



Key Biscayne Green Initiatives Survey



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Green Committee Mission Statement

The role of the Green Committee is to advise and support the Village Mayor and Council by identifying efficient and ecological best practices and tangible protocols and recommending strategies to implement such practices, ensuring the sustainable management of Village resources for current and future generations of the Key Biscayne Community.

Green Committee Members

Derek Duzoglou – Chair

Julie Dick – Vice Chair

Gretchen Clark

Cindy Cutler

Antonio Gisbert

Monica Larriva

Daniel MacCrohon

Council Liasion to the Committee

Councilmember Theodore Holloway

Village Staff to the Committee

Jud Kurlancheek

The Committee

When the Green Committee was first established, our main focus was on the creation of a comprehensive Sustainability Plan for the Village. Since its inception, the Green Committee has met with people who have held active roles in laying the framework for such plans (i.e. with Miami-Dade County's Green Print Program), which has provided valuable insight as to our future.

With such information in our arsenal, a Sustainability Plan for the Village still remains one of our main objectives, but with more of a long-term forecast. With a push from Committee members, we have decided to focus our efforts on small-scale projects that still have the potential for change – both financially and environmentally.

The Survey

Through a more narrowed focus, we initiated the Green Initiatives Survey to get a “pulse” on existing conditions throughout Village Departments. The Survey was developed by the Green Committee over the course of several meetings, and is comprised of eight (8) sections which are very generic in nature, but still provide enough insight as to where we stand today. There are four possible answer categories, which are broken down as follows:

Possible Answer Categories

Yes	2.86 Point Value	I Don't Know	No Point Value
No	No Point Value	Future Goal	1.43 Point Value

Survey Sections

1. Sustainability Management (6 Questions – 26 Possible Points)
2. Performance Metrics (2 Questions – 9 Possible Points)
3. Existing Facilities (3 Questions – 13 Possible Points)
4. Green Purchasing (7 Questions – 30 Possible Points)
5. Energy Efficiency (6 Questions – 26 Possible Points)
6. Water Conservation (5 Questions – 21 Possible Points)
7. Transportation (3 Questions – 13 Possible Points)
8. Waste Reduction (3 Questions – 13 Possible Points)

This analysis report provides the scores for each of the Departments, as well as supplementary information that was obtained from one-on-one meetings with the Department heads themselves.



KB Parks & Recreation

Green Initiatives Survey Analysis

Answer Key	Y	Yes	Point Value - 2.86 each
	N	No	Point Value - 0
	IDK	I Don't Know	Point Value - 0
	F	Future	Point Value - 1.43 each

*Note: the resulting scores take into consideration the point values from both 'Yes' and 'Future' answers, where the 'Yes' answers hold a higher value and contribute more to the overall score.

Category	Sustainability Management				Performance Metrics				Existing Facilities				Green Purchasing				Energy Efficiency			
	Y	N	IDK	F	Y	N	IDK	F	Y	N	IDK	F	Y	N	IDK	F	Y	N	IDK	F
Dept. Parks & Recreation	3	2	1	0	0	2	0	0	2	0	1	0	0	3	4	0	3	2	1	0

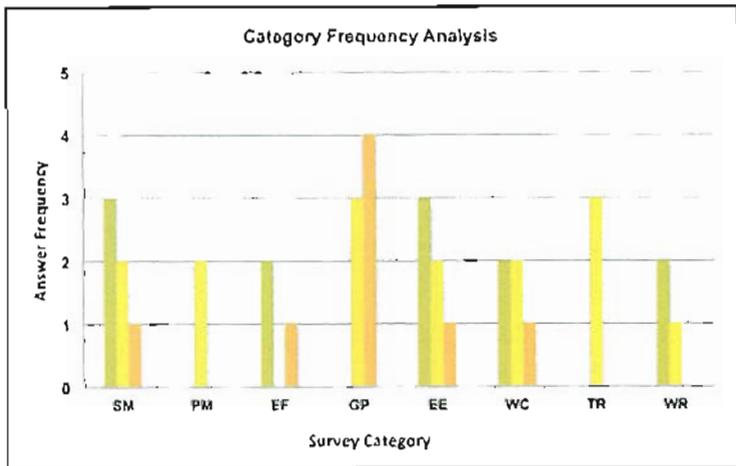
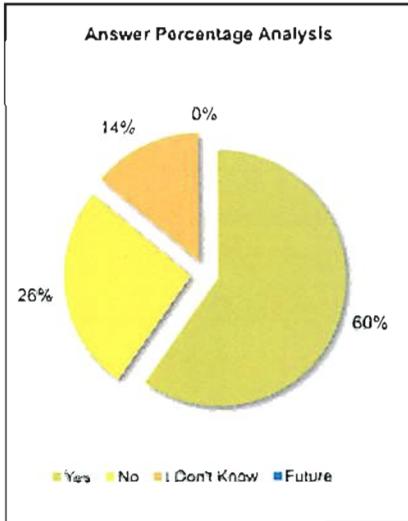
Category	Water Conservation				Transportation				Waste Reduction				Totals				Final Score
	Y	N	IDK	F	Y	N	IDK	F	Y	N	IDK	F	Y	N	IDK	F	
Dept. Parks & Recreation	2	2	1	0	0	3	0	0	2	1	0	0	34	15	8	0	34

Answer Percentage Analysis

	Totals	%
Yes	34	60%
No	15	26%
I Don't Know	8	14%
Future	0	0%
	57	100%

Category Frequency Analysis

Survey Category	Y	N	IDK	F
1 SM Sustainability Management	3	2	1	0
2 PM Performance Metrics	0	2	0	0
3 EF Existing Facilities	2	0	1	0
4 GP Green Purchasing	0	3	4	0
5 EE Energy Efficiency	3	2	1	0
6 WC Water Conservation	2	2	1	0
7 TR Transportation	0	3	0	0
8 WR Waste Reduction	2	1	0	0





KB Building, Zoning & Planning

Green Initiatives Survey Analysis

Answer Key	Y	Yes	Point Value - 2.86 each
	N	No	Point Value - 0
	IDK	I Don't Know	Point Value - 0
	F	Future	Point Value - 1.43 each

*Note: the resulting scores take into consideration the point values from both 'Yes' and 'Future' answers, where the 'Yes' answers hold a higher value and contribute more to the overall score.

Category	Sustainability Management				Performance Metrics				Existing Facilities				Green Purchasing				Energy Efficiency			
	Y	N	IDK	F	Y	N	IDK	F	Y	N	IDK	F	Y	N	IDK	F	Y	N	IDK	F
Dept. BZP	3	2	1	0	1	1	0	0	2	0	1	0	2	5	0	0	1	4	1	0

Category	Water Conservation				Transportation				Waste Reduction				Totals				Final Score
	Y	N	IDK	F	Y	N	IDK	F	Y	N	IDK	F	Y	N	IDK	F	
Dept. BZP	2	3	0	0	0	3	0	0	2	1	0	0	37	19	3	0	37

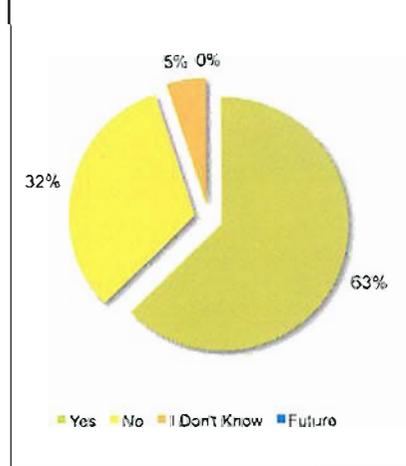
Answer Percentage Analysis

	Totals	%
Yes	37	63%
No	19	32%
I Don't Know	3	5%
Future	0	0%
	59	100%

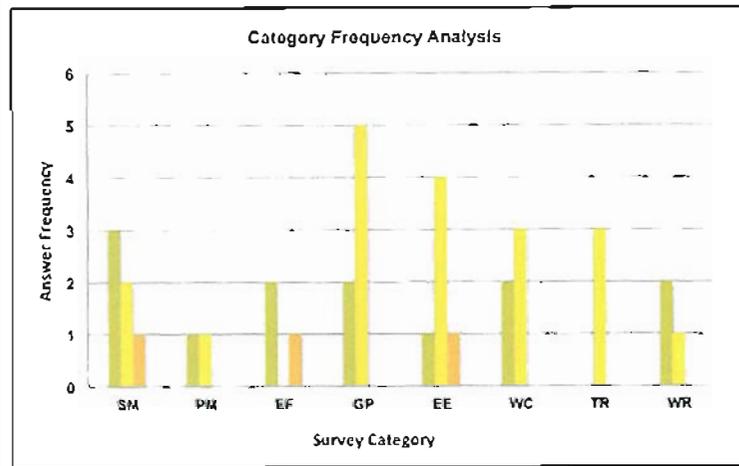
Category Frequency Analysis

Survey Category	Y	N	IDK	F
1 SM Sustainability Management	3	2	1	0
2 PM Performance Metrics	1	1	0	0
3 EF Existing Facilities	2	0	1	0
4 GP Green Purchasing	2	5	0	0
5 EE Energy Efficiency	1	4	1	0
6 WC Water Conservation	2	3	0	0
7 TR Transportation	0	3	0	0
8 WR Waste Reduction	2	1	0	0

Answer Percentage Analysis



Category Frequency Analysis





KB Buildings

Green Initiatives Survey Analysis

Answer Key	Y	Yes	Point Value - 2.85 each
	N	No	Point Value - 0
	IDK	I Don't Know	Point Value - 0
	F	Future	Point Value - 1.43 each

*Note: the resulting scores take into consideration the point values from both 'Yes' and 'Future' answers, where the 'Yes' answers hold a higher value and contribute more to the overall score.

Category	Sustainability Management				Performance Metrics				Existing Facilities				Green Purchasing				Energy Efficiency			
	Y	N	IDK	F	Y	N	IDK	F	Y	N	IDK	F	Y	N	IDK	F	Y	N	IDK	F
Dept. KB Buildings	3	2	1	0	1	1	0	0	2	0	1	0	2	1	2	2	4	1	1	0

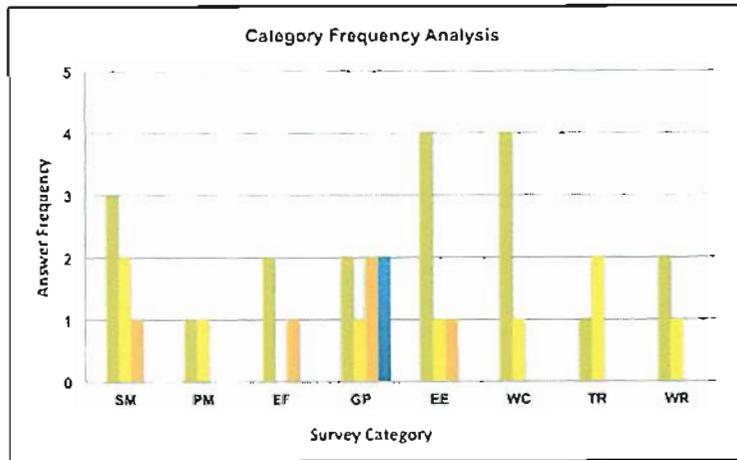
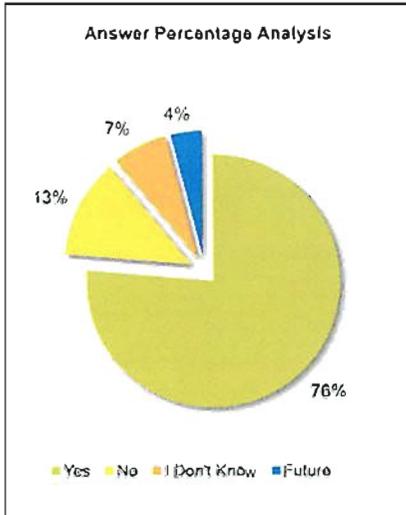
Category	Water Conservation				Transportation				Waste Reduction				Totals				Final Score
	Y	N	IDK	F	Y	N	IDK	F	Y	N	IDK	F	Y	N	IDK	F	
Dept. KB Buildings	4	1	0	0	1	2	0	0	2	1	0	0	54	9	5	3	57

Answer Percentage Analysis

	Totals	%
Yes	54	76%
No	9	13%
I Don't Know	5	7%
Future	3	4%
	71	100%

Category Frequency Analysis

Survey Category	Y	N	IDK	F
1 SM Sustainability Management	3	2	1	0
2 PM Performance Metrics	1	1	0	0
3 EF Existing Facilities	2	0	1	0
4 GP Green Purchasing	2	1	2	2
5 EE Energy Efficiency	4	1	1	0
6 WC Water Conservation	4	1	0	0
7 TR Transportation	1	2	0	0
8 WR Waste Reduction	2	1	0	0





KB Fire Rescue Department Green Initiatives Survey Analysis

Answer Key	Y	Yes	Point Value - 2.86 each
	N	No	Point Value - 0
	IDK	I Don't Know	Point Value - 0
	F	Future	Point Value - 1.43 each

*Note: the resulting scores take into consideration the point values from both 'Yes' and 'Future' answers, where the 'Yes' answers hold a higher value and contribute more to the overall score.

Category	Sustainability Management				Performance Metrics				Existing Facilities				Green Purchasing				Energy Efficiency			
	Y	N	IDK	F	Y	N	IDK	F	Y	N	IDK	F	Y	N	IDK	F	Y	N	IDK	F
Dept. Fire Rescue	2	4	0	0	0	2	0	0	0	2	0	0	3	4	0	0	2	3	1	0

Category	Water Conservation				Transportation				Waste Reduction				Totals				Final Score
	Y	N	IDK	F	Y	N	IDK	F	Y	N	IDK	F	Y	N	IDK	F	
Dept. Fire Rescue	1	1	3	0	1	2	0	0	2	1	0	0	31	19	4	0	31

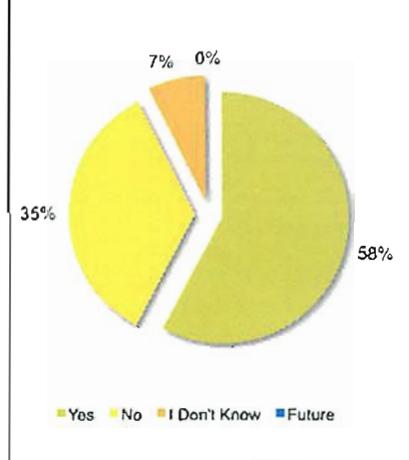
Answer Percentage Analysis

	Totals	%
Yes	31	58%
No	19	35%
I Don't Know	4	7%
Future	0	0%
	54	100%

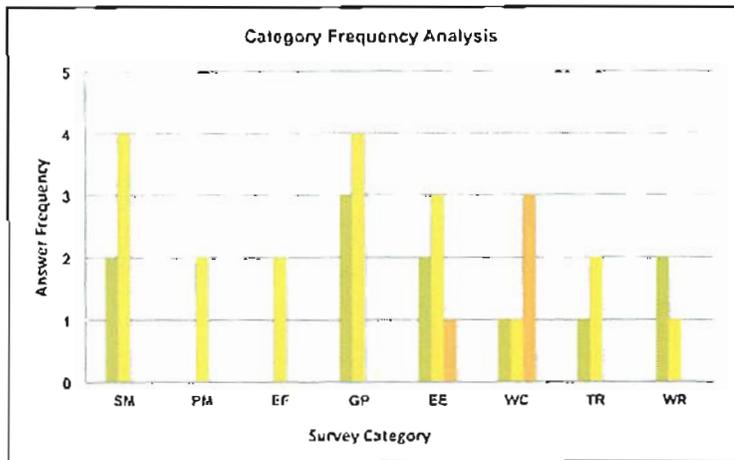
Category Frequency Analysis

Survey Category	Y	N	IDK	F
1 SM Sustainability Management	2	4	0	0
2 PM Performance Metrics	0	2	0	0
3 EF Existing Facilities	0	2	0	0
4 GP Green Purchasing	3	4	0	0
5 EE Energy Efficiency	2	3	1	0
6 WC Water Conservation	1	1	3	0
7 TR Transportation	1	2	0	0
8 WR Waste Reduction	2	1	0	0

Answer Percentage Analysis



Category Frequency Analysis





KB Police Department Green Initiatives Survey Analysis

Answer Key	Y	Yes	Point Value - 2.86 each
	N	No	Point Value - 0
	IDK	I Don't Know	Point Value - 0
	F	Future	Point Value - 1.43 each

***Note:** the resulting scores take into consideration the point values from both 'Yes' and 'Future' answers, where the 'Yes' answers hold a higher value and contribute more to the overall score.

Category	Sustainability Management				Performance Metrics				Existing Facilities				Green Purchasing				Energy Efficiency			
	Y	N	IDK	F	Y	N	IDK	F	Y	N	IDK	F	Y	N	IDK	F	Y	N	IDK	F
Dept. Police	2	4	0	0	0	2	0	0	0	2	1	0	2	4	1	0	1	4	1	0

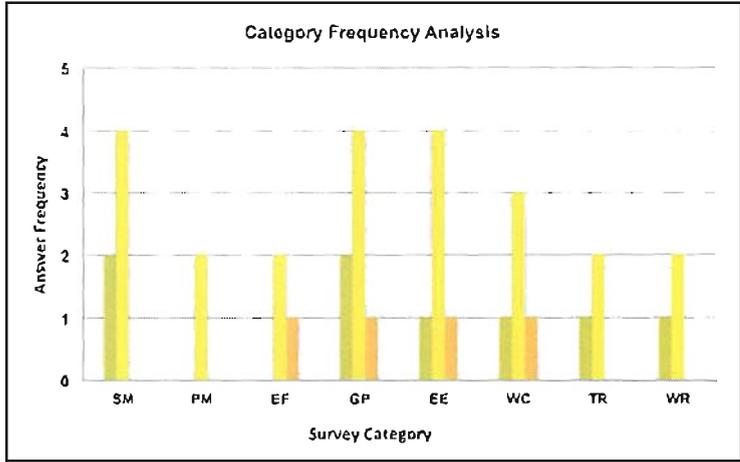
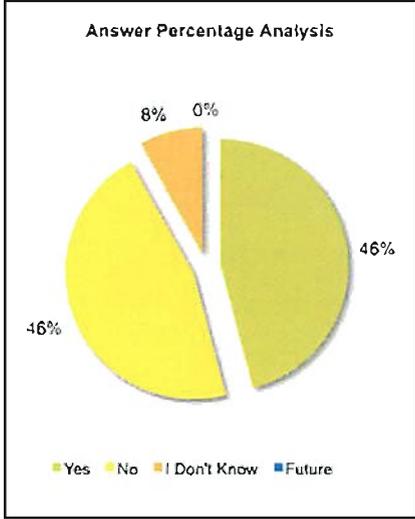
Category	Water Conservation				Transportation				Waste Reduction				Totals				Final Score
	Y	N	IDK	F	Y	N	IDK	F	Y	N	IDK	F	Y	N	IDK	F	
Dept. Police	1	3	1	0	1	2	0	0	1	2	0	0	23	23	4	0	23

Answer Percentage Analysis

	Totals	%
Yes	23	46%
No	23	46%
I Don't Know	4	8%
Future	0	0%
	50	100%

Category Frequency Analysis

Survey Category	Y	N	IDK	F
1 SM Sustainability Management	2	4	0	0
2 PM Performance Metrics	0	2	0	0
3 EF Existing Facilities	0	2	1	0
4 GP Green Purchasing	2	4	1	0
5 EE Energy Efficiency	1	4	1	0
6 WC Water Conservation	1	3	1	0
7 TR Transportation	1	2	0	0
8 WR Waste Reduction	1	2	0	0





KB Manager's & Clerk's Office

Green Initiatives Survey Analysis

Answer Key	Y	Yes	Point Value - 2.86 each
	N	No	Point Value - 0
	IDK	I Don't Know	Point Value - 0
	F	Future	Point Value - 1.43 each

*Note: the resulting scores take into consideration the point values from both 'Yes' and 'Future' answers, where the 'Yes' answers hold a higher value and contribute more to the overall score.

Category	Sustainability Management				Performance Metrics				Existing Facilities				Green Purchasing				Energy Efficiency			
	Y	N	IDK	F	Y	N	IDK	F	Y	N	IDK	F	Y	N	IDK	F	Y	N	IDK	F
Dept. Manager/Clerk Office	2	4	0	0	0	2	0	0	2	0	1	0	3	4	0	0	3	3	0	0

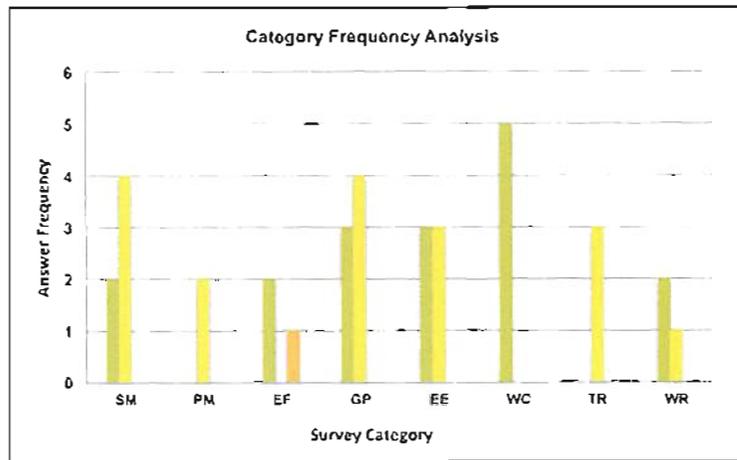
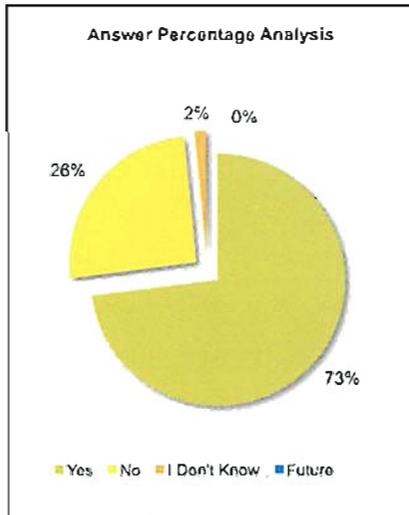
Category	Water Conservation				Transportation				Waste Reduction				Totals				Final Score
	Y	N	IDK	F	Y	N	IDK	F	Y	N	IDK	F	Y	N	IDK	F	
Dept. Manager/Clerk Office	5	0	0	0	0	3	0	0	2	1	0	0	49	17	1	0	49

Answer Percentage Analysis

	Totals	%
Yes	49	73%
No	17	26%
I Don't Know	1	2%
Future	0	0%
	67	100%

Category Frequency Analysis

Survey Category		Y	N	IDK	F
1	SM Sustainability Management	2	4	0	0
2	PM Performance Metrics	0	2	0	0
3	EF Existing Facilities	2	0	1	0
4	GP Green Purchasing	3	4	0	0
5	EE Energy Efficiency	3	3	0	0
6	WC Water Conservation	5	0	0	0
7	TR Transportation	0	3	0	0
8	WR Waste Reduction	2	1	0	0



Department Head Meeting – Parks & Recreation (10-28-13)

- The Community Center pool has a geothermal heating system installed – was done during construction of the facility.
- Offices are involved in an ink cartridge recycling program, for which they receive a check.
- Currently involved in efficient lighting initiatives for the common areas around the Village:
 - Beach park & pavilion areas
 - Footer lighting
 - Village Green, St. Agnes Field and MAST Academy
- Interested in getting involved with some sort of Green Certification (i.e. LEED for EBOM – Existing Buildings Operation & Maintenance).
- 5 years ago a computer operated HVAC system was put in place to regulate temperature fluctuations and cooling demands.
- Coffee cups are recycled.
- Interested in participating in an inner-departmental challenge.
- Filtration system in place to avoid the purchase of water bottles.
- Community Center has made a switch to e-communication.
 - E-brochures
 - E-blasts (via Constant Contact)
 - Much of sports registration is now done online
- Interest in using garage as a pilot project for energy efficient lighting (16,000 square feet of space with lighting provided 24 hours/day).
- Would like to do a cost benefits analysis for the use of turf at St. Agnes & Village Green

Department Head Meeting – BZP (10-28-13)

- Involved in program for recycling of batteries and light bulbs.
- Would like to improve community outreach initiatives to create awareness.
- Doggy stations at dog park all use biodegradable bags.
- Bagless recycling has been initiated in offices.
- At the end of each year, Village letter head that is no longer usable is recycled into note pads which are distributed to office employees.
- One company handles purchasing for office materials, supplies and furniture. Parks are the responsibility of Public Works.
- Would like to remove aerosol cans from list of cleaning products.
- Immediate future goal is to switch to a program that focuses on green cleaning products.
- Involved in “switch off the lights” program for energy efficiency.
- The BZP planning room has motion sensors.
- Lights in the Village Council are left on all day.

Department Head Meeting – Building Engineer (10-28-13)

- Bidding process -> requires vendors not to use aerosol for cleaning and maintenance contracts.
- An interest has been shown to implement an EMS (Energy Management System) in the Community Center to control and monitor HVAC, lighting, water, etc.
- New temperature control units were recently installed.
- Two units on the roof of the Community Center were replaced (8 ton & 12 ton), both of which were upgraded to higher efficiency rating.
- Village Hall recently replaced two (2) 25 ton units.
- Would like to have a study done on existing facility conditions/equipment for baseline analysis.

Department Head Meeting – Fire Department (10-30-13)

- No one person responsible for purchasing for the department – seen as an internal weakness.
- Interest shown in conversion of a natural gas generator for autonomy.
- Entire building is covered by Coastal Building Maintenance as other departments are for basic supplies.
- LED lighting has been brought up in previous discussions – to be brought up in upcoming capital maintenance programs.
- Potential reduction in fleet vehicle size, and where possible, the conversion to hybrid vehicles (long term goal of switching to hybrid fire trucks and ambulances).
- Involved in the recycling of cans & bottles within the department.
- Interest shown in the conversion to green/natural cleaning products.
- Would like to have an air quality test for area due to previous location of gas station on neighboring property.
- Currently uses water filtration system.
- Coffee mugs and water bottles are all dishwasher safe, allowing for reuse.
- Involved in program with Shred It (2-3 months ago) for the recycling of sensitive paper documents.
- Interest in creating a community based focus group to:
 - Provide more personal approach/link to fire dept.
 - Bridge the gap between service provider and client (residents).
 - Develop surveys within the community to gain & improve feedback.

Department Head Meeting – Police Department (10-30-13)

- Interested in creating a Sustainability Plan.
- There are a total of 4 administration vehicles, all of which have potential for conversion to hybrid.
- Main concern is to provide high-water vehicles for emergency response.
- High efficiency water fixtures have been placed in the locker room showers.
- 4 years ago stopped the purchase of waster bottles and drinks for the department – have since implemented a filtration system.
- Would like to see the recycling program in Key Biscayne in general improve.
- Department has a full-size kitchen where dishwasher has been removed and everything is hand washed – also removal of styrofoam items (i.e. cups, plates, etc.)
- Also involved in paper recycling program with Shred It
- Lighting is always turned off during the weekends, except for the response office, which remains on 24/7.
- Motion sensors have been placed in the gym.
- Coastal is again responsible for maintenance supplies.
- Purchasing power is limited to office supplies.
- Would be interested in participating in ink cartridge recycling program.

Department Head Meeting – Manager's & Clerk's Office (10-30-13)

- FPL bill for the entire Village are monitored by the finance department and compared to previous years to pinpoint problems (i.e. spikes).
- Copy room has motion sensors, and many times are turned completely off due to ambient lighting.
- HVAC is turned down during the weekends to decrease energy demand (approx. 77°F).
- LED lighting was recently placed in the fire exit stairwell 3-4 months ago.
- Water filtration system in place – contract with Zephyrhills.
- Also involved in paper shredding program with Shred It.
- Village Manager has a vehicle which potential can be changed over to hybrid (again, high water capability important).
- Involved in recycling of plastic and alum.
- Council agenda printouts has been reduced from 25 to 15 packages.