

Charting a Course to Energy Independence

Providence, RI
August 9-12, 2009





Meters & Your Analytical Software

LPB Energy Management

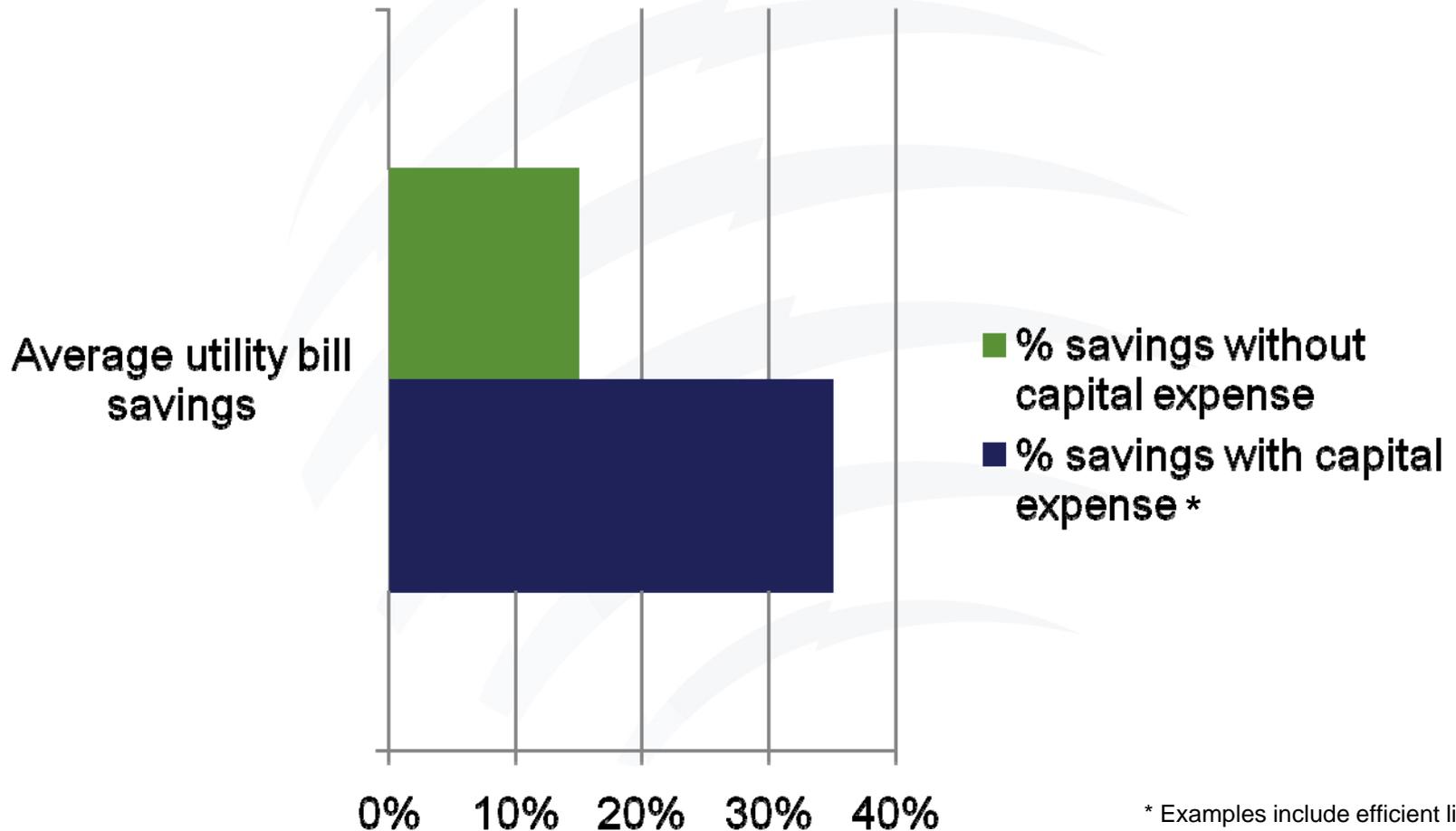
LPB is a Trusted, Expert Partner

At LPB our mission is to help clients measure, report, and reduce energy costs and usage, improving their bottom line and environmental sustainability.



Working with LPB Pays...

LPB's data-centric approach to energy management **will** reduce your energy bill



* Examples include efficient lighting, building automation/controls, etc

LPB's Energy Management

Utility Billing Data
IDR (Meter) Data

Customer Attributes

General (all locations)	Square Feet, employees, risk tolerance
Site specific	Square Feet, RCM, lighting attributes, HVAC, last audit
Meter specific	KW/kWh – contract (y/n), rate, termination Demand response (y/n), rate, termination

UMX Portal (SaaS)

UM Analytics

Creation of ENERGY MANAGEMENT PLAN

Savings Tools

Energy Management Reporting

Budgeting/Forecasting

Energy Management Plan

Creation of ENERGY MANAGEMENT PLAN

Sample Energy Management Plan

	Locations Available	% of Locations	Estimated Savings in Targeted Locations	Estimated Portfolio Savings
Procurement – Gas	29	58%	9%	5%
Procurement – Power	22	44%	12%	5%
Demand Response	16	32%	5%	2%
Bill Audit	50	100%	2%	2%
Behavior Modification	50	100%	5%	5%
Total Zero-Investment Savings				19%
	Investment	Savings	ROI	
Bill Processing & Payment	\$162,000	\$144,000	89%	
Owners' Advocacy	\$100,000	\$15,000	15%	
Total Investment-Based Savings		\$159,000		

One Stop Shop – Operational Efficiencies

Vendor consolidation has multiple benefits, including:

- Good data = savings; bad data = compromised savings. Ensure the same company provides both data and savings so they'll get it right!
- Avoid supply penalties caused by usage reduction programs
- Fix billing mistakes before embarking on usage or cost savings
- When spending capital, ensure new equipment can maximize demand response
- Use competitive supply to arrange for electronic billing



One Stop Shop – Lower Prices

- Beyond operational efficiencies, LPB's one-stop services are lower priced than buying each service separately
- Take the LPB challenge: Have LPB issue a preliminary proposal where you can see the pricing benefits of using one vendor!





LPB Solutions Overview

Utility Manager™ Software

Organizational Setup

Setup Menu

- ▶ [Company](#) ... View company details
- ▶ [Sites](#) ... Search for, and view details on, sites
- ▶ [Utility Companies](#) ... Search for, and view details on, utilities
- ▶ [Utility Accounts](#) ... Search for, and view details on, accounts
- ▶ [Weather Stations](#) ... Search for, and view details on, weather stations

Utility Accounts

Account #:	<input type="text" value="010123-001-2-C"/>	Financial Code:	<input type="text"/>
Date Opened:	<input type="text" value="10/1/1994"/>	Rate Name:	<input type="text"/>
Date Closed:	<input type="text" value="7/1/2008"/>	Service(s):	<input type="text" value="Natural Gas"/>
Utility:	<input type="text" value="Missouri Natural Gas"/>	Site:	<input type="text" value="127-Murphy"/>
	<input type="text" value="Drawer 2"/>		<input type="text" value="301 Gold"/>
	<input type="text" value="St. Louis, MO 63171"/>		<input type="text" value="Murphy, MO 63010"/>

Bill Date	Total Cost	Voucher #	Invoice #	Due Date	Date Entered	Batch ID	Status
7/28/2008	\$197.53	0099009900		7/28/2008	7/31/2008		Posted
4/15/2008	\$1,092.91	0099009900		4/15/2008	4/21/2008		Posted
3/17/2008	\$2,768.51	0099009900		3/17/2008	3/20/2008		Posted
2/14/2008	\$2,682.42	0099009900		2/14/2008	2/19/2008		Posted
1/16/2008	\$2,339.13	0099009900		1/16/2008	1/22/2008		Posted
12/17/2007	\$4,119.29	0099009900		12/17/2007	12/20/2007		Posted
7/16/2007	\$1,143.60	0099009900		7/16/2007	7/19/2007		Posted
6/14/2007	\$1,136.40	0099009900		6/14/2007	6/25/2007		Posted

Utility Bill Data

Bill Details

Site:

Utility Company:

Account #:

Bill Date: Due Date:

Amount: Date Entered:

Invoice #:

Voucher #:

Expand grid

 [View Image](#)

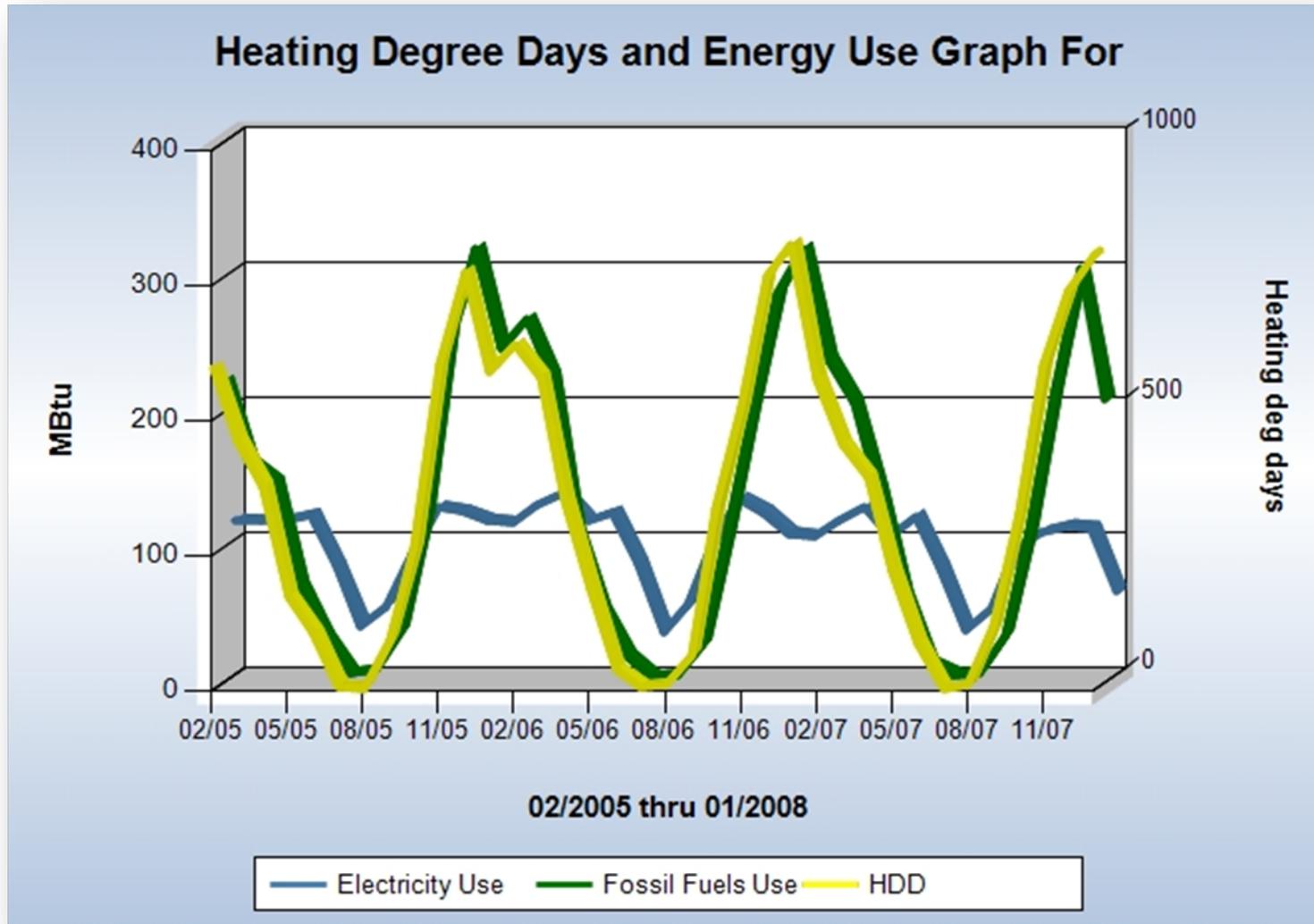
Service	Item Description	From	Thru	Usage	Cost	Unit Cost
Natural Gas	Natural gas (Therms)	4/14/2008	7/1/2008	83.4	\$170.35	\$2.043 / Therm
Natural Gas	Tax: City	4/14/2008	7/1/2008	0.0	\$13.81	
Natural Gas	Tax: Sales	4/14/2008	7/1/2008	0.0	\$13.37	

Energy Use and Cost History

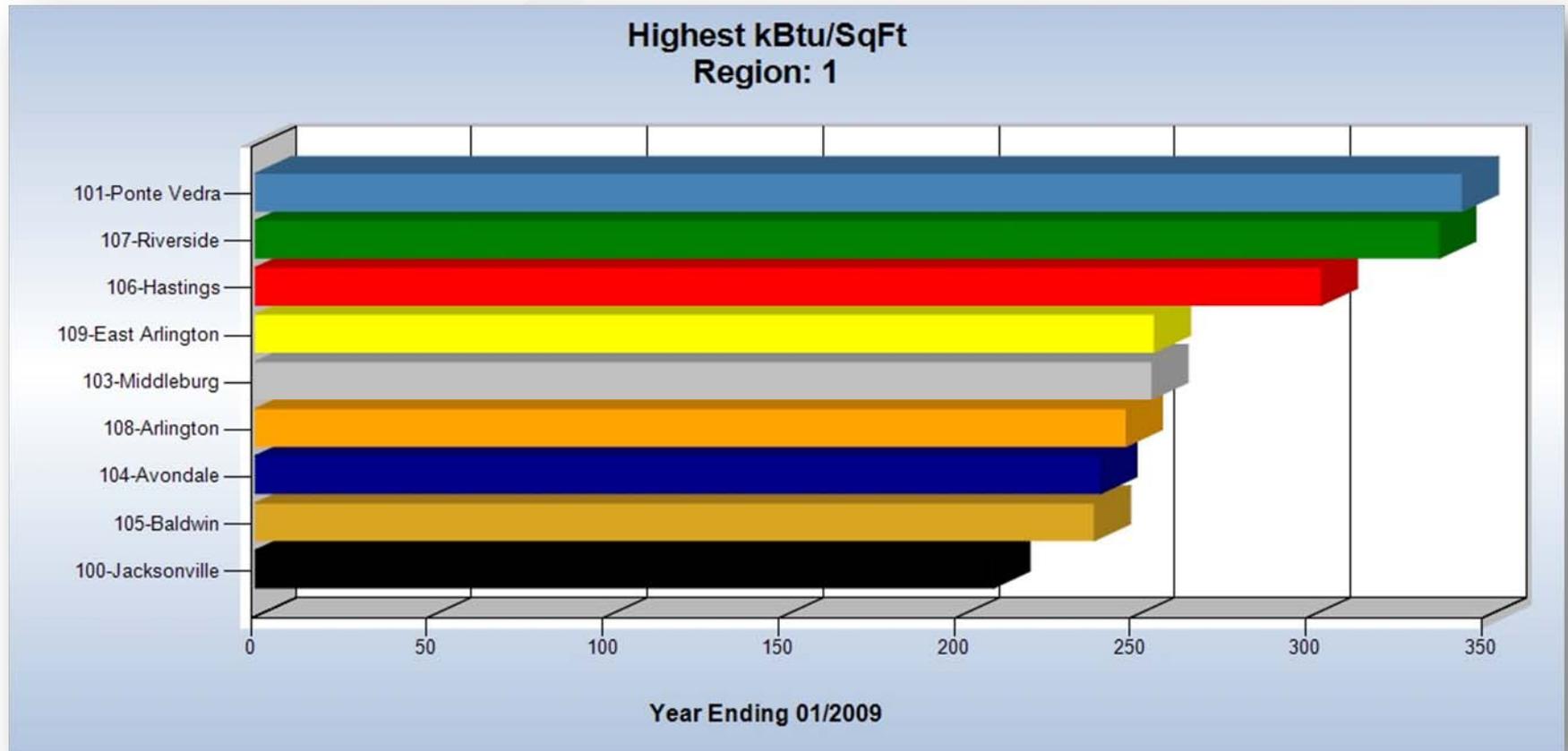
Davidson School District Energy Use and Cost History -- Year Ending 01/2008

Date	Electricity (kWh)	Demand (kW)	Total Elec Cost	Natural Gas (Therms)	Natural Gas Cost	Total Energy (MBtu)	Total Energy Cost
02/07	984,516	4,385	\$88,164	63,139	\$76,173	9,673.0	\$164,337
03/07	978,912	4,414	\$90,945	51,828	\$63,054	8,522.8	\$154,000
04/07	910,178	4,729	\$86,681	37,090	\$43,533	6,814.5	\$130,214
05/07	1,000,722	4,873	\$94,263	26,570	\$30,202	6,071.5	\$124,465
06/07	717,538	3,446	\$73,583	13,060	\$16,308	3,754.2	\$89,890
Part Yr Total	4,591,867	4,873	\$433,637	191,686	\$229,270	34,836.1	\$662,907
07/07	480,908	7,880	\$55,683	8,687	\$11,158	2,509.5	\$66,841
08/07	619,826	9,704	\$67,528	9,565	\$12,057	3,071.3	\$79,585
09/07	831,951	9,957	\$86,600	17,057	\$20,962	4,544.3	\$107,562
10/07	935,660	4,735	\$95,361	35,261	\$41,309	6,718.6	\$136,670
11/07	988,108	4,501	\$94,992	57,261	\$63,008	9,097.5	\$158,000
12/07	963,704	4,424	\$92,396	72,338	\$78,199	10,521.9	\$170,595
01/08	866,055	3,257	\$82,485	79,072	\$85,356	10,862.1	\$167,841
YTD Total	5,686,213	9,957	\$575,046	279,240	\$312,049	47,325.4	\$887,096

Energy Use vs Heating Degree Days



Highest Energy User's per Square Foot

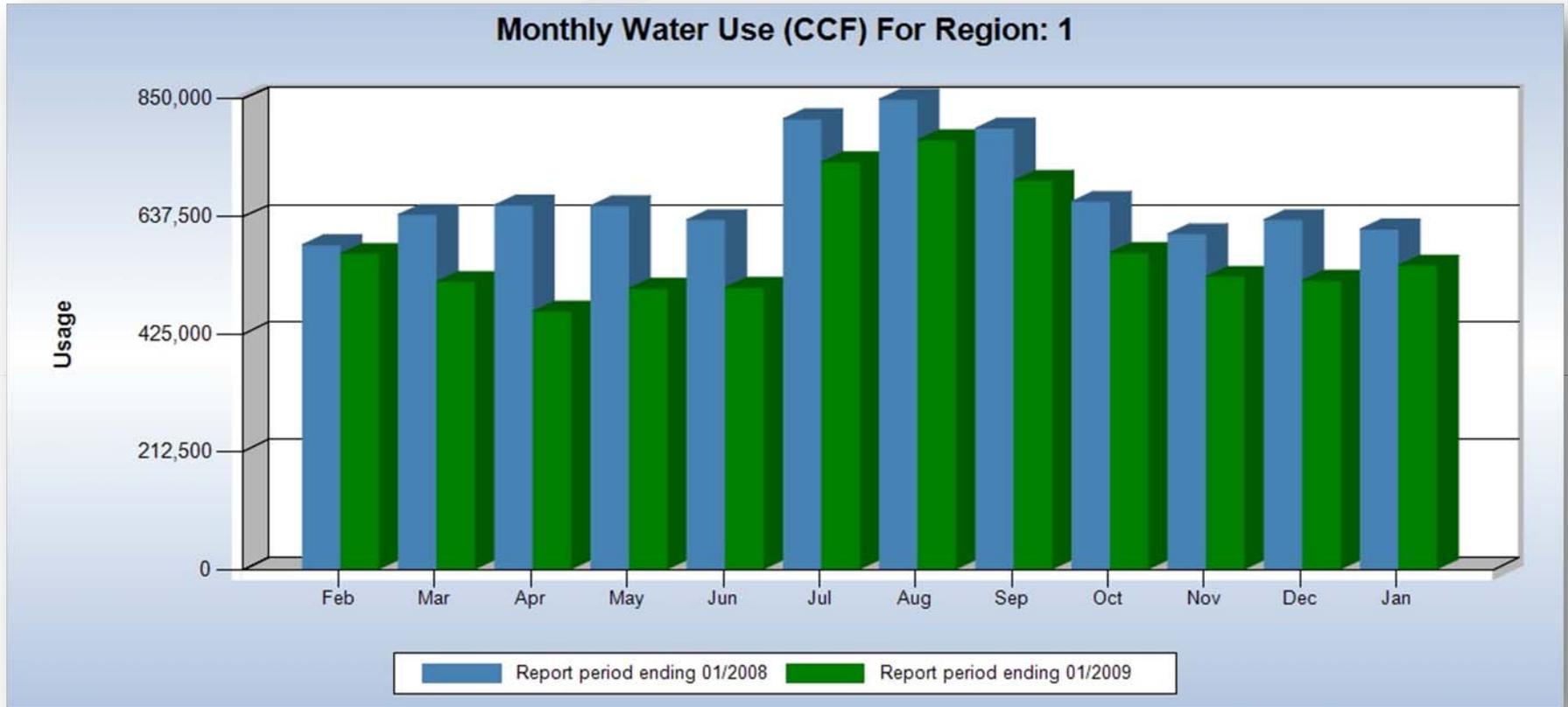


Total Energy Cost per Square Foot

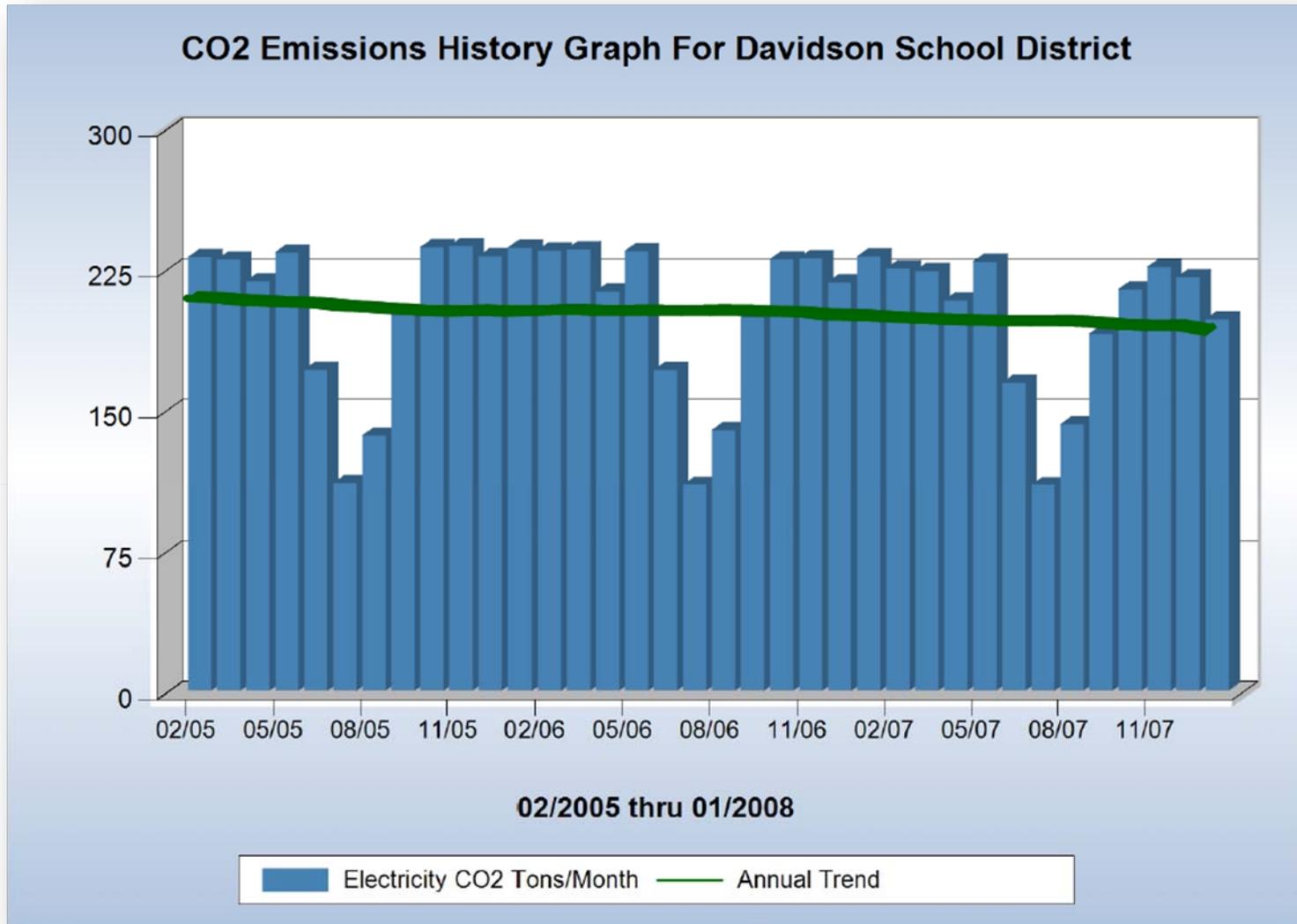
Retail, Inc., Region: 1 Energy/SqFt Ranking -- Year Ending 01/2009

Site	SqFt	Electricity (kWh)	Total Elec Cost	Cost/kWh	Total Elec Cost/SqFt	Natural Gas (Therms)	Natural Gas Cost	Cost/Therm	Natural Gas Cost/SqFt	Total Energy Cost/SqFt
101-Ponte Vedra	36,505	2,772,778	\$148,074	\$0.053	\$4.0563	30,751	\$34,472	\$1.121	\$0.9443	\$5.0006
107-Riverside	59,323	4,148,517	\$213,498	\$0.051	\$3.5989	58,302	\$76,108	\$1.305	\$1.2829	\$4.8818
106-Hastings	51,869	3,694,649	\$207,458	\$0.056	\$3.9996	31,224	\$36,160	\$1.158	\$0.6971	\$4.6968
103-Middleburg	52,195	3,291,964	\$177,865	\$0.054	\$3.4077	20,812	\$25,194	\$1.211	\$0.4827	\$3.8904
109-East Arlington	74,672	4,276,174	\$231,711	\$0.054	\$3.1030	45,052	\$51,027	\$1.133	\$0.6833	\$3.7864
108-Arlington	74,672	4,100,252	\$218,897	\$0.053	\$2.9314	45,096	\$50,306	\$1.116	\$0.6737	\$3.6051
105-Baldwin	61,738	3,659,621	\$193,881	\$0.053	\$3.1404	22,483	\$25,874	\$1.151	\$0.4191	\$3.5595
104-Avondale	63,304	3,545,458	\$185,357	\$0.052	\$2.9280	31,276	\$35,322	\$1.129	\$0.5580	\$3.4860
100-Jacksonville	71,463	3,914,766	\$203,741	\$0.052	\$2.8510	16,575	\$19,330	\$1.166	\$0.2705	\$3.1215
1 Subtotals:	545,741	33,404,178	\$1,780,482	\$0.053	\$3.2625	301,570	\$353,792	\$1.173	\$0.6483	\$3.9108

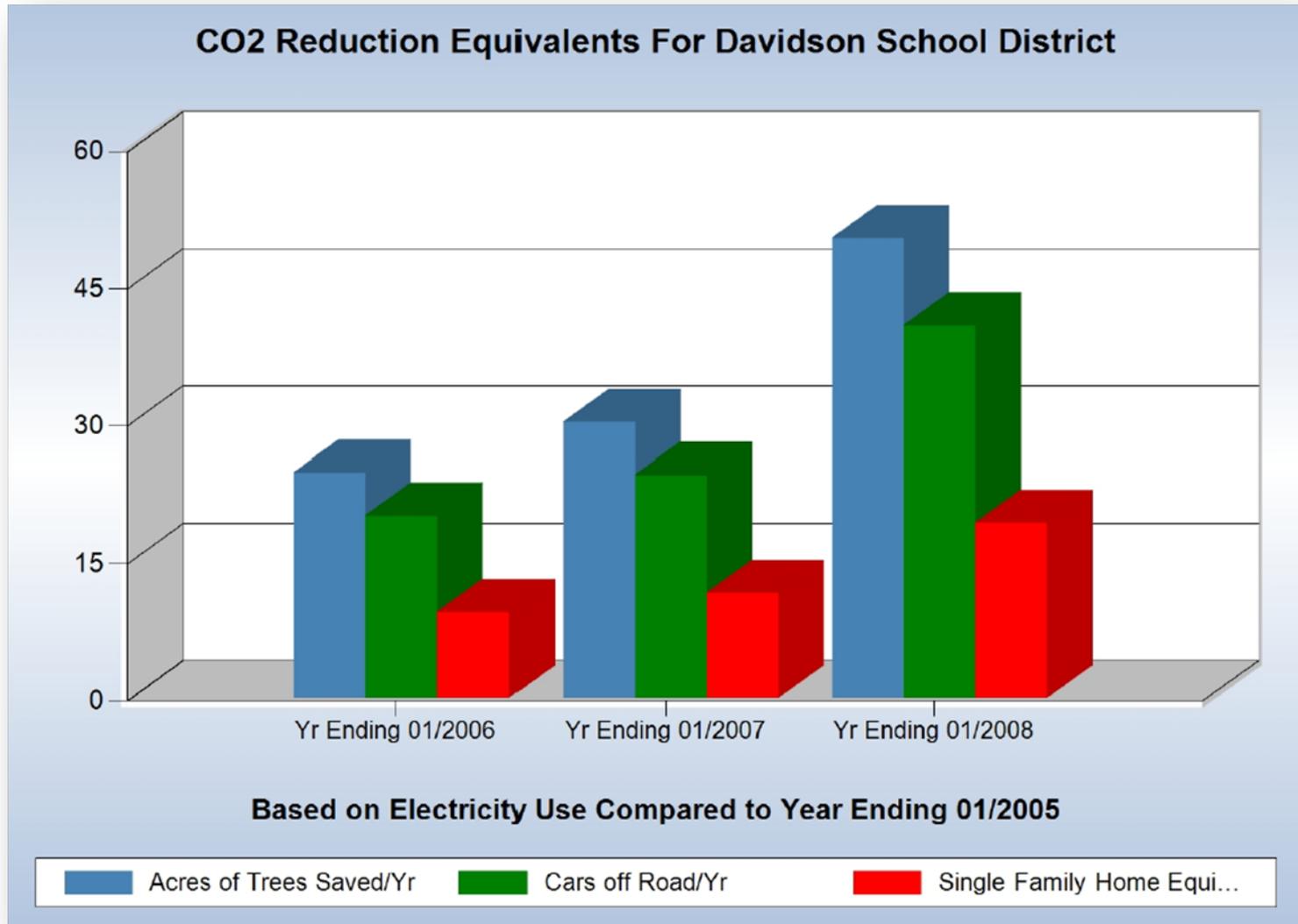
Water Use Comparison Graph



CO₂ Emissions Reporting



CO₂ Emissions Reporting



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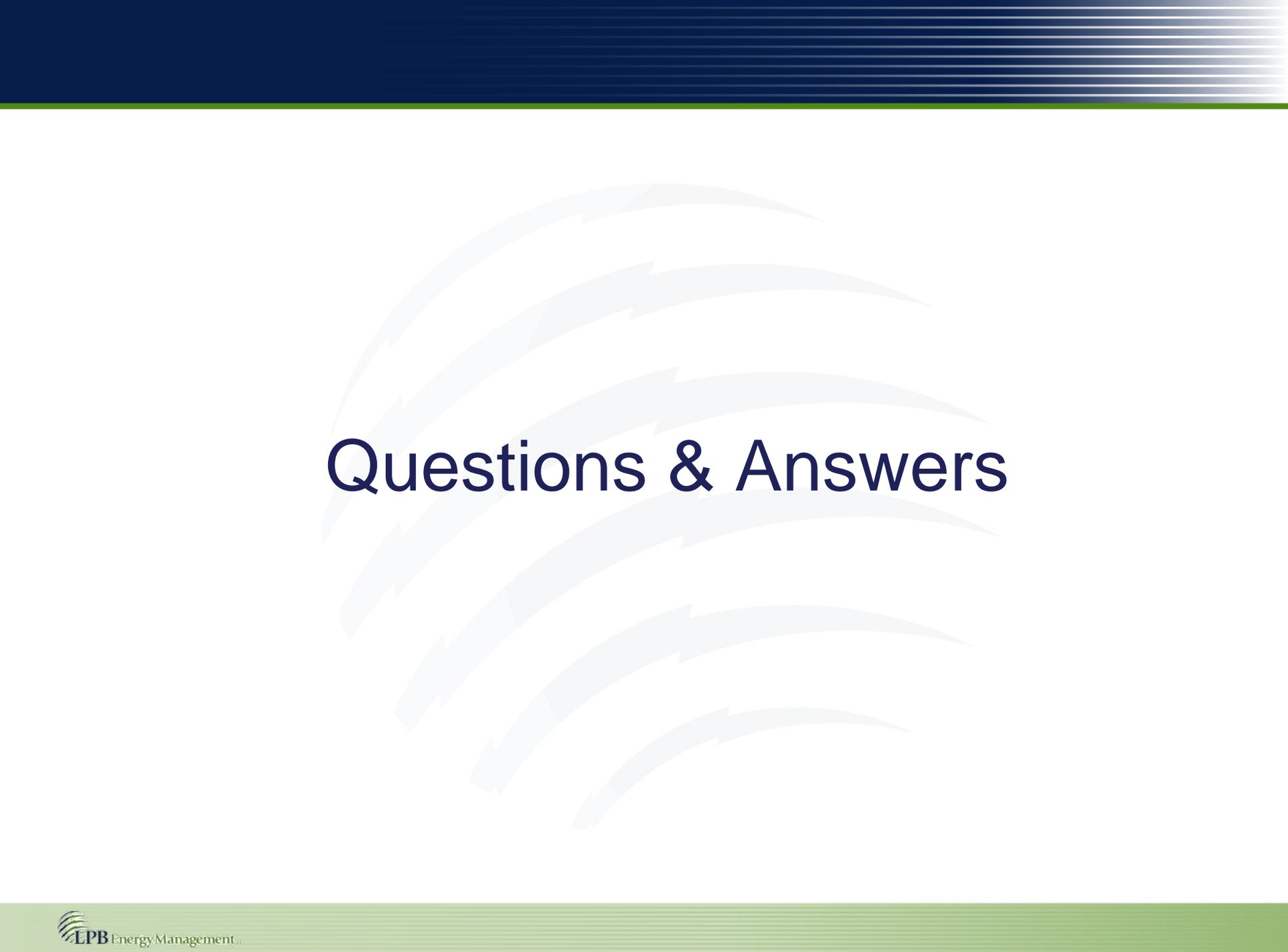
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Questions & Answers

