

THE KENTUCKY 25x'25 ROADMAP

KENTUCKY'S INITIATIVE FOR RENEWABLE ENERGY AND ENERGY EFFICIENCY



AMERICA'S ENERGY FUTURE

25x'25: CHARTING KENTUCKY'S ENERGY FUTURE

- ✓ The national 25x'25 Action Plan is a renewable energy initiative backed by businesses, organizations and individuals united by a common interest in making America's energy future more secure, affordable and environmentally sustainable. Kentucky Governor Ernie Fletcher is among the 23 current and former U.S. governors to support the 25x'25 Action Plan.
- ✓ Through the 25x'25 Alliance, partners work together to advance renewable energy solutions from our nation's farms, ranches and other working lands.
- ✓ 25x'25 is a rallying cry for Kentucky to use renewable energy and energy efficiency as a means to get at least 25 percent of our energy from improved technology and renewable resources, such as solar, biomass and biofuels, by the year 2025.

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KENTUCKY'S ROADMAP TO SUSTAINABLE ENERGY SECURITY

Goal: Systematically and collectively develop the Kentucky 25x'25 Roadmap, which will strengthen Kentucky's economy, diversify Kentucky's energy resources and provide new economic opportunities for Kentucky's businesses, industries and communities.

- Targets:**
- * Reduce Kentucky's dependency on foreign oil by investing in environmentally clean and sustainable biofuels.
 - * Help Kentucky's businesses, communities and families reduce energy consumption and operating expenses through energy efficiency and renewable energy.
 - * Develop and support market-driven, practical solutions to increase the use of biomass to generate electricity.
 - * Enhance economic activity by creating opportunities for businesses to supply products and services that meet the 25x'25 goals.

- Benefits:**
- * Stimulate significant economic growth.
 - * Enhance rural development and profitability.
 - * Increase manufacturing capability.
 - * Efficient, effective and responsible use of natural resources.
 - * Better air quality.
 - * Lower greenhouse gas emissions.
 - * New industries that offer more good-paying jobs.
 - * More renewable fuel production within the state.
 - * Better built homes and buildings that cost less to operate.
 - * Retain a large share of energy payments in Kentucky.

25x'25 ACTION PLAN GOALS

Increase production of renewable energy.

Deliver renewable energy to markets.

Expand renewable energy markets.

Improve energy efficiency and productivity.

Strengthen conservation of natural resources and the environment.

Kentucky
UNBRIDLED SPIRIT™

KREC
Kentucky Rural Energy Consortium

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-SEE OTHER SIDE OF THIS DOCUMENT FOR MORE INFORMATION-



THE KENTUCKY 25x'25 ROADMAP

A POSITIVE IMPACT ON KENTUCKY'S ENERGY FUTURE

The Kentucky 25x'25 Roadmap identifies biopower, demand reduction, biofuels and bioindustries as the four main strategies that provide the best opportunities for Kentucky to secure sustainable, renewable and efficient energy resources. Below is a preliminary analysis of how the 25x'25 initiative could potentially benefit Kentucky in the year 2025. A complete analysis will be available in the near future.

Biopower in Kentucky

Use 18 million dry tons of biomass for electricity production, which could offset 31.5 million metric tons of CO₂.

Demand Reduction in Kentucky

New energy efficiency technologies, better building practices and on-site renewable energy systems, such as wind, solar and hydro, would potentially offset seven 500 megawatt power plants and 32 million metric tons of CO₂.

Biofuels in Kentucky

Transportation fuels made from grains, oil seeds, timber and future energy crops as well as improved fuel economy could replace over 1 billion gallons of petroleum fuel and provide a potential offset of 10.5 million tons of CO₂.

Bioindustries in Kentucky

New bioindustries and companies that specialize in energy efficiency technologies would potentially generate over \$1 billion annually in economic activity for Kentucky.

Potential Economic Impact for Kentucky = \$17.8 BILLION!
Increase Net Farm Income = \$1.9 BILLION!
Potential Additional Jobs Created = 162,000!

Source: University of Tennessee—25% Renewable Energy for the United States by 2025: Agriculture and Economic Impacts, 11/2006



*The goals of the 25x'25 Action Plan are consistent with the **Kentucky Rural Energy Consortium's** efforts to support, coordinate, promote and advance research, development and deployment of renewable energy and energy efficiency technologies, practices and outreach activities of importance to Kentucky agriculture, rural communities and related industries.*

FOR MORE INFORMATION, PLEASE CONTACT ...

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