

Blues, Chair
Stinnett, Vice Chair
Gorton
Farmer
Crosbie
Myers
McChord
Martin
Henson
Lane

A G E N D A

Environmental Quality Committee

February 28, 2011

11:00 A.M.

1. **Empower Lexington** (1-25)
2. **Public Comment**
3. **Items Referred** (26)

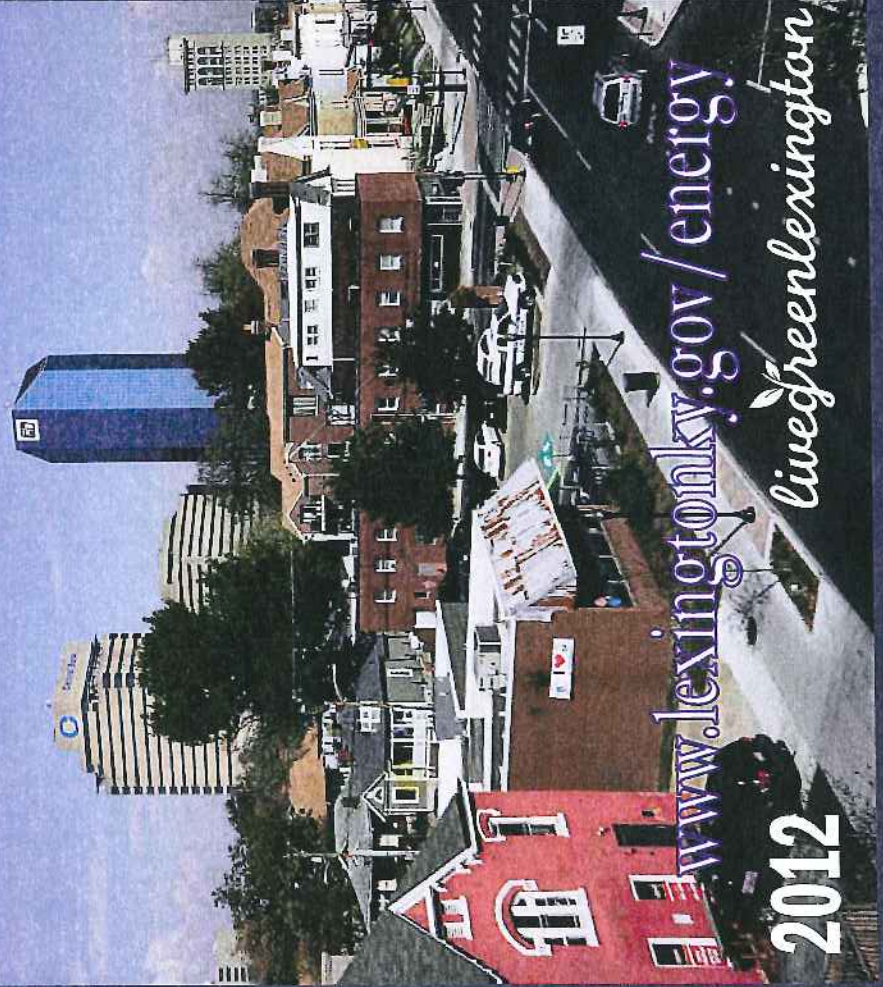
“Environmental Quality Committee, to which shall be referred matters relating to the Department of Environmental Quality and its divisions, and any related partner agencies.”

-Council Rules & Procedures, Section 2.102(1)

City of Lexington and Fayette County

Empower Lexington

A Plan For a Resilient Community



www.lexingtonky.gov/energy

2012

livegreenlexington

BACKGROUND

- ▶ Council authorized Lexington to participate in the voluntary Cities for Climate Protection Program;
- ▶ Under this Program communities develop a local plan to lower energy use and emissions
- ▶ Multiyear effort then followed to develop the *Empower Lexington* plan

KEY POINTS

- ▶ *Empower Lexington* is a plan to make Lexington more energy efficient
- ▶ Sets a target to reduce community energy use by 1% annually
- ▶ **Voluntary** plan- contains no mandates or restrictions

KEY POINTS

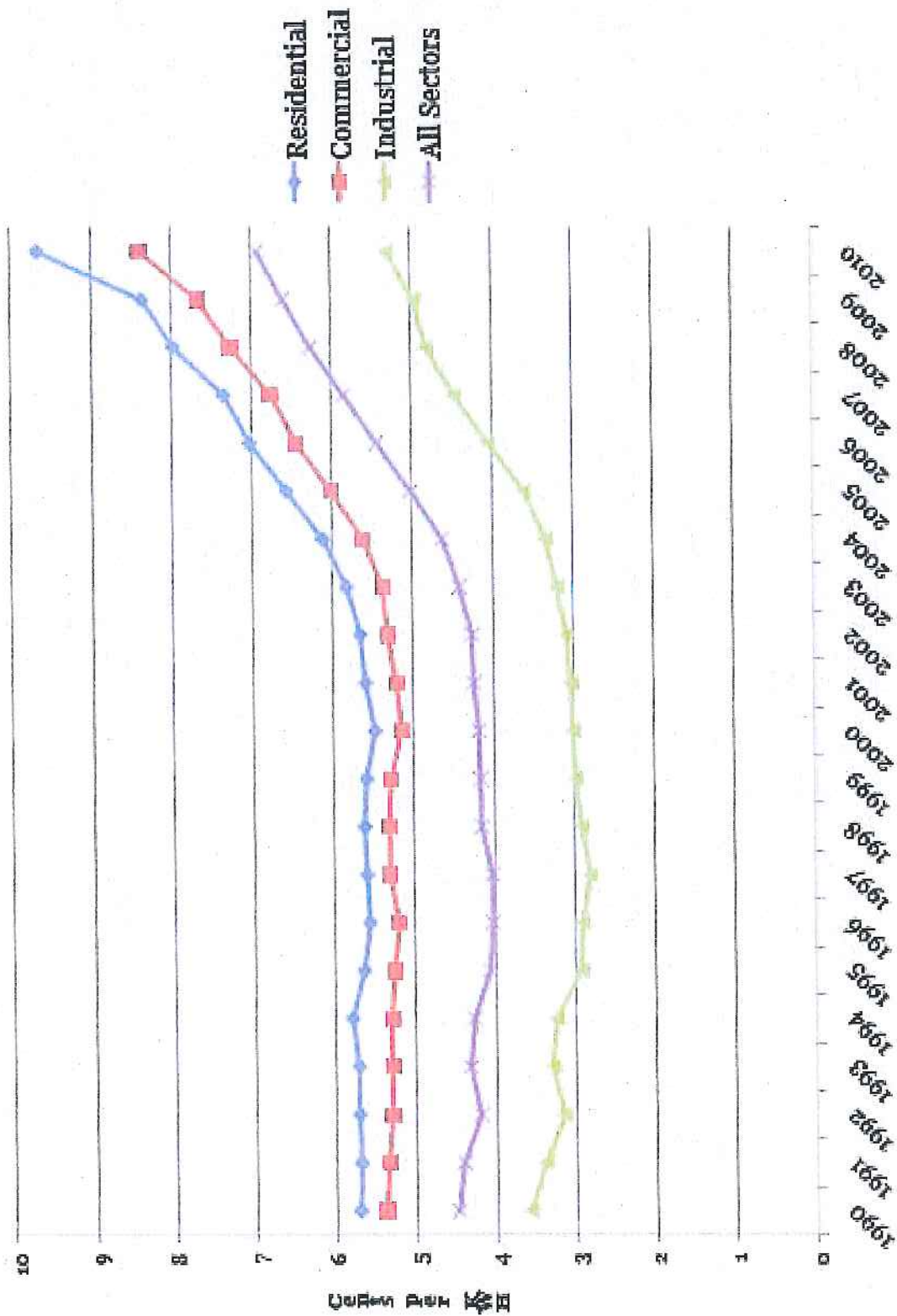
- ▶ The Plan identifies opportunities for reducing energy use & is designed to be flexible
- ▶ Developed through consensus process specifically addressing Lexington
- Focuses on managing resources wisely & building partnerships

KEY POINTS

Contains 27 recommendations & ideas developed by community stakeholders in 5 sectors:

- Residential
- Transportation
- Industrial/Commercial/Institutional
- Land Use/Food/Agriculture
- Waste

Kentucky Average Retail Electricity Price



Source: Energy Information Administration

In 2010, Kentucky ranked 6th nationally in terms of residential electricity consumption per capita (we used the 6th highest amount per resident)

In 2011 the retail price of gasoline averaged \$3.50/gallon in the US and the typical American household spent \$4,155 on fuel- the highest share of family income spent on fuel since 1981

Our community as a whole paid over 11 million dollars in landfill disposal (tipping) fees in 2010

STAKEHOLDERS/PARTICIPANTS

- ▶ Diverse stakeholders group from the community began meeting monthly in July '09
- ▶ Close to 75 stakeholders & city staff involved in plan development

The 5 Milestones

5 step process similar to business improvement models :

1. Establish baseline inventory
2. Set a reduction target
3. Develop a plan of action
4. Implement plan recommendations
5. Monitor progress to verify effectiveness

STEP 1- ESTABLISHING OUR BASELINE

In 2007 Fayette County used

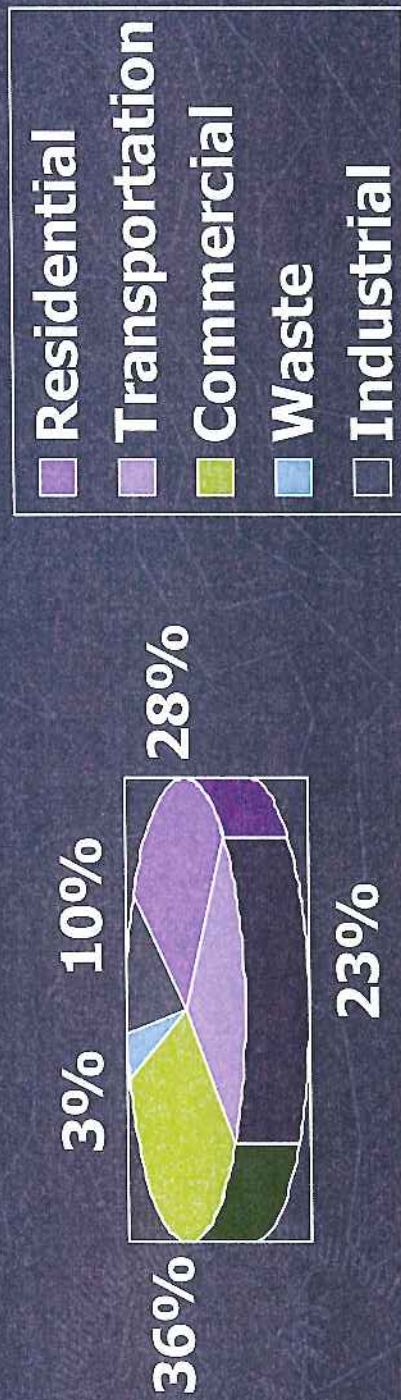
- ▶ 4.6 billion kilowatt hours (kWh) of electricity
- ▶ 92 million gallons of petroleum (includes interstate travel)
- ▶ 7.5 million mcf (thousand cubic feet) of natural gas

STEP 1- ESTABLISHING OUR BASELINE

- Calculated CO₂ emissions for 2007 based on energy use
- ▶ Community generated 6.5 million metric tons of CO₂ equivalent
- ▶ LFUCG generated only 2% of total-

FAYETTE COUNTY 2007 EMISSIONS

COMMUNITY CO₂ EMISSIONS BY PERCENTAGE



STEP 2- SETTING A REDUCTION TARGET

Voluntary community-wide reduction target of
1% per year proposed in plan:

- ▶ Achievable *and* significant
- ▶ Immediate impact
- ▶ Easy to communicate
- ▶ Tracked on a per capita basis and absolute basis
- ▶ 2011 energy use will serve as benchmark

STEP 3- DEVELOPING THE PLAN

- ▶ Reviewed other community plans first
- ▶ Established subteams for 5 key sectors
- ▶ Each subteam identified one primary goal & recommendations to support their primary goal

Residential Sector Goal-

"To provide residents with the resources and knowledge needed so they can live more sustainably, save energy and save money"

Industrial/Commercial/Institutional Sector Goal–

"To promote energy efficiency and provide businesses and organizations with the knowledge and tools needed to save energy and money"

Land Use/Food/Agriculture Sector

Goal—

*"To preserve and enhance land and Bluegrass
soils"*

Transportation Sector Goal –

"To provide an efficient, interconnected transportation system that improves quality of life, saves Fayette County citizens time and money, and moves people and goods with less energy"

Waste Sector Goal-

"Lexington should pursue a zero waste vision"

Public Input

- ▶ Posted draft plan online in November 2011
- ▶ Solicited public comments throughout November online & held two public meetings
- ▶ Revised plan based on comments
- ▶ Result is the current *Empower Lexington* Plan



STEP 4- IMPLEMENTING THE PLAN

- ▶ Council resolution supporting plan
- ▶ Responsibilities for implementation are recommendation specific
- ▶ Plan does not contain hard deadlines

STEP 5- MEASURING PROGRESS

- ▶ Once adopted, progress will be reviewed every 2 years
- ▶ Results will be shared with the public and the Urban County Council
- ▶ Will quantify our community-wide energy use & emissions every 5 years
- ▶ Plan will be revised as needed

- ▶ The *Empower Lexington* plan provides a path forward to becoming a more energy aware, energy efficient, and sustainable community
- ▶ The plan will have both environmental and economic benefits for our community
- ▶ To view entire plan including all recommendations go to www.lexingtonky.gov/energy

Questions?

Thank you for the opportunity to talk about
Empower Lexington

Committee Referrals

Environmental Quality Committee

Item	Referred By	Date	Status
Capacity Analysis	Blues		Part of RMP
Solid Waste Operations Effectiveness	Stinnett	4-13-11	Waste Management Task Force
Review LFUCG Property Use Policy: re Model Airplane Association Usage of Haley Pike Property	EQ Link	6-19-11	
Consolidate Greenway Responsibilities	EQ Link	6-19-11	September 20
UK Game Day Solid Waste Collection: Revenue Source	EQ Link	6-19-11	Waste Management Task Force
Bulky Item Collection: Revenue Source	EQ Link	6-19-11	Waste Management Task Force