

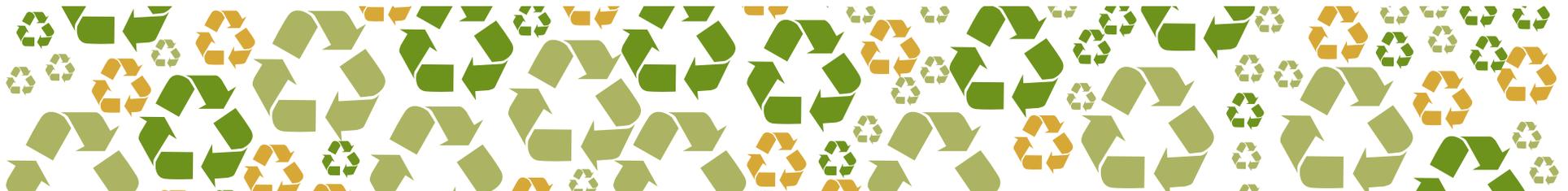
Energy Efficiency And Conservation Plan Task Force

Friday, February 10th, 2012



Agenda

- 10:00am - 10:10am ● **Staff Introduction**
- 10:10am - 10:30am ● **Task Force Introduction**
- 10:30am - 10:40am ● **Task Force Mission Statement**
- 10:40am - 10:50am ● **EEC Plan Vision Statement**
- 10:50am – 11:00am ● **Break**
- 11:00am - 11:50am ● **Review of Draft EEC Plan**
 - × **Section 1**
 - × **Section 2**
 - × **Section 3**
 - × **Section 4**
 - × **Section 5**
- 11:50am - 12:00pm ● **Wrap-Up**



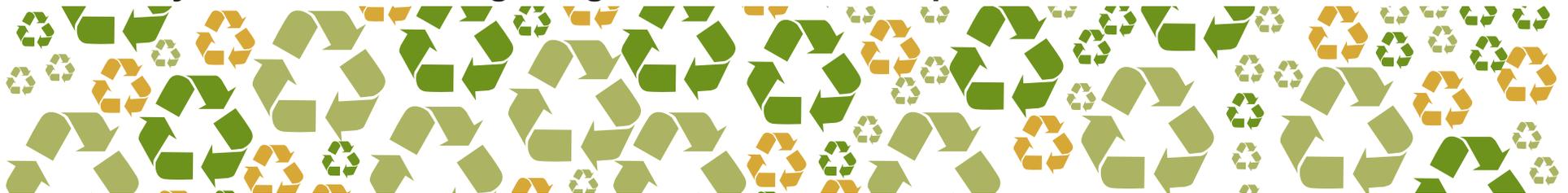
Staff Introduction

- **Curt Paddock – Director of Will County Land Use**
- **Dean Olson – Director of Resource Recovery and Energy**
- **Marta Keane – Recycling Program Specialist**
- **Brian Radner – Assistant Director**
- **James Harris – Energy Plan Assistant**



Task Force Introduction

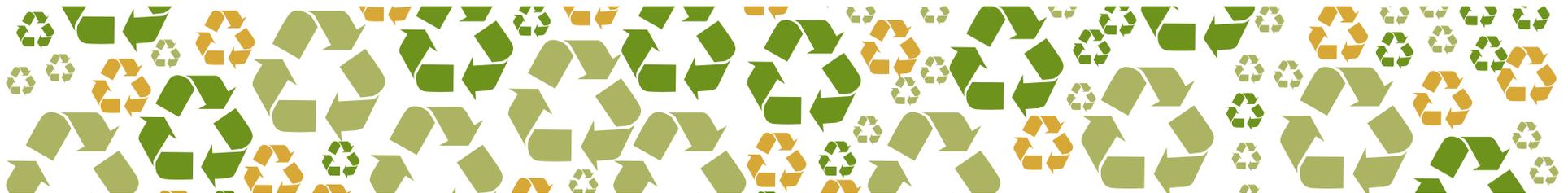
- ✘ **Jim Holland – Village of Frankfort**
- **Carmen Morales – AGL Resources**
- **Howard Norberg – Iron Workers Union Local 444**
- **Irv Nunn – Genesis Energy International**
- **Isaac Triska – Martin Whalen Office Solutions**
- **Jeff Woodward – Panduit**
- **Jeff Hettrick – Commonwealth Edison Company**
- **Jesse Elam – Chicago Metropolitan Agency for Planning**
- **Karrie Gibson – Vintage Tech Recyclers**
- **Kevin Moss – CITGO Petroleum**
- **Kris White – Will County Center for Community Concerns**
- **Laurie McPhillips – Will County Board**
- **LeeAnn Goodson – Aide to Representative Tom Cross**
- **Maria Rafac – Joliet Junior College**
- **Mark Schneidewind – Will County Farm Bureau**
- **Pat Fera – Will County Workforce Services Division**
- **Dr. Phyllis Wilson- Joliet School District 86**
- **Robert Howard – Washington Township**
- **Ron Alberico – Lockport Township**
- **Salim Diab – University of St. Francis**
- **Tony Janowski – Chicago Regional Council of Carpenters**



Task Force Mission

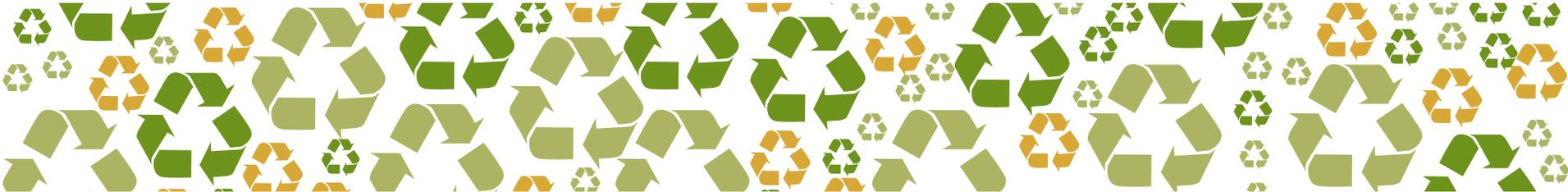
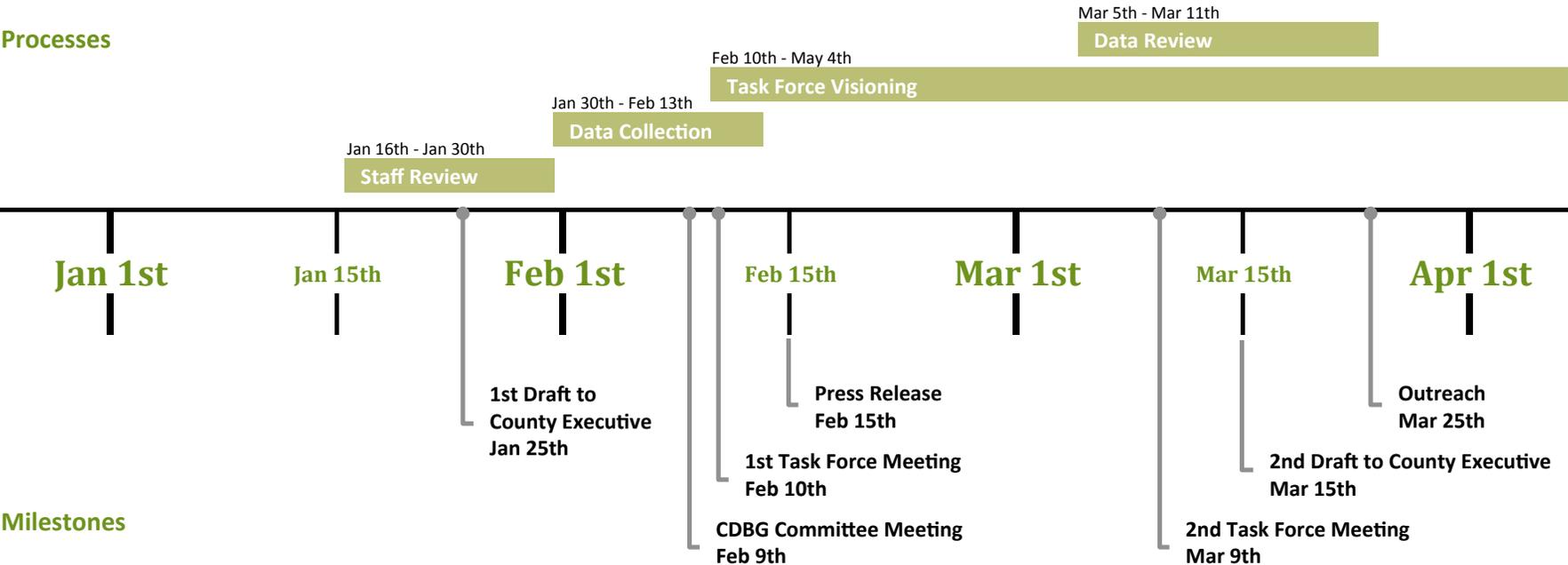
We have invited you to be a part of Will County's EEC Task Force because of your involvement in the community and your professional expertise, we are looking forward to your valuable input while serving on the Task Force. This Task Force will meet monthly for several months to review, comment and develop a Will County Energy & Conservation Plan.

The Will County Energy and Conservation Plan, that your Task Force is charged with developing will recommend a variety of private and public sector initiatives to reduce energy consumption, promote renewable energy sources, conserve our natural resources, and achieve long term cost savings for individuals, businesses and government.



Timeline 1/2

Energy Plan Timeline



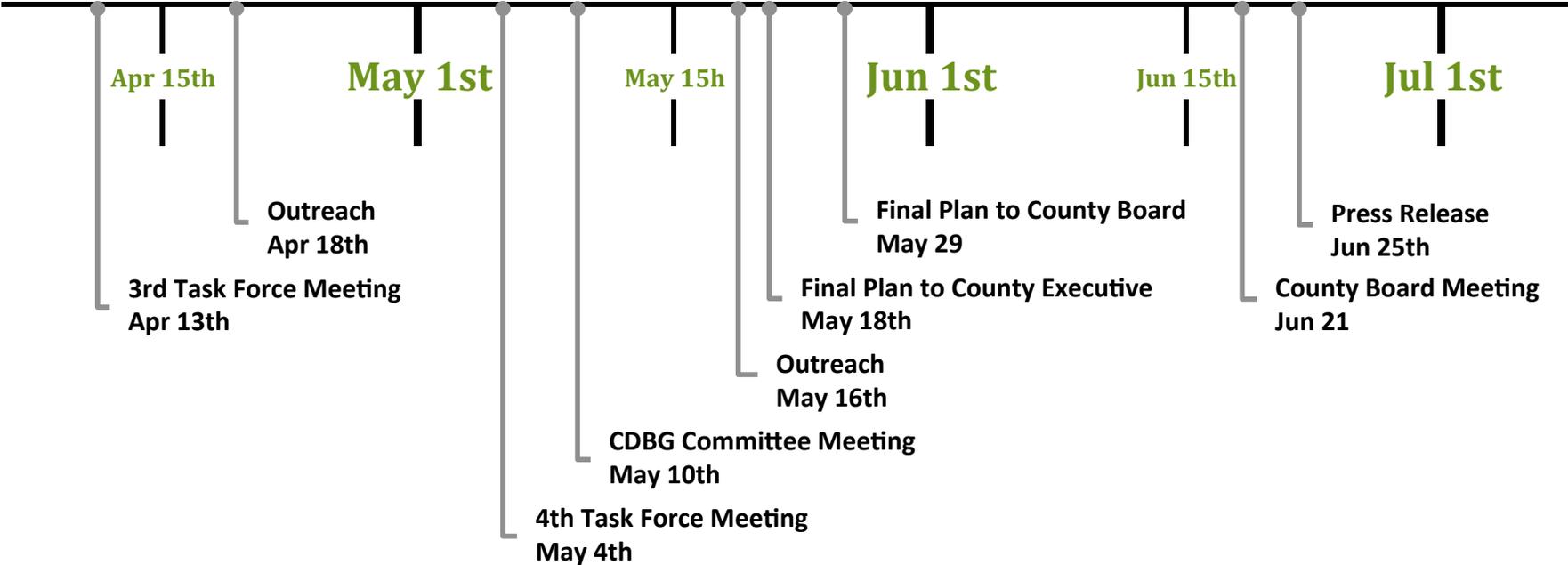
Timeline 2/2

Apr 15th - May 4th

2nd Staff Review

May 4th - May 29th

Plan Finalization



Draft Vision Statement

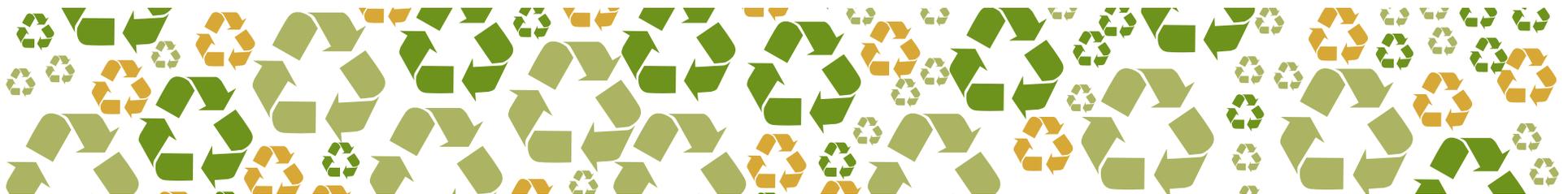
Energy plays a critical role in the health of Will County's economy and environment. It generates electricity, heats our homes, supports our businesses, and runs our transportation systems. Without sustainable management, the future of energy poses significant risks to our economy, environment, and quality of life.

Too much reliance on volatile, foreign oil supplies destabilizes our economy and pollutes our environment. Non-renewable fuels are a finite and costly resource. High energy costs, natural resource depletion, air and water pollution threatens the well-being of our community.

A sustainable energy future requires a drastic paradigm shift—transitioning away from primarily fossil fuels and unrestrained energy consumption towards renewable energy and sustainable development. The energy challenge is global in nature but necessitates local action. Will County is responding to the global and local imperative by creating a community vision of sustainable energy management.

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 10 percent increase in energy efficiency by 2025. The vision forms the foundation of the Plan from which strategic goals and actions were established and will be taken by the County.

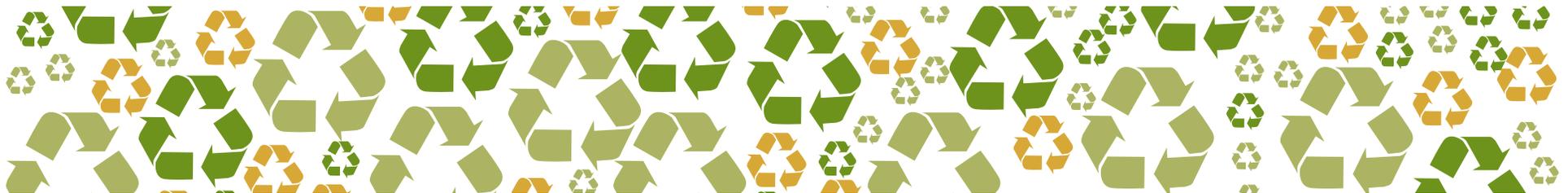
The Plan provides an innovative framework for the County to transition towards a more sustainable energy future. It provides a roadmap of actions to reduce the County's reliance on non-renewable sources of energy.



BREAK!

10:50am - 11:00am

Refreshments are at the rear!



Goals and Principles

● Goals

- ✦ Achieve a 10% increase in energy efficiency county-wide by 2025.

● Triple Bottom Line Approach

- ✦ The TBL states that success is measured not only by financial performance (the traditional bottom line) but also by environmental stewardship and social responsibility.

● Guiding Principles

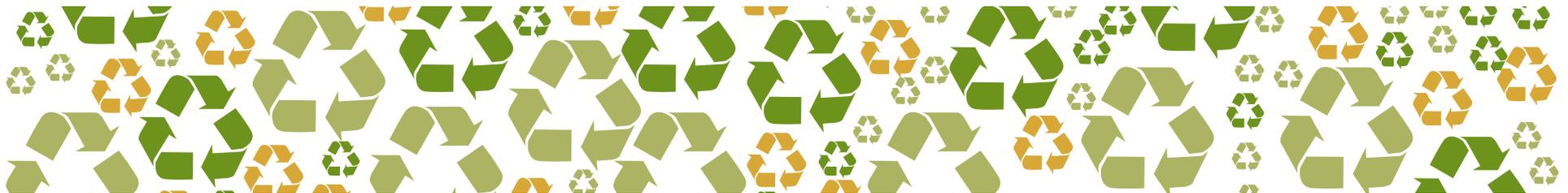
- ✦ Promoting a collaborative process
- ✦ Applying an integrated, strategic system management approach
- ✦ Engaging and educating County employees and the community.
- ✦ Demonstrating leadership in responsible energy management.
- ✦ Measuring, monitoring and communicating the County's progress.



Management System



Questions?



Energy Assessment

In 2009 CDM performed an energy assessment for Will County government operations and community.

The baseline data includes the categories of electricity, natural gas, vehicle fuel, and emissions.

Non-renewable energy sources account for 93 percent of all energy used in the United States.

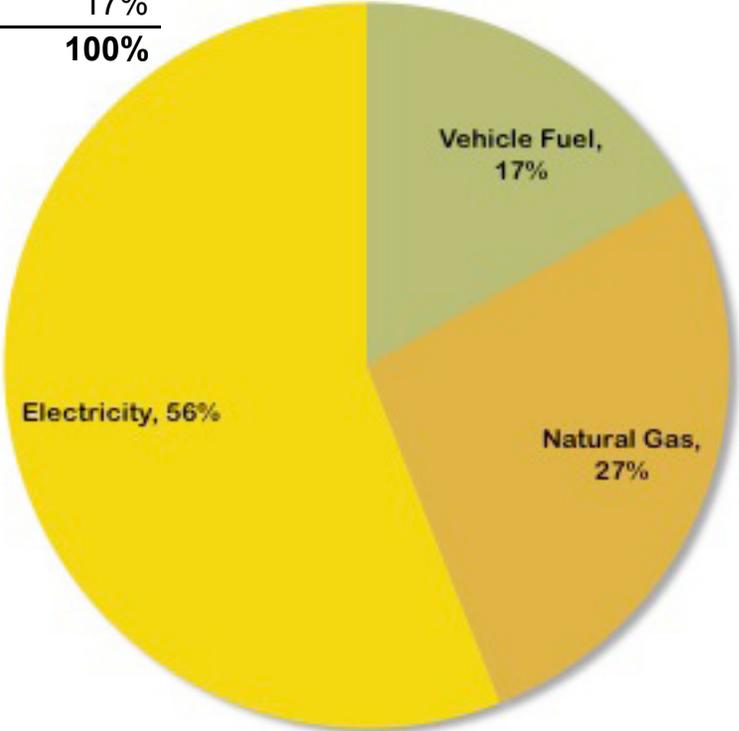
Energy in Will County is predominately derived from non-renewable energy sources.

Updated energy use data, including water and waste data will be included in the final plan



Table 2.1. 2009 County Government Operations Energy Consumption by Source

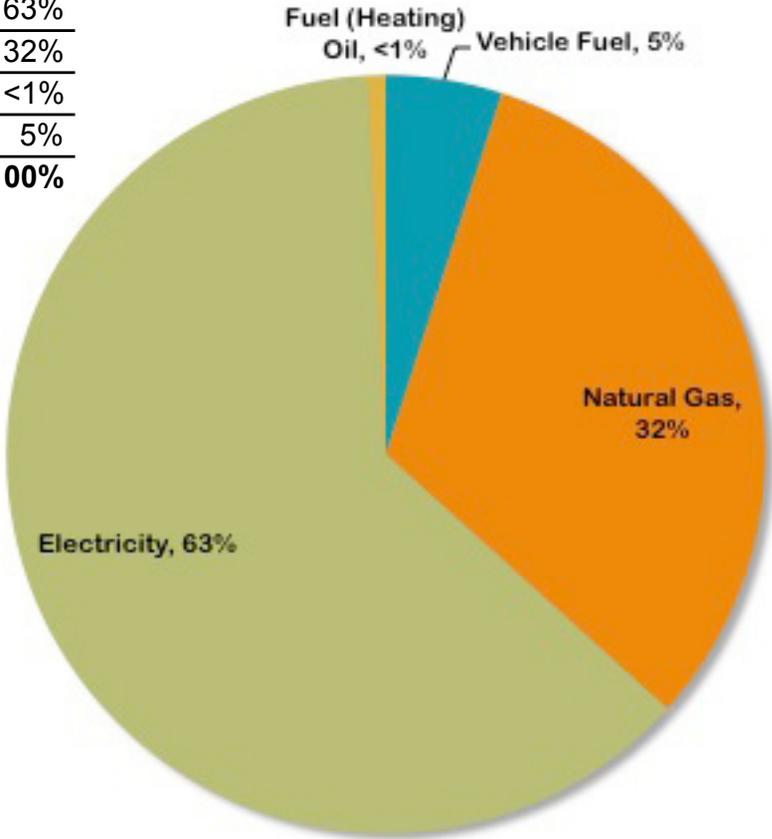
Source	Energy (Btus)	Percent of Total Use
Electricity	185,800,000,000	56%
Natural Gas	91,900,000,000	27%
Vehicle Fuel	56,000,000,000	17%
Total	333,700,000,000	100%



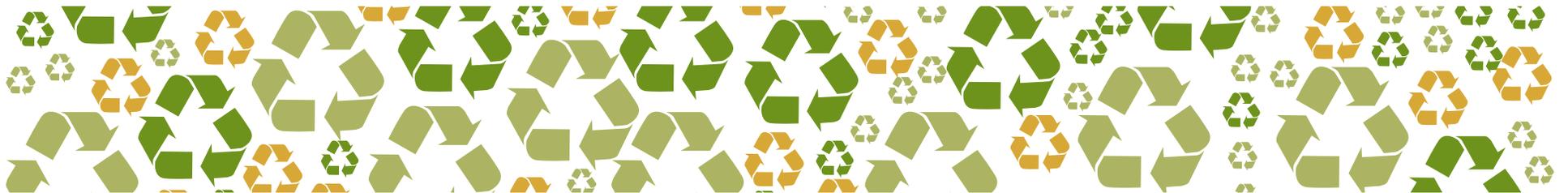
Plan Review: Section 2

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%



Questions?



Energy Efficiency and Conservation Opportunities

Section 3 outlines 12 objectives related to the 6 focus areas of the Draft Plan. To achieve each objective the draft plan identifies actions for County government and the County-wide community.

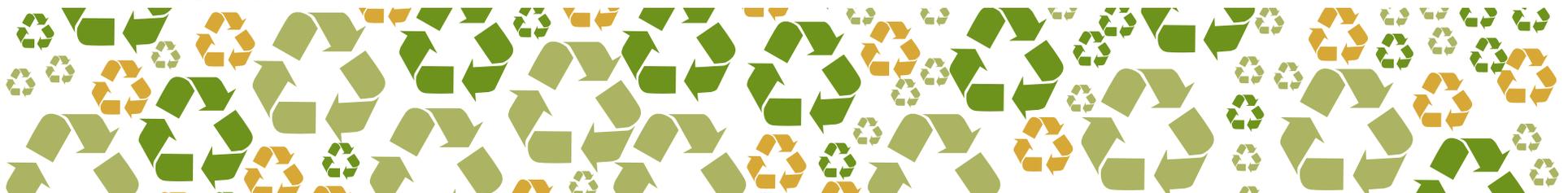
Focus areas and objectives are as follows:

● Buildings and Public Facilities

- ✦ **Objective 1:** Reduce energy consumption and air pollutant emissions from County Government facilities through demand reduction and building retrofits by 10 percent.
- ✦ **Objective 2:** Apply sustainable building standards (i.e. LEED® certification) for new County Government buildings.
- ✦ **Objective 3:** Produce as much 10 percent of Will County's total energy use through on site renewable energy sources.

● Transportation

- ✦ **Objective 4:** Reduce per capita vehicle miles traveled (VMT) by 30 percent and expand alternative transportation infrastructure and programs.
- ✦ **Objective 5:** Reduce net air pollutant emissions and increase alternative vehicle and fuel use.



● Material Management

- × **Objective 6:** Reduce solid waste generation.
- × **Objective 7:** Divert 50-60 percent of all waste away from landfill disposal.
- × **Objective 8:** Generate energy and reduce emissions from the solid waste management system.

● Water Systems

- × **Objective 9:** Reduce water consumption by 20 percent.

● Land Use

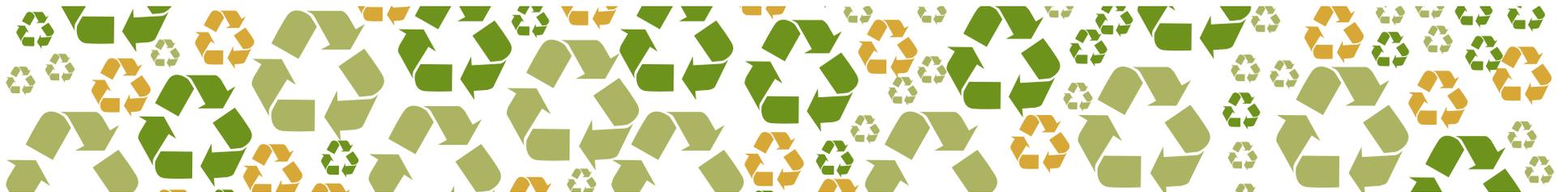
- × **Objective 10:** Develop land use policies that support sustainable growth.
- × **Objective 11:** Characterize current land use patterns and support sustainable development projects.

● Education and Outreach

- × **Objective 12:** Encourage County employees, residents, and local businesses to reduce energy consumption at home and in the work place.
- × **Objective 13:** Incorporate energy efficiency and conservation into education and outreach efforts.



Questions?



Energy Efficiency and Conservation Measures

Section 4 identifies 12 programs and initiatives that would help Will County's goal of achieving 10% energy efficiency by 2025.

Programs and initiatives are as follows:

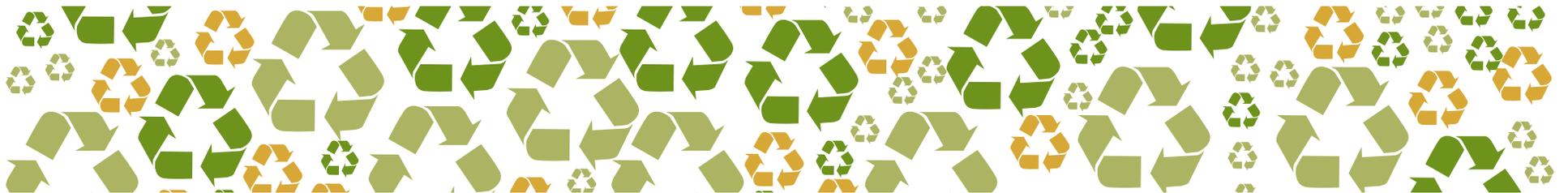
- **Energy Efficiency & Conservation Plan**
- **Web-Based and Other Sustainability Education Program**
- **County Government Energy Policy**
- **Green Building Permit Program**
- **Green Building Code Modifications**
- **Green Zoning Modifications**



- **Electronic “IT” Power Management System**
- **County Building Retrofits**
- **Landfill Gas-to Energy Facility**
- **Renewable Energy at Brownfield Sites**
- **Alternative Fuel Vehicle Fleet**
- **Community Gardens**



Questions?



Implementation

Section 5 outlines the implementation process of the Energy Plan.

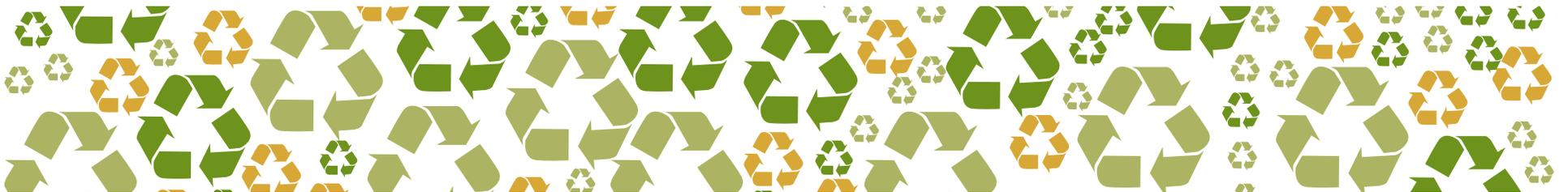
The plan will use the following metric in gauging the progress of goals

- **Jobs created and/or retained**
- **Energy saved**
- **Renewable energy generated**
- **Emissions reduced**
- **Cost savings**

Implementation schedule: TBD

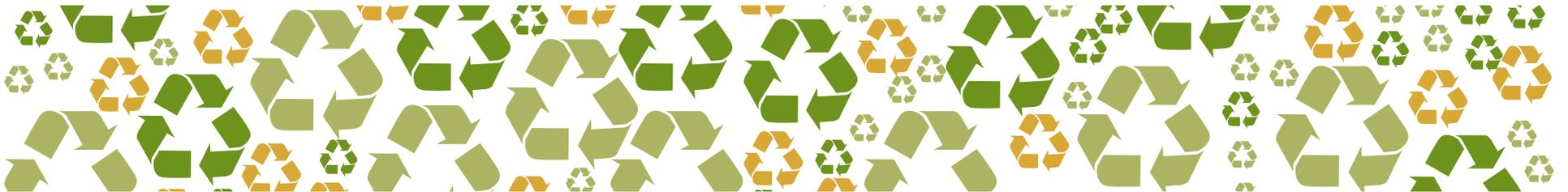


Questions?



11:50am - 12:00pm

Questions are Welcomed!



Next Meeting Friday March 9th, 2012

Homework for Next Meeting

Contact Information

Curt Paddock – Director of Will County Land Use

E: cpaddock@willcountyillinois.com

T: 1.815.774.4353

Dean Olson – Director of Resource Recovery and Energy

E: dolson@willcountyillinois.com

T: 1.815.774.7891

Marta Keane – Recycling Program Specialist

E: mkeane@willcountyillinois.com

T: 1.815.774.4343

Brian Radner – Assistant Director

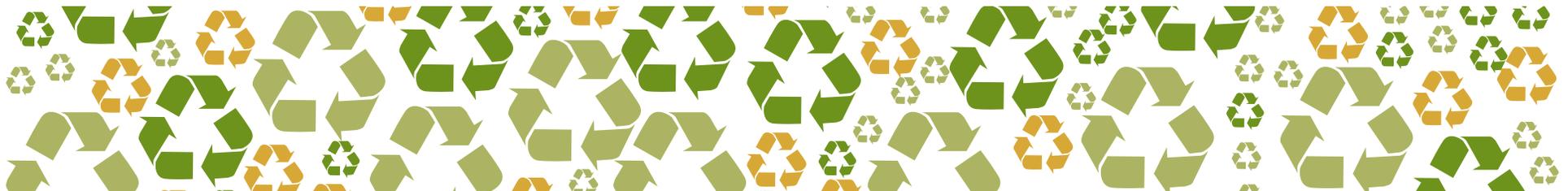
E: bradner@willcountyillinois.com

T: 1.815.774.3362

James Harris – Energy Plan Assistant

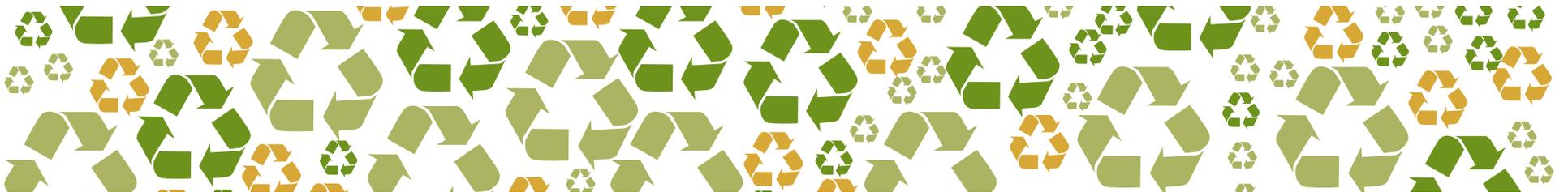
E: jmharris@willcountyillinois.com

T: 1.815.774.3376



For More Information

Please Visit



Until Next Time!

Thank you for your participation!

