

Palm Beach County League of Cities General Membership Meeting

“Environmental Scorecard: Tracking our Environmental & Cost Savings”

Presented by

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City of Delray Beach

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Green & Sustainability Successes

Environmental Scorecard



Delray Beach is using metrics as a means to track Organizational & Community Environmental Progress

- Annual reclaimed water usage
- Average daily water usage per capita
- Annual average residential recycled materials
- Annual City facility recycled materials
- Annual average solid waste collected
- Annual kWh of electricity used in City facilities
- Annual cost of electricity in City facilities
- Carbon footprint from City facilities/operations



Green & Sustainability Successes

Environmental Scorecard



During a recent conference, the City Manager identified a private company, Planet Footprint, that collected various environmental data for local governments. This data is utilized to:

- Develop environmental metrics and environmental scorecards that monitors and reports energy, water, fleet, waste and greenhouse performance
- Improve the efficiency and effectiveness of the organization
- Lower operational costs



Green & Sustainability Successes

Environmental Scorecard

Continued:

- Many of the metrics include data from the past 3 years.
- This type of environmental scorecard was included within the Green Task Force's 2009 Recommendations to the City.
- Funding for this project is provided under the City's Energy Efficiency and Conservation Block Grant Program that is allocated by the Department of Energy and under the federal government's American Recovery and Reinvestment Act of 2009 (stimulus funding).



www.planetfootprint.com



Green & Sustainability Successes

Environmental Scorecard



- The City has been working with Planet Footprint as a Showcase Community - the first City in Florida to work with this organization and utilize this important environmental and cost savings program.
- Planet Footprint is responsible for collecting all requisite data in raw form and converting it into a usable metric that can assist in reducing the City's expenditures as well as lowering the City's environmental impact. Leads to significant Staff resource savings.

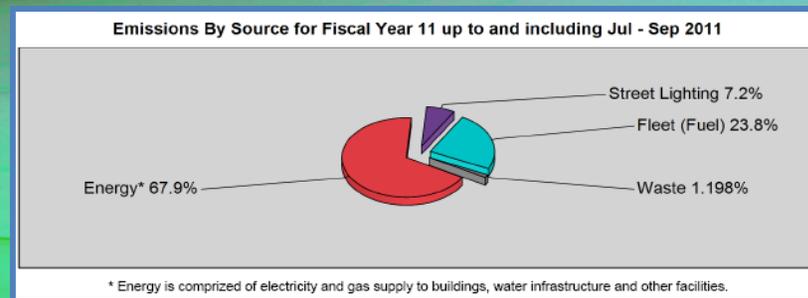
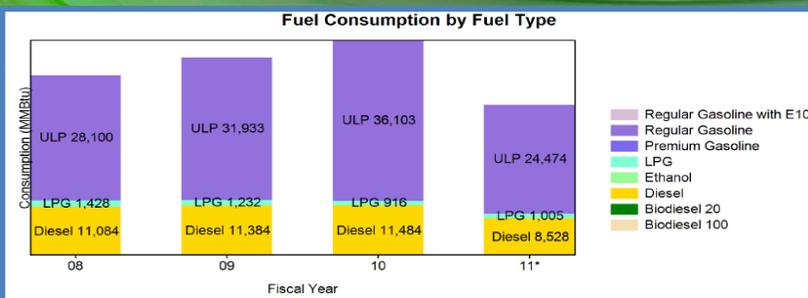
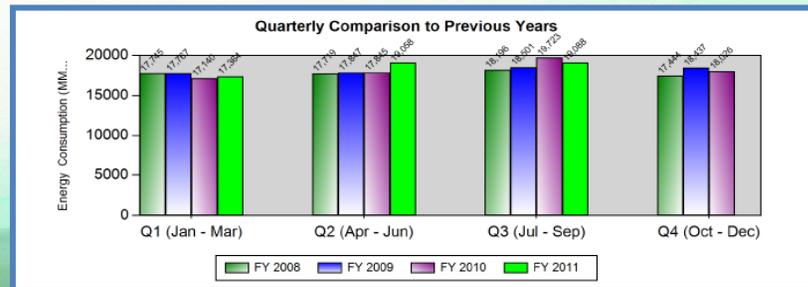
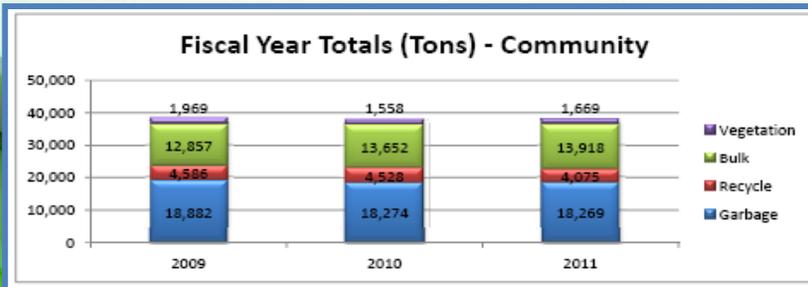


Green & Sustainability Successes

Tracking Environmental Resources

Monitor performance

Continuously measure the City's energy, water and greenhouse performance, including consumption, costs, and emissions. This process flags potential problems and identifies possible trends/anomalies (too high, too low, or if they don't change over time) that may require staff attention and possibly save money.

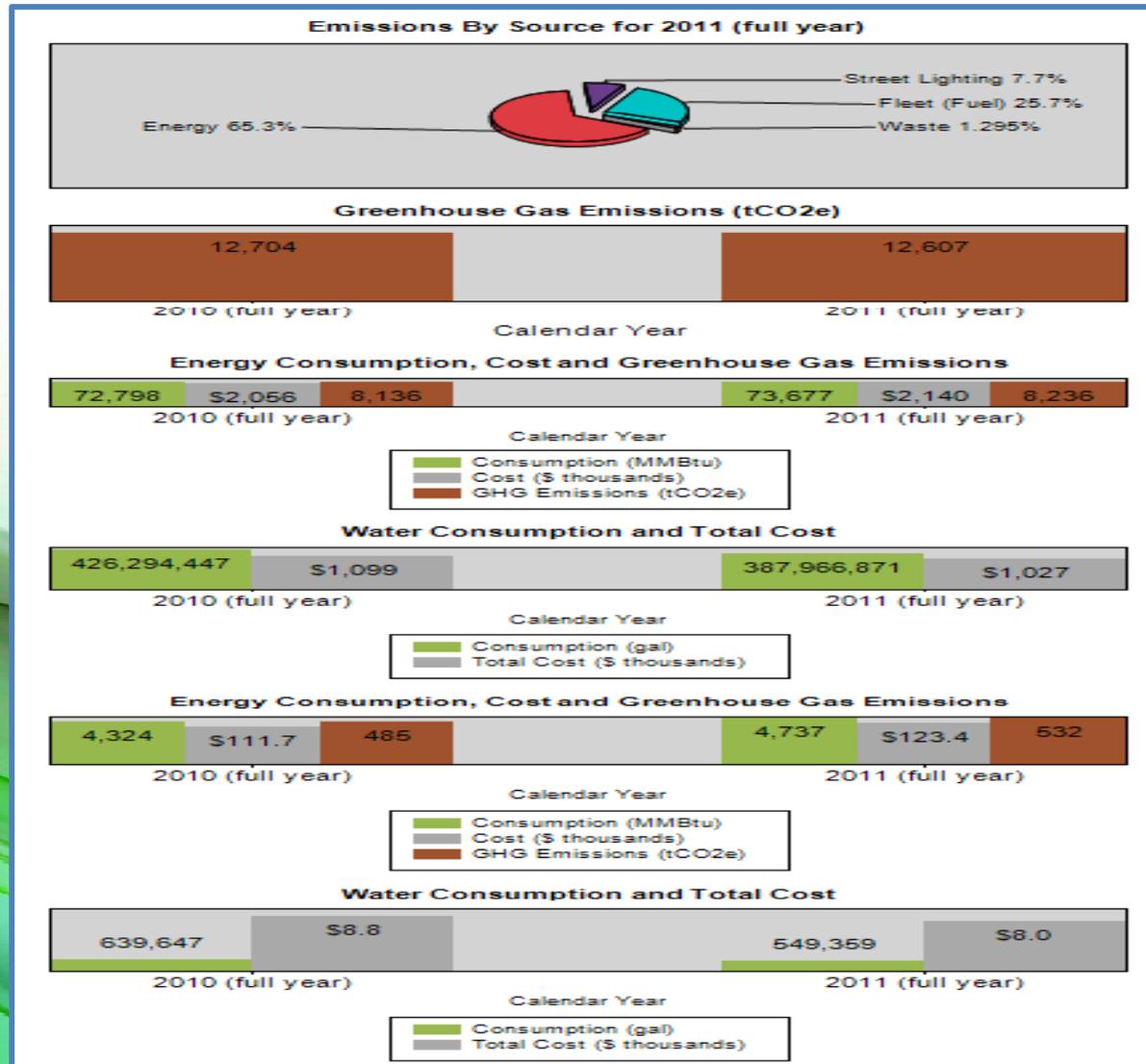


* Energy is comprised of electricity and gas supply to buildings, water infrastructure and other facilities.



Green & Sustainability Successes

Environmental Scorecard



Green & Sustainability Successes

Tracking Environmental Resources

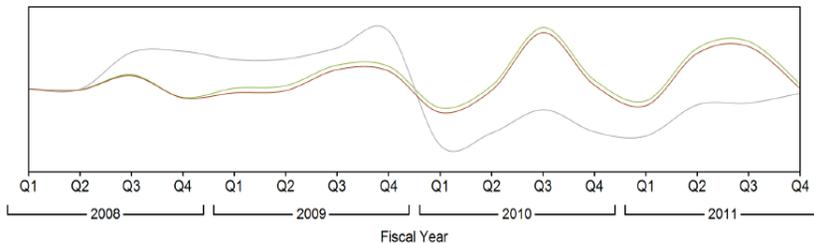
Report information

Present the City's performance in independent reports and graphs/charts that are updated quarterly and made available to staff and the public on-line. The information can be custom tailored to meet the City's budgeting, program and facility management needs, for planning purposes and for funding compliance.

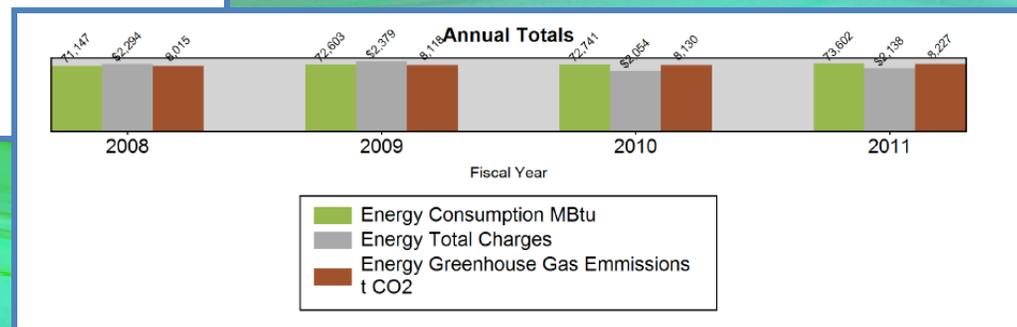
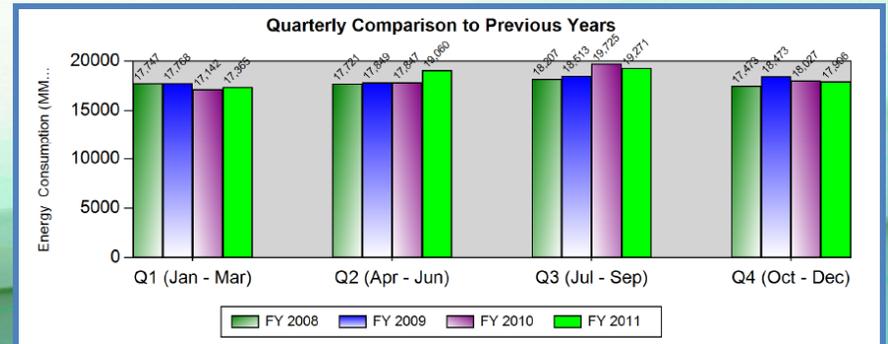
Part A: Stand-alone Performance Over Time

Overall Seasonal and Year-to-Year Trend

(For detail see following sections and Planet Footprint's detail reports and data.)



- Energy Consumption MBtu
- Energy Total Charges
- Energy Greenhouse Gas Emissions t CO2

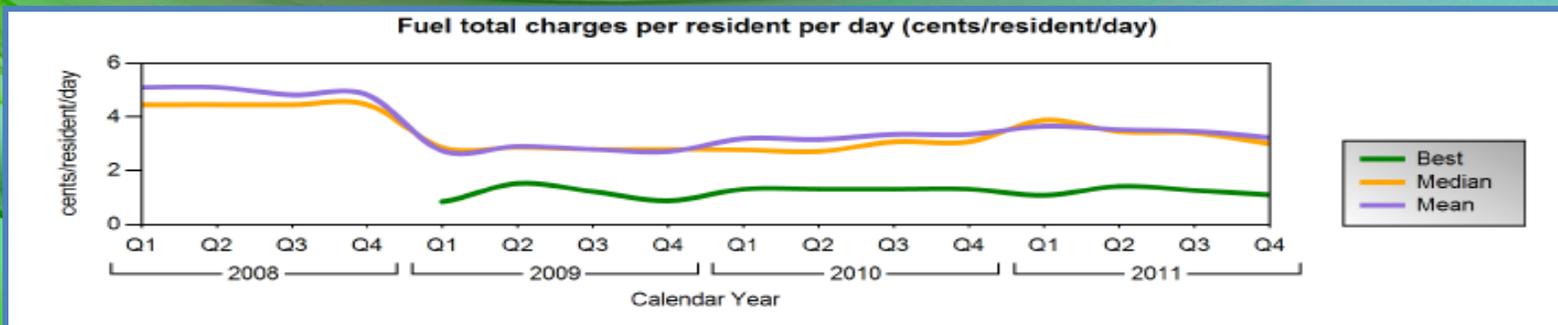
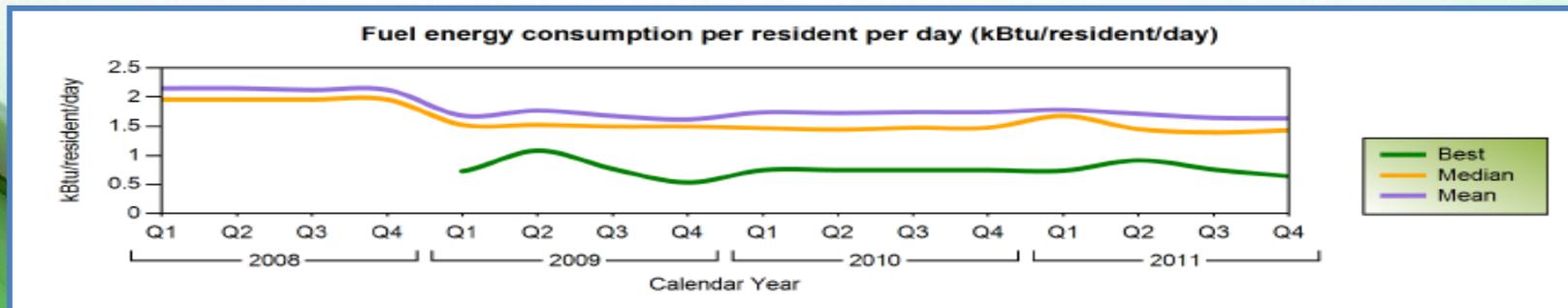


Green & Sustainability Successes

Environmental Scorecard

Compare performance

Shows the City's quarterly performance trends over time, based on the past 2 to 3 years. The City's performance is benchmarked, nationally and internationally, with similar properties and climates.



Green & Sustainability Successes

Environmental Scorecard

Save money and avoid waste

Helps to develop information to enable the City to target the best opportunities for improvement.

Anomalies Summary

- 160 instances of unexplained electricity increases totaling 780,299 kWh and \$69,578 have been identified during the last 5 quarters.
- 6 instances of unexplained gas increases totaling 53 MMBtu and \$551 have been identified during the last 5 quarters.
- 187 instances of unexplained water increases totaling 79,714,241 gal and \$164,701 have been identified during the last 5 quarters.



www.planetfootprint.com



Green & Sustainability Successes

Environmental Scorecard

Anomalies Summary

I: Electricity Accounts showing a significant increase in consumption

This section shows accounts that have had a significant increase in consumption compared to the same quarter the previous year. Only anomalies found in the most recent 5 quarters are shown.

Responsibility	Supplier	Account Number	Account Name	Property Name	Period Showing	Consumption (kWh)	Consumption same	Increase (%)	Increase (kWh)
Unknown	FPL	4516513415	Delray Beach Golf Club	Delray Beach Golf Club	Oct - Dec 2010	122,033	68,442	78%	53,591
Unknown	FPL	4516513415	Delray Beach Golf Club	Delray Beach Golf Club	Apr - Jun 2011	116,247	68,247	70%	48,000
Unknown	FPL	3529514493	Well-21		Oct - Dec 2010	93,459	50,280	86%	43,179
Unknown	FPL	3529514493	Well-21		Jan - Mar 2011	97,438	48,166	102%	49,272
Unknown	FPL	4515517490	Delray Beach Golf Club	Delray Beach Golf Club	Oct - Dec 2010	69,481	50,443	38%	19,038
Unknown	FPL	4515517490	Delray Beach Golf Club	Delray Beach Golf Club	Apr - Jun 2011	70,973	36,762	93%	34,211
Unknown	FPL	4560517460	W1127&28		Apr - Jun 2011	100,465	70,290	43%	30,175
Unknown	FPL	9904561439	Well 26		Jan - Mar 2011	109,387	87,813	25%	21,574
Unknown	FPL	2417567084	City Hall	City Hall	Oct - Dec 2010	79,116	64,090	23%	15,026
Unknown	FPL	2417567084	City Hall	City Hall	Jan - Mar 2011	80,443	61,052	32%	19,391
Unknown	FPL	7993027460	Miller Park		Jan - Mar 2011	19,800	3,780	424%	16,020
Unknown	FPL	7993027460	Miller Park		Apr - Jun 2011	19,920	8,100	146%	11,820
Unknown	FPL	7993027460	Miller Park		Jul - Sep 2011	24,120	19,380	24%	4,740
Unknown	FPL	1138435548	Seacrest Soccer Complex		Jan - Mar 2011	55,680	40,140	39%	15,540
Unknown	FPL	1138435548	Seacrest Soccer Complex		Apr - Jun 2011	47,940	37,680	27%	10,260
Unknown	FPL	1138435548	Seacrest Soccer Complex		Jul - Sep 2011	30,480	23,040	32%	7,440





The City's various metrics and environmental scorecard can be viewed online at:
www.planetfootprint.us/delraybeachflorida



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