



2ND ENERGY EFFICIENCY + CONSERVATION PLAN TASK FORCE MEETING

Friday, March 9th, 2012

AGENDA

- 10:00am - 10:10am **✘ Recap**
- 10:10am - 10:30am **✘ Vision Statement**
- 10:30am - 10:40am **✘ Review of Data**
- 10:50am - 11:00am **✘ Break**
- 11:00am - 11:40am **✘ Review of Objectives and Programs**
- 11:40am - 11:50am **✘ Group Discussion**
- 11:50am - 12:00pm **✘ Wrap-Up**



GROUPS

GROUP 1

- ✦ CMAP
- ✦ Jeff Woodward
- ✦ Kris White
- ✦ LeeAnn Goodson
- ✦ Pat Fera
- ✦ Ron Alberico

GROUP 2

- ✦ Carmen Morales
- ✦ Irv Nunn
- ✦ Jeff Hettrick
- ✦ Karrie Gibson
- ✦ Kevin Moss
- ✦ Maria Rafac
- ✦ Dr. Phyllis Wilson
- ✦ Salim Diab

GROUP 3

- ✦ Jim Holland
- ✦ Emily McAsey
- ✦ Howard Norberg
- ✦ Isaac Triska
- ✦ Laurie McPhillips
- ✦ Mark Schneidewind
- ✦ Mike Miglorini
- ✦ Robert Howard
- ✦ Tony Janowski



Issues from meeting 1

- ✘ What is the definition of energy efficiency?
- ✘ The Plan is too County centric.
- ✘ The Plan should include the communal benefits of going green.
 - Health
 - Economics
 - Cost Savings
- ✘ How can the plan reach businesses?
- ✘ How do we address the negative connotation of the terms high density and conservation in the plan?



GOAL AND TIME FRAME

Percentage Increase in Energy Efficiency

- A.** 10%
- B.** 15%
- C.** 20%
- D.** 25%
- E.** Other

Plan Time frame

- A.** 2020
- B.** 2025
- C.** 2030
- D.** 2035
- E.** Other



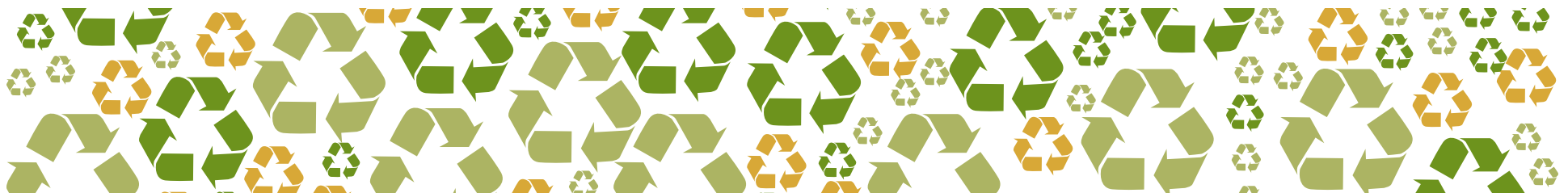
VISION STATEMENT

A. The Will County Long Term Energy Efficiency and Conservation Plan has a vision to achieve a **XX** percent increase in energy efficiency by **XXXX**.

B. As part of Will County's commitment to a clean energy future, it crafted the Long Term Energy Efficiency and Conservation Plan with a vision to achieve a **XX** percent increase in energy efficiency by **XXXX**.

C. A sustainable energy future requires a drastic paradigm shift—transition away from primarily non-renewable fuels and unrestrained energy consumption towards renewable energy and sustainable development. As part of Will County's commitment to a clean energy future, it crafted the Long Term Energy Efficiency and Conservation Plan with a vision to achieve a **XX** percent increase in energy efficiency by **XXXX**.

D. Other



DATA REVIEW

Table 2.1. 2009 County Government Operations Energy Consumption by Source

Source	Energy (Btus)	Percent of Total Use
Electricity	185,800,000,000	56%
Natural Gas	91,900,000,000	27%
Vehicle Fuel	56,000,000,000	17%
Total	333,700,000,000	100%

Figure 2.1 | 2009 Community-wide Energy Usage by Source

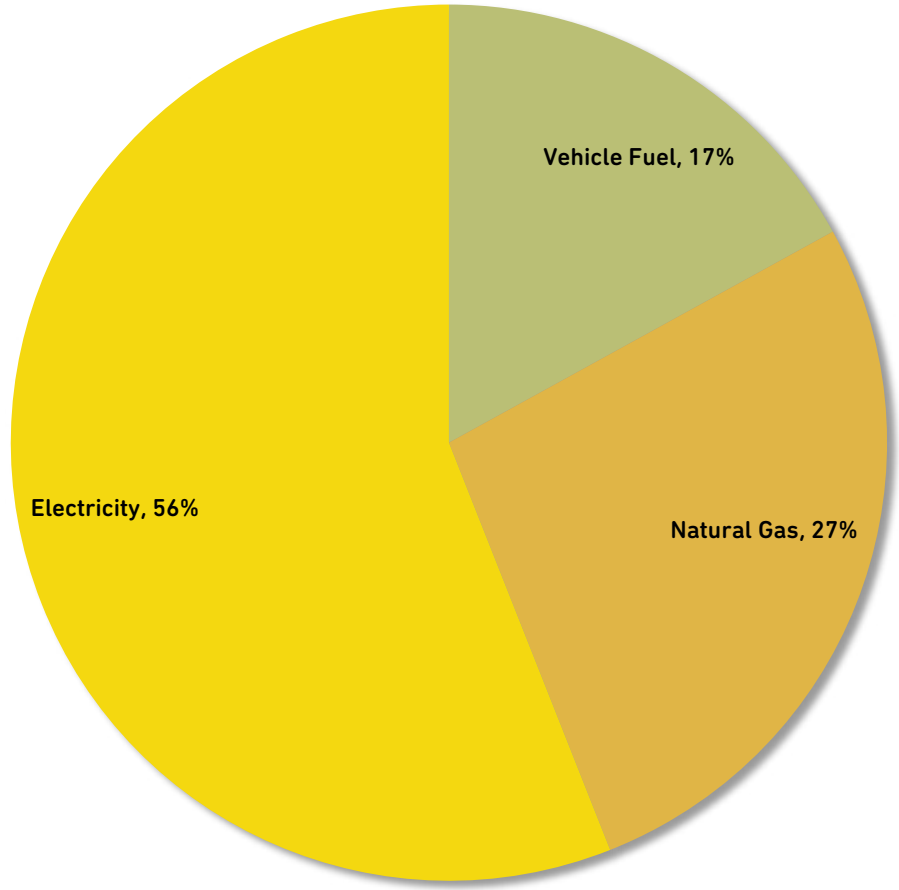


Figure 2.2 | 2009 Community-wide Energy Usage by Source

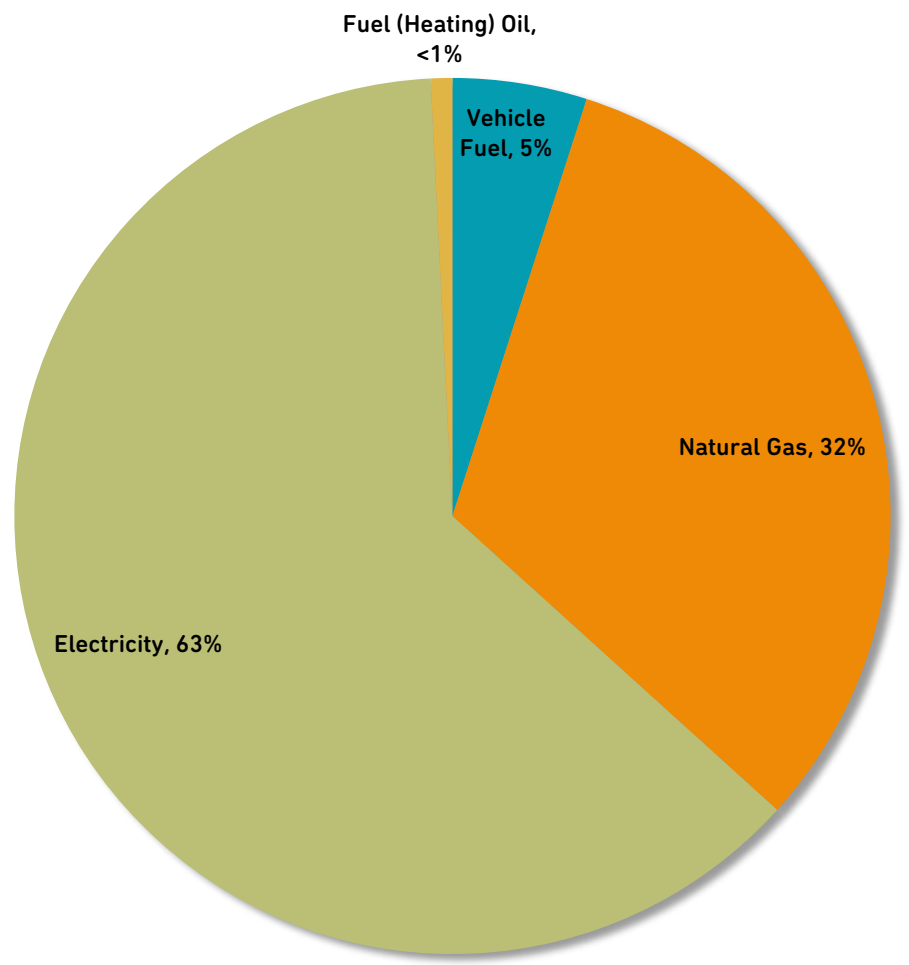


Table 2.2. 2009 County-wide Community Energy Consumption by Source

Source	Energy Usage (Btus)	Percent of Total Use
Electricity	85,800,000,000,000	63%
Natural Gas	43,000,000,000,000	32%
Fuel (Heating) Oil	693,000,000,000	<1%
Vehicle Fuel	7,000,000,000,000	5%
Total Btus	36,500,000,000,000	100%

DATA REVIEW

Table 2.3. 2009 Total Energy Usage by Sector

Sector	Energy Usage (Btus)	Percent of Total Use
County Government Operations	332,800,000,000	<1%
Residential	51,000,000,000,000	37%
Commercial/Industrial ¹	78,300,000,000,000	58%
Transportation	7,100,000,000,000	5%
Total Btus	136,700,000,000,000	100%

Figure 2.3 | 2009 Total Energy Use by Sector

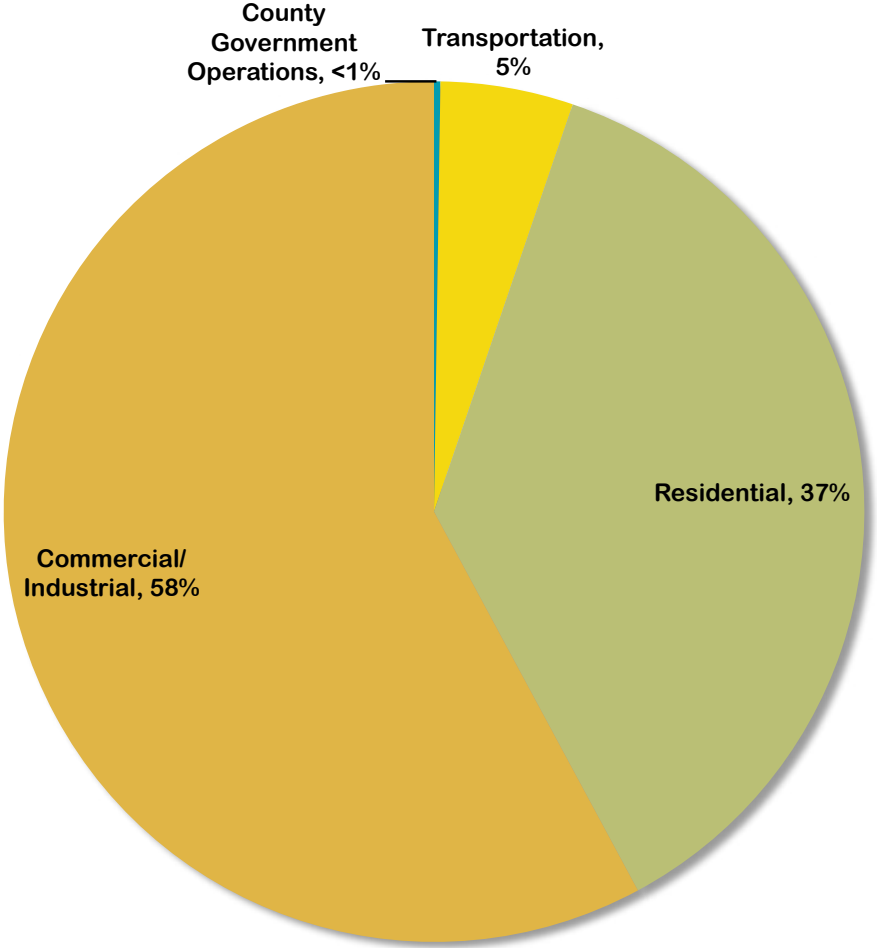


Figure 2.4 | 2009 County Government Operations Energy Purchases by Source

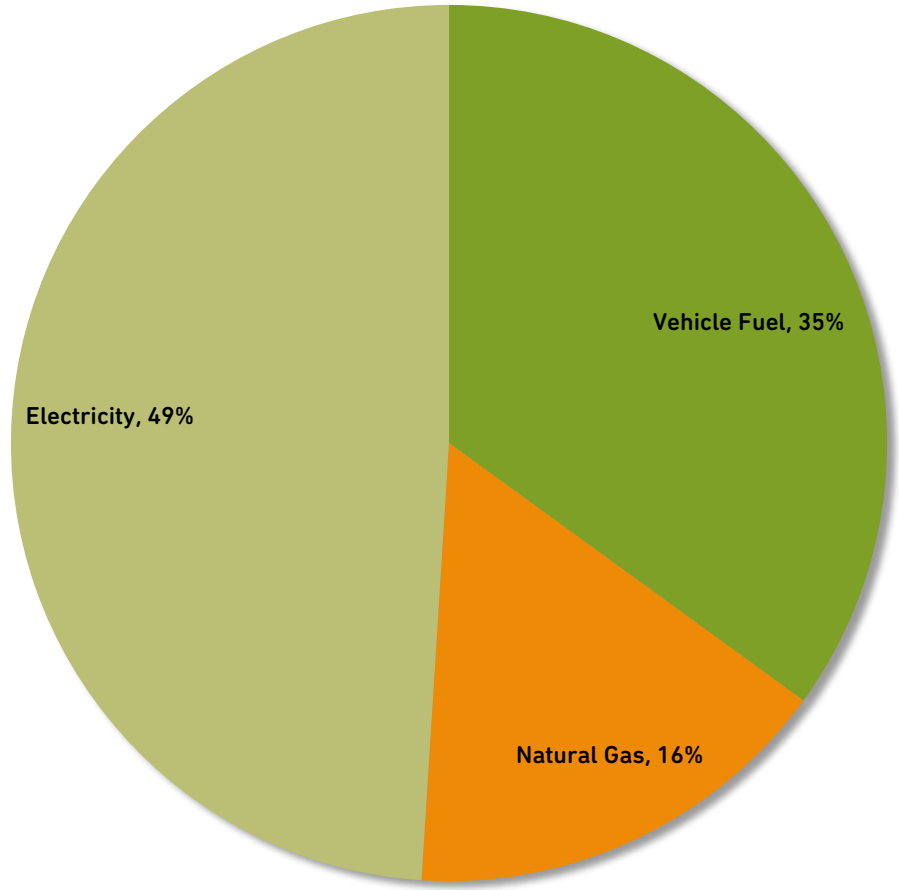


Table 2.4. 2009 County Government Operations Energy Costs by Source

Category	Cost	Percent
Electricity	\$1,760,000	49%
Natural Gas	\$560,000	16%
Vehicle Fuel	\$1,255,000	35%
Total	\$3,575,000	100%

DATA REVIEW

Table 2.5. 2009 County Government Operations Electricity Use and Cost by Facility/Department

Department	Electricity Usage (kWh)	Cost	Percent
Adult Detention Facility	5,300,000	\$391,000	30%
Courthouse	2,300,000	\$240,000	13%
Sunny Hill Nursing Home	1,900,000	\$199,000	10%
River Valley Juvenile Detention Facility	1,600,000	\$181,000	9%
EMCO Building	1,400,000	\$154,000	8%
County Office Building	1,400,000	\$143,000	8%
Health Department	970,000	\$100,000	5%
Sheriff's Office	730,000	\$75,000	4%
911 Center	700,000	\$74,000	4%
*Government **	360,000	\$43,000	2%
*Street Lights	350,000	\$56,000	2%
*Highway Department	350,000	\$36,000	2%
*Land Use Department	270,000	\$29,000	1.50%
*Recorder of Deeds Department	150,000	\$17,000	1%
*Emergency Management Agency	60,000	\$7,000	0.40%
*Maintenance Department	40,000	\$5,000	0.40%
*Radio System	28,000	\$3,000	0.20%
*Commuter Parking Lot	23,000	\$2,700	0.10%
*Veteran's Assistance	19,000	\$2,400	0.10%
Total	18,000,000	\$1,758,000	100%

Government locations are as follows:

308 Prairie Ave – 1 Lockport TWP
 13809 High Rd – Lockport TWP
 14537 Edison Drive Unit 4 New Lenox
 802 Nicholson St. Joliet
 806 Nicholson St. Joliet
 22365 S Owens Rd Unit R Frankfort
 19418 97th Ave Ste 3 Mokena

* All items with asterisk have been combined into one section on the pie chart called "Miscellaneous"

DATA REVIEW

Figure 2.5 | 2009 County Government Operations Electricity Use by Facility/Department

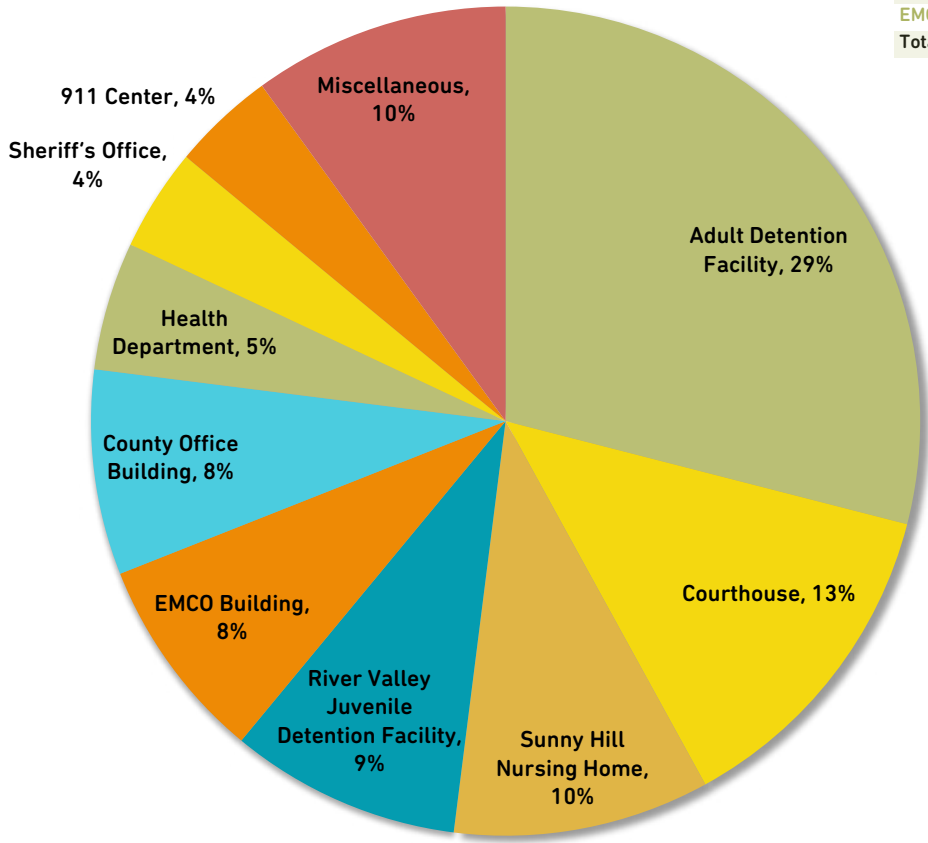
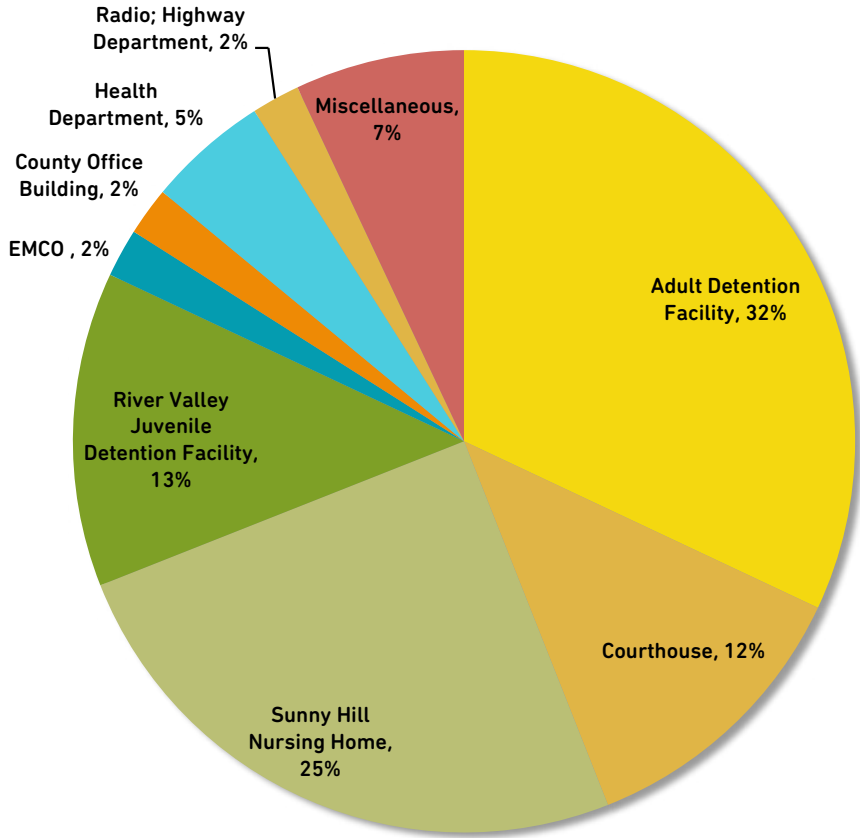


Table 2.6. 2009 County Government Operations Natural Gas Use and Cost by Facility/Department

Department	Natural Gas Usage (Therms)	Cost	Percent of Total Use
Adult Detention Facility	297,000	\$173,000	32%
Sunny Hill Nursing Home	228,000	\$89,000	25%
River Valley Juvenile Detention Facility	119,000	\$89,000	13%
Courthouse	115,000	\$77,000	12%
Miscellaneous	60,000	\$60,000	7%
Health Department	45,000	\$31,000	5%
County Office Building	19,000	\$14,000	2%
Radio; Highway Department	19,000	\$13,000	2%
EMCO	18,000	\$13,000	2%
Total	920,000	\$559,000	100%

Figure 2.6 | 2009 County Government Operations Natural Gas Consumption by Facility/Department



DATA REVIEW

Table 2.3. 2009 Total Energy Usage by Sector

Sector	Energy Usage (Btus)	Percent of Total Use
County Government Operations	332,800,000,000	<1%
Residential	51,000,000,000,000	37%
Commercial/Industrial ¹	78,300,000,000,000	58%
Transportation	7,100,000,000,000	5%
Total Btus	136,700,000,000,000	100%

Figure 2.3 | 2009 Total Energy Use by Sector

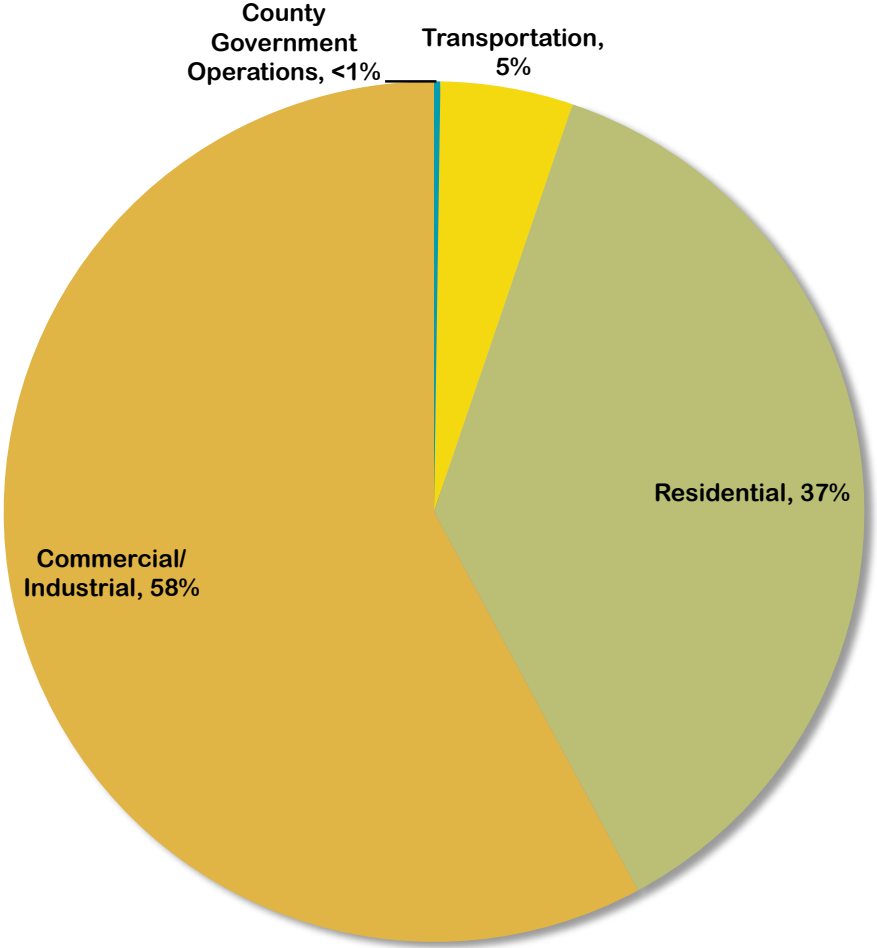


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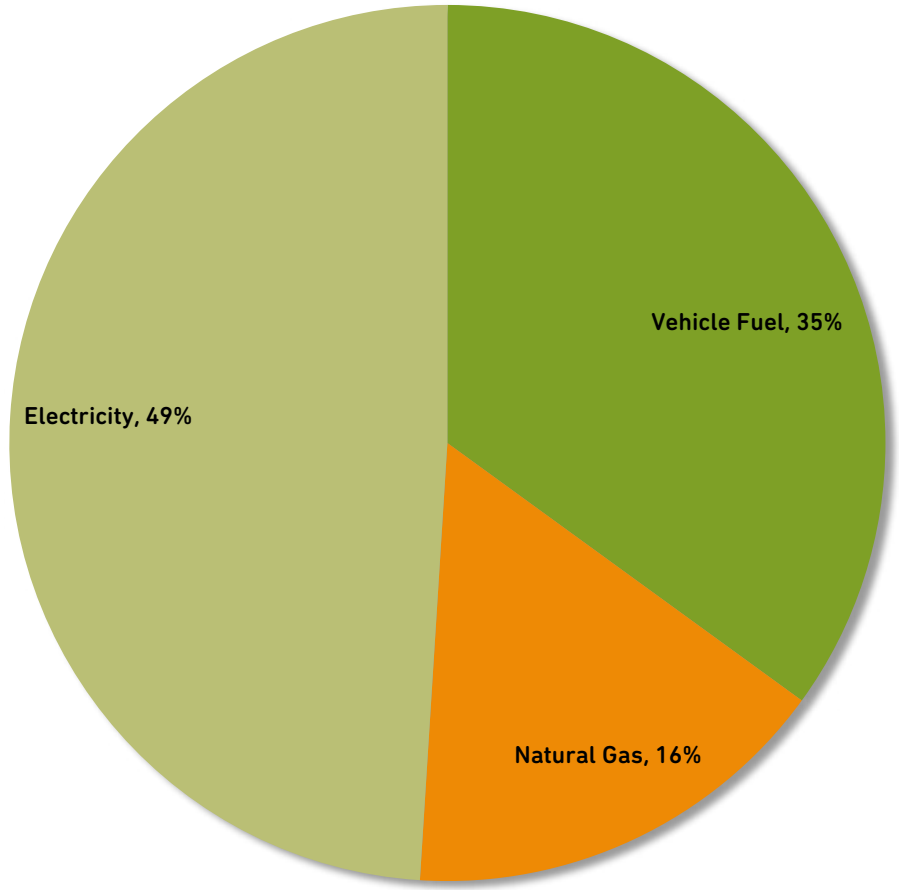


Table 2.4. 2009 County Government Operations Energy Costs by Source

Category	Cost	Percent
Electricity	\$1,760,000	49%
Natural Gas	\$560,000	16%
Vehicle Fuel	\$1,255,000	35%
Total	\$3,575,000	100%

Figure 2.7 | 2009 County (Government) Operations Vehicle Fuel Consumption by Department

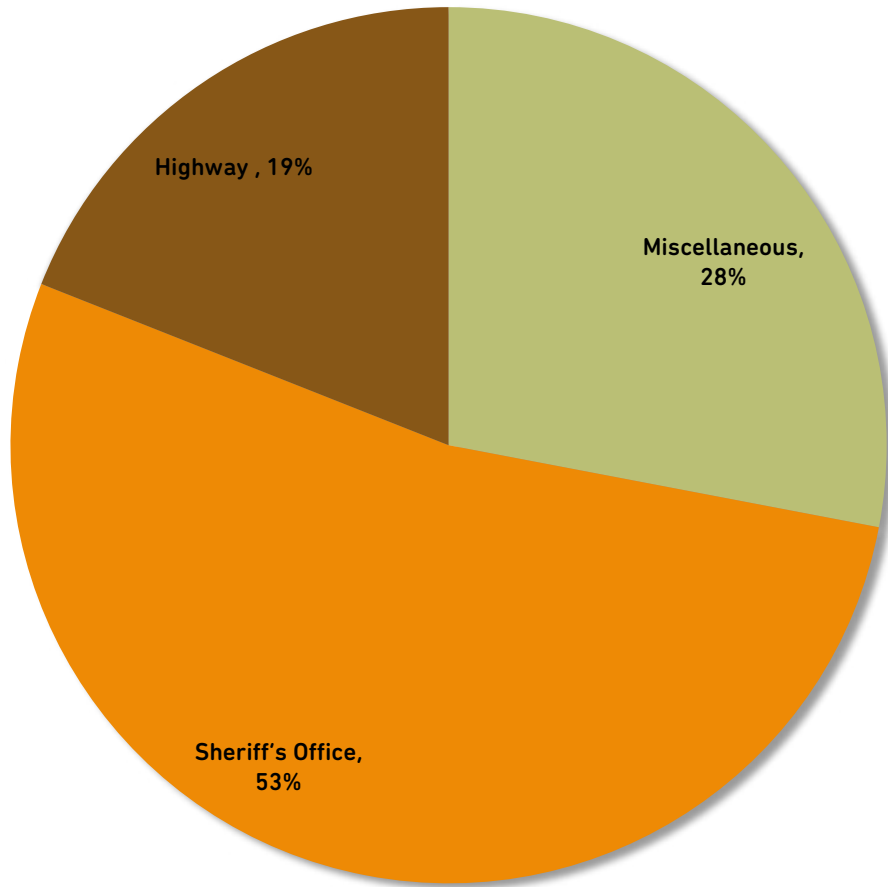


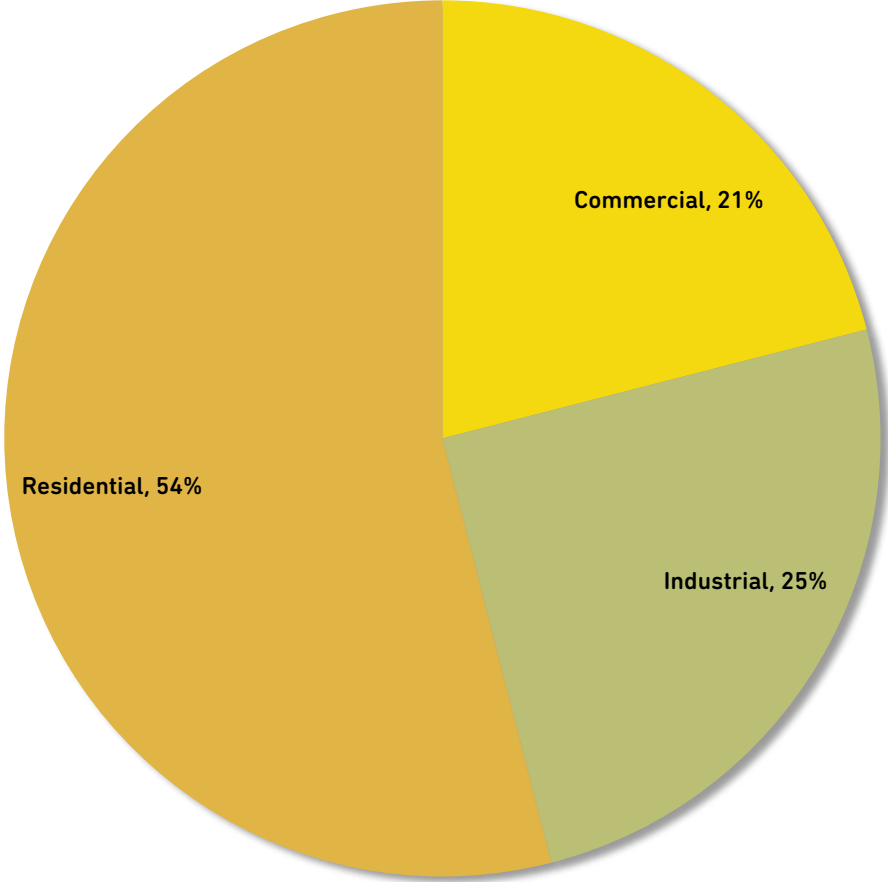
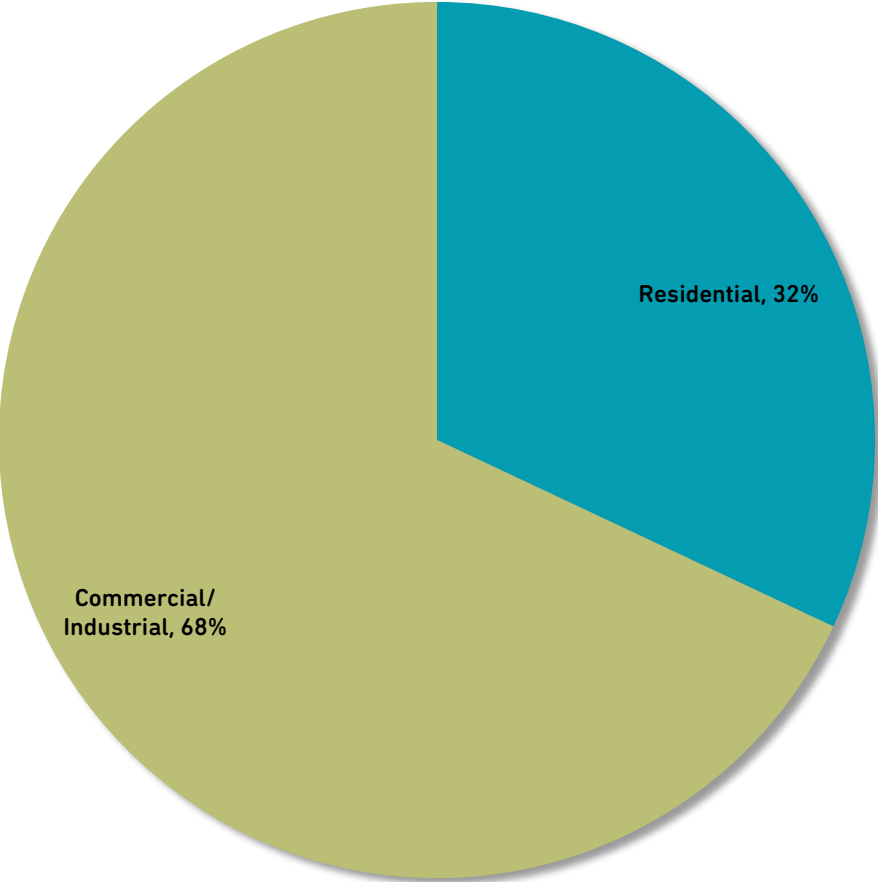
Table 2.7. 2009 County Government Operations Vehicle Fuel Use and Cost by Department

Department	Gallon	Cost	Percent
Sheriff's Office	239,000	\$678,000	53%
Highway	83,000	\$219,000	19%
Miscellaneous	126,000	\$358,000	28%
Total	448,000	\$1,255,000	100%

*The Highway Department provided a year's worth of data from September 2008 thru August 2009 and represents an approximation of vehicle fuel use and cost for FY 2009.

Figure 2.8 | 2009 County-wide Community Electricity Consumption by Type

Figure 2.9 | 2009 County-wide Community Natural Gas Consumption by Sector



DATA REVIEW

Figure 2.10 | 2009 County-wide Community Fuel-Oil Consumption by Type

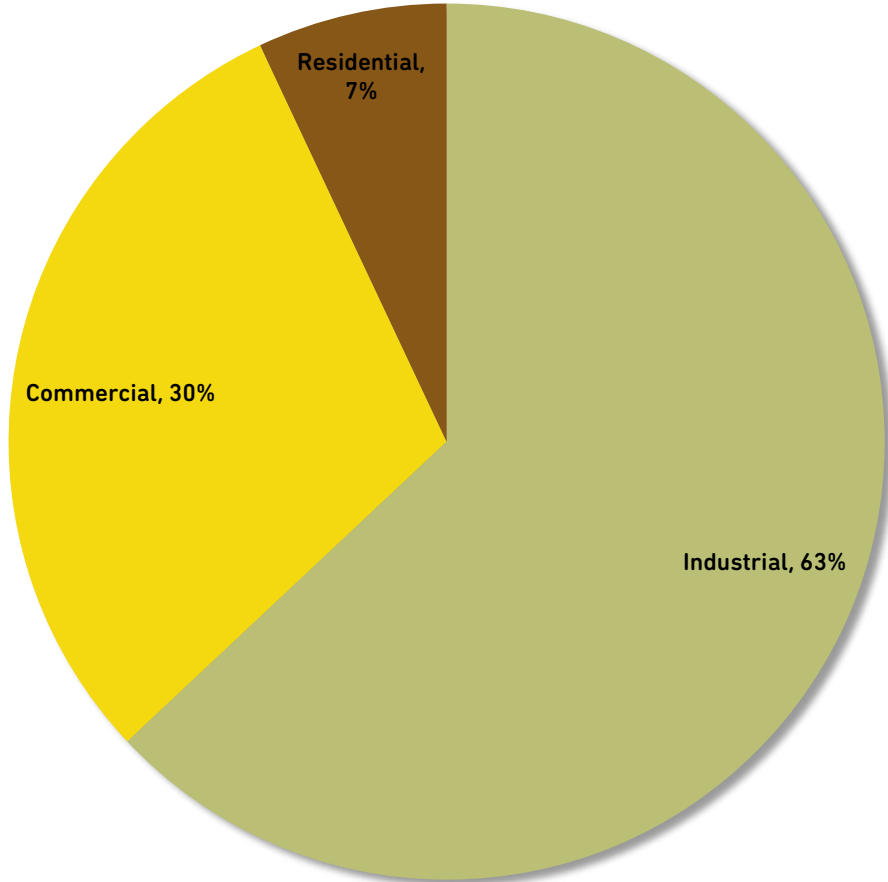


Figure 2.11 | 2009 County-wide Community Vehicle Fuel Consumption by Type

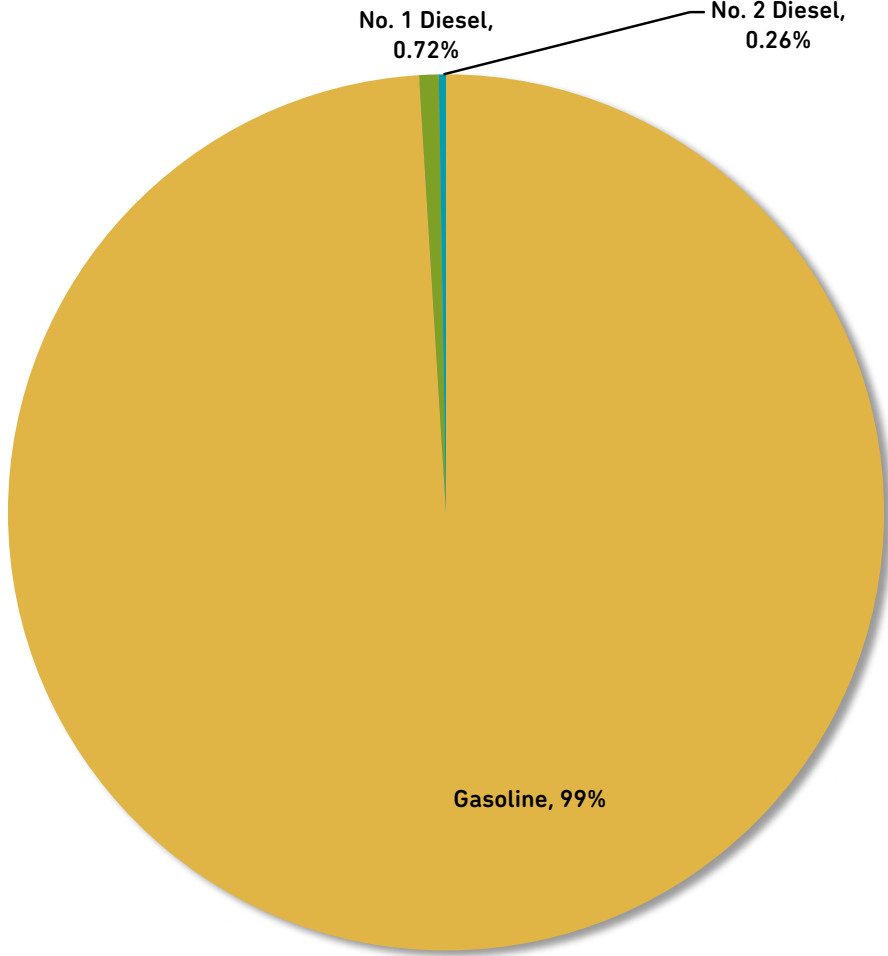


Table 2.8. 2009 County Government Operations Emissions

Source	Metric tons CO2e per year	Metric tons CO2e per County Government Employee
Electricity Production	12,600	5
Natural Gas Combustion	5,000	2
Mobile Sources	3,800	1.5
Total	21,400	8.5

Table 2.9. 2009 County-Wide Community Emissions

Source	Metric tons CO2e per year	Metric tons CO2e per capita
Electricity Production	5,800,000	8.71
Natural Gas	2,300,000	3.46
Fuel Oil Combustion	51,000	0.08
Mobile Sources	2,700,000	4.02
Solid Waste Disposal	25,000	0.04
Total	10,900,000	16.3

Figure 2.12 | 2009 County Government Operations Pollution by Source

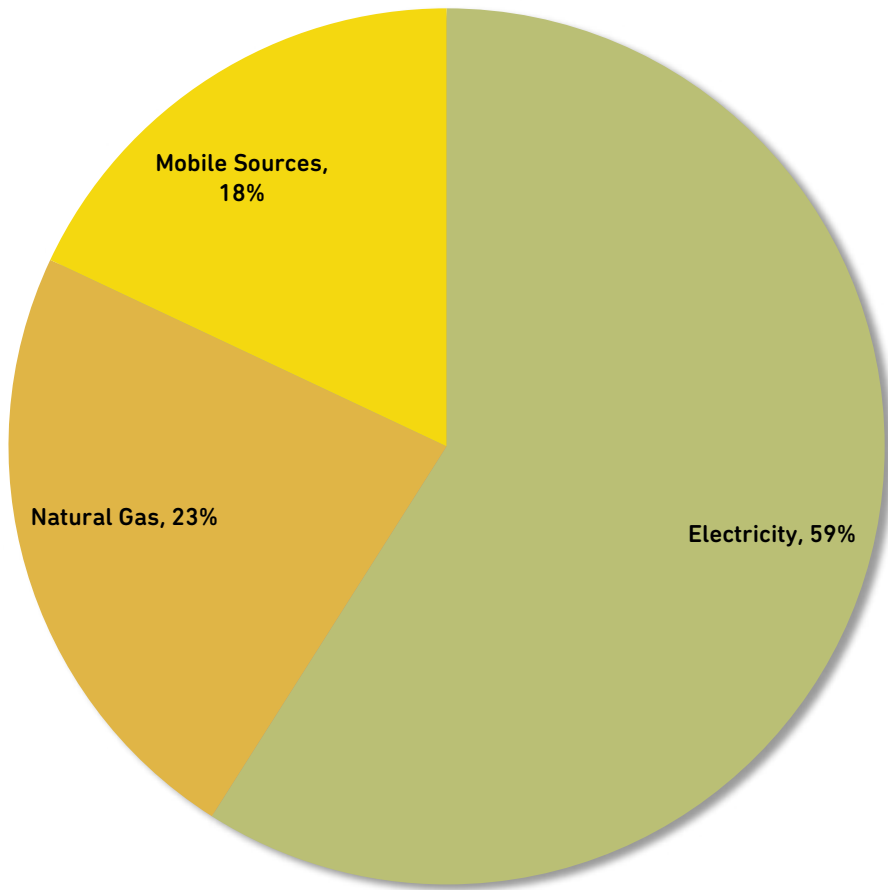
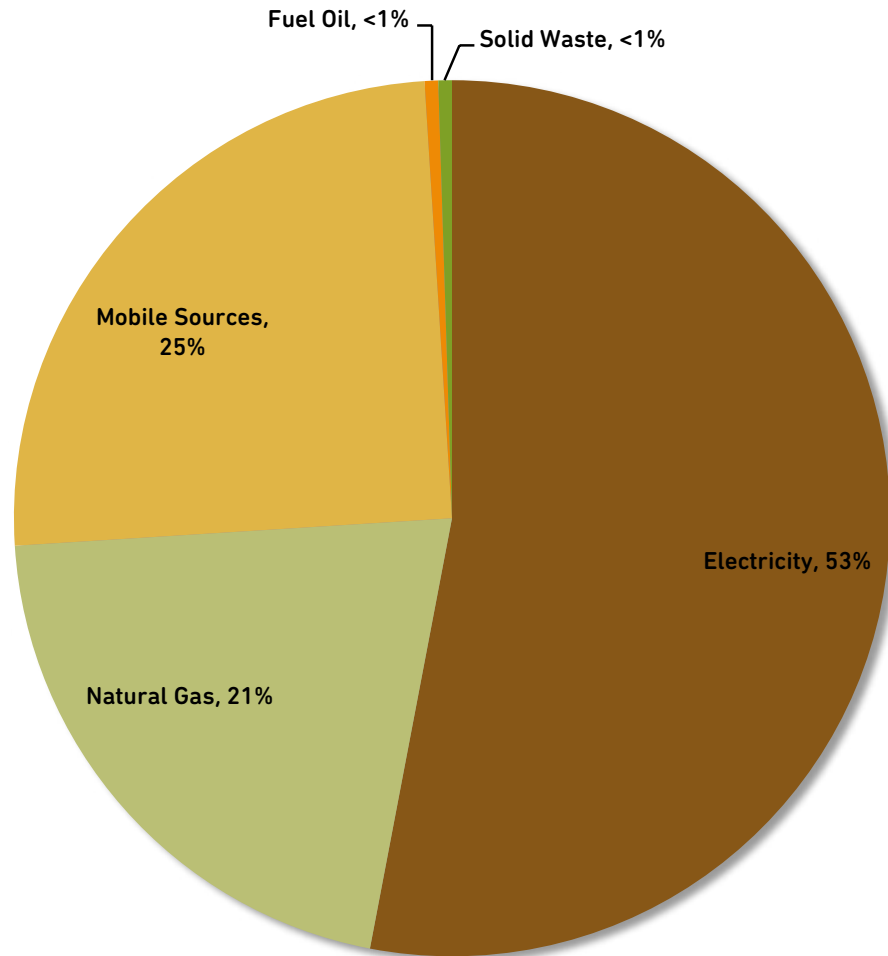


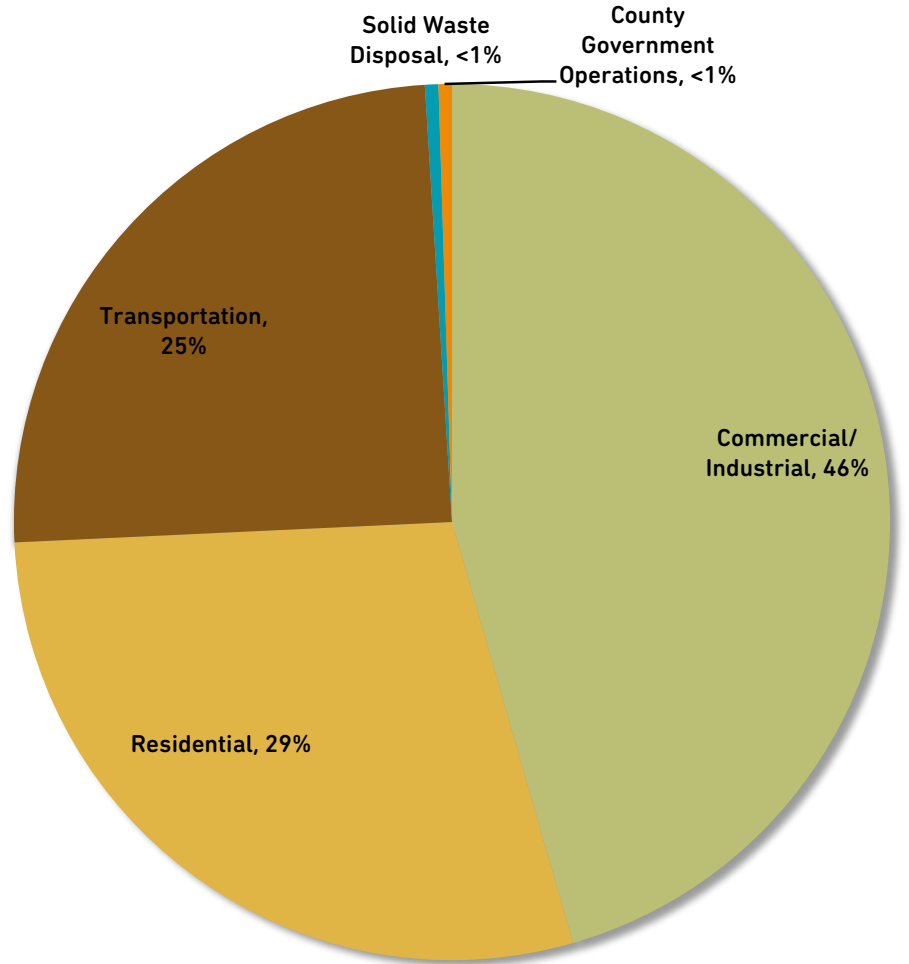
Figure 2.13 | 2009 County-wide community Pollution by Source



DATA REVIEW

Figure 2.14 | 2009 Total Pollution by Sector

Emissions by Sector	Metric tons CO2e per year
County Government Operations	21,000
Residential	3,100,000
Commercial/ Industrial	3,100,000
Transportation	2,700,000
Solid Waste Disposal	25,000
Total	10,900,000



BREAK!

10:50am - 11:00am



GROUP SESSIONS

GROUP 1

Objective Topics

- ✘ Land Use
- ✘ Transportation

Program Topics

- ✘ Green Building Code
- ✘ Green Building Permit
- ✘ Green Zoning
- ✘ Community Gardens

Facilitator: Brian

Members

- CMAP
- Jeff Woodward
- Kris White
- LeeAnn Goodson
- Pat Fera
- Ron Alberico

GROUP 2

Objective Topics

- ✘ Material Management
- ✘ Education and Outreach

Program Topics

- ✘ Alternative Fuel Vehicle Fleet
- ✘ Web-Based Sustainability Education Program
- ✘ Electronic "IT" Management System

Facilitator: Marta

Members

- Carmen Morales
- Irv Nunn
- Jeff Hettrick
- Karrie Gibson
- Kevin Moss
- Maria Rafac
- Dr. Phyllis Wilson
- Salim Diab

GROUP 3

Objective Topics

- ✘ Public Facilities
- ✘ Water Systems

Program Topics

- ✘ Renewable Energy on Brownfields
- ✘ Gas-to-Energy
- ✘ County Building Retrofits

Facilitator: Dean

Members

- ✘ Jim Holland
- Emily McAsey
- Howard Norberg
- Isaac Triska
- Laurie McPhillips
- Mark Schneidewind
- Mike Miglorini
- Robert Howard
- Tony Janowski



GROUP DISCUSSION

GROUP 1

- ✘ Objective Review
- ✘ Program Review
- ✘ New Objectives
- ✘ New Programs

GROUP 2

- ✘ Objective Review
- ✘ Program Review
- ✘ New Objectives
- ✘ New Programs

GROUP 3

- ✘ Objective Review
- ✘ Program Review
- ✘ New Objectives
- ✘ New Programs



WHAT'S NEXT?

Next Meeting Monday, April 16th, 2012

Preview of Next Meeting

Information can be found at



UNTIL NEXT TIME!

Thank you for your participation!

