



Kentucky Sustainable Energy Alliance



- Create local jobs and grow Kentucky's economy
- Save money for Kentucky's families, farms and businesses
- Improve Kentucky's health and environment
- Build on Kentucky's clean energy momentum

The Clean Energy Opportunity Act

1. Increase energy savings through utility **energy efficiency** programs, including low-income programs
2. Increase **renewable energy** provided through utilities
3. Provide guaranteed **contracts for local renewable energy**

Renewable and Efficiency Portfolio Standard (REPS)

Feed-In Tariffs

What is a Renewable & Efficiency Portfolio Standard (REPS)?

A requirement that utilities

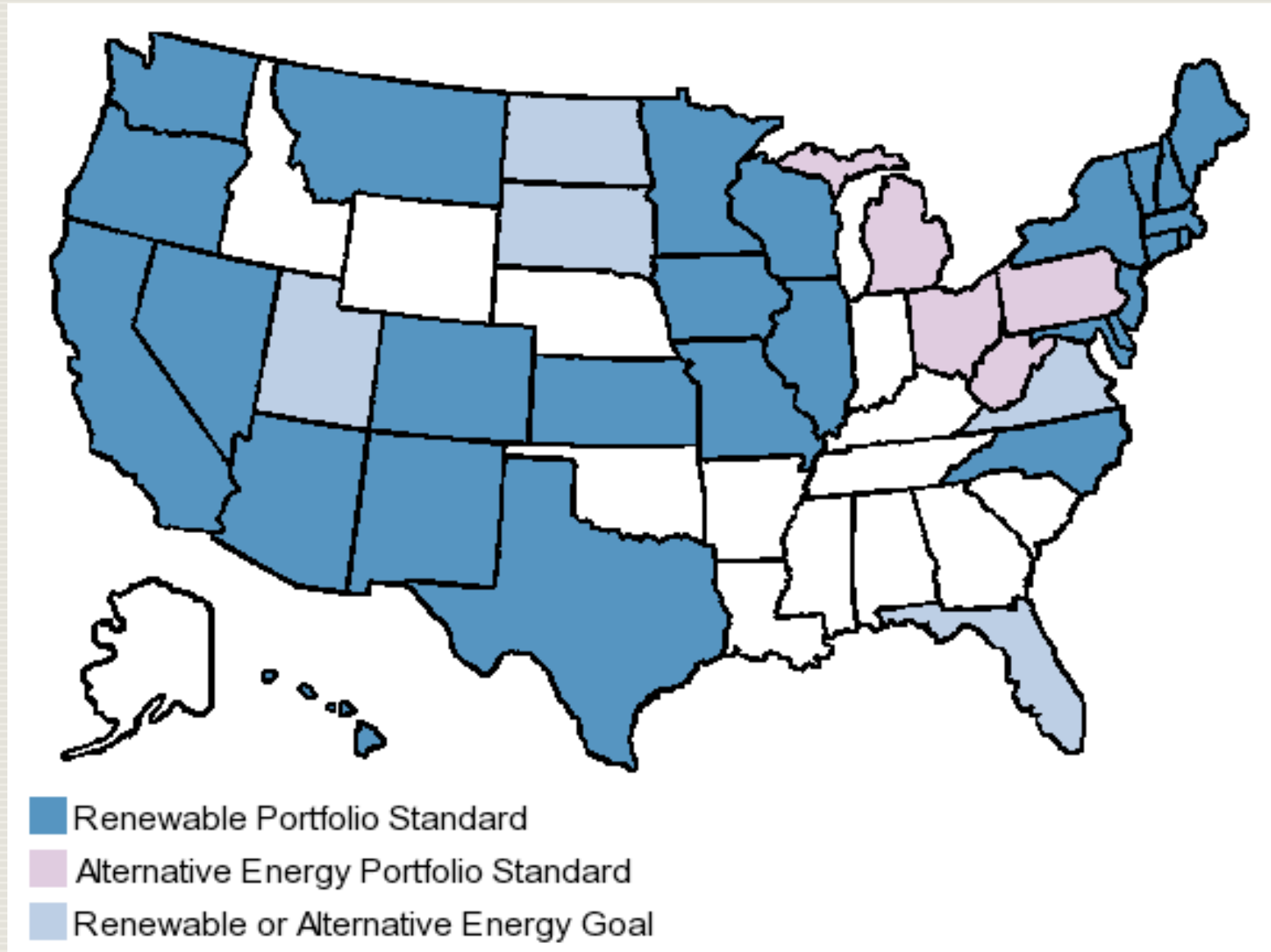
Generate a growing share of their electricity from renewable sources



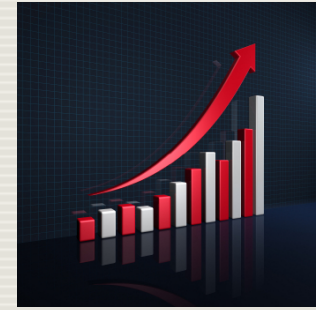
Achieve growing savings through energy efficiency programs



Who Has an REPS?



REPS: Building a Foundation for a Stronger Future



What Can an REPS Do?

1. Establish a guaranteed, growing and competitive market for renewable energy & energy efficiency
2. Help moderate cost growth over time through efficiency and diversity
3. Enable KY to access opportunities now and in the future

Impacts of an REPS

- Energy Development

- Primary driver of state renewable energy growth in U. S.
- 60 GW of new renewable energy capacity needed by 2025 to meet state REPS requirements=30,000 wind turbines (Lawrence Berkeley National Lab)

- Prices

- 70% of REPS studies have shown price increases of 1% or less; six studies projected cost savings (Lawrence Berkeley National Lab)
- A 25% REPS would result in lower electricity rates in the South than without an REPS in 20 years (Duke/Georgia Tech/SEEEA)

Elements of an REPS



Targets:
How Much?



Dates:
When?



Technologies:
What?

Clean Energy Opportunity Act: Targets & Dates



By 2021 (intermediate targets begin in 2013)	Currently
12.5% of electricity from renewables (1% of electricity from solar)	2-4% from renewables
10.25% of electricity saved through efficiency programs (portion through low- income programs)	0.02% efficiency savings/year

Technologies & Improvements

- Eligible Renewables
 - Solar (at least 1%)
 - Wind
 - Hydro
 - Low-impact biomass
 - Anaerobic digestion
 - Landfill gas
 - Geothermal
 - Combined heat-and-power using renewables
- Energy Efficiency
 - End-user improvements
 - ✦ Including requirement for low-income residential
 - Includes combined heat-and-power