

Alachua County Public Schools

Energy Conservation Program 2011/2012

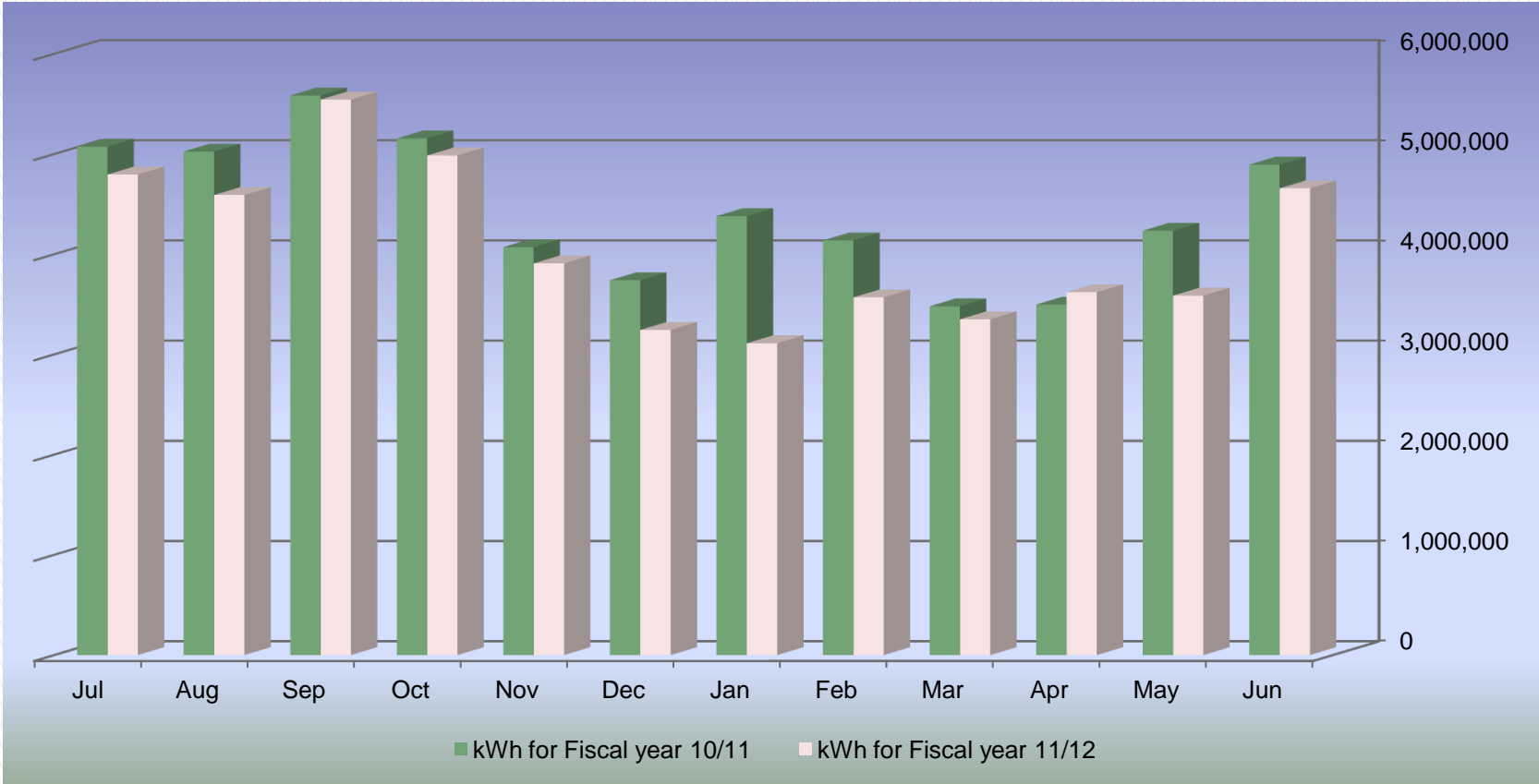




How We \$aved Energy

One Behavioral “Switch” At a Time

District-wide savings 8.1% for all Alachua County Public Schools



Classroom Lighting

Turning Off Lights When Unoccupied

Classroom 1

- 20 light fixtures
- ON 12 hours
- 3 lamps x 32 watts = 96 watts
- = \$746.49 per year

Classroom 2

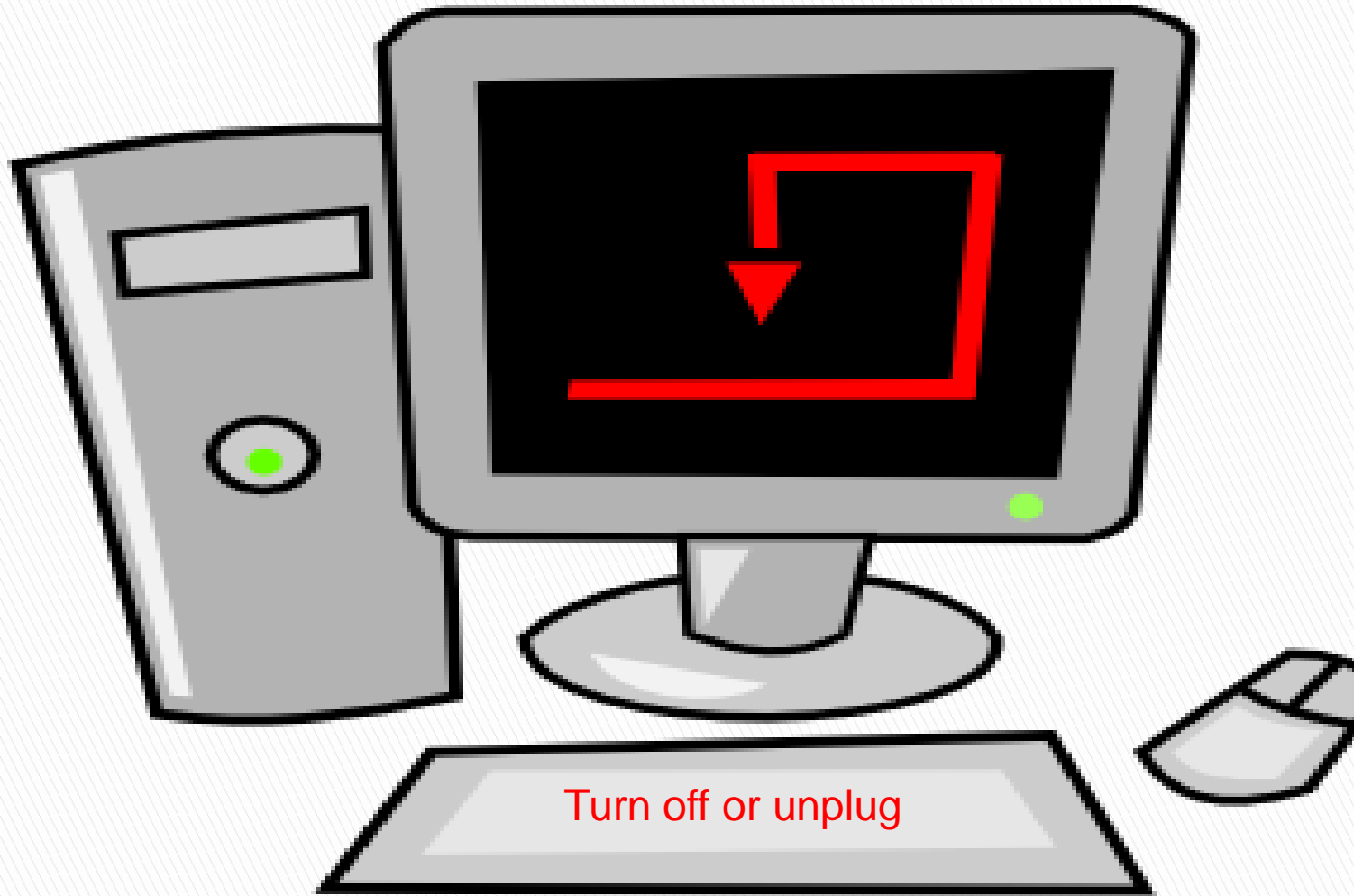
- 20 light fixtures
- ON 12 hours
- 3 lamps x 32 watts = 96 watts
- = \$746.49 per year

Classroom 3

- 20 light fixtures
- ON 12 hours
- 3 lamps x 32 watts = 96 watts
- = \$746.49 per year

Energy Saving T8 and T5 with Electronic Ballasts

Computers



Manage Air Conditioning Loads

- ▶ Turn off and/or set to higher temperatures during unoccupied times including holidays and breaks



Mini-refrigerators and other small appliances



- ▶ **Unplug and clean out**
- ▶ **Spring & Winter Breaks**
- ▶ **Summer Break**

UNPLUG EVERYTHING WHEN NOT IN USE

they cost \$\$\$

24 hrs a day x 7 days a week



Computer Tablet Chargers

Portable Radio Chargers

Cell & Portable Phone Chargers

Gaming Devices & Chargers

Laptop Chargers

Calculator Chargers

Battery Operated Hand Tool Chargers

Printer Chargers / Inverters

Rechargeable Battery Chargers

We approved **SBAC Resolution #12-03**

Green Schools Resolution

NOW THEREFORE, BE IT RESOLVED THAT:

the School Board of Alachua County will continue to emphasize integration of the following attributes in all District school facilities:

- (1) increasing the energy and resource efficiency and reducing the operating costs of schools;**
- (2) utilizing green, durable, and sustainable building products and practices in the construction of schools; and**
- (3) improving the indoor environmental quality of schools.**

Passed April 17th, 2012 Board Meeting

Which Electric Utility Service provides for your school's power?

City of
Alachua

Florida
Power &
Light

Clay Electric
Co-Op

City of
Newberry

Progress
Energy

Gainesville
Regional
Utilities

City of Alachua

Alachua Elementary	1,047,012 kWh
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Irby Elementary	890,581 kWh
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Mebane Middle	1,120,255 kWh
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Total	3,057,848 kWh
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Florida Power & Light

Waldo Community	479,165 kWh
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Shell Elementary	721,920 kWh
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Hawthorne Middle/High	1,401,617 kWh
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Total	2,602,702 kWh
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Clay Electric

Archer Elementary	849,920 kWh
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Santa Fe High	1,839,947 kWh
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Hawthorne Stadium	49,346 kWh
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Camp Crystal Lake	287,856 kWh
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Total	3,027,069 kWh
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City of Newberry

Newberry Elementary	1,442,280 kWh
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Oakveiw Middle	1,612,970 kWh
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Newberry High	1,382,281 kWh
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Total	4,437,531 kWh
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Progress Energy

High Springs Community	1,523,941 kWh
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Total	1,523,941 kWh
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Gainesville Regional Utilities

Chiles Elementary 1,027,600 kWh

Duval Elementary 833,819 kWh

Finley Elementary 1,070,564 kWh

Foster Elementary 902,000 kWh

Glen Springs Elementary 1,080,840 kWh

Hidden Oak Elementary 1,099,478 kWh

Lake Forest Elementary 823,900 kWh

Idylwild Elementary 1,104,480 kWh

Gainesville Regional Utilities

Littlewood Elementary

973,452 kWh

Meadowbrook Elementary

new site kWh

Metcalfe Elementary

1,063,220 kWh

Norton Elementary

848,640 kWh

Rawlings Elementary

867,520 kWh

Talbot Elementary

1,161,480 kWh

Terwilliger Elementary

816,800 kWh

Wiles Elementary

1,010,510 kWh

Williams Elementary

720,220 kWh

Gainesville Regional Utilities

Bishop Middle 1,619,946 kWh

Ft Clarke Middle 1,458,363 kWh

Kanapaha Middle 2,106,891 kWh

Lincoln Middle 1,502,290 kWh

Westwood Middle 1,495,624 kWh

Gainesville Regional Utilities

Buchholz High 2,774,998 kWh

Eastside High 2,397,803 kWh

Gainesville High 3,080,037 kWh

Loften High 778,217 kWh

Gainesville Regional Utilities

A.Q. Jones Center

553,898 kWh

Horizon Center

399,163 kWh

Sidney Lanier School

644,140 kWh

Total

34,317,646 kWh



Summary FY 2011/2012

City of Alachua	3,057,848 kWh	6.3%
Florida Power & Light	2,602,702 kWh	5.3%
Clay Electric Co-Op	3,027,069 kWh	6.2%
City of Newberry	4,437,531 kWh	9.1%
Progress Energy	1,523,941 kWh	3.1%
Gainesville Regional Utilities	34,317,646 kWh	70.0%
Total Schools kWh	48,966,737 kWh	



So....

How Can We Lower Alachua County Public School's 2012/2013 Ecological Footprint?



What size is your Ecological Footprint?

<http://www.earthday.org/footprint-calculator>

<http://www.myfootprint.org/>

<http://www.facingthefuture.org/ForEducators/EducatorsHome/tabid/67/Default.aspx>

Watch the video to see how *Facing the Future* curriculum engages students in the classroom.

EPA's ENERGYSTAR Program

All ACPS school site data has been entered into the Building Portfolio Manager Program which utilizes all energy sources: natural gas, propane, and water consumption.

K-12 buildings are eligible for a 1-100 score.

50 is the National Median.

How will ACPS measure up?

Utility Billing Analysis

Energy sources

1. Electric
2. Natural Gas
3. Propane

Water usage data

Weather data

3rd Party verification

National Standard Metric

Check your progress on Facilities website

http://www.sbac.edu/pages/ACPS/Departments_Programs/DepartmentsAF/D_thru_F/FacilitiesMainConstr/Energy_Conservation

use your active directory computer login

More Energy Saving Ideas Available

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