with an equipment list for those buildings/facilities in 2010. None of these lists have been verified by an independent third party, but the County believes that they are reasonably accurate. All are included in **Appendix A** of this document.

IV. Monroe County Energy and GHG Profile

A. Energy Consumption

In 2008, the County collected fossil fuel based energy consumption data for all of its sources in order to compile an initial GHG emissions inventory. The County selected calendar year 2005 as its baseline, and all energy consumption data presented in this document are from that year.

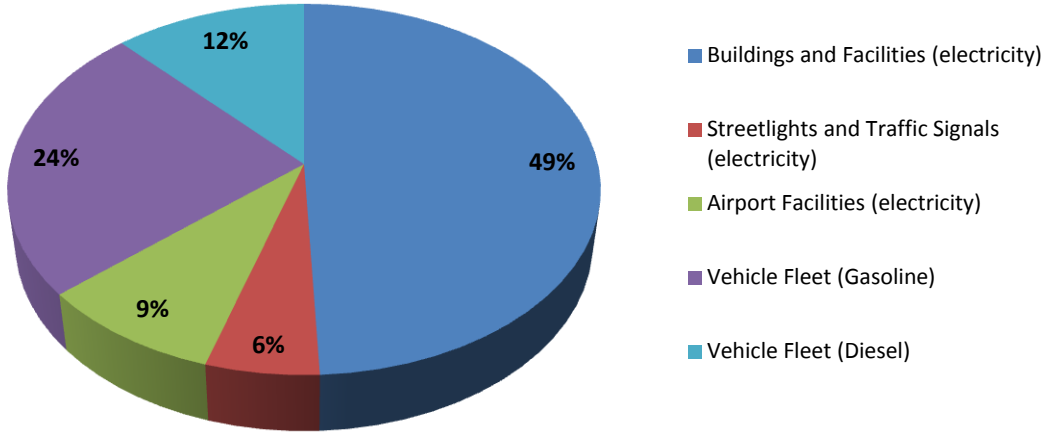
Data were gathered from utility and fuel bills as well as historical accounting information. The majority of Monroe County's energy consumption in 2005 occurred in its buildings. All electricity purchases account for approximately 64% of total energy use with the remainder attributed to gasoline and diesel consumption in the County's vehicle fleet. A summary of the County's energy consumption and expenditures for 2005 is provided in **Table 1** and illustrated graphically in **Figure 2**. In order to compare the relative amounts of energy used by the County in **Figure 2**, all types of energy consumption are converted to energy content[24].

Table 1 – Monroe County Operations - Energy Consumption and Expenditures

County Sources	Calendar Year 2005 Energy Consumption	Calendar Year 2005 Energy Expenditures ($)
Buildings and Facilities	12,349,279 kWh	1,497,583
Streetlights and Traffic Signals	1,368,576 kWh	189,721
Airport Facilities	2,250,669 kWh	285,499
Vehicle Fleet (Gasoline)	166,692 gallons	487,462
Vehicle Fleet (Diesel)	74,132 gallons	138,990
Total		**2,599,255**

[24] Energy content in MMBtu – one million British Thermal Units (BTUs), with 1 BTU =1,055.06 joules of energy.

Figure 2 - Monroe County 2005 Energy Consumption Profile (by Source Type in MMBtu)



Using data gathered for 2005, the highest expenditures for energy are listed in **Table 2**.

Table 2 – Monroe County Operations - List of Sources with Highest Energy Expenditures

Building or Facility	Energy Expenditure
Vehicle Fleet Gasoline	487,462
KW Gato Building	203,966
KW Courthouse	145,513
Vehicle Fleet Diesel	138,990
KW Justice 530 Whitehead St.	98,224
KW Airport 3-3491 S. Roos	97,053
KW 302 Fleming rear	97,047
Marathon TERM 9400 o/s hwy	96,636
Marathon Reg 2798 o/s hwy	90,432
Street Lights County Wide KES	88,769
KW Harvey Government Center	84,523
KW Old Jail 500 Whitehead	79,215
C lights all US1	63,908
PK Government Center	62,324
PK Mainers (old) 50 High Point	60,087
All Other Electricity Purchases for Buildings and Facilities	705,106
Total	**$2,599,255**

B. Greenhouse Gas Emissions

GHGs that result from the combustion of fossil fuels -- and therefore included in the County's inventory -- are: carbon dioxide (CO_2); methane (CH_4); and Nitrous Oxide (N_2O). Data for non-energy-consuming sources for the County (i.e., fugitive emissions from closed landfills and refrigeration/chillers/vehicle air conditioning systems) were not collected, and therefore, GHG emissions were not calculated for these sources in the baseline inventory. As a member of ICLEI, the County used this organization's software to enter energy consumption figures and calculate GHG emissions for calendar year 2005. A GHG Inventory Management Plan (IMP) for 2005 is included as **Appendix B** to this document, and provides information on boundary setting and other key decisions related to the development of the inventory.

GHG emissions (in carbon dioxide equivalents – CO_2e[25]) from the combustion of fossil fuels in County owned or operated equipment and vehicles, and consumption of fossil fuel generated electricity to run County operations is provided in **Table 3**.

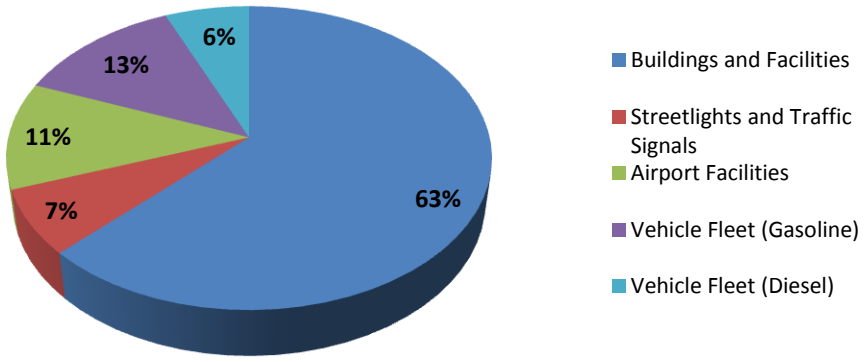
Table 3 – Monroe County Operations – GHG Emissions

County Sources	Calendar Year 2005 Metric Tons CO_2e
Buildings and Facilities	7,421
Streetlights and Traffic Signals	823
Airport Facilities	1,353
Vehicle Fleet (Gasoline)	1,499
Vehicle Fleet (Diesel)	758
Total	**11,853**

Figure 3 graphically illustrates Monroe County's GHG emissions by source type in metric tons (MT) of CO_2e. Emissions from electricity consumption in County-owned and operated buildings and facilities represents 63% of the total 2005 GHG inventory, with the next largest source type being gasoline-powered fleet vehicles at 13%.

[25] CO_2e is a metric used to compare emissions from multiple greenhouse gases based on their global warming potential (GWP). CO_2e is calculated by multiplying metric tons of any given greenhouse gas emitted by its corresponding GWP (Source: US EPA Glossary of Climate Change Terms, Accessed September 19, 2011)

Figure 3- Monroe County 2005 GHG Emissions by Source Type (MT CO_2e)



For the purposes of this EECS, Monroe County personnel assumed that its operations will experience no growth between 2005 and 2020. It is belived that this assumption represents a conservative estimate of future County activity. Reductions in operations have occurred due to changes in the County budget and are not expected to rebound past 2005 levels within the timeframe discussed in this EECS.

V. County Actions Related to Energy Consumption and GHG Emissions

This EECS is not the first action the County has taken to evaluate and address energy consumption and GHG emissions. The County has long been concerned with these issues, and some of the more recent actions are described below.

A. Signatory to the US Mayors Climate Protection Agreement

In 2005, the U.S. Mayors Climate Protection Agreement was launched by Seattle Mayor Greg Nickels, and initially signed by 141 mayors from cities across the country. The Agreement was created for cities to take the lead on climate change mitigation, and encourage state and federal action on this issue. The primary goal set for the signatories of this Agreement is to meet or exceed the Kyoto Protocol goal of a 7% reduction in GHGs from 1990 levels by 2012. Currently, the Agreement has 1,054 signatories.

In addition to cities, counties have signed on to the Agreement, including Monroe County in 2007. Although the County does not have baseline GHG data from 1990, it has set its baseline in 2005, and committed to reduce its GHG emissions 20% below 2005 levels by 2020 (Resolution No. 067-2010).[26] The Agreement suggests certain actions that signatories can take to reduce their GHG emissions. For example, signatories are encouraged to increase the use and production of renewable energy while updating their building codes and increasing energy efficiency in public facilities, as well as increase the average fuel efficiency of their fleet through the incorporation of alternative fuel vehicles.

Monroe County has continued to fulfill its obligations to this agreement by increasing awareness of climate change, creating an inventory of GHG emissions, working on near-term reduction efforts, and setting the aforementioned GHG reduction target. The County also created an example Climate Action Plan (CAP) in October 2009, which will be used to provide direction for the final plan to be presented to, and approved by, the BOCC. The County has also committed to work with regional partners to develop a comprehensive CAP through participation in the Southeast Regional Climate Compact, the substance of which is discussed later in this document. Finally, this EECS helps the County work toward its goals by focusing efforts on reducing fossil fuel energy use, which contributes to the County's carbon footprint.

[26] Monroe County Comprehensive Plan Update: Technical Document, April 5, 2011.

B. Membership in ICLEI

ICLEI is an international association of over 1,220 local governments who have committed to sustainable development and practices.[27] In 2008, Monroe County joined ICLEI, Cities for Climate Protection Campaign as a full member. The Campaign details the following 5 milestones in an effort to reduce GHG emissions associated with local government operations and the community at large:

1. Conduct a GHG emissions inventory
2. Establish a GHG emissions reduction target
3. Develop a Climate Action Plan to reach reduction target
4. Implement the Climate Action Plan
5. Monitor and evaluate progress

Monroe County has completed Milestone 1 with the assistance of ICLEI's Clean Air and Climate Protection (CACP) 2009 Software by establishing a 2005 baseline of emissions for County owned and/or controlled operations. In 2010, the County achieved Milestone 2 by approving its GHG emissions reduction target. In order to achieve Milestone 3, Monroe County is working with regional partners to draft appropriate mitigation and adaptation strategies for a regional CAP and the County is already integrating some of these concepts and strategies into its Comprehensive Plan which is currently being updated. The County is also working with the CCAC to draft a Community-wide CAP. Once the CAP has been drafted and implementation has begun, the County is committed to monitoring and verifying its progress. This crucial step will allow the County to adapt its plan to changing conditions and new data as necessary, focusing its efforts and resources in areas that provide the largest GHG reductions.

C. Formation of a Green Building Code Task Force/Green Initiative Task Force (GITF)

Established in 2008, the Green Building Code Task Force was charged with evaluating and recommending updates to the Monroe County building codes to increase community energy efficiency and overall sustainability. Comprised of 10 commission appointees, representatives from the 5 cities and 3 regional utilities, and 1 member from the U.S. Navy, the Task Force was renamed the Green Initiative Task Force (GITF) in 2009 and expanded its realm of responsibilities to include the development of the GHG emission reduction target, securing the EECBG Program funding, and drafting the County's Sustainable Vision Statement.

[27] ICLEI. "About ICLEI," Accessed September 20, 2011. http://iclei.org

The Sustainable Vision Statement serves as a qualitative sustainability strategy for the County, outlining areas that need improvement as well as opportunities for strategic development. This statement serves as the foundation for future planning and to aid in the development of the County's CAP. Covering a broad number of topics related to County and community sustainability, the Sustainable Vision Statement suggests the following actions directly related to the reduction of energy consumption:

- Reduce GHG emissions by updating building energy codes, promoting green construction practices, and incentivizing renewable energy installation and purchase;
- Promote practices that minimize vehicle miles traveled within the County as well as reduce emissions associated with mobile combustion of fossil fuels by developing an effective mass transit system and the advancing teleconferencing technologies;
- Support the development of renewable energy technologies within the County by establishing a renewable portfolio standard, lowering the barrier to entry for the purchase of renewable technologies, as well as supporting local renewable research.

As a result of GITF initiatives, the County also adopted the Florida Green Building Coalition's green commercial building standard for all new construction of County-owned public buildings (Resolution No. 147-2010). It is important to note that this standard was not required in plans developed prior to the acceptance of this resolution or adoption of a Florida Statute requiring that such standards be implemented.[28] Planning for new construction has not occurred since the adoption of this building standard.

The GITF was sunset on October 1, 2010. A number of task force members are now part of the CCAC, as described below.

D. Formation of a Climate Change Advisory Committee (CCAC)

Following the sunset of the GITF, the CCAC was established by the BOCC on January 19, 2011. Each County Commissioner appointed two members to the CCAC, of which one was from their district. The CCAC is an external advisory group that is responsible for providing community input on all County-related climate initiatives, recommending climate change adaptation and mitigation strategies to the BOCC, developing a Community-wide CAP and providing input to this EECS.

E. Formation of an Employee Green Team

The Monroe County Employee Green Team, formed in 2009, provides critical assistance for the development of the County's CAP. The Employee Green Team comprises a

[28]Ch. 2008-227, § 17, at 23, Laws of Florida.

multidisciplinary group of County employees which helps to bring climate change awareness to other County employees and the community at large.

F. Signatory to the Southeast Florida Regional Climate Compact

Monroe County signed the Southeast Regional Climate Compact ('the Compact') in January 2010, representing a joint commitment to mitigate and adapt to the effects of climate change along with Broward, Miami-Dade, and Palm Beach Counties. The Compact was developed during the Southeast Florida Climate Leadership Summit in 2009 when elected officials convened to discuss the unique impacts of climate change on the vulnerable Southeast Florida region.

Monroe County has committed to developing a Regional Climate Action Plan, as part of this partnership, as well as influencing state and federal climate change legislation. To date, the Compact has conducted resource surveys of all partner counties, submitted joint grant applications, and completed a regional greenhouse gas inventory. All accomplishments will lead up to the development of a regional climate action plan. Notably, the Compact was awarded recognition by ICLEI for "Process Innovation to Institutionalize Sustainability" in acknowledgement of the unique partnership between the Counties. Future tasks of the Compact include formalization of the regional greenhouse gas inventory and CAP, as well as procuring additional grant funding to carry out future CAP activities.[29]

G. Employee Services Division – Energy Conservation Measures

Monroe County's Employee Services Division, following the direction of the County's Administration, created a document in 2007 that discussed energy conservation measures. This document was distributed to personnel in the Employee Services Division only. Energy conservation measures described in the document include:

- Using desk lamps instead of overhead ceiling lighting;
- Offices with windows do not use overhead lighting and open blinds to use sunlight;
- Using space heaters because buildings are "so cold at times", but office doors must be closed or slightly ajar in order to keep the heat in the office and not leave the heater running all day long;
- Turning off lights in the restroom when exiting; and
- No longer listening to radio while working.

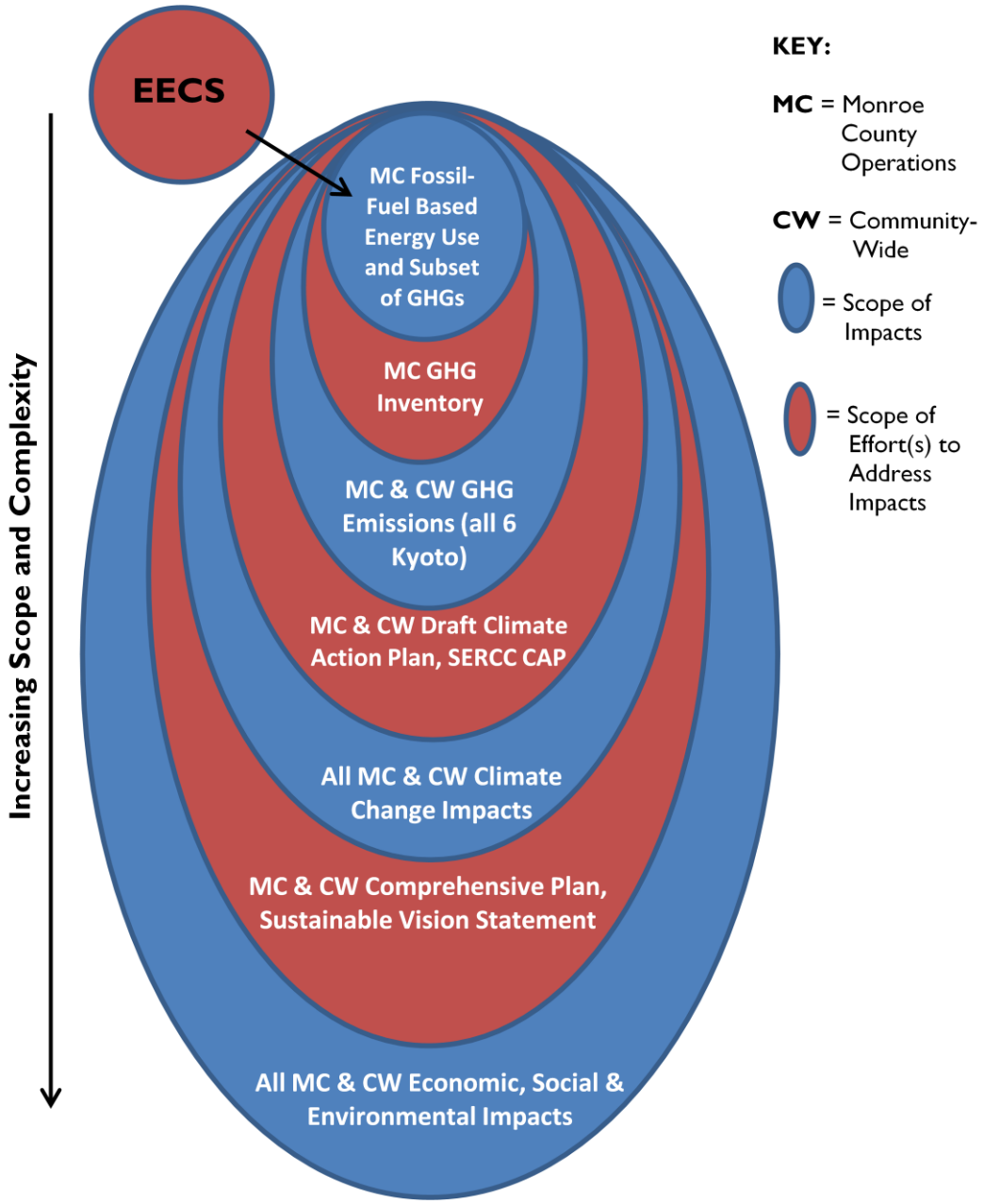
Energy savings from these measures within the Employee Services Division have not been quantified since the distribution of the document.

[29] Southeast Florida Regional Climate Compact: First Annual Report. February, 2011.

H. EECS in Relation to Previous and On-going Efforts by the County

This EECS is specifically directed at fossil fuel-based energy use in County operations. Its relation to other efforts that have been undertaken by the County – as well as those that continue to be developed -- is illustrated in **Figure 4**.

Figure 4 – Interrelation of Impacts and Efforts to Address Them



Goals and objectives set in broader, but related plans and strategies will be served by the reduction of energy use (and consequent reduction in GHGs) from County operations driven by this EECS.

VI. Strategy to Increase Energy Efficiency and Conservation in Monroe County Operations

A. Eligible Activity: EECS Development

The EECBG Program, funded by the American Recovery and Reinvestment Act (Recovery Act) of 2009, strives to broaden the adoption of energy efficiency and conservation initiatives throughout the United States.[30] By funding relevant projects proposed by U.S. cities, counties, states and Indian tribes, the EECBG Program aims to:

- Reduce GHG emissions associated with the combustion of fossil fuels;
- Reduce total energy consumption by grantees and their surrounding communities;
- Improve energy efficiency in all public sectors; and
- Create and retain jobs.

The Program, authorized in Title V, Subtitle E of the Energy Independence and Security Act (EISA) and signed into law on December 19, 2007, encourages the development of innovative solutions to the nation's most challenging climate change and energy issues.[31]

To meet the Program goals, the U.S. DOE has approved a list of activities that qualify for EECBG funding. All proposed projects must satisfy at least one of the following eligible activities[32]:

(1) Local Government and Indian Tribe Energy Efficiency and Conservation Strategy Development

(2) Retaining Technical Consulting Services

(3) Residential and Commercial Building Energy Audits

(4) Financial Incentives Programs for Energy Efficiency

(5) Energy Efficiency and Retrofit Grants for Local Governments and Nonprofit Organizations

(6) Energy Efficiency and Conservation Programs for Buildings and Facilities

(7) Conservation of Transportation Energy - Development of Transportation Programs

[30] U.S. DOE. "Energy Efficiency and Conservation Block Grant Program," Accessed September 8, 2011. http://www1.eere.energy.gov/wip/eecbg.html
[31] Ibid
[32] U.S. Department of Energy. "EECBG Program Notice 10-021- Guidance for Eligibility of Activities under the Energy Efficiency and Conservation Block Grant Program," January 4, 2011.

(8) Building Codes and Inspection Services

(9) Energy Distribution Technologies

(10) Material Conservation Programs

(11) Reduction, Capture, and Use of Landfill Gases

(12) Replacement of Traffic Signals and Street Lighting

(13) On-site Renewable Generation On or In a Government Building

(14) Other Activities as Determined by the Secretary of Energy

Monroe County received federal funding for this EECS as an eligible activity under the EECBG program.

B. Guiding Principles for the County's EECS

Given the requirements of the EECBG Program, the Monroe County EECS has been designed using the following guiding principles: 1) Reduce energy consumption associated with County operations; 2) Reduce GHG emissions intrinsic to energy consumption in County operations; and, 3) Create new demand for green jobs and sustainable industry. The County will use these guiding principles to ensure that the EECS conforms to Program requirements and assists in meeting the County's GHG reduction goal.

C. General Approach and Process

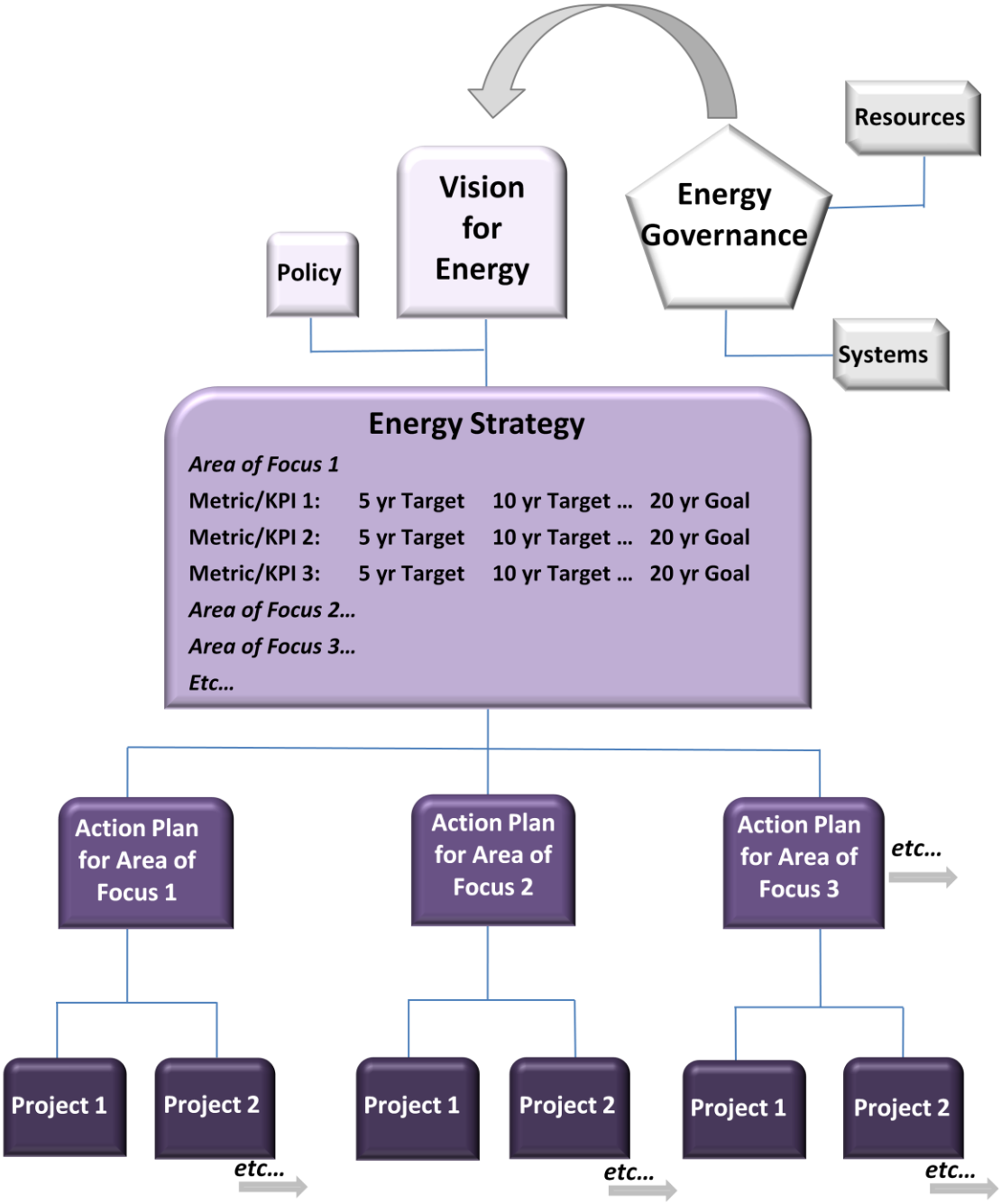
A best practice approach for achieving change is one that is:

- Transparent and understandable;
- Organized and focused; and
- Measurable and easily reportable.

This approach requires a framework that is directly governed, has supporting systems, articulates the ultimate outcome ('vision'), establishes the roadmap or plan of how to get there ('strategy'), and develops and implements detailed summaries ('action plans') to achieve stated goals. As experience has shown, elements within a strategy which are quantified drive change. Having specific long-term goals that support the vision, with near- and medium-term targets for checking progress, and quantified measures ('metrics' or 'key performance indicators (KPIs)') that allow for direct performance appraisal and reporting are critical to success. Action plans with roles, responsibilities, specific actions/initiatives/projects (each with their own project

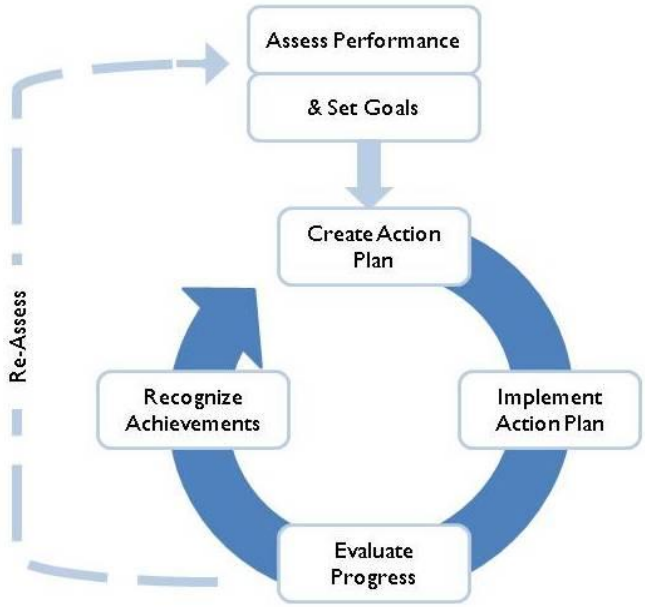
plan), timeframes, budgets, and expected outcomes are supporting elements of a strategy. An example energy performance framework is illustrated in **Figure 5**.

Figure 5 – Example Energy Performance Framework



This approach is coupled with a well-established process for achieving energy reductions, as shown in **Figure 6**[33]:

Figure 6 – Energy Management Process



D. Energy Performance Framework and Process for Monroe County

1. Governance

An Energy Reduction Task Force (ERTF), headed by a Director, should be established with members from the Operations, Environmental and Accounting/Finance Departments. The Task Force will have domain over all energy-related activities. The ERTF would be responsible for prioritizing efforts, action planning and implementation, as well as performance tracking and reporting against reduction targets and goals. It would also establish a master schedule for regular meetings, evaluation sessions and reporting performance on an annual basis, as well as communicating its progress to internal stakeholders and external stakeholders. This would be accomplished through reporting to the CCAC and the community in general, through the County website or other communication channels. External reporting has been shown to drive progress by increasing transparency and accountability.

Finally, one of the most crucial responsibilities of the ERTF is to estimate and secure internal and external human and financial resources to support the overall effort.

[33] U.S. EPA's Portfolio Manager Energy Management Guidelines, pg. 2.

2. Systems

The ERTF should first develop detailed specifications for the information that is needed to support energy management, then evaluate existing data management systems, identify gaps and recommend options for filling those gaps (e.g., using ICLEI's Climate and Air Pollution Planning Assistant - "CAPPA" v1.5[34] to assess the benefits of potential projects/actions). The ERTF would also be responsible for gathering data, performing quality checks and entering data into the appropriate tools, including the expanded use of U.S. EPA's Portfolio Manager. Further, the ERTF would link or merge consumption data with financial data, either through existing County systems or via direct reports from energy providers (utilities, fuel companies, etc.).

All energy-related information and data should be consolidated in a central location (server) with a file-mapping document to allow for easy identification and quick access to key energy management files on the server.

Currently, the County has:

- A spreadsheet that is an inventory of all existing buildings and facilities that *inter alia* lists their location, square footage, year of construction, and some utility account numbers;
- A spreadsheet that is an inventory of all equipment in the County, with equipment numbers, a description, some dates of purchase and the equipment type (e.g., HVAC, generators, etc.);
- Some building energy consumption information uploaded into U.S. EPA's Portfolio Manager; and
- A comprehensive County vehicle fleet list detailing acquisition date, vehicle description, license, and department.

A master list has not been created for buildings, equipment, vehicles and consumption/purchase information from vendors and utilities (meters and accounts) that would be updated annually to assist in tracking all energy information that is needed for this EECS and for other purposes, such as an annual GHG emissions inventory. The County also lacks an assessment tool that shows financial, energy and GHG reductions for proposed actions, such as ICLEI's CAPPA.

To augment its data management and decision systems, the County should continue to explore freeware from organizations and agencies such as:

- ICLEI (http://www.iclei.org)
- U.S. EPA
    - http://www.energystar.gov/

[34] http://www.icleiusa.org/action-center/tools/cappa-decision-support-tool

- http://www.epa.gov/energy/energy.html
- http://www.epa.gov/epeat/

- U.S. DOE
  - http://www.eere.energy.gov/
  - http://bit.ly/pTcDw4
  - http://bit.ly/qvtRbz
  - http://www1.eere.energy.gov/calculators/vehicles.html

3. Resources (Human and Financial)

Currently, Monroe County has three departments (public works, fleet, and project management) and two committees working on reducing energy use and fossil fuel combustion. Of all 481 County employees, 23 employees from Public Works, Facilities, the Sustainability Office, Project Management, Growth Management and Extension fully or partially work on energy-related issues. The ERTF would be responsible for coordinating efforts between the departments to streamline the County's energy management procedures.

Budgets for various departments are allocated annually. Monroe County collects revenues from a variety of sources, including property taxes, licenses and permits, revenues from federal and state sources, charges for services, fines and forfeitures, grants, rents, and interest. The amount of financial resources dedicated to energy-related issues, such as facility energy management, utility accounting, and operations has not been provided as an aggregate figure across these areas for calendar year 2005, 2010 or the current fiscal year. In the future, the ERTF would take the lead in securing funding for the implementation of the Strategy and any other special energy projects.

4. Vision and Policy

To date, the County has not articulated an overall vision for energy use in its operations, although general statements have been made within the Sustainable Vision Statement report and the Comprehensive Plan Update. To provide specific direction on County energy use, a clear, concise policy statement would help to focus the ERTF's efforts and communicate the County's intentions in this area to internal and external stakeholders.

5. Strategic Elements

a. Energy Consumption Assessment and Benchmarking

The County's energy consumption (and GHG emissions) baseline for 2005 is provided in Section IV of this document, along with a basic analysis using available data. No complete energy consumption inventory and analysis exists for the years 2006-2010, and therefore the reductions or increases in total energy consumption (as well as those in each major category) are unknown. The ERTF should create an energy consumption inventory for 2010, and begin to compile the 2011 inventory as well. Energy consumption must be assessed annually between 2010 and 2020 to determine if actions are effective, and if course corrections are needed. When feasible, more detailed information (quarterly or monthly) should be gathered and assessed to understand energy use patterns and trends.

In addition, no comprehensive analysis of building energy performance has been conducted that would allow for a benchmarking comparison to other buildings nationwide, although a few are being tracked in U.S. EPA's Portfolio Manager. This software allows for such a comparison, and therefore the ERTF should, at a minimum, enter in energy consumption data for the most inefficient buildings in its portfolio to assist with prioritization of actions. Further, an assessment of all fleet vehicles has not been conducted to identify the worst-performing trucks and automobiles that would assist with prioritization of actions. The ERTF should gather relevant data (e.g., maintenance intervals, total mileage) on its fleet vehicles.

b. Reduction Goals

Specific goals have not been set for a desired energy mix, renewable energy usage or reduction in fossil fuel usage for the County. A GHG reduction goal has been set for all GHG emissions, including process and fugitive emissions, as well as those from the combustion of fossil fuels. As stated in Section II of this document, it is assumed that an energy reduction goal for the County would also be 20% below 2005 levels by 2020 – for fossil fuel-based energy consumption.

c. Near- and Mid-Term Reduction Targets

Although no near- and medium-term reduction targets have been set by the County, it is expected that at least one interim target would be set to drive action toward the 2020 goal. Attaching one target – such as a 10% reduction below 2005 levels by 2015 – would allow for a course correction if it is needed to get back on track to meet the 2020 goal. Further, it has been more than five years since the baseline inventory was developed. A verifiable update for calendar year 2010 would be prudent to evaluate whether energy consumption has varied significantly (up or down) from the baseline.

d. Key Performance Indicators (KPIs)

Based on the County's energy consumption profile (see **Figure 2**), performance categories consist of purchased electricity and liquid fuels for the vehicle fleet. KPIs would therefore include kWh or MWh for electricity consumption and gallons of gasoline and diesel for all County operations on a per annum basis. Additional KPIs would include energy units/British Thermal Units (BTUs), percentage of biodiesel used ($\%D_b$), metric tons (MT) of carbon dioxide equivalents (CO_2e), and expenditures ($) for each category.

Goals, targets, and KPIs for Monroe County are summarized in **Table 4**.

Table 4 – Energy Reduction Performance Indicators, Targets and Goals

Energy Consumption Category	KPIs (Total for County Operations on a Per Annum Basis)	CY 2005 Baseline	CY 2010 Performance (5-year Mark from Baseline)	Target[35] (10% below 2005 levels by 2015?)*	Goal[36] (20% below 2005 levels by 2020)*
Purchased Electricity	kWh or MWh; MMBTUs; MT CO_2e emissions; $ electricity consumed/ purchased	15,968,524 kWh 54,500 MMBtu 9,596 MT CO_2e $1,972,803	To be determined by MC	15,534,518 kWh 53,004 MMBtu 8,637 MT CO_2e $1,919,185[37]	13,808,461 kWh 47,114 MMBtu 7,677 MT CO_2e $1,705,942[38]
Liquid Fuel (Gasoline) for Vehicles	Gallons of gasoline; MMBTUs; MT CO_2e emissions; $ gasoline consumed/ purchased	166,692 gallons 20,834 MMBtu 1,499 MT CO_2e $487,462	To be determined by MC	153,604 gallons 19,200 MMBtu 1,349 MT CO_2e $449,188	136,537 gallons 17,067 MMBtu 1,199 MT CO_2e $399,278
Liquid Fuel (Diesel) for Vehicles[39]	Gallons of diesel; $\%D_b$; MMBTUs; MT CO_2e emissions; $ diesel consumed/ purchased	74,132 gallons 10,236 MMBtu 758 MT CO_2e $138,990	To be determined by MC	66,774 gallons 8,347 MMBtu 682 MT CO_2e $125,194	59,354 gallons 7,419 MMBTU 606 MT CO_2e $111,283

*County operations were assumed to experience zero growth between 2005 and 2020.

[35] Projections for future electricity use were calculated using the specified % reduction in GHG emissions. For 2015 and 2020, U.S. EPA eGrid2010 v.1.0 emission factors were applied (FRCC sub-region). Targets and goals should be revised as more accurate emission factors are established.
[36] Ibid
[37] Expenditure amounts assume flat energy prices between 2005 and 2020 (without inflation). A midpoint analysis may be needed to correct for actual energy prices in all categories.
[38] Ibid
[39] In the 2005 GHG inventory, total gallons of diesel purchased was used to calculate emissions from vehicles. However, some diesel was used to fill tanks associated with emergency generators, which are stationary sources of GHGs. Monroe County will adjust these numbers in the future when it obtains more detailed use numbers in place of purchase numbers.

e. Areas of Focus

The primary areas of focus for this EECS are the energy consumption categories presented in **Table 4**. Within these categories are sources of energy consumption that present specific opportunities for energy improvements. Together, the consumption categories and sources provide an outline for the development of more detailed action plans. In addition, there are two general categories that will support the County's overall effort for reductions in energy consumption and GHG emissions -- renewable energy and funding/resources – which will also be the basis for action plan development. All of the areas of focus for this EECS are presented in **Tables 5 - 9**, below.

Table 5 – Area of Focus: Electricity Consumption

Sources of Consumption	Potential Actions
Efficiency	
Buildings – General & Envelope	Auditing, Assessment, Repair, Replacement
Buildings – HVAC	Assessment, Automation, Optimization Replacement
Buildings – Non-HVAC (Roofs; Mechanical- Elevators, Pumps, etc.)	Replacement
Buildings - Lighting	Automation, Optimized Configurations Replacement (direct, or natural lighting)
Buildings – Electronics, Office Machines & Appliances	Replacement
Stand-Alone – Equipment & Lighting	Automation, Replacement
Conservation (Awareness & Behavioral Change)	
General Demand	Information Dissemination, Training, Tools (e.g., power strips), Compressed Workweek

Table 6 – Area of Focus: Gasoline Consumption

Sources of Consumption	Potential Actions
Efficiency	
Fleet Vehicles	Fuel Switching, Replacement (More Fuel-Efficient Conventional Vehicles) Replacement with Alternative Powertrains (Hybrid, Hybrid-electric, Electric, CNG), Develop Plug-in Stations
Conservation (Awareness & Behavioral Change)	
General Use	Information Dissemination, Training (Eco-Driving Course), Optimum Maintenance, Vehicle Pooling

Table 7 – Area of Focus: Diesel Consumption

Sources of Consumption	Potential Actions
Efficiency	
Fleet Vehicles	Fuel Switching, Anti-Idling Technology, Replacement
Conservation (Awareness & Behavioral Change)	
General Use	Information Dissemination, Training (Eco-Driving Course), Optimum Maintenance, Vehicle Pooling

Table 8 – Area of Focus: Renewable Energy

Types	Potential Actions
Ocean/Tidal, Geothermal Solar (Mobile, Fixed), Wind	Research, Feasibility Assessments, Cooperative Efforts, Small Scale Purchase, Pilot Testing

Table 9 – Area of Focus: Funding / Resources

Types	Potential Actions
Grants, Loan Programs, Energy Financing Programs, Rebates, Incentives, Performance Contracting, No/low-Cost Assistance Freeware	Research – Federal, State, Utility, Private Sector Sources Grant Writing Loan Applications RFPs Internship Opportunities

6. Action Plans

In order to achieve the reductions envisioned, the County must have specific actions that will affect energy usage in each of the consumption categories listed in **Table 4**. The time horizon for Action Plans can be set at 1, 3 or 5 years based on user preference. Typically, a general 5-year Action Plan is created to reach an interim target, with individual (more focused) action plans being developed on an annual basis.

The Action Plans should contain both energy efficiency and conservation measures, and include:

- A summary of impacts that are the subject of the Action Plan;
- A list of specific actions to address those impacts;
- An estimate of the expected energy reduction for each action;
- An estimate of the cost for each action;
- Internal and external funding sources available for each action;
- The number of County FTE required to implement each action;
- The number of green jobs created or retained from each action;
- A feasibility assessment of each action (technical, legal, financial, etc.);
- Prioritization of actions based on the above;
- Length of time to implement the action within the Action Plan time horizon;
- Monitoring and tracking process; and
- Roles and responsibilities for carrying out the Action Plan.

Table 10 on the following page provides an example of an Action Plan for one area of focus – electricity consumption.

Table 10 – Action Plan Example (Electricity Consumption)

ACTION PLAN: ELECTRICITY CONSUMPTION						
Action Plan Timeframe:						
Impacts Addressed:						
Roles and Responsibilities:						
Monitoring and Tracking Plan:						
Efficiency	**Action Item 1**	**Action Item 2**	**Action Item 3**	**Action Item 4**	**Action Item 5**	**Action Item 6**
Buildings – General & Envelope	L2 Energy Audits, Envelope Assessments	Bldg. Performance Benchmarking	Weatherization / Leak Repair	Window Replacement	Upgraded Insulation	Window Tinting
(i) description (quantified)	MC to add	MC to add	MC to add	MC to add	MC to add	MC to add
(ii) expected energy reduction	"	"	"	"	"	"
(iii) cost estimate	"	"	"	"	"	"
(iv) funding / resources available	"	"	"	"	"	"
(v) MC FTE needed for implementation	"	"	"	"	"	"
(vi) # green jobs created	"	"	"	"	"	"
(vii) feasibility assessment	"	"	"	"	"	"
(viii) length of time to implement	"	"	"	"	"	"
Buildings – HVAC	EE Standards For New Purchases	Replacements (use LCA, IRR, Payback)	Automated Controls Lg. HVAC Systems	Programmable Thermostats	Duct Leakage Repairs	Solar AC Window Units
(i) – (viii) …						
Buildings – Non-HVAC	EE Standards For New Purchases	Reflective Roofs[40]	Replacements - Standard	Regenerative Motors (if appropriate)	Pump Systems Optimization[41]	Other Mech. Sys. Optimization
(i) – (viii) …						
Buildings – Lighting	EE Standards For New Purchases	Lighting Needs Assessment	Large Array Replacement	Small-scale Replacement	Occupancy Sensors	Natural / Passive Lighting
(i) – (viii) …						
Buildings – Electronics, Office Machines & Appliances	EE Standards For New Purchases	Power-down and Shut-down Settings	Equipment Pooling	Vending Misers	I.D. & Mgt. of Energy Vampires	Solar Charging Stations
(i) – (viii) …						
Stand-Alone – Equipment & Lighting	EE Standards For New Purchases	Efficiency Assessments	Large Array Replacement	Small-scale Replacement	Equipment Optimization	Solar-Powered Mobile Generators
(i) – (viii) …						
Conservation	**Action Item 1**	**Action Item 2**	**Action Item 3**	**Action Item 4**	**Action Item 5**	**Action Item 6**
General Demand	Awareness Campaign[42]	Conservation Training	Tools (e.g., Eco Power strips)	Energy Competitions	Compressed Workweek	Telecommuting
(i) – (viii) …	MC to add	MC to add	MC to add	MC to add	MC to add	MC to add

[40] See EPA's ENERGY STAR® Roof Products Program, with online calculator to determine potential energy savings.

[41] See http://www1.eere.energy.gov/industry/bestpractices/ "The Pumping System Assessment Tool".

[42] See http://www1.eere.energy.gov/femp/services/create_campaign.html#ceap

The ERTF should develop a separate Action Plan for each area of focus (i.e. – electricity, gasoline, diesel, renewable, funding). Upon approval of the Action Plans by the Employee Green Team, individual actions would be further developed into specific projects and initiatives.

7. Individual Projects and Initiatives

Based on the rank order / priority given to all actions in each Action Plan, a detailed Project Plan would be created for high-priority actions. Project Plans would consist of the following:

- A detailed description of the action to be taken;
- A more accurate estimation of the expected energy reduction for the action in units that are consistent with established KPIs for the EECS;
- A cost estimate based on project specifications (either internal, or via a Request for Proposal process);
- The source of funding for the project;
- A detailed schedule for implementation with milestones and deliverables;
- A progress monitoring and reporting process;
- A method to verify the energy reduction results; and
- The identification of a County Project Manager who is responsible for overall implementation of the project.

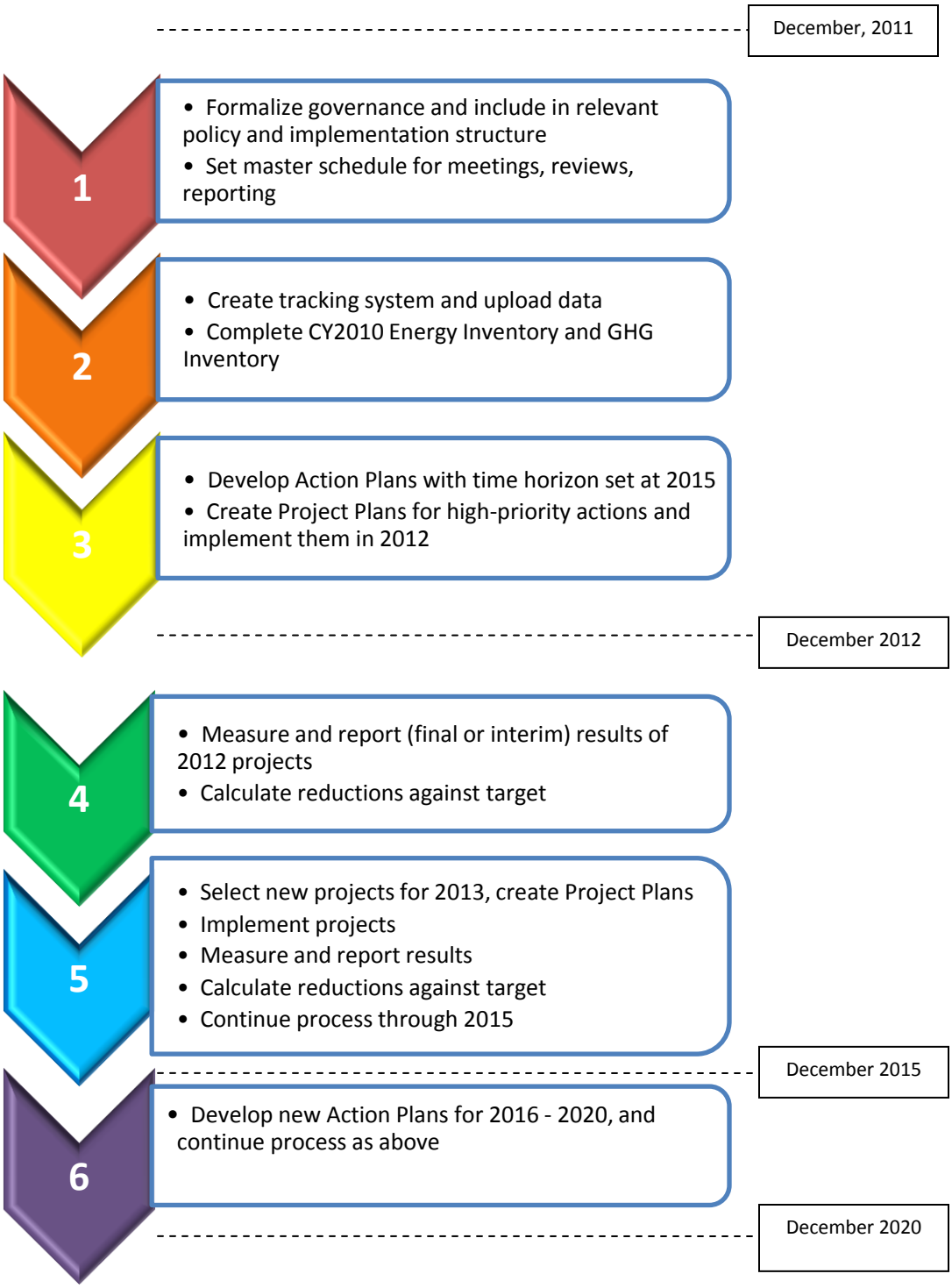
Reporting of results must be done to ensure that reductions achieved are recognized within the overall Strategy as progress toward the goal in 2020.

F. Process

In order to accomplish the reductions necessary to meet its targets and goals, Monroe County must establish a process that is rigorous enough to keep momentum going while being flexible enough to respond to course corrections that are inevitably part of the implementation process. Based on the start date of this effort and the level of energy reduction desired, it would be prudent to set the Action Plan time horizons at 4 years (2012 – 2015, inclusive), with annual sets of projects to moderate the workload.

The process for implementing this Strategy through 2015 is illustrated in **Figure 7**, and generally follows the best practice process illustrated in **Figure 6**. In 2015, new Action Plans would be developed for the time horizon of 2016 – 2020 that will build on the reductions achieved in the first period, and ensure that the final goal of 20% below 2005 levels is met by the end of 2020.

Figure 7 – EECS Implementation Process



To assure the process remains a long-term commitment implemented over a period of time where staff and leadership may change, the County should consider incorporating this process

into the Comprehensive Plan. In particular, projects should be incorporated into the capital improvements planning process as appropriate and goals, objectives and policies developed that highlight the energy efficiency of technologies as a consideration to project development. Because the Comprehensive Plan is a community's long-term strategy over a specific planning horizon (typically 20 years), including this process in that document can assure decision making that includes a broad based approach maximizing energy reductions, cost savings and greenhouse gas reductions. Given that the County is developing an Energy and Climate Element of its Comprehensive Plan, the County has already demonstrated its desire to prioritize these principles in its policy making process.

G. Grant-Funded Projects for Energy Efficiency and Conservation

EECBG funding was allocated to two projects outside of the scope of work to develop this EECS. They are relevant here because their implementation will directly reduce energy use in County operations. Therefore, the KPIs presented in **Table 4** are applicable to these projects, and should be quantified upon project completion using actual data. In the interim, CAPPA can be used to estimate the reductions from the purchase of hybrid fleet vehicles, and *Table 1* in the scope of work for the County Facilities Energy Audit and Retrofit project provides estimated reductions generated by the consultant.[43] An Activity Worksheet (using DOE FOA Attachment B1) for each of these grant-funded projects is included in **Appendix C** to this document.

1. County Facilities Energy Audit and Retrofit

Fifty-three percent of Monroe County's GHG emissions result from electricity use in County-owned buildings. This project provides an audit of a number of the County's main facilities located in Key West, and will implement a package of energy conservation measures (ECMs) designed to reduce overall energy consumption. The Jackson Square facilities complex houses four main buildings and a central chiller plant measuring a total square footage of 197,823 with an annual energy cost of $534,019. The audit, which established an energy use baseline, revealed multiple cost-effective ECMs to be implemented using EECBG funding.[44]

As it is not possible to implement all energy conservation measures due to budget constraints, projects were prioritized based on a cost-to-savings ratio forming a comprehensive package. With a payback period of 6.1 years, the proposed package will cost $555,437 and save 652,692 kWh/year and reduce GHG emissions by 453 MT CO_2e/yr.[45] Monroe County has allocated $700,000 of EECBG funding for this project, resulting in the potential creation of 7 jobs.[46] This

[43] County Facilities Energy Audit and Retrofit Scope of Work, June 2011.
[44] Monroe County Investment Grade Energy Audit: Jackson Square, Key West, FL. Prepared by HDR Inc, May 2011.
[45] Ibid
[46] Note: Job creation has been calculated using The Council of Economic Affairs job creation potential estimate of $92,000 of grant funding per 1 job. The US DOE requires tracking of actual job creation and retention through Recovery Act implementation. Please see EECBG Program Notice 10-08A for further guidance.

project falls under EECBG eligible activity #6, energy efficiency and conservation programs for buildings and facilities.

2. Purchase of Hybrid Vehicles

Monroe County has chosen to upgrade its vehicle fleet by replacing four gas-powered vehicles with four hybrid-electric vehicles. Purchasing these hybrids falls under eligible activity #6, Energy efficiency and conservation programs for buildings and facilities. It is assumed that the purchase of these vehicles will create 1.3 jobs and will use $120,000 of EECBG program funds. Using CAPPA, the reductions per hybrid vehicle replacement of combustion-only power train vehicle are as follows: 349 gallons per annum; 3.06 metric tons CO_2e per annum; $923 in cost savings per annum after payback period of 2.7 years. The purchase of four hybrid vehicles would result in reductions of 1,398 gallons of fuel per annum; 12.27 metric tons of CO_2e per annum; and $3,691 in cost savings per annum after the 2.7 year payback period.

VII. Implementation of Eligible Activities

A. State, Regional and Local Collaboration

Monroe County participates in a number of activities aimed at collaboration among various levels of government. Most of these are aimed at Climate Change rather than energy efficiency and conservation. A summary of these activities is provided below.

1. State Collaboration

As a recipient of EECBG funding though the Florida Energy and Climate Commission Grant, Monroe County is committed to reducing its environmental impacts in an effort to aid the state in the pursuit of their goals and targets. In 2007, former Florida Governor Charlie Crist established an executive order (EO 07-127) detailing comprehensive GHG emissions targets. The State of Florida has committed to reduce GHG emissions to the following levels: by 2017 reduce to 2000 levels, by 2025 reduce to 1990 levels, and by 2050 reduce to 80% below 1990 levels. By completing this EECS and the associated EECBG funded projects, Monroe County is contributing to the State's ability to reach its targets and will continue to reduce County emissions until all goals are met.

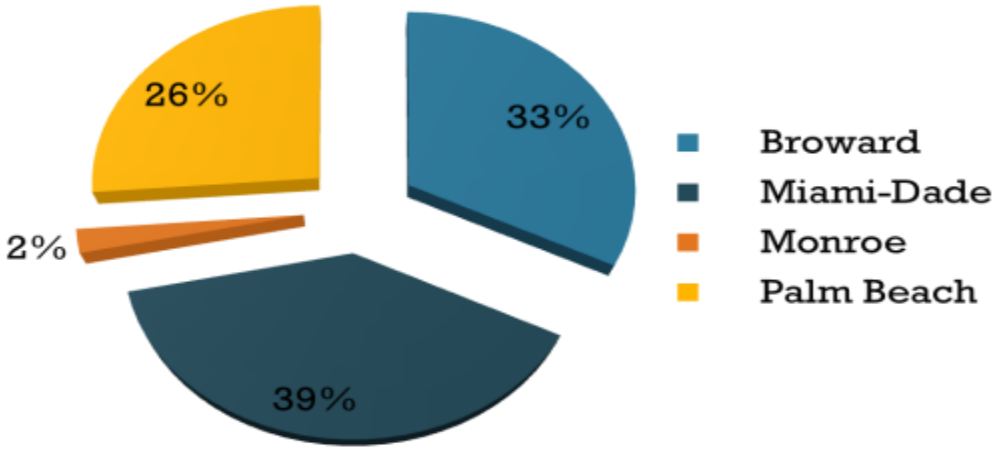
2. Regional Collaboration

As noted previously, Monroe County participates in the Southeast Florida Regional Climate Compact, which represents a joint commitment of Broward, Miami-Dade, Palm Beach and Monroe Counties to partner in mitigating the causes and adapting to the consequences of climate change. The Compact outlines a collaborative effort to participate in a Regional Climate Team toward the development of a Southeast Florida Regional Climate Change Action Plan. It also commits the Counties to work on federal and state climate policies and joint advocacy in Tallahassee and Washington, DC on climate policies related to the shared challenges of climate change.

A valuable component of the Compact is the development of a Southeast Florida Regional Climate Change Action Plan to coordinate an approach and to take advantage of economies of scale in implementing that approach. The foundation for such a plan is the regional GHG emissions inventory that established the baseline level of emissions from targeted sources in order to set common reductions goals. The technical working group for this effort includes representatives from each Compact County and has support of the Climate Leadership Initiative (CLI). Staff collected GHG emission inventory data for all four counties for 2005, 2006, 2007, and 2008. Multiple years were collected to discern and smooth economic downturn-related reductions in emissions. Targeted sources included electrical, natural gas, fuel sales, and transportation-related emissions. Data collection was coordinated and analyzed

through CLI to generate the inventory. The results of this effort are illustrated in **Figure 8**, below.

Figure 8 – County Contributions to Total GHG Emissions



At the SE FL Regional Climate Leadership Summit on October 23, 2009, the local diversity in sea level rise (SLR) projections was highlighted as a concern and a barrier to achieving regionally consistent adaptation policies and effective communications on risk assessments. Through a series of facilitated discussions, a Work Group of local scientists and professionals knowledgeable on sea level rise science reviewed the existing regional projections and the current scientific literature related to SLR with particular emphasis on the impact of accelerating ice melt. The Work Group recommended that the SE FL region agree to utilize the U.S. Army Corps of Engineers (USACE) July 2009 Guidance Document until more definitive information on future SLR is available and a 2060 timeframe for planning purposes. It was also suggested that the group reconvene and consider new data and scientific evidence in three years. The projection uses Key West tidal data from 1913-1999 as the foundation of the calculation and references the year 2010 as the starting date of the projection. Two key planning horizons are highlighted: a 2030 projection of 3 inches - 7 inches and a 2060 projection of 9 inches - 24 inches.

The need to develop a unified set of methodologies and criteria for creating sea level inundation maps for the SE FL region was also identified. The National Oceanographic and Atmospheric Administration (NOAA) Coastal Services Center (CSC) worked closely with

Broward County and South Florida Water Management District (SFWMD) to coordinate a two-day technical workshop in April 2010 to initiate this process.

In August 2010, GIS professionals from the Compact Counties, academia and representatives from federal agencies reconvened to agree on aspects of performing vulnerability analysis. They reviewed the results of a pre-workshop online survey focused on determining potential resources at risk to SLR for the SE FL area. This survey provided a foundation for discussions at the workshop, covering parameters to assess for vulnerability, methods for determining resources at risk, disclaimer language and other related topics. At this and subsequent meetings, the Work Group refined parameters of interest and agreed to a set of regionally-consistent methods of assessing and illustrating vulnerability in SE FL.

Inundation mapping and risk assessments revealed the need to focus adaptation improvements in areas of increased risk of inundation due to SLR, and the means for directing future funding to these targeted areas. The term Adaptation[47] Action Area (AAA) was created to provide for special designation of these priority planning areas where coastal and tidal flooding placed public and private infrastructure at risk. The Compact Counties (Broward, Monroe, Palm Beach and Miami-Dade Counties), adopted state and federal policies related to the creation of AAA and jointly advocated for the definition of AAAs in Florida law.

3. Local Collaboration

On May 8, 2011, the Florida Legislature adopted the Community Planning Act, HB 7207 that provides for a definition of Adaptation Action Areas.[48] Subsequent to this state legislative action, on May 13, 2011, members of Congress signed onto a letter supporting the term AAA and requesting funds to study, define and designate several Adaptation Action Areas. On July 6, 2011, the Compact Counties requested consideration by Congress of AAA funding through the Interior and Environment and Related Agencies Appropriations bill. AAA (or "adaptation area") is an optional comprehensive plan designation for areas that experience coastal flooding and that are vulnerable to the related impacts of rising sea levels for the purpose of prioritizing funding for infrastructure needs and adaptation planning.

Monroe County collaborates with local municipalities including Layton, Marathon, Islamorada, and Key West. These municipalities as well as non-governmental organizations such as utilities, the Navy and State Offices meet regularly during the Climate Change Advisory Committee workshops to share information a find ways to collaborate. All municipalities are represented at these meetings.

[47] Adaptation is a general term for the steps a community takes to become more resilient to the impacts of rising seas over a period of time. The three main strategies a community may use to adapt to sea level rise are: Protection, Accommodation and Retreat.
[48] Ch. 2011-138, § 6, at 8, Laws of Florida.

The County also leads several cross-jurisdictional components to extend the benefits both in geography and diversity. For these components, the County facilitates a schedule of meetings among relevant staff of the County and municipalities on topics related to the EECBG Program and share technical and implementation information on a regular basis. The County and its municipal partners have identified initiatives that we can implement collectively and co-brand to achieve broader impacts. Under the EECBG, the County is working in the residential sector, to install or replace 20 solar hot water heaters in affordable homes throughout the County and municipalities. The Florida Keys has the highest housing costs in the State. The replacement of conventional hot waters heaters with solar will not only help reduce emissions and promote energy efficiency measures in our housing stock, it will greatly assist low and moderate income families economically.

The County is also integrating existing programs such as weatherization and leveraging utility sponsored rebate programs ($450 per solar heater) that have cross-jurisdictional impact, to maximize the likelihood that residents will be able to afford the costs to manage their homes. Further, the County will leverage the federal Residential Energy Efficient Property Credit worth up to 30% of the cost of these projects, with no cap. The County and Cities will partner with the local chapter of Habitat for Humanity to administer this grant activity.

Another cross-jurisdictional grant activity the County leads is an educational/public awareness component. Education is a central component in creating a more sustainable Florida Keys. In partnership with Radio Green Earth, an environmental education program produced for Public Radio. The County and its co-applicants are developing and producing an Energy Efficiency educational video that will be utilized by all grant recipients through their websites and television channels to educate constituencies about energy efficiency and conservation measures they can take and a radio segment to air on National Public Radio. There are many opportunities to expand this educational effort to create long term positive changes in behaviors, norms, and values. For example, Green Living & Energy Education (GLEE) is a Keys-wide 501(c)3 non-profit that works to take sustainable actions through efficient and renewable energy, and the conservation of water and land resources, is complementing this educational effort by partnering with the County to increase the number of certified Green Businesses and provide workshops on best management practices in energy efficiency.

Finally, the County engages with a number of external stakeholders through the CCAC, as previously described in this document.

B. County Governance for Grant Implementation

For projects funded by the Florida Energy and Climate Commission Grant, or the federal EECBG Program, the County Grant Manager in the Sustainability Office oversees all activity components and assures responsibility to both the State and Federal government. As the County Grant Manager receives expense and activity reports from individual projects or cities, monthly reports are compiled and submitted to the State Grant Manager. Monroe County's finance department reviews all pay requests before submission to the State for reimbursement. The State Grant Manager for the Florida Energy and Climate Commission Grant is subsequently responsible to the Federal Grant Manager for the EECBG Program. Both Grant Managers for the State and Federal government make regular visits to Monroe County to assess and track progress of federally funded projects. **Figure 9** illustrates the flow of accountability necessary for the receipt of EECBG funds.

Figure 9 - Monitoring and Accountability for EECBG Grants

In order to ensure that projects funded by the EECBG Program are performing as expected, regular tracking of energy and cost savings will be built into the monitoring plan. For all projects which result in the conservation of electricity, utility invoices should be tracked and documented by meter number to allow reductions to be visualized over time.

An alternative methodology exists with the use of the U.S. EPA's Portfolio Manager software. Further information on the use of the Portfolio Manager tool can be found in the recommendations section of this EECS. A similar auditing procedure should be utilized for the County's purchase of hybrid vehicles. Gasoline and diesel purchases should be tracked and recorded as well as yearly mileage driven for each vehicle in order to demonstrate a marked reduction in fuel use throughout the contract period. Regular tracking of these KPIs not only

demonstrates the County's commitment to transparency but also will open the door for future energy efficiency grants and funding opportunities.

Beyond the grant funding, it is recommended that the ERTF implement this EECS.

C. Grant Funding Allocation, Project Completion and Benefits

Funds to develop this EECS were awarded on November 1, 2010, and the completion date of the project is November 30, 2011. This schedule ensured that the County and will realize the benefits of energy efficiency while jump-starting the economy.[49]

The development of Monroe County's EECS directly created 0.22 jobs. Job creation was calculated based on The Council of Economic Affairs estimate of $92,000 of EECBG funds per 1 job. Actual job creation is required to be tracked throughout the duration of the grant and must be reported to the Federal government. Recovery Act full time equivalents (FTEs) are to be reported to the Office of Management and Budget (OMB) and Recovery Act hours worked are to be reported to the U.S. DOE PAGE system on a quarterly basis.

Indirect job creation from the implementation of this EECS cannot be directly calculated, as the choices the County makes during implementation will influence the magnitude of job creation. As an example, if there are three additional energy audits and retrofits similar to that which was funded by EECBG Program this year, one major lighting retrofit initiative (replacing 0.33 of total lighting in building/facilities portfolio)[50] and the purchase of 4 additional hybrid vehicles, the potential number of jobs created would be 26.3.

Table 11 summarizes direct job creation (under the grant funded portion of this EECS) and example indirect job creation through its implementation.

Table 11 – Job Creation Summary

Activities	Potential Jobs Created
Direct Job Creation from Grant Funding (2011)	
EECS Development	0.22
Examples of Indirect Job Creation from Strategy Implementation (2011 – 2020)	
County Facilities Energy Audits and Retrofits (3)	21
Lighting Retrofit (one-third of building portfolio)	4
4 Additional Hybrid Vehicles	1.3

[49] Activity timelines are directly taken from Monroe County's EECBG Fully Executed Grant Agreement with associated amendments.
[50] Estimated using calculator at: http://www.p-2.com/benefits/lighting-retrofit-calculator/

D. Long-term Program Sustainability and Financing

The activities described in this EECS to meet the County's goals by 2020 will contribute to the County's long-term sustainability. All of the activities are planned in such a way that each initiative will reduce County energy use, GHG emissions, and expenses on a long-term basis, as well as accelerate the adoption of green practices. Some of the utility cost savings generated by these activities can be reinvested for subsequent energy efficiency improvements. In addition to the long-term energy and GHG benefits, these programs will disseminate information and build public awareness, multiplying the environmental and monetary benefits.

Other funding sources can be utilized to advance the recommendations in the EECS. More and more, traditional grant funding sources such as those offered through U.S. Department of Housing and Urban Development (HUD), U.S. Department of Transportation (DOT) or the Environmental Protection Agency (EPA) are including eligible projects based on "green" initiatives that include an energy or climate focus. Existing partners and having an EECS in place will make the County more competitive in securing these funding opportunities.

The ERTF can also consider the feasibility of certain innovative financing techniques, as well as other partnerships with local utilities, to help facilitate renewable energy deployment. For instance, the State of Florida Department of Management Services holds a contract to provide for the installation and operation of solar energy systems at various facilities owned by that Department of Management Services utilizing leasing and other arrangement similar to energy-savings performance contracts. Utilizing this approach in government buildings and facilities can minimize the upfront costs to purchase new equipment as well as maintenance costs over time. Third-party investor and ownership models provide other options for the purchase and implementation of solar projects within the confines of Florida's renewable energy rules and laws.

VIII. Recommendations

In order to implement this EECS, achieve its stated goals, and receive the benefits from doing so, the County should consider the following recommendations.

A. Energy-Specific Goal

Monroe County has not set a long-term goal for energy reduction from its operations. One of the first actions the ERTF should undertake is to recommend such a goal for the 2020 time horizon, and present this to the BOCC for approval. In addition, a specific interim target should also be set for 2015 to assist in gauging progress toward the ultimate reduction goal. Relying solely on the GHG reduction goal, which includes emission sources outside the scope of this EECS is not recommended.

B. Long-term Vision and Policy for Energy in Monroe County

The County has yet to succinctly articulate its long-term vision for energy and establish an energy policy. Without a clear understanding of where it wants to be (continuing fossil-fuel consumer; self-sufficient/off-grid/off-pump; net producer of energy) and what its energy portfolio may look like after 2020, the areas of focus and the actions taken under this EECS may not be in line with the County's vision when it is articulated, and its energy policy when it is established.

C. Sustained Focus

Investing time, money and effort into planning and implementation of energy reduction measures is a long-term undertaking, and some of the benefits will not be realized in the near-term. In order to sustain the focus necessary to carry through with this EECS, the County should publicly re-commit to the effort each year and monetize achieved (and expected) energy reductions to show taxpayers and other stakeholders the economic, as well as the environmental and social benefits of its actions.

D. Human Resources

As with any broad-based plan, initiative or effort, there is a tendency to feel overwhelmed by the amount of activities necessary to get started and carry it through. It is not atypical for plans or auditing/assessment reports to end up on shelves because it appears as if the barrier to getting started is so high while personnel already feel overloaded in their work duties. By incorporating the EECS into the County's Comprehensive Plan, the County can avoid this tendency.

The County should realistically evaluate what it can take on with its current level of FTEs, and consider supplementing its workforce through external assistance (in-kind collaboration with NGOs and universities; paid contractors and consultants on a limited basis), interns (paid and unpaid) and residents who want to get involved with local government. Large amounts of data entry and tracking are difficult for current employees to manage without assistance, but they are absolutely essential to implementing a successful EECS.

E. Data Management and Performance Tracking

To date, the County has made efforts to consolidate energy- and climate-related data in various software programs. However, a great deal still needs to be done in terms of historical data upload (particularly 2010 data), data entry into Portfolio Manager, building performance benchmarking, and year-on-year data for KPI, Action Plan, and project-specific metric tracking.

Good management relies heavily upon good information, and energy management is a perfect example of this need. Short-term assistance with the initial upload of information is recommended. In the long-term, working directly with the County's utility providers and vendors of petroleum products to get purchase/consumption information delivered in a useable format (spreadsheet) will shift the burden away from County personnel and decrease transcription errors from hand-entry.

Further, as the County's stated goal is in terms of GHG reductions, it is essential to closely track emissions data and update the GHG inventory annually. *At a minimum*, historical data should be collected and emissions calculated for CY2010 (following the inventory design from the baseline) and updated annually thereafter. Also, sources that were excluded from the inventory due to a lack of information should be included in the 2010 inventory and back-calculated to the 2005 baseline if they represent a significant portion of the inventory (typically 10% or more). These include fugitive emissions of HFCs from chiller systems and stand-alone air conditioning units (window and in-vehicle), and fugitive emissions of methane from closed landfills.

Finally, where technically and economically feasible, sub-metering should be done for County buildings with large energy use profiles. Sub-metering would allow for better informed decision-making for proposed energy efficiency and conservation measures.

F. Managing Change Over Time

It is expected that some Monroe County personnel will retire, switch jobs, or resign. Relying upon institutional knowledge of current employees could jeopardize the process and potentially the outcome of this Strategy. It is recommended that wherever possible, the County invest time and money in developing systems-based rather than a people-based approach. As

recommended earlier, integrating the EECS into existing policy structures can also address these issues.

IX. Conclusion

The natural beauty and warm and sunny climate of Monroe County makes it one of the most appealing places to work, reside or visit, the latter of which is an essential part of the County's economy. However, due to its geographic location, the County is particularly vulnerable to the effects of anthropogenic global warming and resultant climate change – specifically sea level rise and increasing numbers of high-energy hurricanes.

It is in the County's best interest to maintain its economy, its social fabric and its ecosystems by doing its part to manage its operations in a way that reduces costs and mitigates GHG emissions. Both of these objectives can be achieved through the implementation of this EECS. Further, by reducing its energy consumption and communicating the results, the County acts as an example to other local governments and communities nationwide who are working toward the same end.

Collaboration with other entities – federal and state agencies, local governments, NGOs, academia and the private sector – will allow for the flow of ideas and approaches to enhance the results of this EECS and lower the cost of its implementation. With a sustained effort, external assistance and a focus on continuous improvement, the County should be successful in this endeavor.

APPENDIX A

A.1 2005 Buildings/Facilities List

A.2 2010 Equipment List

A.3 2005 Vehicle List

Appendix A.1 2005 Monroe County Buildings and Facilities List

Facility Name		Energy Use (kWh/year)
Buildings and Facilities		
	31140 O/S Hwy	28,128
	Big Coppit Fire Station	94,053
	Big Coppit Park ave. F	13,771
	Big Coppit park w. Harvey	2,930
	Big Pine Ball Field	8,204
	Big Pine Comm. Office	5,567
	Big Pine Fire Station	58,307
	Big Pine library	49,517
	Big Pine Library #2	8,790
	Big Pine Rec. Facility (AARP)	26,077
	BPK Leis - J pine acres	11,720
	BPK Stigliglitz House	10,548
	BPK Watson Field K	10,548
	BPK Watson Field N. Tennis Lights	11,720
	Conch Key Fire Station	51,456
	HH Ball Field Consession	11,232
	Islamorada Lib.	94,224
	Key Largo Ambulance	65,352
	Key Largo Ambulance #2	31,500
	Key Largo Fire Dept	138,264
	Key Largo Library	148,800
	Key Largo Pump Station	43,272
	KL 99200 O/S HWY FMO	28,164
	KL Community Park	161,340
	KL Dameron Buliding	10,812
	KL VFD East Dr.	141,432
	KW 302 Fleming rear	796,960
	KW Bayshore Manor	154,048
	KW Bayshore Manor #2	94,053
	KW Car Shop 3500 S. Roosevelt	3,516
	KW Car Shop 3583 S. Roosevelt	241,612
	KW Court (Annex?) 500 Whitehead	442,723
	KW Courthouse	1,233,237
	KW Dept. Trailer 3483 S. Roos	10,841
	KW Garage S. Roos	24,319
	KW Garage W. Airport	72,957
	KW Gato Building	1,642,558
	KW Harvey Gov Center	669,212
	KW Higgs Beach Extension	1,172

Facility Name	Energy Use (kWh/year)
KW Higgs Beach park	1,465
KW Higgs Beach Restroom	12,306
KW Justice 530 Whitehead St.	917,470
KW Library 700 Fleming	268,095
KW Lighthouse Museum	19,717
KW Martello	31,937
KW Martello Tower	2,637
KW Old Jail 500 Whitehead	595,669
KW State Att. 1111 12th st.	43,071
KW Truman School	116,907
Mara 63rd Annex	214,560
Marathon Garage	83,352
Marathon Gen Buld.	12,828
Marathon Jail (courthouse)	418,872
Marathon JC 33rd S. Light	40,932
Marathon Library	163,116
Marathon PW Offices	88,020
Marathon Reg 2798 o/s hwy	734,640
Marathon Senior Center AARP	41,760
Marr Prop. L326 Carribbean	51,420
PK (no description)	69,720
PK (old) PW Offices	31,716
PK Annex	54,288
PK Court	31,128
PK GAR Key Heights	11,856
PK Garage	27,840
PK Govt Center	485,916
PK GOVT. L12	177,360
PK Mainers (old) 50 High Point	468,636
PK Maintenance	15,372
PK Senior Center AARP	31,896
Port Salvo Venetion Shores	15,432
Public Defender 4691 O/S Hwy	9,084
Public Defender 4697 O/S Hwy	21,180
Public Defender 4699 O/S hwy	10,836
Saddlebunch Bay Point Park	5,860
SL 3L Us Hwy 1 (unknown)	67,390
SL restroom (unknown)	5,567
St Atty. 4693 O/S hwy	30,600
Stat Atty 4695 O/S Hwy	14,400
Stiglitz Work Area	4,395

Facility Name		Energy Use (kWh/year)
	Stock Island Bernstein Deputy House	16,408
	Stock Island Bernstein Park	38,676
	Stock Island Bernstein Park #2	6,739
	Stock Island Hickory House	21,096
	Sugarloaf VFD	51,275
	Tavernier EMS	84,444
	Tavernier Health Clinic	25,236
	Veterans Park MM40 US1	3,223
Subtotal Buildings and Facilities		**12,349,279**
Streetlights & Traffic Signals		
	107 St Ocean	1,860
	109 St. Gulf	2,004
	3103 O/S Hwy Swit	7,884
	31140 O/S Hwy	16,115
	BKP Key Deer and Watson	293
	C lights all US1	430,244
	C-905 mm 106 KL	3,888
	Card Sound 3 way	2,004
	CK Training	768
	Cocoplum	7,356
	Crawl Key	23,988
	Friendship park	7,848
	Garrison Causeway Pier	293
	HH Ball Park	11,400
	HH Park (ocean bch)	41,136
	HH Park Hope	1,884
	Indian Key Fill	2,100
	Jewfish Light S. Side Bridge	1,980
	Jo Jean	5,196
	KCB	2,196
	Key Deer & US1	1,465
	KL Comm. Park	17,556
	KL Elementary	3,660
	KW Library light	879
	Layton Light	2,076
	Light Marr Card Sound	12,576
	Marathon Fire Signal	5,244
	N. KL Fire Sunset CV	3,888
	Old Mariners Light	0
	PK 186 Key Hights	708

Facility Name	Energy Use (kWh/year)
S-FL Fire 99411 O/S Hwy.	2,592
S/I. Crossing Light	2,930
San Pablo	19,656
Sl- Crane Blvd.	1,758
Street Lights County Wide KES	702,907
Swit School	180
Tavernier Towne	9,876
Tradewinds	10,188
Subtotal Streetlights & Traffic Signals	**1,368,576**
Airport Facilities	
Aviation Gate 10601 O/S Hwy	2,051
Beacon	6,960
KW Arpt #5 3491 S. Roos	1,172
KW Arpt #6	293
KW Arpt 1-3491 S. Roos	361,855
KW arpt 4- 3491 S. Roos	239,967
KW Arpt T-Station	11,427
KW Arpt. 2-3491 S. Roos	7,618
KW Arpt. 3-3491 S. Roos	768,539
Marathon Gate 122nd st Ocean	19,656
Marathon TERM 9400 o/s hwy	750,876
Mthn Gate	2,051
Runway Marathon	78,204
Subtotal Airport Facilities	**2,250,669**

Appendix A.2 Monroe County Equipment List 2010

Equipment No.	Description	Serial No.	Model No.	MFG	Purchase Date	Original Cost	Equipment Type
B01	BIG PINE FIRE STATON						
B02	BIG PINE AARP						
B02-FUEL	GENERATOR ABOVE GROUND FUEL TANK-100GAL					$ -	GEN
B02-GEN	BIG PINE AARP GENERATOR-15KW			KOHLER		$ -	GEN
B03	BLUE HERON LEISURE CLUB						
B04	BIG PINE ANIMAL SHELTER						
B05	WATSON FIELD PARK						
B05A	STIGLITZ HOUSE					$ -	COLF
B05D	WATSON FIELD TENNIS COURT					$ -	P&BFAC
	WATSON FIELD RESTROOM					$ -	P&BFAC
B05F	WATSON FIELD BALLFIELD					$ -	P&BFAC
B07	BIG PINE LIBRARY						
B07-PAC1	BIG PINE LIBRARY PACKAGE AC #1	K07158896	TCC060F100BA	TRANE		$ -	HVAC
B07-PAC2	BIG PINE LIBRARY PACKAGE AC #2	KO8159545	TCC060F100BA	TRANE		$ -	HVAC
B08	PALM VILLA PARK						
B10	BIG PINE TAX COLLECTOR						
B10-PAC1	BIG PINE TAX COLLECTOR PACKAGE AC #1	L324H3XIN	TCM042F100B	TRANE		$ -	HVAC
B10A	BIG PINE SHERIFF OFFICE					$ -	LPF
B11	W.SUMMERLAND TRANSLATOR SITE						
B17	BIG PINE COMMUNITY PARK						
B17-CAC-01	BIG PINE COMM PK CENTRAL A/C #1	0508A84265	FA4CNC060	CARRIER		$ -	HVAC
B17-ELEV	BIG PINE COMMUNITY PARK ELEVATOR					$ -	
B17-PAC-01	BIG PINE COMM PK PACKAGE A/C UNIT #1	1208V09587	40NVC018-3	CARRIER		$ -	HVAC
C01A	CUDJOE KEY SUBSTATION-EMS SIDE						
C01A-AHU	CUDJOE KEY EMS AIR HANDLER	2195A01857	383KB024-3	CARRIER		$ -	HVAC
C01A-CU1	CUDJOE KEY EMS CONDENSING UNIT	1096E10766	38CKB024310	CARRIER		$ -	HVAC

Equipment No.	Description	Serial No.	Model No.	MFG	Purchase Date	Original Cost	Equipment Type
C01B	CUDJOE KEY SUBSTATION - SHERIFF SIDE						
C01B-AHU	CUDJOE KEY SUBSTATION AIR HANDLER	N/A	N/A	CARRIER		$ -	HVAC
C01B-CU1	CUDJOE KEY SUBSTATION CONDENSING UNIT	4196G00048	38AK008V501	CARRIER		$ -	HVAC
C03	BAY POINT PARK						
C03A	BAY POINT PARK PLAYGROUND					$ -	P&BFAC
C04	SUGARLOAF PARK						
C05	RECYCLING TRANSFER STATION						
C06	SUGARLOAF FIRE STATION						
C06-FUEL	SUGARLOAF FIRE STATION GEN FUEL TANK					$ -	GEN
C06-GEN	SUGARLOAF FIRE STATION GENERATOR					$ -	GEN
K01	KEY WEST COURTHOUSE						
K01-BAS	K01-COURTHOUSE BUILDING AUTOMATION SYSTEM					$ -	HVAC
K01-ELEV-02	COURTHOUSE DUMBWAITER	56216				$ -	ELEV
K01-ELEV-03	COURTHOUSE - ELEVATOR	56691				$ -	ELEV
K01-GEN	GENERATOR AT KW COURTHOUSE					$ -	
K02	KEY WEST COURTHOUSE ANNEX						
K02-AHU-A1	KW CTHS ANNEX CHILLER A AIR HANDLER #1	3899F51238	40RM5008	CARRIER		$ -	HVAC
K02-AHU-A2	KW CTHS ANNEX CHILLER A AIR HANDLER #2	K98F60199	MCCA012CAJ0BAC0A	TRANE		$ -	HVAC
K02-AHU-A3	KW CTHS ANNEX CHILLER A AIR HANDLER #3	853726663	5211167125	CARRIER		$ -	HVAC
K02-AHU-A4	KW CTHS ANNEX CHILLER A AIR HANDLER #4	7.62E+11	42DCA14BRCD5AKYGYG	CARRIER		$ -	HVAC
K02-AHU-A5	KW CTHS ANNEX CHILLER A AIR HANDLER #5	7.62E+11	42DCA14BRCD5AKYGYG	CARRIER		$ -	HVAC
K02-AHU-A6	KW CTHS ANNEX CHILLER A AIR HANDLER #6	7.62E+11	42DCA14BRCD5AKYGYG	CARRIER		$ -	HVAC
K02-AHU-A7	KW CTHS ANNEX CHILLER A AIR HANDLER #7					$ -	HVAC
K02-AHU-B1	KW COURTHOUSE ANNEX CHILLER B AHU #1	1295F39019	40RMS008500GC	CARRIER		$ -	HVAC
K02-AHU-B2	KW COURTHOUSE ANNEX CHILLER B AHU #2	1397F62153	40RMS008500GC	CARRIER		$ -	HVAC

Equipment No.	Description	Serial No.	Model No.	MFG	Purchase Date	Original Cost	Equipment Type
K02-AHU-B3	KW COURTHOUSE ANNEX CHILLER B AHU #3	1890F14703	781897	CARRIER		$ -	HVAC
K02-AHU-B4	KW COURTHOUSE ANNEX CHILLER B AHU #4	0893A0011090	AHU0086	SUP		$ -	HVAC
K02-AHU-B5	KW COURTHOUSE ANNEX CHILLER B AHU #5	7PC02535	TSH-041-E-A	MCQUAY		$ -	HVAC
K02-AHU1	KW COURTHOUSE ANNEX CU#1 AIR HANDLER #1	N/A	N/A			$ -	HVAC
K02-AHU2	KW CTHS ANNEX CU#2 AIR HANDLER #1	3088U26647	40RE015-610	CARRIER		$ -	HVAC
K02-AHU3	KW CTHS ANNEX CU#3 AIR HANDLER #1	P21457K1V	TWE036E14F8Q	TRANE		$ -	HVAC
K02-CHILL-A	KW COURTHOUSE ANNEX CHILLER #A	X594755	30GB040 T30AN	CARRIER		$ -	HVAC
K02-CHILL-B	KW COURTHOUSE ANNEX CHILLER #B	YFVM767760	VCAW02125PA	YORK		$ -	HVAC
K02-CU1	KW COURTHOUSE ANNEX CONDENSING UNIT #1	4096E05174	38CKB018320	CARRIER		$ -	HVAC
K02-CU2A	KW COURTHOUSE ANNEX CONDENSING UNIT #2A	2596G00359	38AK-008-V501	CARRIER		$ -	HVAC
K02-CU2B	KW COURTHOUSE ANNEX CONDENSING UNIT #2B	2996G00447	38AK-008-V501	CARRIER		$ -	HVAC
K02-CU3	KW CTHS ANNEX CONDENSING UNIT #3	D16384AFF	TTR036C100A3	TRANE		$ -	HVAC
K02-ELEV-01	KW COURTHOUSE ANNEX ELEVATOR #1	3998		OTIS		$ -	ELEV
K02-ELEV-02	KW COURTHOUSE ANNEX ELEVATOR #2	46502		MOWREY		$ -	ELEV
K02-ELEV-03	KW COURTHOUSE ANNEX ELEVATOR #3	37419				$ -	ELEV
K02-FAS	KW COURTHOUSE ANNEX FIRE ALARM SYSTEM					$ -	SEC
K02-FP	KW COURTHOUSE ANNEX FIRE PUMP	8540S4791101		ALLIS-CHALME		$ -	FSS
K02-FUEL	GENERATOR ABOVE GROUND FUEL TANK-500GAL					$ -	GEN
K02-GEN	KW COURTHOUSE ANNEX GENERATOR-230KW	500FDR7116JJW		CUMMINS		$ -	GEN
K02-METDET	KW COURTHOUSE ANNEX METAL DETECTOR	NA	MT5500	GARRETT		$ -	LIFT

Equipment No.	Description	Serial No.	Model No.	MFG	Purchase Date	Original Cost	Equipment Type
K02-WP-01	KW COURTHOUSE ANNEX POTABLE WATER PUMP#1	113328S	PF503-3	PEERLESS		$ -	WP
K02-WP-02	KW COURTHOUSE ANNEX POTABLE WATER PUMP#2	114-4871	PE403-3	PEERLESS		$ -	WP
K02-XRAY	KW COURTHOUSE ANNEX X-RAY MACHINE	55381	SYS215	EG&G ASTROPH		$ -	SEC
K03	LESTER BUILDING						
K03-AHU1	LESTER BLDG CU#1 AIR HANDLER #1	37G00460-06	LSL111CV	MCQUAY		$ -	HVAC
K03-AHU2	LESTER BLDG CU#2 AIR HANDLER #2	37GC0461-06	MSL111CV	MCQUAY		$ -	HVAC
K03-AHU3	LESTER BLDG CU#3 AIR HANDLER #3	37600462-04	LSL1140V	MCQUAY		$ -	HVAC
K03-AHU4	LESTER BLDG CU#4 AIR HANDLER #4	1.40E+12	RHGE-0752J	WEATHER KING		$ -	HVAC
K03-AHU5	LESTER BLDG CU#5 AIR HANDLER #5	930105	DRY 0230-1	DRY AIRE		$ -	HVAC
K03-CU1	LESTER BLDG CONDENSING UNIT #1	57G8504902	ALP019B	MCQUAY		$ -	HVAC
K03-CU2	LESTER BLDG CONDENSING UNIT #2	57G8504702	ALP015D	MCQUAY		$ -	HVAC
K03-CU3	LESTER BLDG CONDENSING UNIT #3	57G8504802	ALP015B	MCQUAY		$ -	HVAC
K03-CU4	LESTER BLDG CONDENSING UNIT #4	6.10E+13	RAWDA75CAZ	WEATHER KING		$ -	HVAC
K03-CU5	LESTER BLDG CONDENSING UNIT #5	N/A	N/A	DAYAIRE		$ -	HVAC
K03-ELEV-01	LESTER BLDG ELEVATOR #1	8880		CENTURY		$ -	ELEV
K03-ELEV-02	LESTER BLDG ELEVATOR #2	39503		MOWREY		$ -	ELEV
K03-FP	LESTER BLDG FIRE PUMP	93FP0168563		PATTERSON		$ -	FSS
K03A	CLERKS RECORDS STORAGE BUILDING						
K03A-AHU1	CLERKS RECORDS STORAGE AIR HANDLER #1	5192J68347	CB19/B19-65	LENNOX		$ -	HVAC
K03A-AHU2	CLERKS RECORDS STORAGE AIR HANDLER #2	5192L69881	CB17-135V-2	LENNOX		$ -	HVAC
K03A-AHU3	CLERKS RECORDS STORAGE AIR HANDLER #3	5192J71636	CB17-13SV-2	LENNOX		$ -	HVAC
K03A-AHU4	CLERKS RECORDS STORAGE AIR HANDLER #4	5192L72879	CB19-B19-65	LENNOX		$ -	HVAC

Equipment No.	Description	Serial No.	Model No.	MFG	Purchase Date	Original Cost	Equipment Type
K03A-CU1A	CLERKS RECORDS CONDENSING UNIT #1A	5192M00024	H519-513V-54	LENNOX		$ -	HVAC
K03A-CU1B	CLERKS RECORDS CONDENSING UNIT #1B	N/A	N/A	LENNOX		$ -	HVAC
K03A-CU2A	CLERKS RECORDS CONDENSING UNIT #2A	5192J04112	HS19-653V-4Y	LENNOX		$ -	HVAC
K03A-CU2B	CLERKS RECORDS CONDENSING UNIT #2B	5192M00025	HS19-513V-5Y	LENNOX		$ -	HVAC
K03A-CU3	CLERKS RECORDS CONDENSING UNIT #3	R334W113F	TTA060D300A1	TRANE		$ -	HVAC
K03A-CU4	CLERKS RECORDS CONDENSING UNIT #4	5192J04113	HS19-653V-4Y	LENNOX		$ -	HVAC
K03A-ELEV-01	CLERKS RECORD STORAGE ELEVATOR	46945				$ -	ELEV
K08-FUEL	KW COURTHOUSE GEN FUEL TANK UST-2000 GAL					$ -	GEN
K08-GEN	KW COURTHOUSE GENERATOR-500KW			CAT		$ -	GEN
K13	MAY HILL RUSSELL LIBRARY						
K13-AHU	MAY HILL RUSSELL LIBRARY	3792-2F18023	30GT-020-500	CARRIER		$ -	HVAC
K13-AHU1	MAY HILL RUSSELL LIBRARY	1591F56536	40RR016-540	CARRIER		$ -	HVAC
K13-AHU2	MAY HILL RUSSELL LIBRARY	1090F07304	50BU-012-520	CARRIER		$ -	HVAC
K13-CHILL	CHILLER--MAY HILL RUSSELL LIBRARY	3792-2F18023	30GT-020-500	CARRIER		$ -	HVAC
K13-CU1	MAY HILL RUSSELL LIBRARY	N/A	N/A	CARRIER		$ -	HVAC
K13-CU2	MAY HILL RUSSELL LIBRARY	N/A	N/A	CARRIER		$ -	HVAC
K14	HARVEY GOVT CENTER						
K14-AHU1	HARVEY GOVT CENTER AIR HANDLER #1	36H00765-04	LSL114DV	MCQUAY		$ -	HVAC
K14-AHU2	HARVEY GOVT CENTER AIR HANDLER #2	36H00755-04	LSL117DV	MCQUAY		$ -	HVAC
K14-AHU3	HARVEY GOVT CENTER AIR HANDLER #3	36H00754-06	LSL11CV	MCQUAY		$ -	HVAC
K14-AHU4	HARVEY GOVT CENTER AIR HANDLER #4	36H00757-04	LSL117DV	MCQUAY		$ -	HVAC
K14-AHU5	HARVEY GOVT CENTER AIR HANDLER #5	36H00758-04	LSL117DV	MCQUAY		$ -	HVAC
K14-CHILL	HARVEY GOVT CENTER CHILLER	56H8135401	ALS125A	MC QUAY		$ -	HVAC
K14-CHWP-01	HARVEY GOVT CENTER CHILL WATER PUMP #1	189508-1HM	M3311T	BALDOR		$ -	HVAC

Equipment No.	Description	Serial No.	Model No.	MFG	Purchase Date	Original Cost	Equipment Type
K14-CHWP-02	HARVEY GOVT CENTER CHILL WATER PUMP #2	189510-1HM	M3311T	BALDOR		$ -	HVAC
K14-ELEV	HARVEY GOVT CENTER ELEVATOR	51768		DOVER		$ -	ELEV
K14-FAS	HARVEY GOVT CENTER FIRE ALARM SYSTEM	139475-HQW	4100	SIMPLEX		$ -	FAS
K14-FP	HARVEY GOVT CENTER FIRE PUMP	137907N	10MAE	PEERLESS		$ -	FSS
K14-FSS	HARVEY GOVT CENTER FIRE SPRINKLER SYSTEM					$ -	FSS
K14-FUEL	GENERATOR UNDER GROUND FUEL TANK-10,000					$ -	GEN
K14-GEN	HARVEY GOVT CENTER GENERATOR-500KW	20ROZ-J8		KOHLER		$ -	GEN
K14A-AHU1	NUTRITION SITE CU#1 AIR HANDLER #1					$ -	HVAC
K14A-AHU2	NUTRITION SITE CU#2 AIR HANDLER #2					$ -	HVAC
K14A-CU1	NUTRITION SITE CONDENSING UNIT #1					$ -	HVAC
K14A-CU2	NUTRITION SITE CONDENSING UNIT #2					$ -	HVAC
K14A-FUEL	NUTRITION SITE GEN FUEL TANK					$ -	GEN
K14A-GEN	NUTRITION SITE GENERATOR-15W	15ROZ81		KOHLER		$ -	GEN
K19	KEY WEST AIRPORT						
K19A	KEY WEST AIRPORT ANNEX					$ -	ARPT
K19B	KEY WEST AIRPORT JOHNSON BLDG-KW1A					$ -	ARPT
K19C	KEY WEST AIRPORT JOHNSON BLDG HANGER					$ -	ARPT
K19D	KEY WEST AIRPORT AIR CARGO					$ -	ARPT
K19E-ELEV	KEY WEST ARFF BUILDING ELEVATOR	56599				$ -	ELEV
K22	ROAD SIGN TRAILER						
K22-PAC1	ROAD DEPT SIGN TRAILER PACKAGE AC#1	132J981258554-02	WA301-100	BARD		$ -	HVAC
K23	KEY WEST GARAGE						
K23-PAC1	KEY WEST GARAGE PACKAGE AC #1	55H8331Q282	36WA4	BARD		$ -	HVAC
K30	KEY WEST TEEN CENTER						

Equipment No.	Description	Serial No.	Model No.	MFG	Purchase Date	Original Cost	Equipment Type
K30-AHU1	KEY WEST TEEN CENTER CU#1 AIR HANDLER	2990V02504	40RE008-310	CARRIER		$ -	HVAC
K30-AHU2	KEY WEST TEEN CENTER CU#2 AIR HANDLER	1195F37936	40RM-016-B500GC	CARRIER		$ -	HVAC
K30-CU1	KEY WEST TEEN CENTER CONDENSING UNIT #1	3294G00032	38AKS008-501	CARRIER		$ -	HVAC
K30-CU2	KEY WEST TEEN CENTER CONDENSING UNIT #2	0595G00162	38AK-008-501	CARRIER		$ -	HVAC
K30-CU3	KEY WEST TEEN CENTER CONDENSING UNIT #3	4494G00081	38AK-008-501	CARRIER		$ -	HVAC
K36	PUBLIC DEFENDER						
K36-AHU1	PUBLIC DEFENDER CU#1 AIR HANDLER #1	361037810	BWE9366100DO	GEN ELEC		$ -	HVAC
K36-AHU2	PUBLIC DEFENDER CU#2 AIR HANDLER #2	0798F23653	40RM-012-B600HC	CARRIER		$ -	HVAC
K36-AHU3	PUBLIC DEFENDER CU#3 AIR HANDLER	2599A22547	FB4ANF036	CARRIER		$ -	HVAC
K36-CU1	PUBLIC DEFENDER CONDENSING UNIT#1	3694G40201	50SS-048-301	CARRIER		$ -	HVAC
K36-CU2	PUBLIC DEFENDER CONDENSING UNIT#2	5193G00105	38AK012500	CARRIER		$ -	HVAC
K36-CU3	PUBLIC DEFENDER CONDENSING UNIT #3	N/A	N/A	CARRIER		$ -	HVAC
K46	GATO BUILDING						
K46-ELEV	GATO BUILDING ELEVATOR	60239				$ -	ELEV
K51	FREEMAN JUSTICE BUILDING						
K53	TAX COLLECTOR--LICENSES (DMV)						
K58	COUNTY ATTORNEY OFFICE-PROFESSIONAL BLDG						
K61	HEALTH DEPARTMENT AT NORTHSIDE						
L01	TAVERNIER FIRE STATION						
L01-AHU1	TAVERNIER FIRE STATION AIR HANDLER 1	M3100	RCBA-6089AS24	RHEEM	09/07/00	$ 2,490	HVAC
L01-CU1	TAVERNIER FIRE STATION CONDENSING UNIT 1	M3100	RCBA-6089AS24	RHEEM	09/07/00	$ -	HVAC
L01-FUEL	TAVERNIER FIRE STATION GEN FUEL TANK					$ -	GEN
L01-GEN	TAVERNIER FIRE STATION GENERATOR-60KW					$ -	GEN

Equipment No.	Description	Serial No.	Model No.	MFG	Purchase Date	Original Cost	Equipment Type
L01-WAC-01	TAVERNIER FIRE STATION WINDOW AC #1	FK2479141608	HBJ180-A	HAMPTON BAY		$ -	WAC
L01-WAC-02	TAVERNIER FIRE WINDOW AC #2					$ -	
L01-WAC-03	TAVERNIER FIRE WINDOW AC #3					$ -	
L01A	TAVERNIER EMS					$ -	FIRE
L01A-WAC-01	TAVERNIER EMS WINDOW AC# 1	F1C249141608	HB1180	HAMPTON BAY		$ -	WAC
L01A-WAC-02	TAVERNIER EMS WINDOW AC #2	N/A	N/A	GOLDSTAR		$ -	WAC
L02	TAVERNIER HEALTH DEPT						
L02-AHU1	PK HEALTH DEPT AIR HANDLER 1					$ -	
L02-WAC-02	TAVERNIER HEALTH CLINIC WINDOW AC #2	JL1698512519	395F2AG	FEDDERS		$ -	WAC
L02-WAC-03	TAVERNIER HEALTH CLINIC WINDOW AC #3	910KA07030		GOLDSTAR	04/11/00	$ 144	WAC
L03	HARRY HARRIS PARK						
L03-WAC-02	HARRY HARRIS PARK CREW ROOM WINDOW AC #2	NA	NA	QUASAR		$ -	WAC
L03-WAC-03	HARRY HARRIS PARK OFFICE WINDOW AC #3	17S707961	NA	QUASAR		$ -	WAC
L03A	HARRY HARRIS PARK SEPTIC #1					$ -	STD
L03B	HARRY HARRIS PARK SEPTIC #2					$ -	STD
L03C	HARRY HARRIS PARK TRAILER					$ -	COLF
L03C-PAC1	HARRY HARRIS PARK TRAILER PACKAGE AC #1	1699G43723	5055-030-311AA	CARRIER		$ -	HVAC
L03D	HARRY HARRIS PARK BOAT RAMP					$ -	RAMP
L03E	HARRY HARRIS PARK TOLL BOOTH					$ -	P&BFAC
L03E-WAC-01	HARRY HARRIS PARK TOLL BOOTH WINDOW AC#1	1187880	RE-123A-2	COMFORT AIRE		$ -	WAC
L03E-WAC-02	HARRY HARRIS PARK CREW ROOM WINDOW A/C					$ -	HVAC
L03F	HARRY HARRIS PARK BALLFIELD					$ -	P&BFAC
L03G	HARRY HARRIS PARK BASKETBALL COURT					$ -	P&BFAC
L03H	HARRY HARRIS PARK RESTROOM					$ -	P&BFAC
L03I	HARRY HARRIS PARK PLAYGROUND					$ -	P&BFAC
L03J	HARRY HARRIS PARK CONCESSION STAND					$ -	P&BFAC
L03K	HARRY HARRIS PARK BEACH					$ -	P&BFAC
L04	KEY LARGO ANIMAL SHELTER						

Equipment No.	Description	Serial No.	Model No.	MFG	Purchase Date	Original Cost	Equipment Type
L04-WAC-01	KEY LARGO ANIMAL SHELTER OFFICE WAC #1	142909095	NO2101	QUASAR		$ -	WAC
L04-WAC-02	KEY LARGO ANIMAL SHELTER OFFICE WAC #2	NA	NA	GEN ELEC		$ -	WAC
L04-WAC-03	KEY LARGO ANIMAL SHELTER OFFICE WAC #3	142920274	HQ2101	QUASAR		$ -	WAC
L04-WAC-04	KEY LARGO ANIMAL SHELTER KENNELS WAC #4	1429202293	HQ2101K14	QUASAR		$ -	WAC
L04-WAC-05	KEY LARGO ANIMAL SHELTER KENNELS WAC #5	1429202751	HQ2101K14	QUASAR		$ -	WAC
L04-WAC-06	KEY LARGO ANIMAL SHELTER KENNELS W AC #6	P1180402R	100Z22TA	AMANA		$ -	WAC
L06	KEY LARGO LIBRARY						
L06-PAC1	KEY LARGO LIBRARY PACKAGE AC #1	3001G34176	50TFF008-V501	CARRIER		$ -	HVAC
L06-PAC2	KEY LARGO LIBRARY PACKAGE AC #2	3001F98825	50TJ-016-V580YA	CARRIER		$ -	HVAC
L06-PAC3	KEY LARGO LIBRARY PACKAGE AC #3	3101G21197	50TFF006-V501	CARRIER		$ -	HVAC
L06-PAC4	KEY LARGO LIBRARY PACKAGE AC #4	1900G30232	50TJ-008-V521	CARRIER		$ -	HVAC
L06-PAC5	KEY LARGO LIBRARY PACKAGE AC #5	2400G30342	507J-008-V521	CARRIER		$ -	HVAC
L07	CARD SOUND						
L07-FUEL	GENERATOR ABOVE GROUND FUEL TANK-200GAL					$ -	GEN
L07-GEN	CARD SOUND GENERATOR			KOHLER		$ -	GEN
L09	KEY LARGO FIRE STATION						
L09-AHU1	KEY LARGO FIRE STATION CU#1 AIR HANDLER	2895A05964	FK4BN8006	CARRIER		$ -	HVAC
L09-AHU2	KEY LARGO FIRE STATION CU#2 AIR HANDLER	2895A05972	FK4BN8006	CARRIER		$ -	HVAC
L09-CU1	KEY LARGO FIRE STATION CONDENING UNIT #1	3595E02596	38TDR048300	CARRIER		$ -	HVAC
L09-CU2	KEY LARGO FIRE STATION CONDENSING UNIT	3595E02584	3STDR048300	CARRIER		$ -	HVAC
L09-FUEL	KEY LARGO FIRE STATION GEN FUEL TANK					$ -	GEN
L09-GEN	KEY LARGO FIRE STATION GENERATOR					$ -	GEN
L09A	KEY LARGO FIRE STATION-OLD					$ -	FIRE

Equipment No.	Description	Serial No.	Model No.	MFG	Purchase Date	Original Cost	Equipment Type
L09A-PAC1	KEY LARGO FIRE STATION-OLD - PACKAGE AC	N/A	N/A	TEMPSTAR		$ -	HVAC
L10	FRIENDSHIP PARK						
L10A	FRIENDSHIP PARK BALL FIELD					$ -	P&BFAC
L10B	FRIENDSHIP PARK PLAYGROUND					$ -	P&BFAC
L10C	FRIENDSHIP PARK BASKETBALL COURT					$ -	P&BFAC
L10D	FRIENDSHIP PARK RESTROOMS					$ -	P&BFAC
L12	KEY LARGO TRANSLATOR SITE						
L12-PAC-01	KEY LARGO TRANSLATOR SITE PAC A.C UNIT 1					$ -	P&BFAC
L12-PAC-02	KEY LARGO TRANSLATOR SITE-PAC A.C. UNIT 2					$ -	P&BFAC
L12-WAC-01	KEY LARGO TRANSLATOR SITE WAC #1	NA	NA	KENMORE		$ -	WAC
L12-WAC-02	KEY LARGO TRANSLATOR SITE WAC #2	NA	NA	CARRIER		$ -	WAC
L13	KEY LARGO TRANSFER SITE						
L13-WAC-01	KEY LARGO TRANSFER SITE WAC #1					$ -	
L13-WAC-02	KEY LARGO TRANSFER SITE WAC #2					$ -	
L14A	BURR BEACH/ PARK					$ -	P&BFAC
L16	KEY LARGO COMMUNITY PARK						
L16A	KEY LARGO COMMUNITY PARK SHERIFF DUPLEX					$ -	COLF
L16A-PAC1	KEY LARGO PARK SHERIFF DUPLEX PACKAGE AC #1	4097A18567	FF1CNA024	CARRIER		$ -	HVAC
L16A-PAC2	KEY LARGO PARK SHERIFF DUPLEX PACKAGE AC #2	34900E14302	N/A	CARRIER		$ -	HVAC
L16B	KEY LARGO COMMUNITY PARK MAINT BLDG					$ -	P&BFAC
L16B-PAC1	KEY LARGO COMM PK MAINT BLDG PACKAGE AC	DL93729090989	HBQ080	HAMPTON BAY		$ -	HVAC
L16B-WAC-01	KEY LARGO PARK MAINT. BLDG.					$ -	HVAC
L16C	KEY LARGO COM PARK BALLFIELD					$ -	P&BFAC
L16D	KEY LARGO COM PARK TENNIS COURTS					$ -	P&BFAC
L16E	KEY LARGO COM PARK CONCESSION STAND					$ -	P&BFAC

Equipment No.	Description	Serial No.	Model No.	MFG	Purchase Date	Original Cost	Equipment Type
L16F	KEY LARGO COM PARK EXERCISE COURT					$ -	P&BFAC
L16G	KEY LARGO PARK AEROBIC TREATMENT PLANT					$ -	STD
L18	SUNSET POINT PARK						
L22	KEY LARGO TAX COLLECTOR/DMV						
L22-PAC1	KEY LARGO TAX COLL/LIC BUR PACKAGE AC	NA	50CD900570	WEATHER MAKE		$ -	HVAC
L23	COMMISSION NELSON OFFICE						
L23-AHU1	COMMISSIONER NELSON OFFICE AIR HANDLER #1					$ -	HVAC
L25	KEY LARGO GOVERNMENT CENTER						
L27	MURRAY NELSON BLDG						
L27-AHU-01	AIR HANDLER #1-MURRAY NELSON BLDG	1708011363	39MN14C010C3V22XC5	CARRIER		$ -	HVAC
L27-AHU-02	AIR HANDLER #2-MURRAY NELSON BLDG					$ -	HVAC
L27-AHU-03	AIR HANDLER #3-MURRAY NELSON BLDG	1608V10814	39LD18AA-AR-BHJ-E9	CARRIER		$ -	HVAC
L27-AHU-O6	AIR HANDLER #6 -MURRAY NELSON BLDG					$ -	HVAC
L27-CHILL	CHILLER SYSTEM -MURRAY NELSON BLDG	1508009026	30HXCO96RY-561	CARRIER		$ -	HVAC
L27-CHWP-01	CHILL WATER PUMP #1-MURRAY NELSON BLDG		SEALED			$ -	HVAC
L27-CHWP-02	CHILL WATER PUMP #02-MURRAY NELSON BLDG		SEALED			$ -	HVAC
L27-CIS	CHEMICAL INJECTION SYSTEM-MURRAY NELSON	NJ-102	ACR-20B			$ -	HVAC
L27-CT	COOLING TOWER SYSTEM(EVAPCO)-MURRAY NELSON BLDG	7-311685	ATW-77-51-2	EVAPCO		$ -	HVAC
L27-CTPUMP-01	COOLING TOWER CONDENSER PUMP #1			TASCO		$ -	HVAC
L27-CTPUMP-02	COOLING TOWER CONDENSER PUMP #2			TASCO		$ -	HVAC
L27-FCU-07	FAN COIL UNIT #07 -MURRAY NELSON BLDG					$ -	HVAC
L27-GEN	GENERATOR-MURRAY NELSON BLDG					$ -	GEN

Equipment No.	Description	Serial No.	Model No.	MFG	Purchase Date	Original Cost	Equipment Type
LO2A	TAVERNIER HEALTH CLINIC TRAILER					$ -	BLDG
LONG	LONG KEY LANDFILL					$ -	BLDG
M10	MARATHON SUBSTATION						
M10-AHU1	MARATHON SUBSTATION CU#1 AIR HANDLER #1	TM180033167	RBHA-17J11NUDAI	RHEEM		$ -	HVAC
M10-AHU2	MARATHON SUBSTATION CU#2 AIR HANDLER #2	114G03940145	WHGME-150ZK	WEATHER KING		$ -	HVAC
M10-AHU3A	MARATHON SUBSTATION CU#3 AIR HANDLER #3A	112634	KMS 0912	SANYO		$ -	HVAC
M10-AHU3B	MARATHON SUBSTATION CU#3 AIR HANDLER #3B	111134	KMS 0912	SANYO		$ -	HVAC
M10-AHU4	MARATHON SUBSTATION CU#4 AIR HANDLER #4	11451	KS1822	SANYO		$ -	HVAC
M10-AHU5	MARATHON SUBSTATION CU#3 AIR HANDLER #5	N/A	N/A	ARCO		$ -	HVAC
M10-CU1	MARATHON SUBSTATION CONDENSING UNIT #1	5035-G31920071	WANLA-030JAS	WEATHER KING		$ -	HVAC
M10-CU2	MARATHON SUBSTATION CONDENSING UNIT #2	N/A	N/A	TRANE		$ -	HVAC
M10-CU3	MARATHON SUBSTATION CONDENSING UNIT #3	16041	CM1812	SANYO		$ -	HVAC
M10-CU4	MARATHON SUBSTATION CONDENSING UNIT #4	27551	C1822	SANYO		$ -	HVAC
M10-CU5	MARATHON SUBSTATION CONDENSIING UNIT #5	E033145488	NA CO24AKB2	ARCO	01/25/01	$ 4,456	HVAC
M10-FUEL	GENERATOR ABOVE GROUND FUEL TANK-500GAL					$ -	GEN
M10-GEN	MARATHON SUBSTATION GENERATOR-60KW	60ROZJ81		KOHLER		$ -	GEN
M10A-AHU1	MARATHON TAX COLLECTOR CU#1 AIR HANDLER	4991M17931440	WBEMA-24J105UBAI	WEATHER KING		$ -	HVAC
M10A-CU1	MARATHON TAX COLLECTOR CONDENSING UNIT#1	7305 M0807 05878	RAND060CAZ	RHEEM		$ -	HVAC
M11	MARATHON SUB COURTHOUSE						
M11-AHU1	MARATHON SUB-CTHS CU#1 AIR HANDLER	TM159T5200	RBEA-21J10NUTAT	RHEEM		$ -	HVAC
M11-AHU2	MARATHON SUB-CTHS CU#2 AIR HANDLER	TM15955201	RBEA-21J10NUTAT	RHEEM		$ -	HVAC
M11-AHU3	MARATHON SUB-CTHS CU#3 AIR HANDLER	5480101886	C1051165-1	LENNOX		$ -	HVAC

Equipment No.	Description	Serial No.	Model No.	MFG	Purchase Date	Original Cost	Equipment Type
M11-AHU4	MARATHON SUB-CTHS CU#4 & 5 AIR HANDLER	3591F71033	40RR01255	CARRIER		$ -	HVAC
M11-AHU5	MARATHON SUB-CTHS CU#6 AIR HANDLER	980801376	WMC-24-1KFAJ	GOODMAN		$ -	HVAC
M11-AHU7	MARATHON SUB-CTHS CU#1 AIR HANDLER	4002590	ASU-12C1	FUJITSU		$ -	HVAC
M11-CU1	MARATHON SUB-CTHS CONDENSING UNIT #1	9607091165	CK36-3B	JANITROL		$ -	HVAC
M11-CU2	MARATHON SUB-CTHS CONDENSING UNIT #2	4986M299819815	RAKA-048CAS	RHEEM		$ -	HVAC
M11-CU3	MARATHON SUB-CTHS CONDENSING UNIT #3	4968M17946530	RAKA-048CAS	RHEEM		$ -	HVAC
M11-CU4	MARATHON SUB-CTHS CONDENSING UNIT #4	4991M44944648	RAKA-060-CAS	RHEEM		$ -	HVAC
M11-CU5	MARATHON SUB-CTHS CONDENSING UNIT #5	4991M09953681	RAKA-060CAS	RHEEM		$ -	HVAC
M11-CU6	MARATHON SUB-CTHS CONDENSING UNIT #6	9902539194	HDC24-1AB	GOODMAN		$ -	HVAC
M11-CU7	MARATHON SUB-CTHS CONDENSING UNIT #7	4004484	A0U12C1	FUJITSU		$ -	HVAC
M11A	MARATHON TEMP COURTROOM					$ -	BLDG
M11A-PAC1	MARATHON TEMP COURTROOM PACKAGE AC #1	N/A	MAC36AA10	BARD		$ -	HVAC
M11A-PAC2	MARATHON TEMP COURTROOM PACKAGE AC #2	058P880570267	MAC36AA10	BARD		$ -	HVAC
M11B	MARATHON MCSO TRANSMITTOR ROOM					$ -	BLDG
M12	MARATHON SUBSTATION GENERATOR BLDG						
M13	MARATHON CLERK OF COURT						
M13-CU2	CONDENSING UNIT #2-MARATHON CLERK OF COURT	404KAM200307	LS-J0910CL	LG		$ -	HVAC
M13-PAC1	MARATHON CLERK OF COURT PACKAGE AC #1	153K00150790-02	WA60A00	BARD		$ -	HVAC
M13-PAC2	PACKAGE AC UNIT -MARATHON CLERK OF COURT	412 KAXV00210	LS-J0910CL	LG		$ -	HVAC
M14	MARATHON LIBRARY						
M14-PAC1	MARATHON LIBRARY PACKAGE AC #1	6626F040411556	RLKBA180CL000	RHEEM		$ -	HVAC
M14-PAC2	MARATHON LIBRARY PACKAGE AC #2	3804G40311	50TFF004-V311	CARRIER		$ -	HVAC

Equipment No.	Description	Serial No.	Model No.	MFG	Purchase Date	Original Cost	Equipment Type
M14-PAC3	MARATHON LIBRARY PACKAGE AC #3	322302	CPC090003B	COLD PACK		$ -	HVAC
M15	MARATON SENIOR CITIZEN AARP						
M15-AHU-01	AIR HANDLER UNIT #1--A.A.R.P.	TM320103213	RBHC-24J11NFB	RHEEM		$ -	HVAC
M15-CU1	CONDENSING UNIT--A.A.R.P.	6798P260115416	RAKA-060-5AZ	RHEEM		$ -	HVAC
M15-FUEL	GENERATOR ABOVE GROUND FUEL TANK-100 GAL					$ -	GEN
M15-GEN	MARATHON SENIOR CITIZEN GENERATOR-15KW					$ -	GEN
M16	SOMBRERO BEACH						
M16A	SOMBRERO BEACH TRAILER					$ -	COLF
M16A-PAC1	SOMBRERO BEACH TRAILER PACKAGE AC#1	3496G41294	50SS-042-301			$ -	HVAC
M16B	SOMBRERO BEACH PLAYGROUND					$ -	P&BFAC
M16C	SOMBRERO BEACH RESTROOM					$ -	P&BFAC
M16D	SOMBRERO BEACH PIER					$ -	P&BFAC
M16E	SOMBRERO BEACH SEPTIC					$ -	STD
M17C	MAR CHAMBER OF COMMERCE BEACH					$ -	P&BFAC
M19	MARATHON FIRE STATION						
M19-WAC-01	MARATHON FIRE STATION WINDOW AC #1	028056942G	AK14C6RVA	GIBSON		$ -	WAC
M19-WAC-02	MARATHON FIRE STATION WINDOW AC #2	CL9077030909	HBJ180-D	HAMPTON BAY		$ -	WAC
M19-WAC-03	MARATHON FIRE STATION WINDOW AC #3	DK825811-1108	HBD250	HAMPTON BAY		$ -	WAC
M21	MARATHON PUBLIC WORKS COMPLEX						
M21-GEN	MARATHON PUBLIC WORKS COMPLEX GENERATOR					$ -	GEN
M21A-AHU1	MARATHON PUBLIC WORKS CU#1 AIR HANDLER#1					$ -	HVAC
M21A-CU1	MARATHON PUBLIC WORKS CONDENSING UNIT #1	L362WOKCE	7A0042A100AO	AMERICAN		$ -	HVAC
M21A-ICE	MARATHON PUBLIC WORKS ICE MACHINE	940263247	BY0324AS	MANITOWOC		$ -	ICE
M21A-WAC-01	MARATHON PUBLIC WORKS SUPERVISOR OFC WAC	NA	NA	TEKNIKA		$ -	WAC
M21C-PAC1	MARATHON COMMUNICATIONS PACKAGE AC#1	225PO31870302-02	WA372-A00	BARD		$ -	HVAC

Equipment No.	Description	Serial No.	Model No.	MFG	Purchase Date	Original Cost	Equipment Type
M21C-WAC-01	MARATHON COMMUNICATIONS OFFICE WAC #1	CL8452050839	HBQ080	HAMPTON BAY		$ -	WAC
M21C-WAC-02	MARATHON COMMUNICATIONS SHOP WAC #2	1426909028	HQ2082KH	QUASAR		$ -	WAC
M21C-WAC-03	MARATHON COMMUNICATIONS SHOP WAC #3	1426911480	HQ2087KH	QUASAR		$ -	WAC
M21C-WAC-04	MARATHON COMMUNICATIONS SHOP WAC #4	AB1553829	ACEQB2XXD	WHIRLPOOL		$ -	WAC
M21C-WAC-05	MARATHON COMMUNICATIONS STORAGE WAC #5	NA	NA	WHITE WESTIN		$ -	WAC
M22	MARATHON GARAGE						
M22-AHU1	MARATHON GARAGE CU#1 AIR HANDLER	6893AD2210	EB4ANF048	CARRIER		$ -	HVAC
M22-AHU2	MARATHON GARAGE CU#2 AIR HANDLER	4893A02075	EB4ANF048	CARRIER		$ -	HVAC
M22-CU1	MARATHON GARAGE CONDENSING UNIT #1	0294E04093	38TRA048300	CARRIER		$ -	HVAC
M22-CU2	MARATHON GARAGE CONDENSING UNIT #2	0294E04151	38TRA048300	CARRIER		$ -	HVAC
M22-FUEL	GENERATOR ABOVE GROUND FUEL TANK-1000GAL					$ -	GEN
M22-GEN	MARATHON GARAGE GENERATOR-100KW			SPECTRUM		$ -	GEN
M23	MARATHON ANIMAL SHELTER						
M24	MARATHON OLD FIRE STATION						
M24-WAC-01	MARATHON OLD FIRE STATION EMS WAC #1	NA	NA	GOLDSTAR		$ -	WAC
M24-WAC-02	MARATHON FIRE STATION EMS SHED WAC #2	88BB5-61200098-2-6D146	LW-L1010CL	GOLDSTAR		$ -	WAC
M26	CONCH KEY FIRE STATION						
M26-WAC-01	CONCH KEY FIRE STATION EMS WAC #1	GR844912	AJK08AHV4	GEN ELEC		$ -	WAC
M26-WAC-02	CONCH KEY FIRE STATION EMS WAC #2	ZR839089	AJK08AHV4	GEN ELEC		$ -	WAC
M28	GRASSY KEY TRANSLATOR SITE						
M29	GRASSY KEY PARK						
M30	MARATHON TEEN CENTER AND YACHT CLUB						
M30-AHU2	MARATHON TEEN CENTER-AIR HANDLER #2					$ -	HVAC
M31	MARATHON DAV BLDG						

Equipment No.	Description	Serial No.	Model No.	MFG	Purchase Date	Original Cost	Equipment Type
M31-FUEL	MARATHON DAV BLDG GEN FUEL TANK					$ -	GEN
M31-GEN	MARATHON DAV BLDG GENERATOR					$ -	GEN
M34	VETERANS MEMORIAL PARK						
M34A	VETERANS MEMORIAL PARK AEROBIC PLANT					$ -	STD
M34B	VETERANS MEMORIAL PARK BEACH					$ -	P&BFAC
M35	MARATHON JAIL						
M35-AHU1	MARATHON JAIL AIR HANDLER #1	MO700	RCBA-6089A524	RHEEM		$ -	HVAC
M35-CU2	MARATHON JAIL RHEEM CENTRAL A/C IN ADM WING	5721M230011275	RAKA-060JAZ	RHEEM		$ -	HVAC
M35-DRY-01	MARATHON JAIL DRYER #1 IN DORM A	14815662GJ	MDE21PNDY	MAYTAG		$ -	LAUN
M35-DRY-02	MARATHON JAIL DRYER #2 IN DORM B	MT4815220	GEW9250PW1	WHIRLPOOL		$ -	LAUN
M35-FP	MARATHON JAIL FIRE PUMP					$ -	
M35-FUEL	MARATHON JAIL GENERATOR A/ GROUND FUEL TANK-500GAL					$ -	GEN
M35-GATE	MARATHON JAIL AUTOMATIC VEHICLE GATE	517281	550-22L1H	STAN		$ -	SEC
M35-GEN	MARATHON JAIL EMERGENCY GENERATOR	20660	200 KW	TAYLOR	01/29/07	$ 40,890	GEN
M35-PAC1	MARATHON JAIL PACKAGE A/C IN DORM A	156A001427426-O2	WA482-B00	BARD		$ -	HVAC
M35-PAC2	MARATHON JAIL PACKAGE A/C IN DORM A	221N@41977696-02	WA848-B00	BARD		$ -	HVAC
M35-PAC3	MARATHON JAIL PACKAGE A/C IN DORM B	156L991389991-02	WA482-B00	BARD		$ -	HVAC
M35-PAC4	MARATHON JAIL PACKAGE A/C IN DORM B	15601494110-02	WA452-B00	BARD		$ -	HVAC
M35-WASH-01	MARATHON JAIL WASHER #1 IN DORM A	CSUE004556	WFW9200SQ02	WHIRLPOOL		$ -	LAUN
M35-WASH-02	MARATHON JAIL WASHER #2 IN DORM B	19259738GL	MAH21PNDUW	MAYTAG		$ -	LAUN
M37	MARATHON GOVT CENTER ANNEX						
M37-AHU1	MARATHON GOVT CENTER ANNEX CU#1 AIR HANDLER	LB51207CB	CB17135V-1	LENNOX		$ -	HVAC
M37-AHU2	MARATHON GOVT CENTER ANNEX CU#2 AIR HANDLER	N/A	CB17595V-1	LENNOX		$ -	HVAC

Equipment No.	Description	Serial No.	Model No.	MFG	Purchase Date	Original Cost	Equipment Type
M37-AHU3	MARATHON GOVT CENTER ANNEX CU#3 AIR HANDLER	M111LDC1V	TWE060C15FC1	AMERICAN		$ -	HVAC
M37-AHU4	MARATHON GOVT CENTER ANNEX CU#4 AIR HANDLER	N/A	N/A	LENNOX		$ -	HVAC
M37-CU1	MARATHON GOVT CENTER ANNEX CONDENSING UNIT #1	M031XA6AH	TTA120A300BC	AMERICAN		$ -	HVAC
M37-CU2	MARATHON GOVT CENTER ANNEX CONDENSING UNIT #2	5186605506	HS179531Y	LENNOX		$ -	HVAC
M37-CU3	MARATHON GOVT CENTER ANNEX CONDENSING UNIT #3	5721M199610-726	RAKA-06010726	RHEEM		$ -	HVAC
M37-CU4	MARATHON GOVT CENTER ANNEX CONDENSING UNIT #4	L362WWUCF	7A0042A100A0	AMERICAN		$ -	HVAC
M37-FUEL	MARATHON GOVT CENTER ANNEX GEN FUEL TANK-500GAL					$ -	GEN
M37-GEN	MARATHON GOVT CENTER ANNEX GENERATOR-100KW			KOHLER		$ -	GEN
M38	MARATHON GOVT CENTER						
M38-AHU1-A	MAR GOVT CENTER AIR HANDLER #1A	28LX1638FA1166JR	39LD2213AB1141T	CARRIER		$ -	HVAC
M38-AHU2-A	MAR GOVT CENTER AIR HANDLER #2A	3892T27304	39LD1153BB1031-L	CARRIER		$ -	HVAC
M38-AHU2-B	MAR GOVT CENTER AIR HANDLER #2B	3892T27805	39LF2183AB1133-R	CARRIER		$ -	HVAC
M38-CU1-A	MAR GOVT CENTER CONDENSING UNIT #1A	4199F55886	38AK-5044-C600	TEMPTROL		$ -	HVAC
M38-CU2-A	MAR GOVT CENTER CONDENSING UNIT #2A	3797F95568	38AH-024-600AC	CARRIER		$ -	HVAC
M38-CU2-B	MAR GOVT CENTER CONDENSING UNIT #2B	38AK$024--C72329	2103F33186	CARRIER		$ -	HVAC
M38-EFBD-02	MAR GOVT CENTER EXHAUST FAN BELT DRIVE#2					$ -	HVAC
M38-EFBD-03	MAR GOVT CENTER EXHAUST FAN BELT DRIVE#3		CARMESVCBD15			$ -	HVAC
M38-EFBD-04	MAR GOVT CENTER EXHAUST FAN BELT DRIVE#4					$ -	HVAC
M38-EFBD-05	MAR GOVT CENTER EXHAUST FAN BELT DRIVE#5		CAEMES-LEDA24M4			$ -	HVAC
M38-EFDD-01	MAR GOVT CENTER EXHAUST FAN DIRECT DRIVE					$ -	HVAC
M38-ELEV	MAR GOVT CENTER ELEVATOR	46473		DOVER		$ -	ELEV

Equipment No.	Description	Serial No.	Model No.	MFG	Purchase Date	Original Cost	Equipment Type
M38-FUEL	MAR GOVT CENTER GENERATOR FUEL TANK-1000GAL					$ -	GEN
M38-GEN	MAR GOVT CENTER GENERATOR	180ROZJ101		KOHLER		$ -	GEN
M40	MARATHON HEALTH DEPT						
M40-AHU1	MARATHON HEALTH DEPT CU#1 AIR HANDLER	1896F03848	40RM-007-B600HC	CARRIER		$ -	HVAC
M40-AHU2	MARATHON HEALTH DEPT CU#2 AIR HANDLER	43906F36471	40RM-007-B600HC	CARRIER		$ -	HVAC
M40-CU1	MARATHON HEALTH DEPT CONDENSING UNIT #1	5096G00098	38AK-007-0501	CARRIER		$ -	HVAC
M40-CU2	MARATHON HEALTH DEPT CONDENSING UNIT #2	5096G00095	38AK-007-C501	CARRIER		$ -	HVAC
M43	MARATHON AIRPORT						
M43-ELEV	MARATHON AIRPORT ELEVATOR	47834				$ -	ELEV
M49	MARATHON COMMUNITY PARK						
M49A	MARATHON COMMUNITY PARK BALLFIELDS					$ -	P&BFAC
M49B	MARATHON COMMUNITY PARK TENNIS COURTS					$ -	P&BFAC
M49C	MARATHON COMMUNITY PARK PLAYGROUNDS					$ -	P&BFAC
M49D	MARATHON COMMUNITY PARK BASKETBALL COURTS					$ -	P&BFAC
M50	MARATHON STATE ATTORNEY						
M50-AHU1	MARATHON STATE ATTY CU#1 AIR HANDLER#1	TM42957933	REBA-17J105LBAI	RHEEM		$ -	HVAC
M50-AHU2	MARATHON STATE ATTY CU#2 AIR HANDLER#2	TM0887-5733	PBEA-14100PS	RHEEM		$ -	HVAC
M50-AHU3	MARATHON STATE ATTY CU#3 AIR HANDLER#3	N/A	RBEA-17J10NUEAI	RHEEM		$ -	HVAC
M50-CU1	MARATHON STATE ATTY CONDENSING UNIT #1	5429M199711873	RAKA-037-JA2	RHEEM		$ -	HVAC
M50-CU2	MARATHON STATE ATTY CONDENSING UNIT #2	N/A	N/A	RHEEM		$ -	HVAC
M50-CU3	MARATHON STATE ATTY CONDENSING UNIT #3	5461M10=99710853	RAKA-042-JA2	RHEEM		$ -	HVAC
M50A-AHU1	MARATHON PUBLIC DEFEND CU#1 AIR HANDLER	TM08875771	REBA-1410BC5	RHEEM		$ -	HVAC
M50A-AHU2	MARATHON PUBLIC DEFEND CU#2 AIR HANDLER	TM0887-5791	REBA-1410B05	RHEEM		$ -	HVAC

Equipment No.	Description	Serial No.	Model No.	MFG	Purchase Date	Original Cost	Equipment Type
M50A-CU1	MARATHON PUBLIC DEFEND CONDENSING UNIT#1	N/A	NA/	RHEEM		$ -	HVAC
M50A-CU2	MARATHON PUBLIC DEFEND CONDENSING UNIT#2	N/A	N/A	RHEEM		$ -	HVAC
M52	JOE LONDON FIRE TRAINING FACILITY						
M53	SHERIFF FIRING RANGE						
M58	DEPT OF MOTOR VEHICLES-MARATHON						
M60	MARATHON AVIATION HANGER						
M60-AHU1	AIR HANDLER #1--MARATHON HANGER	M4202	RCBA 4882GG21	RHEEM		$ -	HVAC
M60-AHU2	AIR HANDLER #2--MARATHON HANGER	M4202	RCBA 4882GG21	RHEEM		$ -	HVAC
M60-AHU3	AIR HANDLER #3--MARATHON HANGER	T M0403 02156	RBHC 21J14SFC	RHEEM		$ -	HVAC
M60-AHU4	AIR HANDLER #4--MARATHON HANGER	M 4202	RCBA 6089GG24	RHEEM		$ -	HVAC
M60-CU1	CONDENSING UNIT #1-MARATHON HANGER	5432 M1403 15247	RAKA-048JAZ	RHEEM		$ -	HVAC
M60-CU2	CONDENSING UNIT #2-MARATHON HANGER	5432 M1403 15247	RAKA-048JAZ	RHEEM		$ -	HVAC
M60-CU3	CONDENSING UNIT #3-MARATHON HANGER	5432 M1403 15246	RAKA 048 JAZ	RHEEM		$ -	HVAC
M60-CU4	CONDENSING UNIT #4-MARATHON HANGER	5721 M1403 15024	RAKA 060 JAZ	RHEEM		$ -	HVAC
M60-ELEV	SHERIFFS AVIATION HANGAR ELEVATOR	74025				$ -	ELEV
M61	FIRE RESCUE/EMS						
M62	MEDICAL EXAMINER BLDG						
M62-AHU1	MEDICAL EXAMINER AIR HANDLER UNIT #1	K06K22746A	MCCB006UA	TRANE		$ -	HVAC
M62-AHU2	MEDICAL EXAMINER AIR HANDLER UNIT #1	K06K22746A	MCCB006UA	TRANE		$ -	HVAC
M62-AHU3	MEDICAL EXAMINER AIR HANDLER UNIT #2	K06K22740A	MCCB006UA	TRANE		$ -	HVAC
M62-AHU4	MEDICAL EXAMINER AIR HANDLER UNIT #4	K06K22752A	MCCB003UA	TRANE		$ -	HVAC
M62-CHILL	MEDICAL EXAMINER CHILLER	CO6K10604	CG AFC 60 EAL	TRANE		$ -	HVAC
M62-GEN	GENERATOR --GRASSY KEY MEDICAL EXAMINER					$ -	

Equipment No.	Description	Serial No.	Model No.	MFG	Purchase Date	Original Cost	Equipment Type
M99	SHERIFF SPECIAL OPERATIONS						
P01	ISLAMORADA LIBRARY						
P01-PAC1	ISLAMORADA LIBRARY PACKAGE AC #1	0221697A	B1R760D100A1	GEN ELEC		$ -	HVAC
P01-PAC2	ISLAMORADA LIBRARY PACKAGE AC #2	572TM279607267	WAKA-060-JAZ	WEATHER KING		$ -	HVAC
P01-WAC-01	ISLAMORADA LIBRARY LOUNGE WAC #1	AK3628910148	HBD-24-H	HAMPTON BAY		$ -	WAC
P01-WAC-02	ISLAMORADA LIBRARY OFFICE WAC #2	1447801425	HQ2101MH	QUASAR		$ -	WAC
P01-WAC-03	ISLAMORADA LIBRARY WAC #3	004KAO3340		HAMPTON BAY	09/12/00	$ 549	WAC
P01-WAC-04	ISLAMORADA LIBRARY WAC #4	JL2312512589	A3T12F2AG	FEDDERS		$ -	WAC
P03	PK SUBSTATION						
P03-AHU1	PK SUBSTATION AIR HANDLER #1	176068	BWE090C100C2	GEN ELEC		$ -	HVAC
P03-AHU2	PK SUBSTATION AIR HANDLER #2	58960D06845	CB30M-21/26-1P	LENNOX		$ -	HVAC
P03-CU1	PK SUBSTATION CONDENSING UNIT #1	32540AFAD	TTA090A300FA	TRANE		$ -	HVAC
P03-CU2	PK SUBSTATION CONDENSING UNIT #2	5896D-28172	HS29-261-2P	LENNOX		$ -	HVAC
P03-FUEL	PK SUBSTATION GENERATOR FUEL TANK-500GAL					$ -	GEN
P03-GEN	PK SUBSTATION GENERATOR-60KW			KOHLER		$ -	GEN
P03-PAC1	PK SUBSTATION PACKAGE AC #1	1993675410	555ANX048000AA	BRYANT		$ -	HVAC
P03A	PK SHERIFF DETECTIVE TRAILER					$ -	MCSO
P03A-PAC1	PK SUBSTATION PACKAGE AC #2	058C8905859	MA036A-A10	BARD		$ -	HVAC
P03A-PAC2	PK SUBSTATION PACKAGE AC #3	058C8905869	MA037A-A10	BARD		$ -	HVAC
P04	PK COURTHOUSE						
P04-AHU1	PK COURTHOUSE CU#1 AIR HANDLER	F22334441	TUV04BB140AO	TRANE		$ -	HVAC
P04-AHU2	PK COURTHOUSE CU#2 AIR HANDLER	E51348652	TUV036B140A0	TRANE		$ -	HVAC
P04-AHU3	PK COURTHOUSE-AIR HANDLER #3					$ -	BLDG
P04-AHU4	PK COURTHOUSE-AIR HANDLER #4					$ -	P&BFAC
P04-AHU5	PK COURTHOUSE-AIR HANDLER #5					$ -	HVAC
P04-CU1	PK COURTHOUSE CONDENSING UNIT #1	X1720817	BTD724A100G0	TRANE		$ -	HVAC
P04-CU2	PK COURTHOUSE CONDENSING UNIT #2	BTR724E100A0	S26204007	LENNOX		$ -	HVAC
P04-CU3	PLANTATION COURTHOUSE					$ -	BLDG

Equipment No.	Description	Serial No.	Model No.	MFG	Purchase Date	Original Cost	Equipment Type
P04-CU4	PK COURTHOUSE-CONDENSING UNIT #4	S26204007	BTR724E100A0	TRANE		$ -	HVAC
P04-CU5	PK COURTHOUSE-CONDENSING UNIT #5					$ -	HVAC
P04-CU6	PK COURTHOUSE-CONDENSING UNIT #6					$ -	HVAC
P04-ELEV	PK COURTHOUSE ELEVATOR	37641				$ -	ELEV
P04-FUEL	GENERATOR UNDERGROUND FUEL TANK-2500GAL					$ -	GEN
P04-GEN	PK COURTHOUSE GENERATOR--325KW			ONAN		$ -	GEN
P04-PAC1	PK COURTHOUSE PACKAGE AC #1	2494T2D1V	TWE08GP13F80	TRANE		$ -	HVAC
P04-PAC2	PK COURTHOUSE PACKAGE AC #3	5697E03052	LSA-180C-1Y	LENNOX		$ -	HVAC
P04-PAC3	PK COURTHOUSE PACKAGE AC #4	2196G20955	558DPX048000AAAA	BRYANT		$ -	HVAC
P04-PAC4	PK COURTHOUSE PACKAGE AC #6	Y17208817	BTD724A100C0	TRANE		$ -	HVAC
P04-WAC-01	PK COURTHOUSE WINDOW AC #1	102C910676303	121001-A00NP	BARD		$ -	WAC
P04-WAC-02	PK COURTHOUSE WINDOW AC #2	NA	HBQ051A	HAMPTON BAY		$ -	WAC
P04-WAC-03	PK COURTHOUSE WINDOW AC #3	NA	HBQ051A	HAMPTON BAY		$ -	WAC
P04-WAC-04	PK COURTHOUSE WINDOW AC #4	JL1697962519	83Q05F2AG	FEDDERS		$ -	WAC
P04-WAC-05	PK COURTHOUSE WINDOW AC #5	EK9819261398	HBQ051A	HAMPTON BAY		$ -	WAC
P04-WAC-06	PK COURTHOUSE WINDOW AC #6	EK9819071398	HBQ051A	HAMPTON BAY		$ -	WAC
P04A-PAC1	PK COURTHOUSE TEMP COURTROOM PACKAGE AC #1	N/A	NA/	BARD		$ -	HVAC
P04A-PAC2	PK COURTROOM B--A/C PACKAGE UNIT #2					$ -	P&BFAC
P04A-PAC3	PK COURTROOMB-A/C PACKAGE UNIT #3					$ -	P&BFAC
P05	PK SOCIAL SERVICES						
P05-AHU1	PK SOCIAL SERVICES BLDG AIR HANDLER #1	J15876479	TWE060C15FCO	TRANE		$ -	HVAC
P05-AHU2	PK CODE ENFORCEMENT AIR HANDLER #2	J02849950		TRANE		$ -	HVAC
P05-CU1	PK SOCIAL SERVICES BLDG CONDENSING UNIT #1	J04225401	XE1000	TRANE		$ -	HVAC
P05-CU2	PK CODE ENFORCEMENT CONDENSING UNIT #2	J12226796	XE1000	TRANE		$ -	HVAC
P05-WAC-01	PK CODE ENFORCEMENT WINDOW AC #1	NA	NA	QUASAR		$ -	WAC
P05-WAC-02	PK DOMESTIC ABUSE WINDOW AC #2	AL695683-02999	HBT1-20-S	HAMPTON BAY		$ -	WAC

Equipment No.	Description	Serial No.	Model No.	MFG	Purchase Date	Original Cost	Equipment Type
P10	PK SENIOR CITIZEN						
P10-AHU1	PK SENIOR CITIZEN AIR HANDLER #1	5896B24550	CB30M651P	LENNOX		$ -	HVAC
P10-CU1	PK SENIOR CITIZEN CENTER--CONDENSING UNIT #1	5898B14302	12AGB602P	LENNOX		$ -	HVAC
P10-FUEL	GENERATOR INTEGRAL FUEL TANK-100GAL					$ -	GEN
P10-GEN	PK SENIOR CITIZEN CENTER GENERATOR-15KW			KOHLER		$ -	GEN
P15	JERRY ELLIS BLDG						
P15-AHU1	JERRY ELLIS BLDG CU#1 AIR HANDLER	N/A	N/A	LENNOX		$ -	HVAC
P15-AHU2	JERRY ELLIS BLDG CU#2 AIR HANDLER	N/A	N/A	TRANE		$ -	HVAC
P15-AHU3	JERRY ELLIS BLDG CU#3 AIR HANDLER	N/A	N/A	LENNOX		$ -	HVAC
P15-AHU4	JERRY ELLIS BLDG CU#4 AIR HANDLER	N/A	N/A	TRANE		$ -	HVAC
P15-CU1	JERRY ELLIS BLDG CONDENSING UNIT #1	5697E06020	LSAO90C 1-4	LENNOX		$ -	HVAC
P15-CU2	JERRY ELLIS BLDG CONDENSING UNIT #2	34020 8305	BTAO 72 B30080	TRANE		$ -	HVAC
P15-CU3	JERRY ELLIS BLDG CONDENSING UNIT #3	5699C01636	LSA072C-1Y	LENNOX		$ -	HVAC
P15-CU4	JERRY ELLIS BLDG CONDENSING UNIT #4	CANNOT BE READ		TRANE		$ -	HVAC
P15-ELEV	JERRY ELLIS ELEVATOR	40616				$ -	ELEV
P15-FUEL	GENERATOR ABOVE GROUND FUEL TANK-500GAL					$ -	GEN
P15-GEN	JERRY ELLIS BLDG GENERATOR--50KW			KOHLER		$ -	GEN
P16	PLANTATION KEY JAIL						
P16-AHU1	PK JAIL CU#1 AIR HANDLER #1-LENNOX	DM2194.9323	UBEA-17J10NFBA1	RUDD		$ -	HVAC
P16-CU1	PK JAIL CONDENSING UNIT #1--LENNOX	5899H43313	12ACB36-4P	LENNOX		$ -	HVAC
P16-ELEV-01	PK JAIL ELEVATOR (WHEELCHAIR)	56110	WHEELCHAIR LIFT			$ -	ELEV
P16-FP	PK JAIL FIRE PUMP					$ -	
P16-PAC1	PK JAIL PACKAGE AC #1--EUBANK	DY1002345091R	V448B11A3FDS-NB	EUBANK		$ -	HVAC

Equipment No.	Description	Serial No.	Model No.	MFG	Purchase Date	Original Cost	Equipment Type
P16-PAC2	PK JAIL PACKAGE AC #2--EUBANK	01F-150025	HW48CS11B3F01A	BARD		$ -	HVAC
P16-PAC3	PK JAIL PACKAGE AC #3--EUBANK	DY1002343091R	V448B11A3FDS-NB	EUBANK		$ -	HVAC
P16-PAC4	PK JAIL PACKAGE AC #4--EUBANK	DY1002353095R	V448B11A3FDS-NB	EUBANK		$ -	HVAC
P16-PAC5	PK JAIL PACKAGE AC #5--EUBANK*DO NOT USE*	026-P50030	HW48CS11B3F01A	BARD		$ -	HVAC
P16-PAC6	PK JAIL PACKAGE AC #6--BARD*DO NOT USE*	PO8104189D	TCD060C100BD	BARD		$ -	HVAC
P16-WAC-01	PK JAIL WINDOW AC #1--BUNKROOM	RH1169343	BYCA10WR43	CROSLEY		$ -	WAC
P16A	PK JAIL OFFICE TRAILER					$ -	JAIL
P16A-PAC1	PK JAIL OFFICE TRAILER PACKAGE AC#1					$ -	HVAC
P17	PK PUBLIC WORKS						
P17-GEN	PK PUBLIC WORKS COMPLEX GENERATOR					$ -	GEN
P17-PAC-02	PK CARPENTER SHOP--AC PACKAGE UNIT #2					$ -	
P17-PAC-1	PK CARPENTER SHOP--AC PACKAGE UNIT #1					$ -	
P17-WAC-01	PK DOMESTIC ABUSE WINDOW AC #1	JL1663712469	3Q08F2CG	FEDDERS		$ -	WAC
P17-WAC-02	PK ENGINEERING WINDOW AC #2	1447805611	HQ2121MM	QUASAR		$ -	WAC
P17-WAC-03	PK EQUIPMENT ROOM WINDOW AC #3	139403213	HQ2101YW	QUASAR		$ -	WAC
P17-WAC-04	PK PUBLIC WORKS E.R. WINDOW AC #4	702520	AMM6LAMI	GEN ELEC		$ -	WAC
P17-WAC-05	PK PUBLIC WORKS OFFICE WINDOW AC #5	`NA	NA	AMANA		$ -	WAC
P17-WAC-06	PK PUBLIC WORKS OFFICE WINDOW AC #6	2196B29396	XHA123D	CARRIER		$ -	WAC
P17-WAC-07	PK GUARDIAN AD LITEM WINDOW AC#7	12712272	MOKMD12AAMI	HOT POINT		$ -	WAC
P17-WAC-08	PK RADIOLOGICAL EMERGENCY WINDOW AC#8	NA	NA	CARRIER		$ -	WAC
P17-WAC-09	PK SIGN ROOM WINDOW AC#9	AL-597387-0299	HBT120A-S	HAMPTON BAY		$ -	WAC
P17-WAC-10	PK SIGN ROOM WINDOW AC#10	LJ238658-3187	HBQ-100G	HAMPTON BAY		$ -	WAC
P17-WAC-11	PK PUBLIC WORKS SUPERVISOR OFC WINDOW AC	1447802622	HQ2121MH	QUASAR		$ -	WAC

Equipment No.	Description	Serial No.	Model No.	MFG	Purchase Date	Original Cost	Equipment Type
P17-WAC-12	PK PUBLIC WORKS EQUIP ROOM WINDOW AC #12	JL1663212469	3Q08F1CG	FEDDERS	11/15/99	$ -	WAC
P17A-PAC1	PK CARPENTER SHOP PACKAGE AC #1	NA	WA-241-A00MXXX3J	BARD		$ -	HVAC
P17A-PAC2	PK CARPENTER SHOP PACKAGE AC #2	NA	WA-241-A000MXXXJ	BARD		$ -	HVAC
P17B-WAC-01	PK CREW ROOM WINDOW AC#1	EL22668111249	HBT120A	HAMPTON BAY		$ -	WAC
P18	ISLAMORADA FIRE STATION						
P20	PK GARAGE						
P20-WAC-01	PK GARAGE WINDOW AC #1	JELSO8921	EK18J34A	FRIEDRICH		$ -	WAC
P20-WAC-02	PK GARAGE WINDOW AC #2	006KAO2095	HBLGO8O	HAMPTON BAY	09/11/00	$ 229	WAC
P20-WAC-03	PK GARAGE WINDOW AC #3	60501808	CA10WRVD	CROSLEY		$ -	WAC
P23	PUBLIC DEFENDERS -ISLAMORADA						
P23-AHU1	COMMISSION OFFICE					$ -	HVAC
P23-AHU2	PUBLIC DEFENDERS--AIR HANDLER #2					$ -	HVAC
P24	ISLAMORADA TRANSFER SITE						
P24-FUEL	GENERATOR INTEGRATED FUEL TANK-200 GAL					$ -	GEN
P24-GEN	ISLAMORADA TRANS SITE GENERATOR-60KW			KOHLER		$ -	GEN
P24-WAC-01	ISLAMORADA TRANS SITE WINDOW AC #1	Y925206BB	AC2504X50	WHIRLPOOL		$ -	WAC
P24-WAC-02	ISLAMORADA TRANS SITE WINDOW AC #2	NA	NA	CARRIER		$ -	WAC
P25	ROTH BLDG						
P25-AHU-01	ROTH BLDG AIR HANDLER #1	TWE120B300EL	350SKU2BD	TRANE		$ -	HVAC
P25-AHU-02	ROTH BLDG AIR HANDLER #2	TWESVX03AEN	186CC0D9	TRANE		$ -	HVAC
P25-AHU-03	ROTH BLDG AIR HANDLER #3	TWE048P13FBO	417119U1V	TRANE		$ -	HVAC
P25-AHU-04	ROTH BLDG AIR HANDLER #4	TWE090A300EL	4165NHSBD	TRANE		$ -	HVAC
P25-AHU-05	ROTH BLDG AIR HANDLER #5	TWE042P13FBO	41711X62V	TRANE		$ -	HVAC
P25-AHU-07	ROTH BLDG AIR HANDLER #07	TWE042P13FBO	41728851V	TRANE		$ -	HVAC
P25-AHU-08	ROTH BLDG AIR HANDLER #08	TWE042P13FBO	41711XE2V	TRANE		$ -	HVAC
P25-AHU-09	ROTH BLDG AIR HANDLER #09	TWE048P13FBO	41713311V	TRANE		$ -	HVAC
P25-AHU-10	ROTH BLDG AIR HANDLER #10	TWE042P13FBO	4173K701V	TRANE		$ -	HVAC
P25-AHU-11	ROTH BLDG AIR HANDLER #11	TWE048P13FBO	417113Y1V	TRANE		$ -	HVAC
P25-AHU-12	ROTH BLDG AIR HANDLER #12	TWE063P13FBO	4172PCX2V	TRANE		$ -	HVAC
P25-AHU-13	ROTH BLDG AIR HANDLER #13	TWE024P13FBO	4163LE81V	TRANE		$ -	HVAC
P25-CU-01	ROTH BLDG COOLING UNIT #1	340509HAD	TTA1200B300EA	TRANE		$ -	HVAC
P25-CU-02	ROTH BLDG COOLING UNIT #2	TTA090A300FA	4154005AD	TRANE		$ -	HVAC

Equipment No.	Description	Serial No.	Model No.	MFG	Purchase Date	Original Cost	Equipment Type
P25-CU-03	ROTH BLDG COOLING UNIT #3	M2TTB2048A1000AA	347216Y3F	TRANE		$ -	HVAC
P25-CU-04	ROTH BLDG COOLING UNIT #4	TTA090A300FA	41426HXAD	TRANE		$ -	HVAC
P25-CU-05	ROTH BLDG COOLING UNIT #05	2TTB2036A1000AA	4123WS63F	TRANE		$ -	HVAC
P25-CU-06	ROTH BLDG COOLING UNIT #06 (ONE PKG UNIT)	104E048420		DURATEC		$ -	HVAC
P25-CU-07	ROTH BLDG COOLING UNIT #07	2TTB2036A1000AA	43652NM3F	TRANE		$ -	HVAC
P25-CU-08	ROTH BLDG COOLING UNIT #08	2TTB2036A1000AA	4123WW73F	TRANE		$ -	HVAC
P25-CU-09	ROTH BLDG COOLING UNIT #09	2TTB2048A1000AA	34722BM3F	TRANE		$ -	HVAC
P25-CU-10	ROTH BLDG COOLING UNIT #10	2TTB2036A1000AA	3185WH43F	TRANE		$ -	HVAC
P25-CU-11	ROTH BLDG COOLING UNIT #11	2TTB048A1000AA	347217A3F	TRANE		$ -	HVAC
P25-CU-12	ROTH BLDG COOLING UNIT #12	2TTB2060A1000AA	4122TY83F	TRANE		$ -	HVAC
P25-CU-13	ROTH BLDG COOLING UNIT #13	2TTB204A1000AA	416P9L4F	TRANE		$ -	HVAC
P25-CU-14	ROTH BLDG COOLING UNIT #14	ABN014947	AOU12C1	FUJITUS		$ -	HVAC
P25-FAS	FIRE ALARM SYSTEM AT ROTH BLDG					$ -	
P25-FUEL	ROTH BUILDING FUEL TANK					$ -	
P25-GEN	GENERATOR FOR ROTH BUILDING	N/A	1DLC600-M	SUZUKI	03/01/05	$ -	GEN
P26	PORT SALVO BLDG						
P05	PK CODE ENFORCEMENT						
PO5-AHU2	PK CODE ENFORCEMENT AIR HANDLER #2	J02B49958	TWE060C15FC0	TRANE		$ -	HVAC
S01	STOCK ISLAND FIRE STATION						
S05	BAYSHORE MANOR						
S05-PAC1	BAYSHORE MANOR PACKAGE AC #1	1895G30630	50TJ012-511	CARRIER		$ -	HVAC
S05-PAC2	BAYSHORE MANOR PACKAGE AC #2	2795G30498	50TJ008-511	CARRIER		$ -	HVAC
S10	MONROE COUNTY DETENTION CENTER						
S10-ACC	AIR CONTROL COMPRESSOR FOR HVAC SYSTEM	1292-C8110	ACP-C35-28DP3			$ 1,804	HVAC
S10-AHU-A1	AIR HANDLER A1	92-824874A	CS113SHAF	YORK		$ 5,800	HVAC
S10-AHU-A2	AIR HANDLER A2	92-824874B	CS113SHAF	YORK		$ 5,800	HVAC
S10-AHU-A3	AIR HANDLER A3	92-824874C	CS113SHAF	YORK		$ 5,800	HVAC
S10-AHU-A4	AIR HANDLER A-4	92-824874D	CS217SHMP	YORK		$ 5,800	HVAC
S10-AHU-B1	AIR HANDLER B1	92-824874E	CS156SHAF	YORK		$ 5,800	HVAC
S10-AHU-B2	AIR HANDLER B2	92-82487F	CS217SHAF	YORK		$ 5,800	HVAC
S10-AHU-C1	AIR HANDLER C1	92-824874G	CS270SHAF	YORK		$ 5,800	HVAC
S10-AHU-D1	AIR HANDLER D1	92-8248T4H1	CS217SHAF	YORK		$ 5,800	HVAC
S10-AHU-D2	AIR HANDLER D2	92-8248T4H1	CS217SHAF	YORK		$ 5,800	HVAC

Equipment No.	Description	Serial No.	Model No.	MFG	Purchase Date	Original Cost	Equipment Type
S10-AHU-E1	AIR HANDLER E1	92-824874H2	CS217SHAF	YORK		$ 5,800	HVAC
S10-AHU-E2	AIR HANDLER E2	92-824874H2	CS217SHAF	YORK		$ 5,800	HVAC
S10-BAS	BUILDING AUTOMATION SYSTEM (HVAC CONTROL			SIEMENS		$ -	HVAC
S10-BCHLR1	BLAST CHILLER #1	0W732T-1A	DR3478W4H8-SP	HARFORD		$ 9,500	KIT
S10-BCHLR2	BLAST CHILLER #2	OW732T-4A	DR3478W4H8-SP	HARFORD		$ 9,500	KIT
S10-BOIL-01	HYDRONIC BOILER #1 (MAIN MECHANIC ROOM)	C03106433		WATERPIK	10/22/03	$ 38,760	JAIL
S10-BOIL-02	HYDRONIC BOILER #2 (MAIN MECHANIC ROOM)	C03106432		WATERPIK	10/22/03	$ 38,760	JAIL
S10-BOIL-03	HYDRONIC BOILER #3 (MAIN MECHANIC ROOM)	C03106434		WATERPIK	10/22/03	$ 38,760	JAIL
S10-CHILL1	HVAC CHILLER #1	#1-YMAM967096	YTD3D3C1CKFS	YORK		$ 76,000	HVAC
S10-CHILL2	HVAC CHILLER #2	YMAM967183	YTD3D3C1CKFS	YORK		$ 76,000	HVAC
S10-CHWP1	HVAC CHILL WATER PUMP #1	1778488	5BC9250BF	BELL&GO		$ 3,000	HVAC
S10-CHWP2	HVAC CHILL WATER PUMP #2	1778467	5BC9250BF	BELL&GO		$ 3,000	HVAC
S10-CHWP3	HVAC CHILL WATER PUMP #3	N/A	5BC9250BF	BELL&GO		$ 3,000	HVAC
S10-CHWP4	HVAC CHILL WATER PUMP #4	N/A	5BC9250BF	BELL&GO		$ 3,000	HVAC
S10-CIS1	CHEMICAL INJECTION SYSTEM FOR CT1	RJ1349	SYS T4-PLS0430D(0103O506)AW1Y	NATIONAL		$ -	HVAC
S10-CIS2	CHEMICAL INJECTION SYSTEM FOR CT2	RE1064	SYST4/PL50430D(O5O60103)AW1Y	NATIONAL		$ -	HVAC
S10-CONVEY1	CUSTOM ROLLER CONVEYOR 16FT LONG				09/16/02	$ 2,937	KIT
S10-COOL1	WALK IN COOLER #1	OW732T-2B	DL4878W6H8-SP	HARFORD		$ 5,843	KIT
S10-COOL2	WALK IN COOLER #2	OW732T-1B	DL4878W6H8-SP	HARFORD		$ 5,843	KIT
S10-COOL3	DAY COOLER	OW732T-2C	DR3478W6H8SP	HARFORD		$ 3,153	KIT
S10-COOL4	BULK OR HOLDING COOLER					$ -	
S10-COVEN1A	CONVECTION OVEN 1A-VULCAN UPPER UNIT	481395496	SG4-D	VULCAN		$ -	KIT
S10-COVEN1B	CONVECTION OVEN 1B-VULCAN LOWER UNIT	481395495	SG4D	VULCAN		$ -	KIT
S10-COVEN2A	CONVECTION OVEN 2A-UPPER UNIT	48-1386324	SG44-D	VULCAN	10/04/01	$ 6,989	KIT
S10-COVEN2B	CONVECTION OVEN 2B-LOWER UNIT	48-1386617	SG44-D	VULCAN		$ 6,989	KIT
S10-COVEN3	JET AIR CONVECTION DOUBLE OVEN	145	JA14G	DOYON	08/17/05	$ 10,455	KIT
S10-COVEN4	JET AIR CONVECTION DOUBLE OVEN	185	JA14G	DOYON		$ -	KIT

Equipment No.	Description	Serial No.	Model No.	MFG	Purchase Date	Original Cost	Equipment Type
S10-CT1	COOLING TOWER #1**DO NOT USE**	92101204	VT3 362 ACL	BAC		$ 38,000	HVAC
S10-CT2	COOLING TOWER #2**DO NOT USE**	92101205	VT2 362 NCL	BAC		$ 38,000	HVAC
S10-CT3	COOLING TOWER #3	U070255403	3379A	BAC	07/31/07	$ 107,000	HVAC
S10-CT4	COOLING TOWER #4	U070255401	3379A	BAC	07/31/07	$ 107,000	HVAC
S10-CTWP1	COOLING TOWER WATER PUMP #1	7-00655-01-02	150	BELL&GO		$ 3,000	HVAC
S10-CTWP2	COOLING TOWER WATER PUMP #2	7-00655-01-01	150	BELL&GO		$ 3,000	HVAC
S10-CULL	CULLIGAN WATER SOFTENER SYSTEM	2475711	HS-452-D	CULL		$ 4,750	
S10-DISH	DISHWASHER	938044	COMMANDER	INSINGER		$ 4,903	KIT
S10-DISP	DISPOSER	N/A	BP3-R	RED GOAT		$ 15,450	KIT
S10-DKLV	DOCKLEVELER	DO53584	E7230H	KELLEY		$ 2,750	KIT
S10-DOOR-A	SALLYPORT ROLLUP DOOR BY TRASH COMPACTOR					$ -	ROLLUP
S10-DOOR-B	SALLYPORT ROLLUP DOOR FOR DELIVERY AREA					$ -	ROLLUP
S10-DOOR-C	SALLYPORT ROLLUP DOOR VEHICLE INTAKE					$ -	ROLLUP
S10-DOOR-D	SALLYPORT ROLLUP DDOR VEHICLE EXIT					$ -	ROLLUP
S10-DRY3	DRYER #3 **DO NOT USE**	608-392	L44KD42E	CISSELL		$ 5,895	LAUN
S10-DRY4	DRYER #4 **DO NOT USE**	610-392	L44KD42E	CISSELL		$ 5,895	LAUN
S10-DRY5	DRYER #5-120#	701014249	M-UTI20NRM	UNIMAC	02/08/07	$ 9,248	LAUN
S10-DRY6	DRYER #6--75#	701013140	M-UT075NOM	UNIMAC	02/08/07	$ 4,906	LAUN
S10-DRY7	DRYER #7-120#	810027431	M-UT120NRM	UNIMAC	01/12/09	$ 8,691	LAUN
S10-DRY8	DRYER #8-120#	810027432	M-UT120NRM	UNIMAC	01/12/09	$ 8,691	LAUN
S10-EF-A1	EXHAUST FAN A1	93C03196	GB-200-15	GREEN		$ 1,039	HVAC
S10-EF-A2	EXHAUST FAN A2	93C03126	GB-90-4	GREEN		$ 602	HVAC
S10-EF-A3	EXHAUST FAN A3	93C03182	GB-180-3	GREEN		$ 891	HVAC
S10-EF-A4	EXHAUST FAN A4	93C0398	GB-130-4	GREEN		$ 676	HVAC
S10-EF-A5	EXHAUST FAN A5	05B02090	6B22015X	GREEN	02/10/05	$ 1,090	HVAC
S10-EF-A6	EXHAUST FAN A6	5B03417	6B1014X	GREEN	02/10/05	$ 400	HVAC
S10-EF-A7	EXHAUST FAN A7	05B02080	6B2007X	GREEN	02/10/05	$ 670	HVAC
S10-EF-A8	EXHAUST FAN A8	05B02038	6B1613X	GREEN	02/10/05	$ 580	HVAC
S10-EF-B1	EXHAUST FAN B1	93C0398	GB-130-4	GREEN		$ 676	HVAC
S10-EF-B2	EXHAUST FAN B2	93C03099	GB-130-4	GREEN		$ 676	HVAC
S10-EF-B3	EXHAUST FAN B3	93C02545	SPFE-30-7	GREEN		$ 585	HVAC
S10-EF-B4	EXHAUST FAN B4	93C02546	SPFE-30-7	GREEN		$ 585	HVAC

Equipment No.	Description	Serial No.	Model No.	MFG	Purchase Date	Original Cost	Equipment Type
S10-EF-B5	EXHAUST FAN B5	93C02450	CVBE-300-15	GREEN		$ 2,153	HVAC
S10-EF-B6	EXHAUST FAN B6	93C03110	GB-70-4	GREEN		$ 597	HVAC
S10-EF-B7	EXHAUST FAN B7	93C03111	GB-70-4	GREEN		$ 597	HVAC
S10-EF-B8	EXHAUST FAN B8	93C03112	GB-70-4	GREEN		$ 597	HVAC
S10-EF-C1	EXHAUST FAN C1	93C03089	GB-120-4	GREEN		$ 670	HVAC
S10-EF-C10	EXHAUST FAN C10	93C01921	SPDECA3662520C	GREEN		$ 1,975	HVAC
S10-EF-C11	EXHAUST FAN C11	93C01922	SPDECA3662520C	GREEN		$ 1,975	HVAC
S10-EF-C12	EXHAUST FAN C12	93C02406	CUBE-100-3	GREEN		$ 787	HVAC
S10-EF-C2	EXHAUST FAN C2	93C03115	GB-80-4	GREEN		$ 599	HVAC
S10-EF-C3	EXHAUST FAN C3	93C03116	GB-80-4	GREEN		$ 599	HVAC
S10-EF-C4	EXHAUST FAN C4	93C03133	CVBE-140-3	GREEN		$ 850	HVAC
S10-EF-C5	EXHAUST FAN C5	93C03134	CVBE-140-5	GREEN		$ 873	HVAC
S10-EF-C6	EXHAUST FAN C6	93C03113	GB-70-4	GREEN		$ 597	HVAC
S10-EF-C7	EXHAUST FAN C7	N/A	SDE-14-32A	GREEN		$ 1,975	HVAC
S10-EF-C8	EXHAUST FAN C8	93CO1919	SPDECA3662520C	GREEN		$ 1,975	HVAC
S10-EF-C9	EXHAUST FAN C9	93CO21920	SPDECA3662520C	GREEN		$ 1,975	HVAC
S10-EF-D1	EXHAUST FAN D1	93C02407	CUBE-100-4	GREEN		$ 774	HVAC
S10-EF-D2	EXHAUST FAN D2	93C02408	CUBE-100-4	GREEN		$ 774	HVAC
S10-EF-D3	EXHAUST FAN D3	93C02411	CUBE-100-4	GREEN		$ 774	HVAC
S10-EF-E1	EXHAUST FAN E1	93C02409	CUBE-100-4	GREEN		$ 774	HVAC
S10-EF-E2	EXHAUST FAN E2	93C02410	CUBE-100-4	GREEN		$ 774	HVAC
S10-EF-E3	EXHAUST FAN E3	93C02412	CUBE-100-4	GREEN		$ 774	HVAC
S10-ELEV1	ELEVATOR #1	47275	CUSTOM	MOWREY		$ 13,572	ELEV
S10-ELEV2	ELEVATOR #2	47276	CUSTOM	MOWREY		$ 13,572	ELEV
S10-ELEV3	ELEVATOR #3	47274	CUSTOM	MOWREY		$ 13,572	ELEV
S10-ELEV4	ELEVATOR #4	47143	CUSTOM	MOWREY		$ 13,572	ELEV
S10-ELEV5	ELEVATOR $5	46900	CUSTOM	MOWREY		$ 13,572	ELEV
S10-ELEV6	ELEVATOR #6	46899	CUSTOM	MOWREY		$ 16,640	ELEV
S10-ELEV7	ELEVATOR #7	47144	CUSTOM	MOWREY		$ 16,640	ELEV
S10-FAS	FIRE ALARM SYSTEM	N/A	RMDP-1N	EDWARDS		$ -	FAS
S10-FCU-A1	FAN COIL UNIT A1 (A1019 ELEV EQUIP)	N/A	9260830	YORK		$ 896	HVAC
S10-FCU-A2	FAN COIL UNIT A2 (A1028 CORR)	N/A	9260830	YORK		$ 896	HVAC
S10-FCU-A3	FAN COIL UNIT A3 (A2032 ELEV EQUIP)	HPY-100YYC2R6CH3	9260830	YORK		$ 896	HVAC
S10-FCU-B1	FAN COIL UNIT B1 (B1002 COMM)	CPY06AYYC2R6CH3	9260830	YORK		$ 896	HVAC
S10-FCU-B2	FAN COIL UNIT B2 (B1058 CORR)	N/A	9260830	YORK		$ 896	HVAC
S10-FCU-B3	FAN COIL UNIT B3 (B1068 CORR)	N/A	9260830	YORK		$ 896	HVAC
S10-FCU-B4	FAN COIL UNIT B4 (B1064 WASHING)	N/A	9260830	YORK		$ 896	HVAC

Equipment No.	Description	Serial No.	Model No.	MFG	Purchase Date	Original Cost	Equipment Type
S10-FCU-B5	FAN COIL UNIT B5 (B2001 COMM)	CPY06AYYC2L6CH3	9260830	YORK		$ 896	HVAC
S10-FCU-B6	FAN COIL UNIT B6 (B2016 TEL RM)	CPY03AYYC2R6CH3	9260830	YORK		$ 896	HVAC
S10-FCU-B7	FAN COIL UNIT B7 (B2004 CEPO)	CPY04AYYCZR62H3	9260830	YORK		$ 896	HVAC
S10-FCU-B8	FAN COIL UNIT B8 (B2005 MAIN ELEC)	CPY10AYYC2R6CH3	9260830	YORK		$ 896	HVAC
S10-FCU-C1	FAN COIL UNIT C1 (C1014 ELEV EQUIP)	HPY10BYYC2L6CH3	9260830	YORK		$ 896	HVAC
S10-FCU-C2	FAN COIL UNIT C2 (C2007 CORR)	N/A	9260830	YORK		$ 896	HVAC
S10-FCU-C3	FAN COIL UNIT C3 (C2022 SEC VEST)	N/A	9260830	YORK		$ 896	HVAC
S10-FCU-C4	FAN COIL UNIT C4 (C2024 ELEV EQUIP)	HPY12BYYC2R6CH3	9260830	YORK		$ 896	HVAC
S10-FCU-D1	FAN COIL UNIT D1 (D1100 CORR)	N/A	9260830	YORK		$ 896	HVAC
S10-FCU-D2	FAN COIL UNIT D2 (D1100 CORR)	N/A	9260830	YORK		$ 896	HVAC
S10-FCU-D3	FAN COIL UNIT D3 (D2000 CORR)	N/A	9260830	YORK		$ 896	HVAC
S10-FCU-D4	FAN COIL UNIT D4 (D2000 CORR)	N/A	9260830	YORK		$ 896	HVAC
S10-FCU-E1	FAN COIL UNIT E1 (E1097 COMM)	N/A	9260830	YORK		$ 896	HVAC
S10-FCU-E10	FAN COIL UNIT E10 (E2088 COMM)	CPY06AYYC2R6CH3	9260830	YORK		$ 896	HVAC
S10-FCU-E2	FAN COIL UNIT E2 (E1101 CORR)	N/A	9260830	YORK		$ 896	HVAC
S10-FCU-E3	FAN COIL UNIT E3 (E1101 CORR)	N/A	9260830	YORK		$ 896	HVAC
S10-FCU-E4	FAN COIL UNIT E4 (E1102 CORR)	N/A	9260830	YORK		$ 896	HVAC
S10-FCU-E5	FAN COIL UNIT E5 (E1092 COMM)	N/A	9260830	YORK		$ 896	HVAC
S10-FCU-E6	FAN COIL UNIT E6 (E2086 COMM()	CPY06AYYC2L6CH3	9260830	YORK		$ 896	HVAC
S10-FCU-E7	FAN COIL UNIT E7 (E2000 CORR)	N/A	9260830	YORK		$ 896	HVAC
S10-FCU-E8	FAN COIL UNIT E8 (E2000 CORR)	N/A	9260830	YORK		$ 896	HVAC
S10-FCU-E9	FAN COIL UNIT E9 (E2000 CORR)	N/A	9260830	YORK		$ 896	HVAC
S10-FP	FIRE PUMP	483033	5AEF14	PEERLESS		$ -	FSS
S10-FPC	FIRE PUMP CONTROLLER			FIRETROL		$ -	FSS
S10-FRIG	FREE STANDING REFRIGERATOR	M924270E93	RHT2-32WVT	TRAUL		$ 3,817	KIT
S10-FRYER	VULCAN GAS FRYER	48-1381493	VULEF3	VULCAN	08/13/01	$ 835	KIT
S10-FRZR	FREE STANDING FREEZER	M924280E93	RLT2-32WVT	TRAUL		$ 4,531	KIT
S10-FRZR1	WALK IN FREEZER	OW732T-3B	DL4878W6H8-SP	HARFORD		$ 5,843	KIT
S10-FRZR2	DAY FREEZER	OW732T-1C	DL3478W548-SP	HARFORD		$ 3,153	KIT
S10-FSS	FIRE SPRINKLER SYSTEM					$ -	FSS
S10-FUEL	GENERATOR FUEL TANK UST-12000 GAL	O/C TANKS	DWT-2P(8)			$ -	GEN

Equipment No.	Description	Serial No.	Model No.	MFG	Purchase Date	Original Cost	Equipment Type
S10-GATE-V	VEHICLE GATE					$ -	
S10-GATE-W	WALK THRU ENTRANCE GATE					$ -	
S10-GEN	EMERGENCY GENERATOR	6NA02898	SR-4	CAT		$ 176,550	GEN
S10-ICE3	ICE MACHINE #3 (SALLYPORT)	N/A	KM1201DSU	HOSHIZAKI		$ -	KIT
S10-ICE4	ICE MACHINE #4 (MEDICAL)	N/A	ND550AS-1A	SCOTSMAN		$ 4,137	KIT
S10-ICE5	ICE MACHINE #5 (KITCHEN)			HOSHIZAKI	12/20/06	$ 7,923	KIT
S10-ICE6	ICE MACHINE #6 (KITCHEN)			HOSHIZAKI	12/20/06	$ 7,923	KIT
S10-KETTLE3	STEAM KETTLE #3, 40 GAL	27-1003650	VULGL40E@LP	VULC	01/27/94	$ 5,526	KIT
S10-KETTLE6	STEAM KETTLE #6, 60 GAL LP GAS	WT0853-05F01	KGL60SH	CLEVELAND	07/06/05	$ 12,113	KIT
S10-KETTLE7	STEAM KETTLE #7, 60 GAL LP GAS	WT8555-07G-01	CLE-KGL-60-SH	CLEVELAND	08/20/07	$ 12,441	KIT
S10-MANDOWN	MANDOWN SECURITY SYSTEM					$ -	SEC
S10-MAU-C1	MAKE UP AIR UNIT C1 IN KITCHEN	93CO2446	CUBE-180-10G	GREEN		$ 1,178	HVAC
S10-MAU-C2	MAKE UP AIR UNIT C2 IN KITCHEN	93C01792	CUBE-300HP-30G	GREEN		$ 2,258	HVAC
S10-MAU-C3	MAKE UP AIR UNIT C3 IN KITCHEN	93CO1793	CUBE-300-HP-50G	GREEN		$ 2,343	HVAC
S10-MAU-C4	MAKE UP AIR UNIT C4 IN KITCHEN	93CO2449	CUBE-200HP-30G	GREEN		$ 1,368	HVAC
S10-MAU-C5	MAKE-UP AIR UNIT C5	3121005	KSF-109-H10-DBC	GREEN	01/19/04	$ -	HVAC
S10-MAU-C6	MAKE-UP AIR UNIT C6	03L21003	KSF-115-H20-DBC	GREEN	01/19/04	$ -	HVAC
S10-MAU-C7	MAKE-UP AIR UNIT C7	03L21004	KSF-115-H20-DBC	GREEN	01/19/04	$ -	HVAC
S10-MIX	KITCHEN MIXER					$ -	KIT
S10-RAF-A1	RETURN AIR FAN A1	93C03947	BSO-200-20	GREEN		$ 1,798	HVAC
S10-RAF-A4	RETURN AIR FNA A4	93CO3956	BSO-300-HP-30	GREEN		$ 2,921	HVAC
S10-RAF-D1	RETURN AIR FAN D1	93CO1239	BSO-300-HP-50	GREEN		$ 2,921	HVAC
S10-RAF-D2	RETURN AIR FAN D2	93CO1240	BSO-300HP-50	GREEN		$ 2,921	HVAC
S10-RAF-E1	RETURN AIR FAN E1	93CO1241	BSO-300HP-50	GREEN		$ 2,921	HVAC
S10-RAF-E2	RETURN AIR FAN E2	93C01242	BSO-300HP-50	GREEN		$ 2,921	HVAC
S10-RANGE	OPEN BURNER RANGE	481018796VP	H45	VULC		$ 2,198	KIT
S10-SEF-B1	SMOKE EXHAUST FAN B1	93CO2415	CUBE-120-4	GREEN		$ 2,329	FAS
S10-SEF-D1	SMOKE EXHAUST FAN D1	93CO2503	TAVB-HT-24-20	GREEN		$ 2,329	FAS
S10-SEF-D2	SMOKE EXHAUST FAN D2	93CO2504	TAVB-HT-24-20	GREEN		$ 2,329	FAS
S10-SEF-D3	SMOKE EXHAUST FAN D3	93CO2505	TAVB-HT-24-20	GREEN		$ 2,329	FAS
S10-SEF-D4	SMOKE EXHAUST FAN D4	93CO2506	TAVB-HT-24-20	GREEN		$ 2,329	FAS
S10-SEF-D5	SMOKE EXHAUST FAN D5	93CO3259	TAVB-HT-24-20	GREEN		$ 2,329	FAS
S10-SEF-D6	SMOKE EXHAUST FAN D6	93CO3260	TAVB-HT-24-20	GREEN		$ 2,329	FAS
S10-SEF-D7	SMOKE EXHAUST FAN D7	93CO2417	CUBE-130-5	GREEN		$ 2,329	FAS
S10-SEF-E1	SMOKE EXHAUST FAN E1	93CO3261	TAVB-HT-24-20	GREEN		$ 2,329	FAS
S10-SEF-E2	SMOKE EXHAUST FAN E2	93CO3262	TAVB-HT-24-20	GREEN		$ 2,329	FAS
S10-SEF-E3	SMOKE EXHAUST FAN E3	93CO3886	TAVB-HT-24-20	GREEN		$ 2,329	FAS
S10-SEF-E4	SMOKE EXHAUST FAN E4	93CO3087	TAVB-HT-24-20	GREEN		$ 2,329	FAS
S10-SEF-E5	SMOKE EXHAUST FAN E5	93CO3888	TAVB-HT-24-20	GREEN		$ 2,329	FAS
S10-SEF-E6	SMOKE EXHAUST FAN E6	93CO3889	TAVB-HT-24-20	GREEN		$ 2,329	FAS
S10-SEF-E7	SMOKE EXHAUST FAN E7	93CO2418	CUBE-130-5	GREEN		$ 2,329	FAS

Equipment No.	Description	Serial No.	Model No.	MFG	Purchase Date	Original Cost	Equipment Type
S10-SF-B1	SUPPLY FAN B1	93CO0594	BSO-240-20	GREEN		$ 2,225	HVAC
S10-SLICER	KITCHEN SLICER	042093-AV08	ASM-HD	GEN		$ 2,574	KIT
S10-SPF-B1	STAIRWELL PRESSURIZATION FAN BS-1	93CO4585	BSO240HP30	GREEN		$ -	FAS
S10-SPF-C1	STAIRWELL PRESSURIZATION FAN CS-1	93CO4586	BSO240HP30	GREEN		$ 2,294	FAS
S10-SPF-D1	STAIRWELL PRESSURIZATION FAN DS-1	93CO4587	BSO240HP30	GREEN		$ 2,294	FAS
S10-SPF-D2	STAIRWELL PRESSURIZATION FAN DS-6	93CO4588	BSO240HP30	GREEN		$ 2,294	FAS
S10-SPF-D3	STAIRWELL PRESSURIZATION FAN DS-3	93CO4589	BSO240HP30	GREEN		$ 2,294	FAS
S10-SPF-E1	STAIRWELL PRESSURIZATION FAN ES-1	93C04590	BSO240HP30	GREEN		$ 2,294	FAS
S10-SPF-E2	STAIRWELL PRESSURIZATION FAN ES-6	93C04591	BSO240HP30	GREEN		$ 2,294	FAS
S10-SPF-E3	STAIRWELL PRESSURIZATION FAN ES-8	93C04592	BSO240HP30	GREEN		$ 2,294	FAS
S10-SPF-E4	STAIRWELL PRESSURIZATION FAN ES-3	93C04593	BSO240HP30	GREEN		$ 2,294	FAS
S10-STMR10	CLEVELAND STEAMER, CONVECTION, GAS # 10	9.09E+11	CLE24CGM200	CLEVELAND	09/28/09	$ 14,140	KIT
S10-STMR5	VULCAN STEAMER #5 (1)**NOT IN USE**	27-1088763	VSX24G	VULC	08/18/99	$ 9,300	KIT
S10-STMR6	VULCAN STEAMER #6 (2)**NOT IN USE**	27-1095540	VSX24G	VULC	09/20/99	$ 8,550	KIT
S10-STMR7	VULCAN STEAMER #7 **NOT IN USE**	27-1090355	VSX24G	VULC	03/17/00	$ 8,550	KIT
S10-STMR8	CONVECTION STEAMER, GAS (3)	WL86498-04-F01	24CGM200	CLEVELAND	07/02/04	$ 13,025	KIT
S10-STMR9	CLEVELAND STEAMER,CONVECTION, GAS # 9	9.09E+11	CLE24CGM200	CLEVELAND	09/28/09	$ 14,140	KIT
S10-TILTPAN3	TILT KETTLE #3	7482-04F-01	CLV-SGL40TR	CLEVELAND	06/22/04	$ 9,600	KIT
S10-TRAY2	TRAYWASHER	030527 / BLOWER 030528	TRAC-321-2RPW/ BLOWER TD-321-3	INSINGER	10/16/03	$ 29,610	KIT
S10-TS	MAIN TRANSFER SWITCH	442076-002	TYPE 1	ASCD		$ 69,550	GEN
S10-UPS	UNINTERRUPTED POWER SUPPLY SYSTEM	N/A	BP + 50	INTL POWER		$ 36,380	UPS
S10-WASH1	WASHER #1 (NOT IN SERV)	9.04E+13	UF35PVPV1	UNIMAC		$ 8,855	LAUN
S10-WASH2	WASHER #2 (NOT IN SERV)	9.08E+13	UF85PVPV1	UNIMAC		$ 16,490	LAUN
S10-WASH3	WASHER #3 (NOT IN SERV)	9.08E+13	UF85PVPV1	UNIMAC		$ 16,490	LAUN

Equipment No.	Description	Serial No.	Model No.	MFG	Purchase Date	Original Cost	Equipment Type
S10-WASH4	WASHER #4 (NOT IN SERV)	9.08E+13	UF85PVPV1	UNIMAC		$ 16,490	LAUN
S10-WASH5	UNIMAC INDUSTRIAL SOFT MOUNT WASHER #5 (REPL WASH1	508975023	M-UX75PV	UNIMAC	10/03/05	$ 13,438	LAUN
S10-WASH6	UNIMAC INDUSTRIAL SOFT MOUNT WASHER #6 (REPL WASH2	508975024	M-UX75PV	UNIMAC	10/03/05	$ 13,438	LAUN
S10-WASH7	UNIMAC INDUSTRIAL SOFT MOUNT WASHER #7	709300255	M-UX75PV	UNIMAC	01/12/09	$ 19,457	LAUN
S10-WH7	WATER HEATER #7 (KITCHEN-80 GAL	06025-03843	ADCG3-80T250-6P	AMERICAN	06/16/09	$ 6,588	KIT
S10-WH8	WATER HEATER #8 (KITCHEN-100 GAL	07085-06479	ADCG3-100T270-7P	AMERICAN	06/16/09	$ 6,588	KIT
S10-WSS-1	WATER SOFTNER SYSTEM UNIT #1	MAG253020011	MAGNUM/942 (CS224 QUAD)	RAINSOFT	12/02/02	$ 14,922	
S10-WSS-2	WATER SOFTNER SYSTEM UNIT #2	MAG317020005	MAGNUM/942 (CS224 QUAD)	RAINSOFT	12/02/02	$ 14,922	
S10-WSS-3	WATER SOFTNER SYSTEM UNIT #3	MAG324020011	MAGNUM/942 (CS224 QUAD)	RAINSOFT	12/02/02	$ 14,922	
S10-WSS-4	WATER SOFTNER SYSTEM UNIT #4	MAG324020009	MAGNUM/942 (CS224 QUAD)	RAINSOFT	12/02/02	$ 14,922	
S10A	MCDC ANIMAL FARM					$ -	LOT
S13	BIG COPPITT PLAYGROUND						
S14	WILHELMINA HARVEY PARK						
S15	BOCA CHICA BEACH						
S16	SHERIFF ADMINISTRATION BUILDING						
S16-AHU	AIR HANDLER UNIT			MCQUAY		$ -	HVAC
S16-BAS	BUILDING AUTOMATION SYSTEM			SIEMENS		$ -	HVAC
S16-CHILL	ADM BLDG MCQUAY CHILLER	55A8197200	WHR080D-W	MCQUAY		$ -	HVAC
S16-CHWP-01	CHILLER WATER PUMP #1	N/A	FE2508E2E1F2L0A	MCQUAY		$ -	HVAC
S16-CHWP-02	CHILLER WATER PUMP #2	N/A	FE2508E2E1F2L0A	MCQUAY		$ -	HVAC
S16-CIS	CHEMICAL INJECTION SYSTEM		SYSTEM T PLUS			$ -	HVAC
S16-CT	ADM BLDG COOLING TOWER	S-55741	IMC806-110-A-5	IMECO		$ -	HVAC
S16-CTWP-01	COOLING TOWER WATER PUMP #1	N/A	M3311T	MCQUAY		$ -	HVAC
S16-CTWP-02	COOLING TOWER WATER PUMP #2	N/A	M3311T	MCQUAY		$ -	HVAC
S16-ELEV	SHERIFF ADM BLDG ELEVATOR	55030				$ -	ELEV
S16-ELEV-02	SHERIFFS ADMIN BUILDING ELEVATOR #2	50031				$ -	ELEV

Equipment No.	Description	Serial No.	Model No.	MFG	Purchase Date	Original Cost	Equipment Type
S16-FAS	FIRE ALARM SYSTEM		3120	SIMPLEX		$ -	FAS
S16-FSS	FIRE SPRINKLER SYSTEM					$ -	
S16-FUEL	GENERATOR FUEL TANK UST-8000 GAL			KOHLER		$ -	GEN
S16-GEN	GENERATOR 765KW	WA-GK08990-02-0295	573RSL4032	KOHLER	07/27/95	$ -	GEN
S16-UPS	UNINTERRUPTIBLE POWER SUPPLY	BM096A0350	PLUS 36	EXIDE		$ -	
S16-WAC-01	WINDOW AC #1 IN COMMUNICATIONS ROOM	A94E00842	PTEB1501JE	TRANE		$ -	WAC
S16-WAC-02	WINDOW AC #2 IN COMMUNICATIONS ROOM	MF4570163404	12HT13	EMER		$ -	WAC
S17	BERNSTEIN PARK					$ -	P&BFAC
S17A	BERNSTEIN PARK MODULAR HOME					$ -	COLF
S17B	BERNSTEIN PARK PLAYGROUND					$ -	P&BFAC
S17D	BERNSTEIN PARK RESTROOMS					$ -	P&BFAC
S18	BIG COPPITT FIRE STATION						
S18-AHU1	BIG COPPITT FIRE STATION AIR HANDLER	1594A00801	FK4BNB006000AAAA	CARRIER		$ -	HVAC
S18-CU1	BIG COPPITT FIRE STATION CONDENSING UNIT	3093E04706	38TD060300	CARRIER		$ -	HVAC
S18-FUEL	GENERATOR UNDERGROUND FUEL TANK-2500 GAL					$ -	GEN
S18-GEN	BIG COPPITT FIRE STATION GENERATOR 100KW					$ -	GEN
S20	DEPT OF JUVENILE JUSTICE BLDG						
S20-AHU-1-1	DJJ FL1 AIR HANDLER 1-1			CARRIER		$ -	HVAC
S20-AHU-1-2	DJJ FL1 AIR HANDLER 1-2			CARRIER		$ -	HVAC
S20-AHU-1-3	DJJ FL1 AIR HANDLER 1-3			CARRIER		$ -	HVAC
S20-AHU-1-4	DJJ FL1 AIR HANDLER 1-4			CARRIER		$ -	HVAC
S20-AHU-2-1	DJJ FL2 AIR HANDLER 2-1			CARRIER		$ -	HVAC
S20-AHU-2-2	DJJ FL2 AIR HANDLER 2-2			CARRIER		$ -	HVAC
S20-AHU-2-3	DJJ FL2 AIR HANDLER 2-3			CARRIER		$ -	HVAC
S20-CHILL1	DJJ CHILLER #1	4801F25564	30GXN080-F-640	CARRIER		$ -	HVAC
S20-CHILL2	DJJ CHILLER #2 (REPLACED BY CHILL 3)	4801F25580	30GXN080-F-640	CARRIER		$ -	HVAC
S20-CHILL3	DJJ CHILLER #3	2309Q91028	30XAA0806R-5CH93	CARRIER	06/19/09	$ 74,861	HVAC
S20-EF-1-1-1	EXHAUST FAN 1-1-1 DEPT OF JUVENILE JUSTICE					$ -	FAS

Equipment No.	Description	Serial No.	Model No.	MFG	Purchase Date	Original Cost	Equipment Type
S20-EF-1-1-2	EXHAUSE FAN 1-1-2 DEPT OF JUVENILE JUSTICE					$ -	HVAC
S20-EF-1-1-3	SMOKE EVACUATION FAN 1-1-3					$ -	HVAC
S20-EF-1-4-3	EXHAUST FAN 1-4-3 DEPT OF JUVENILE JUSTICE					$ -	HVAC
S20-EF-1-4-4	EXHAUST FAN 1-4-4 DEPT OF JUVENILE JUSTICE					$ -	HVAC
S20-ELEV1	DJJ ELEVATOR #1	61607				$ -	ELEV
S20-ELEV2	DJJ ELEVATOR #2	61608				$ -	ELEV
S20-ELEV3	DEPT OF JUVENILE JUSTICE ELEVATOR #3					$ -	ELEV
S20-FSS	DJJ-FIRE SPRINKLER SYSTEM					$ -	FAS
S20-GEN	DEPT OF JUVENILE JUSTICE GENERATOR	01FZ01015	3508	CAT		$ -	GEN
S25	HICKORY HOUSE PROPERTY						

Appendix A.3 2005 Monroe County Vehicle Fleet List

Vehicle Type	Department	Aquisition Year
1990 Mack DM690S Dump Truck	R&B22500	1990
1994 Ford L8000 Dump	R&B22500	1994
1995 Ford L8000 Dump	R&B22500	1995
1995Ford F700	R&B22500	1996
1997 Mack DM690S Recycle	POL43500	1996
1998 Ford F700 Clam Truck	R&B22500	1997
1997 Ford F800	R&B22500	1997
1997 Chev 3500 Drill Tank	R&B22500	1997
1998 Ford Louisville Roll	POL43500	1998
1998 Chev 3500 Stake Body	R&B22500	1998
1998 Chev 3500 Crewcab	P&B20503	1998
1999 GMC 3500 Flatbed DU	R&B22500	1999
1999 GMC 3500 Flatbed DU	R&B22500	1999
1999 GMC 3500 Flatbed DU	R&B22500	1999
1999 Olds Intrigue	BLG52500	1999
2000 Chev 3500 Crewcab	R&B22500	1999
1999 Chev Express 2500	FAC20501	1999
2001 Dodge Ram 1500 PU	ANI21000	2000
1999 GMC 3500 Flatbed DU	FAC20501	2000
1999 GMC 3500 Flatbed DU	CSD22502	2000
2001 Chevy Malibu	COD60500	2000
2000 Ford Taurus	VAF67001	2000
2001 Chevy Malibu	NUT61532	2000
2000 Jeep Cherokee	SAF05101	2000
2000 Dodge Caravan	PLN50500	2000
2002 Sterling M800SA	R&B22500	2001
2001 Ford E450	SST61525	2001
2001 Ford E450	SST61525	2001
2001 Chev 1500 Pickup	COR20505	2001
2001 Chev Venture	PLN50500	2001
2002 Ford E450	SST61525	2002
2002 Ford E350 Minibus	SST61525	2002
2005 Ford E350 Minibus	SST61525	2002
2002 Nissan Sentra	PLN50500	2002
2002 Ford Taurus	INFO6002	2002
2002 Dodge 1500 Pickup	FMS23501	2002
2002 Dodge 1500 Pickup	FMS23501	2002
2002 Dodge 1500 Pickup	FAC20501	2002
2002 Dodge 1500 Pickup	FAC20501	2002
2002 GMC 1500 Pickup	R&B22500	2002
2002 Dodge 1500 Pickup	R&B22500	2002
2002 Chev 1500 Pickup	R&B22500	2002
2002 Dodge 1500 Pickup	SWM40000	2002

2002 Dodge 2500 Pickup	POL43500	2002
2003 Ford F150	BLG52500	2002
2002 Dodge Ram 1500 PU	APF63100	2002
2002 Dodge Ram 1500 PU	APK63001	2002
2002 Dodge Ram 1500 PU	ENR52000	2002
2002 Chev Express 2500	FAC20501	2002
2004 Sterling Acterra	POL43500	2003
2003 Ford F350	FAC20501	2003
2003 Ford Taurus	ENR52000	2003
2003 Ford F150	FAC20501	2003
2003 Ford F150 Pickup	FMS23501	2003
2003 Ford F150 Pickup	FAC20501	2003
2003 Ford F150	P&B20503	2003
2003 Ford F150	P&B20503	2003
2003 Ford F150	EMT11001	2003
2003 Ford F150	APM63501	2003
2003 Chev Suburban	FRA12001	2003
2003 Ford F350	R&B22500	2003
2003 Ford F350	FMS23501	2003
2003 Ford F350	FMS23501	2003
2003 Ford E150 Clubwagon	LIB62002	2003
2004 Ford F150	ANI21000	2004
2004 Ford F150 Pickup	FAC20501	2004
2004 Ford F150 Pickup	P&B20503	2004
2004 Ford F350	FMS23501	2004
2005 Sterling MR685S Clam Trk	POL43500	2005
2005 Ford F150	ANI21000	2005
2006 Mack Dump Truck	R&B22500	2005
2006 Mack Dump Truck	R&B22500	2005
2006 Mack Dump Truck	R&B22500	2005
2006 Mack Dump Truck	R&B22500	2005
2006 Mack CHN612 Tractor	R&B22500	2005
2006 Mack CHN612 Tractor	R&B22500	2005
2006 Mack CHN612 Tractor	R&B22500	2005
2005 Ford E350 Aerolite	SST61525	2005
2005 Ford E350	SST61525	2005
2005 Ford E350 Aerolite	SST61525	2005
2005 Ford E350 Aerolite	SST61525	2005
2005 Ford F150 Pickup	FAC20501	2005
2005 Ford F150 Pickup	FAC20501	2005
2005 Ford F150	FAC20501	2005
2005 Ford F150	FAC20501	2005
2005 Ford F150	P&B20503	2005
2005 Ford F150 Pickup	FAC20501	2005
2005 Ford F150	R&B22500	2005
2005 Ford F150	SWM40000	2005

2002 Dodge Ram 1500 PU	BLG52500	2005
2005 Ford F150 Pickup	BLG52500	2005
2005 Ford F150	FRS12000	2005
2005 Ford F150	APK63001	2005
2005 Ford F150	ENG22001	2005
2005 Ford Expedition	FMH14000	2005
2005 Ford Freestar	APM63501	2005
2005 Ford E250	FAC20501	2005
2005 Ford E250	P&B20503	2005
2006 Ford E250	INFO6002	2005
2006 Ford E250	INFO6002	2005
2005 Ford E250	FAC20501	2005
2005 Ford E250	FAC20501	2005
2005 Ford E150 Clubwagon	CMG22004	2005

Vehicles Acquired After 2005- Excluded From Analysis

2007 Sterling Acterra	POL43500	2006
2005 Ford F550	FAC20501	2006
2007 Ford F550	P&B20503	2006
2007 Ford F550	R&B22500	2006
2006 Ford Focus	NUT61532	2006
2006 Ford Focus	NUT61532	2006
2007 Ford Taurus	ENG22001	2006
2007 Ford Taurus	ENG22001	2006
2007 Ford Taurus	CCE	2006
2006 Ford Crown Vict	FRS12000	2006
2006 Ford F150 Pickup	FMS23501	2006
2006 Ford F150	FMS23501	2006
2006 Ford F150 Pickup	COR20505	2006
2006 Ford F150	FAC20501	2006
2006 Ford F150 Pickup	FAC20501	2006
2006 Ford F150 Pickup	FAC20501	2006
2006 Ford F150 Pickup	FAC20501	2006
2006 Ford F150	P&B20503	2006
2006 Ford F150 Pickup	FAC20501	2006
2006 Ford F150 Pickup	P&B20503	2006
2006 Ford F150	R&B22500	2006
2006 Ford F150	R&B22500	2006
2006 Ford F150	POL43500	2006
2006 Ford F150	POL43500	2006
2006 Ford F150 Pickup	KLT42003	2006
2006 Ford F150 Pickup	LKT42002	2006
2006 Ford F150 Pickup	ENR52000	2006
2006 Ford F150 Pickup	ENR52000	2006
2005 Ford F150	BLG52500	2006

2006 Ford F150	BLG52500	2006
2011 Ford F150	BLG52500	2006
2006 Ford F150	COD60500	2006
2006 Ford F150	COD60500	2006
2006 Ford F150 Pickup	COD60500	2006
2006 Ford F150	COD60500	2006
2006 Ford F150 Pickup	ENR52000	2006
2006 Ford F150	COD60500	2006
2006 Ford F150 Crew	SST61525	2006
2006 Ford F150 Ext Cab	APM63501	2006
2006 Ford F150 Ext Cab	APK63001	2006
2006 Ford F150 Pickup	CMG22004	2006
2006 Ford F150	CMG22004	2006
2006 Ford Explorer	PLN50500	2006
2006 Ford Explorer	EMG13500	2006
2006 Ford Expedition	FRS12000	2006
2006 Ford Explorer	FRC11500	2006
2006 Ford Explorer	APM63501	2006
2006 Dodge 2500	COR20505	2006
2006 Ford F250	FAC20501	2006
2006 Ford F250	POV62610	2006
2006 Ford Expedition	FMH 14000	2006
2006 Ford E250	FAC20501	2006
2006 Chev Uplander	EXT61000	2006
2006 Ford E250	FAC20501	2006
2006 Ford E150 Clubwagon	COR20505	2006
2006 Ford E150 Clubwagon	BAY61504	2006
2006 Ford E150 Clubwagon	SST61525	2006
2007 Ford E150	ANI21000	2007
2007 Ford F 550 Bucket	R&B22500	2007
2007 Ford F550	R&B22500	2007
2007 Ford F550	R&B22500	2007
2007 Sterling SLT9500	POL43500	2007
2006 GMC Turtle Top	SST61525	2007
2007 GMC Bus, Transport	SST61525	2007
2007 Ford Focus	SSA61501	2007
2007 Chev Malibu	BLG52500	2007
2007 Chev Malibu	COD60500	2007
2007 Chev Malibu	COD60500	2007
2007 Chev Malibu	COD60500	2007
2007 Chev Malibu	EMG13500	2007
2007 Chev Malibu	OMB06001	2007
2007 Ford Crown Vict	APF63100	2007
2007 Ford F150 Pickup	FAC20501	2007
2007 Ford F150 Pickup	FAC20501	2007
2007 Ford F150 Pickup	FAC20501	2007

2007 Ford F150 Pickup	P&B20503	2007
2007 Ford F150 Pickup	P&B20503	2007
2007 Ford F150 Pickup	R&B22500	2007
2007 Ford F150 Pickup	R&B22500	2007
2007 Ford F150 Pickup	ENR52000	2007
2007 Ford F150 Pickup	PLN50500	2007
2007 Ford F150 Pickup	PLN50500	2007
2006 Ford F150	BLG52500	2007
2007 Ford F150 Pickup	COD60500	2007
2007 Ford F150 Pickup	ENG22001	2007
2007 Ford F150 Pickup	CSD22502	2007
2007 Ford Explorer	APK63001	2007
2008 Ford F350	FAC20501	2007
2007 Dodge Caravan Van	EXT61000	2007
2007 Dodge Caravan Van	SSA61501	2007
2008 Sterling Aceterra Bucket	CSD22502	2008
2009 Chev 3500 Glaval Bus	SST61525	2009
2010 Ford F150	R&B22500	2009
2001 Chev Silverado	APK63001	2009
2010 Ford Fusion	EMG13500	2010
2010 Ford Crown Vict	FRS12000	2010
2011 Ford F750	R&B22500	2011
2011 Ford F350	R&B22500	2011
2011 Ford F350	R&B22500	2011
2011 Ford Fusion	PLN50500	2011
2007 Ford F150 Pickup	BLG52500	2011
2011 Ford F150	EMG13500	2011
2011 Ford F150	CSD22502	2011
2011 Ford Escape Hybrid	SWM40000	2011
2011 Ford Escape Hybrid	SWM40000	2011
2011 Chev 2500 Pickup	FRA12001	2011
2011 Ford F350 Crew	FAC20501	2011
2011 Ford F350 Crew	P&B20503	2011
2011 Chev Express 2500	FAC20501	2011
2011 GMC 3500	FRC11500	2011

APPENDIX B

Greenhouse Gas Inventory Management Plan

Monroe County Simplified Inventory Management Plan

Version Information:

Item	Description	
A.	Version Number of IMP:	V1
B.	Date IMP Completed:	8 17 2011

Partner Information:

Item	Description	
1.	Company Name:	Monroe County, Florida
2.	Corporate Address:	102050 Overseas Hwy. Suite 244 Key Largo, FL. 33037
3.	Inventory Contact:	Alicia Betancourt
4.	Inventory Contact Information:	Phone: (305) 453-8747 or cell (305) 797-1086 Fax: (305) 453-8749 betancourt-alicia@monroecounty-fl.gov

Boundary Conditions:

Item	Description	Selection (Check one)	Boundary Selection Approach
5.	Organizational Boundary: (*Select the organizational boundary approach used for GHG inventory*.)		Equity Approach
			Control Approach (Financial Control)
		X	Control Approach (Operational Control)

Item	Description	Boundary Selection Process
5A.	Organizational Boundary Selection Process: (Describe how the organizational boundary selection approach was chosen.)	Monroe County defines its organizational boundary using operational control approach, reporting 100% of emissions for facilities and operations for which it controls operational decisions. It does not account for GHG emissions from operations in which it owns an interest but has no control. In some instances, facilities under the operational control of Monroe County lease space to a 3rd party. In most cases, this Although the Monroe County Board of County Commissioners holds some funding authority over agencies, Monroe County has excluded the following departments from its inventory as they are not under their operational control: Election Guidance Clinic Mid Keys FL Fish and Wildlife Cons Com FL Highway Patrol Monroe County School Board Tax Collector

		Property Appraiser Health (H.R.S.) Sheriff Marathon Fire Dept Marathon City Hall Clerk of Court Internal Audit Monroe County has also chosen to exclude landfill gas emissions (LFG) from their inventory at this time. While the County recognizes this is a source of relevant GHG emissions, it is not feasible or cost-effective to accurately calculate fugitive LFG emissions for their 2005 baseline year.

Item	Description	Company Facilities
6.	List of Facilities Included Under Selected Organizational Boundary: (*List all of the Organization-wide facilities included under the selected organizational boundary and include the ownership status (i.e. own/lease) for each facility.*)	*pending*

Item	Description	GHG	Company Operations
7.	List of Operations or Source Categories for each GHG: (*For each GHG, list the operation or source that contributes to those emissions. For example: Natural gas boilers would be listed for CO_2, CH_4 and N_2O.*)	Carbon Dioxide (CO_2):	Indirect emissions associated with purchased electricity used in buildings to provide energy for equipment Direct emissions associated combustion of gasoline and diesel in a fleet of vehicles; some small stationary combustion sources
		Methane (CH_4):	Indirect emissions associated with purchased electricity used in buildings to provide energy for equipment Direct emissions associated combustion of gasoline and diesel in a fleet of vehicles; some small stationary combustion sources
		Nitrous Oxide (N_2O):	Indirect emissions associated with purchased electricity used in buildings to provide energy for equipment Direct emissions associated combustion of gasoline and diesel in a fleet of vehicles; some small stationary combustion sources

		Hydrofluorocarbons (HFCs)	*Excluded* Although Monroe County acknowledges that emissions in this category are present within the defined GHG inventory boundary (associated with fugitive refrigerant leaks from building and vehicle air conditioning units)
		Perfluorocarbons (PFCs):	*Excluded*
		Sulfur Hexafluoride (SF_6):	*Excluded*

Item	Description	Procedure
8.	Emission Source Identification Procedure: (*Describe the procedure used to identify each source of GHG emissions for the organization.*)	The primary source of activity data used to calculate emissions is derived from financial accounting and environmental reporting procedures. There is no centralized management of all reported sources, therefore the GHG inventory was created expressly for the purpose of the GHG inventory. As the majority of sources are associated with operation of buildings and lighting, the Public Works department database was used in conjunction with accounting information to generate a complete list of facilities. Vehicle fuel use was extrapolated from total fuel purchased in 2005. Some adjustment was made to these values to remove sources outside of the Operational Control of Monroe County (such as Sherriff vehicle fleet). As some records were lost in 2005 due to a hurricane, financial records were used to estimate portional share of total fuel used by various departments and agencies.

Item	Description	Emission Sources
9.	Organization-wide Direct Sources of GHG Emissions: (*List the company direct sources of GHG emissions.*)	County-wide direct sources of GHG emissions are as follows: Mobile Combustion (vehicle fleet): Diesel Mobile Combustion (vehicle fleet): Gasoline ALL FUGITIVE EMISSIONS ARE EXCLUDED Fugitive methane (from landfill) Fugitive HFCs
10.	Organization-wide Indirect Sources of GHG Emissions: *(List the company indirect sources of GHG emissions.*)	County-wide indirect sources of GHG emissions are as follows: Purchased Electricity for buildings/facilities, streetlights/traffic signals, and airport facilities

11.	Organization-wide Optional Sources of GHG Emissions: (*List the company optional sources of GHG emissions.*)	N/A – Monroe County is not reporting or tracking any optional sources at this time.
12.	Use of RECs to reduce GHG emissions. (*State whether the company will use green power to reduce its indirect electricity emissions only. Note that green power cannot be used to reduce any other category of emissions. The company must purchase RECs in conformance with EPA's guidance for purchasing RECs.* *See EPA's Guidance for Green Power Purchases http://www.epa.gov/climateleaders/documents/greenpower_guidance.pdf)*	N/A - none
13.	Use of Offset Projects to reduce GHG emissions. *(State whether the company will use offsets to help achieve its GHG reduction goal. The company must purchase offsets from projects that are in conformance with EPA's guidance for purchasing offsets. Offset projects must be approved by EPA prior to being eligible for goal achievement. It is strongly advised that the company submit the offset project to EPA early in their participation in the program to ensure that the offsets can be applied to their GHG inventory for the intended year.)*	N/A - none

Emissions Quantification:

Item	Description	Method
14.	Quantification Method: (*List the quantification method used to determine the company GHG inventory. Default methods are provided. If other methods are used list the methods.*)	Stationary Sources: CACP software has been used to calculate all emissions sources. All activity data (kWh, therms, gallons, etc.) was entered into the CACP software, which automatically calculates emissions using embedded formulas and emissions factors
15.	Emission Factors and Other Constants:	As above – all emissions factors are embedded in ICLEI tool

	(*List the source of emission factors and other constants used to develop the company GHG inventory. Default methods are provided. If other methods are used list the methods.*)	

Data Management:

Item	Description	Method
16.	Activity Data: (*List the source of data used to determine the Organization-wide GHG emissions for each category*.)	Stationary Sources: *Pending* Mobile Sources: Gallons (of gasoline and diesel fuels) from annual purchase records. Additional handling of the data using financial purchase records to modify total fuel from records in order to account for exclusion of sources (such as Sherriff) outside of the GHG reporting boundaries. Indirect Electricity/Steam Purchases: kWh – from utility purchase records. Some cross-checking was done between lists maintained by Facilities division and information from accounting/utility
17.	Data Management: (*Describe the general process in place to gather data for the development of the GHG inventory*.)	Utility information is derived from accounting information previously maintained for financial purposes. However, the list of facilities maintained does not exactly match GHG reporting boundaries, so some external adjustment is required.

Item	Description	Method
18.	Data Collection Process – Quality Assurance: (*Describe the general process in place to assure the quality of the data gathered for the development of the GHG inventory*.)	Limited QA/QC on data set (inherent feature of the non-centralized nature of data used for emissions calculations)
19.	Data Collection System Security: (*Describe the general process in place to assure the security of the data gathered for the development of the GHG inventory*.)	*Pending*
20.	Integrated Tools: (*Describe how the GHG inventory procedures are integrated into existing company tools or procedures*.)	*Pending*
21.	Frequency:	*Pending*

	(*Describe the frequency for data to be reported to the company designated point of contact for the development of the GHG inventory*.)	

Base Year:

Item	Description	Method
22.	Adjustment – Structural Changes: (*List the structural changes that will lead to an adjustment of the company base year emissions. Default adjustments are provided. If other methods are also used include the methods.*)	*Pending*
23.	Adjustment – Methodology Changes: (*List the methodology changes that will lead to an adjustment of the company base year emissions. Default adjustments are provided. If other methods are also used include the methods.*)	*Pending*

Management Tools:

Item	Description	Method
24.	Roles and Responsibilities: (*List roles and responsibilities of company personnel involved with GHG inventory development*.)	*Pending*
25.	Training: (*List any training of company personnel specific to the development of the Organization-wide GHG inventory*.)	*Pending*
26.	Document Retention and Control Policy: (*List the company retention and control policy for any documents related to the development of the GHG inventory*.)	*Pending*

Auditing and Verification:

Item	Description	Method
27.	Internal Auditing: *(Internal procedures used to verify accuracy of GHG inventory*.)	*Pending*
28.	External Validation and/or Verification:	There has been no formal verification of the GHG inventory,

	(*External procedures (i.e. EPA contractors or 3rd party verifiers) used to verify accuracy of GHG inventory*.)	although historical (year 2005) information was reviewed by a 3rd party (Cameron-Cole, LLC) for conformance with GHG accounting principles, completeness and accuracy.
29.	Management Review: (*Management review process used to verify accuracy of GHG inventory*.)	High-level discussion of boundary and source selection as well as multi-departmental review of emissions sources and facilities list
30.	Date of Submission of Offset Project(s) to EPA for Review and Approval *(Dates that offset projects were submitted for EPA approval or anticipated future dates that offset projects will be sent to EPA for review and approval.)*	N/A
31.	Corrective Action: (*Description of how corrective actions from reviews are implemented*.)	*Pending*

APPENDIX C

Activity Worksheets

EECBG Activity Worksheet

Grantee: MONROE COUNTY BOARD OF COUNTY COMMISSIONERS Date: 11/10/2011

DUNS #: 7387657 Program Contact Email: haag-rhonda@monroecounty-fl.gov

Program Contact First Name: Rhonda Last Name: Haag

Project Title: Keys Energy Conservation Initiative

Activity: 2. Technical Consultant Services If Other:

Sector: All Sectors If Other:

Proposed Number of Jobs Created: 1.00 Proposed Number of Jobs Retained:

Proposed Energy Saved and/or Renewable Energy Generated: Undetermined with calculator

Proposed GHG Emissions Reduced (CO2 Equivalents):

Proposed Funds Leveraged: $105,661.00

Proposed EECBG Budget: 30,000.00

Projected Costs Within Budget: Administration: Revolving Loans: Subgrants: $30,000.00

Project Contact First Name: Alicia Last Name: Betancourt Email: Betancourt-Alicia@monroecounty-fl.gov

Metric Activity: Workshops, Training, and Education If Other:

Project Summary: *(limit summary to space provided)*

Task 2 - Energy Efficiency Educational Video Communication and Outreach

The Grantee will facilitate the production of a 15-minute video and radio segment for National Public Radio (NPR) to highlight the Keys Energy Conservation Initiative 2010. The educational and outreach materials will be available on local government websites and television channels. The materials will be disseminated by CD, DVD and email. Additionally, the Grantee will hold 12 educational workshops for commercial and residential energy efficiency measures. Outreach components of this project will increase the number of Green Living and Education (GLEE) Certified Green Business Partnerships by 100%.

Objective: To create an educational workshop for commercial and residential energy efficiency measures and a 15-minute video and radio segment to highlight the Keys Energy Conservation Initiative 2010

- Task 2a: Execute contract with Environmental Education Foundation.
- Task 2b: Develop video content.
- Task 2c: Produce video, upload to county website and provide to local governments for distribution.
- Task 2d: Produce radio segment for Radio Green Earth show on NPR.
- Task 2e: Coordinate educational outreach technical assistance workshops for businesses and residents.
- Task 2f: Increase the number of GLEE Certified Green Business partnerships by 100%.
- Task 2g: Submit a copy of all educational materials and video to the Commission documenting the energy efficiency conservation impacts of the project.

Deliverables/ Outputs:

1.Execute contract with Environmental Education Foundation

2.Develop content and produce energy educational video

3.Submit outline of content to Commission and place on County website.

4.Produce radio segment Radio segment broadcasted on NPR.

*If you are proposing more than one activity, save this file as many times as needed with successive page numbers. For example: "OH-CITY-Columbus-Project Activity **page 1**.pdf," "OH-CITY-Columbus-Project Activity **page 2**.pdf," and continue as needed.*

EECBG Activity Worksheet

Grantee: Monroe County Board of County Commissioners Date: 11/11/2011

DUNS #: 7387657 Program Contact Email: haag-rhonda@monroecounty-fl.gov

Program Contact First Name: Rhonda Last Name: Haag

Project Title: Keys Energy conservation Initiative 2010

Activity: 5. Energy Efficiency Retrofits If Other:

Sector: Public If Other:

Proposed Number of Jobs Created: 8.00 Proposed Number of Jobs Retained:

Proposed Energy Saved and/or Renewable Energy Generated: 30% reduction of kWH/yr = 1,218,888

Proposed GHG Emissions Reduced (CO2 Equivalents):

Proposed Funds Leveraged: $69,400.00

Proposed EECBG Budget: 700,000.00

Projected Costs Within Budget: Administration: Revolving Loans: Subgrants: $700,000.00

Project Contact First Name: Bob Last Name: Stone Email: Stone-Bob@MonroeCounty-FL.Gov

Metric Activity: Building Retrofits If Other:

Project Summary: *(limit summary to space provided)*

Task 6 - County Facilities Energy Audit and Retrofit

The Grantee will implement energy efficiency measures, based upon audit findings, at four Monroe County facilities, located in Key West, with a total square footage of 197,823 and an annual energy cost of $534,019. An energy audit allowed the Grantee to develop base-line energy use and an in-depth report of quantifiable energy conservation recommendations to determine the most cost effective improvements and to ensure the best possible use of the retrofit funds. The building retrofits will emphasize efficiency and may include retrofit lighting, insulation, heating, ventilation and air-conditioning (HVAC) upgrades, training programs for operation and facility users and monitoring systems.

Objective 6: To reduce power consumption within the county by implementing energy efficiency measures as recommended by an energy audit of four county facilities.

- Task 6a: Select a vendor following the procurement procedures outlined in 10 CFR 600, for an engineering firm to conduct Grade Energy Audits for four county facilities located in Key West.

- Task 6b: Create a scope of work and construction bid documents based on energy audit findings.

- Task 6c: Implementation and installation of energy efficiency measures as approved by the Commission and recommended in the audit report.

- Task 6d: Submit a report to the Commission including the audit report, photographs of the installed systems, utility bills documenting energy reduction, and invoices from both the manufacturer and the installer.

Activity Description / Deliverables/ Outputs

1. Select a vendor following the procurement procedures outlined in 10 CFR 600, for an engineering firm to conduct Grade Energy Audits for four county facilities located in Key West

2. Conduct a detailed investment grade audit.

3. Define scope of work for retrofits as recommended in energy audit. Submit scope of work to Commission for approval.

4. Execute contract for facility retrofits Board of County Commissioners approval and execution.

5. Complete installation of energy efficiency retrofits.

6. Complete measurement and verification.

7. Final Report.

*If you are proposing more than one activity, save this file as many times as needed with successive page numbers. For example: "OH-CITY-Columbus-Project Activity **page 1**.pdf," "OH-CITY-Columbus-Project Activity **page 2**.pdf," and continue as needed.*