

Proactive Partnerships and Opportunities for Kansas Businesses

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Sustainability Seminar: Greenhouse Gases; Carbon Taxes and Trading; and Carbon Sequestration

Kansas State University

January 6-8, 2010

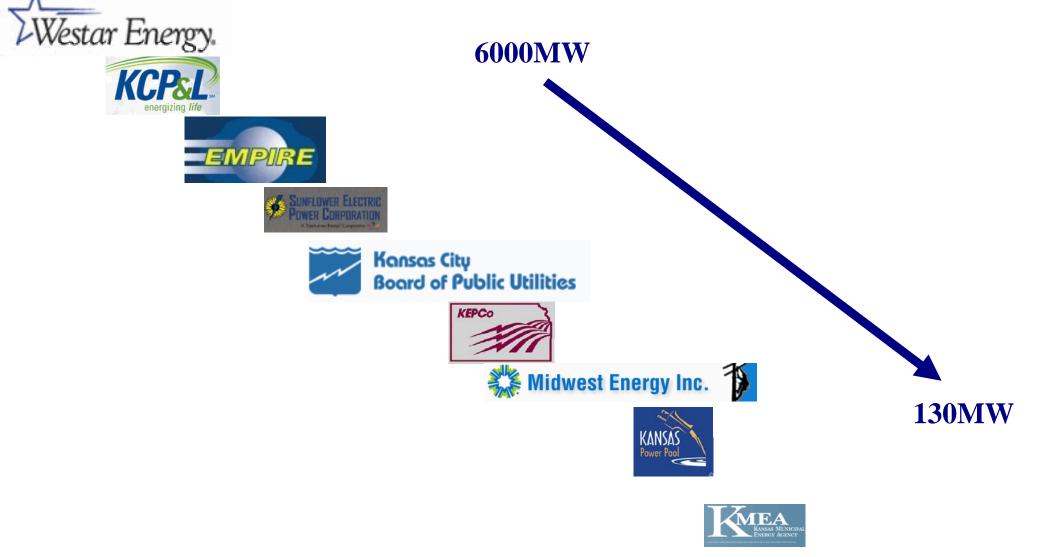




Key operational facts

- Pure-play electric
- Rate regulated
- ☞ ≈ 6,800 MW of fuel-diverse generation
- *☞* ≈ 700,000 customers
- Very low retail utility rates







1) Steam Electric

- 2) Combustion Turbines
- 3) Wind
- 4) Combined Cycle

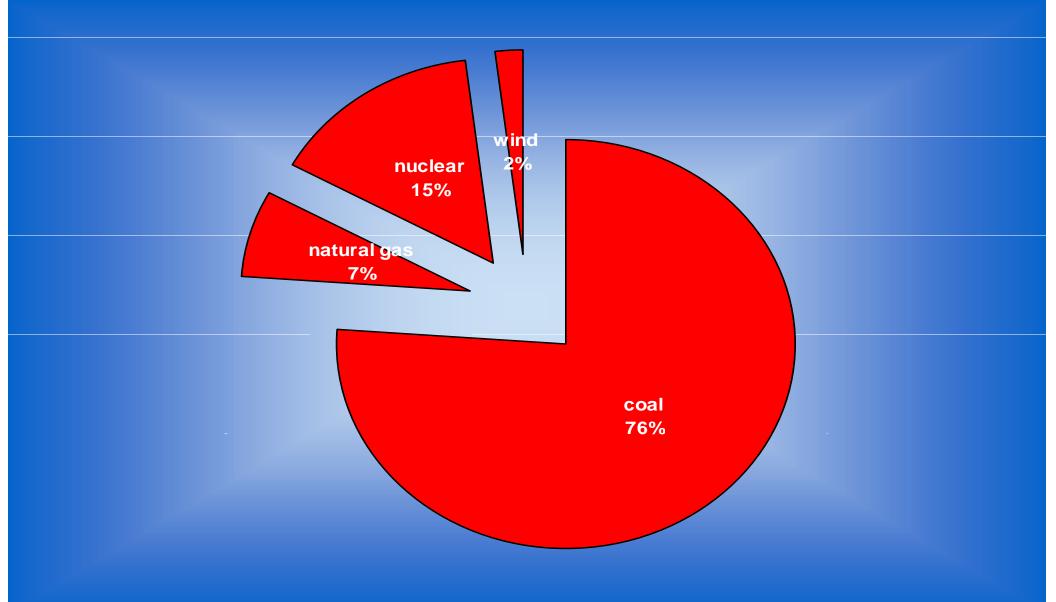








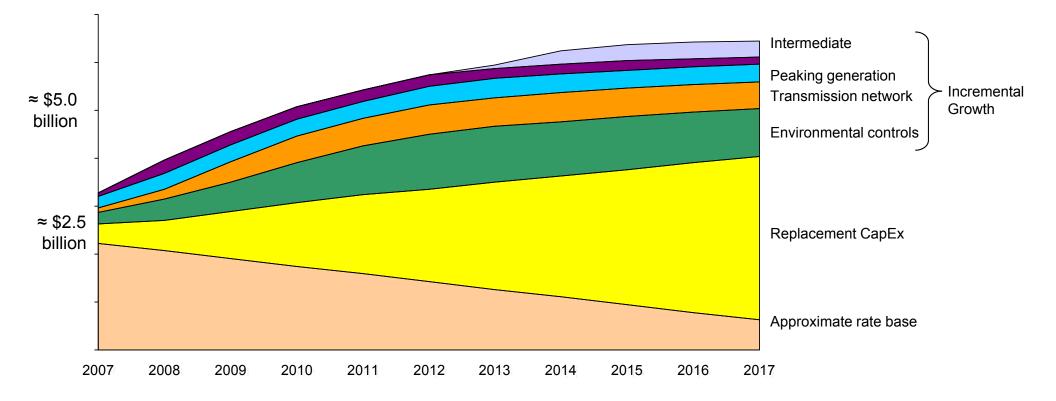




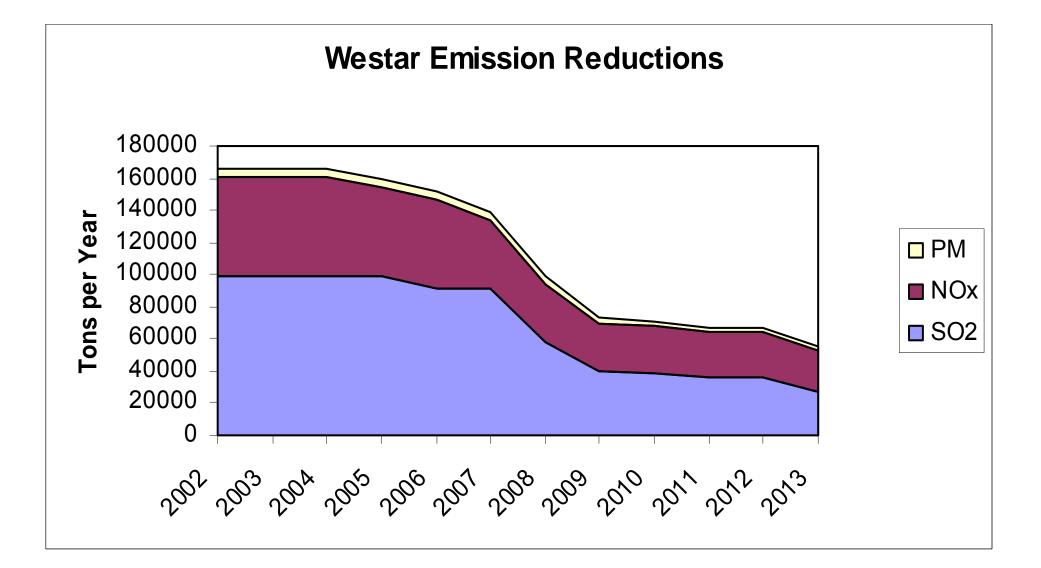


On leading edge of largest capital expansion plan in 30 years

- \sim Expect to more than double net plant investment in \approx 6 years
- Diversified, scalable approach









Greenhouse Gas Partnership



The Greenhouse Gas Challenge

While Addressing Our Customers' Energy Needs

A Strategic Plan For A Carbon Constrained World

Our Mission

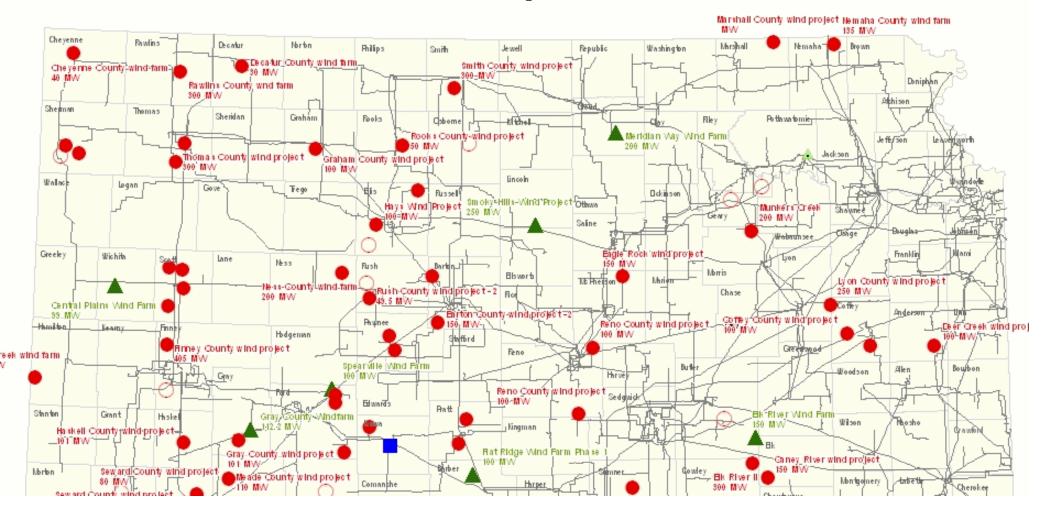
Westar Energy provides safe, reliable, high quality electric energy service at a reasonable price to all customers.





Proposed and Existing Wind Projects in Kansas

January 2010







Windpower







Windpower









Wolf Creek Up-rate





Energy Efficiency Business Unit

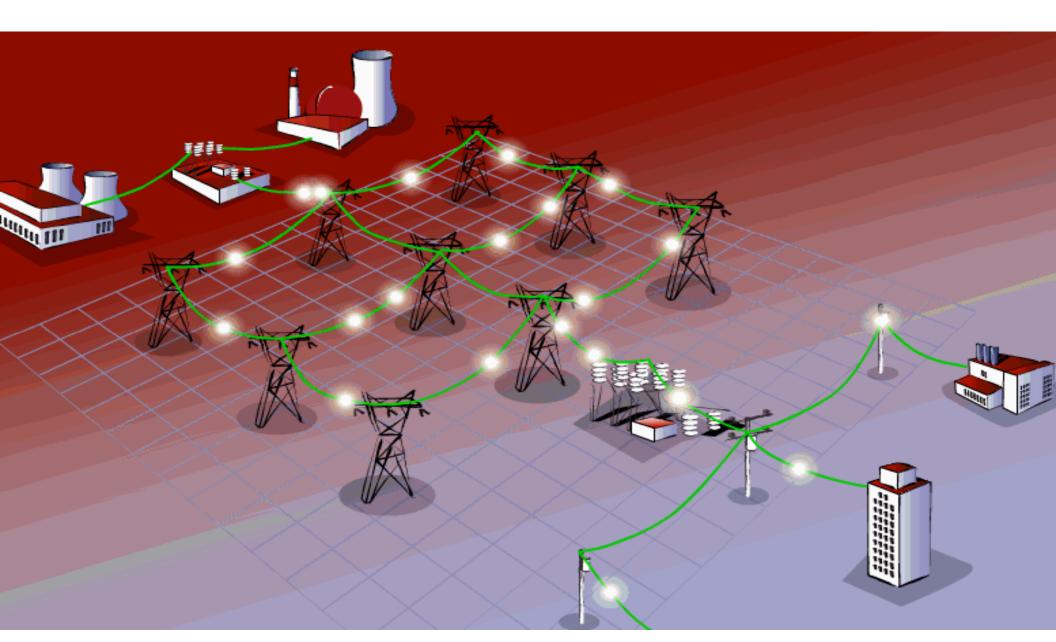


News

- KHRC launches Cash for Appliances, Learn more.
- WattSaver Programmable Thermostat Program
- Are you an aq producer or rural small business? You may qualify for renewable energy and energy efficiency funding
- Information on federal stimulus money for clean, efficient energy
- <u>Take Charge Challenge (Salina)</u>

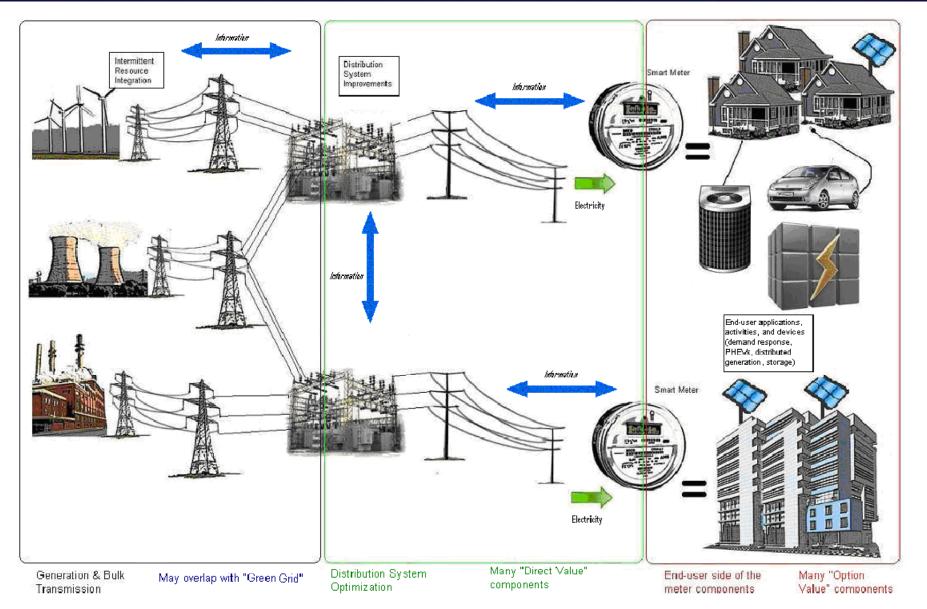


Smart Grid





Smart Grid



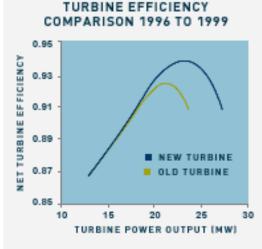


Energy Center Efficiency Projects





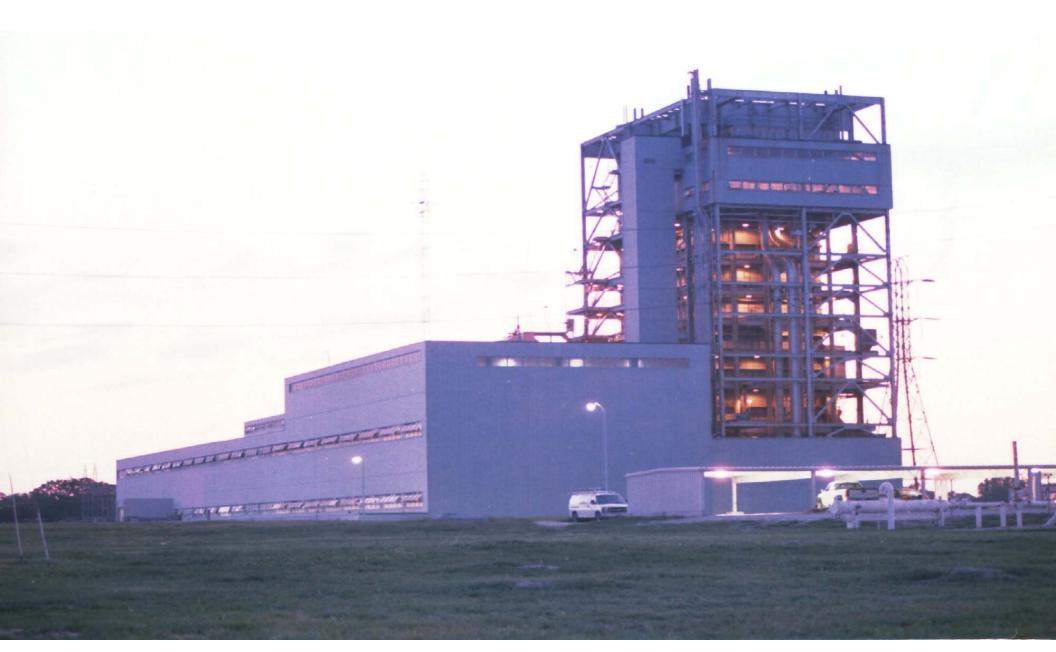




PEAK EFFICIENCY INCREASED FROM 92.7% TO 94.2%. PEAK OUTPUT INCREASED FROM 24MW TO 26.67MW



Unit retirement

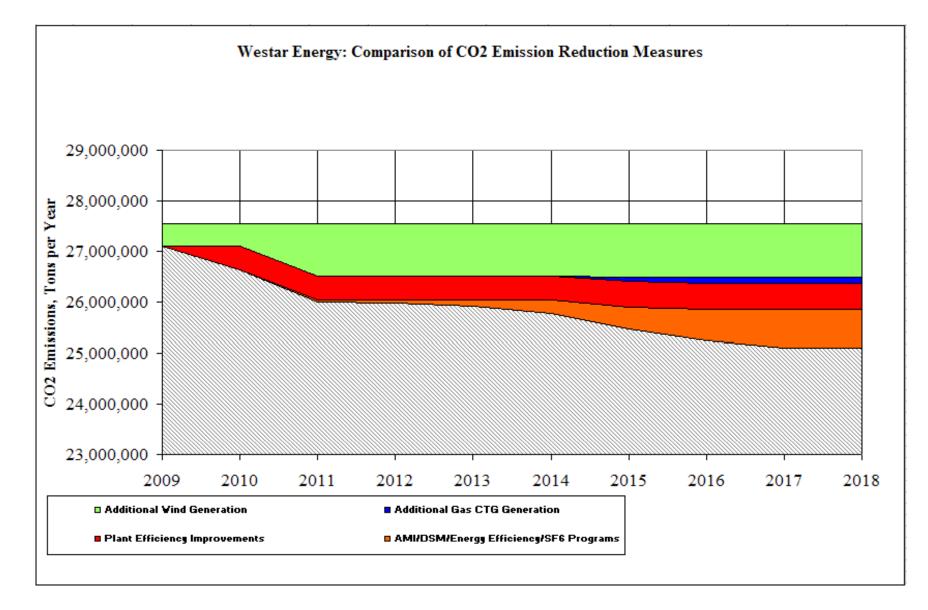




Discontinue fuel oil combustion

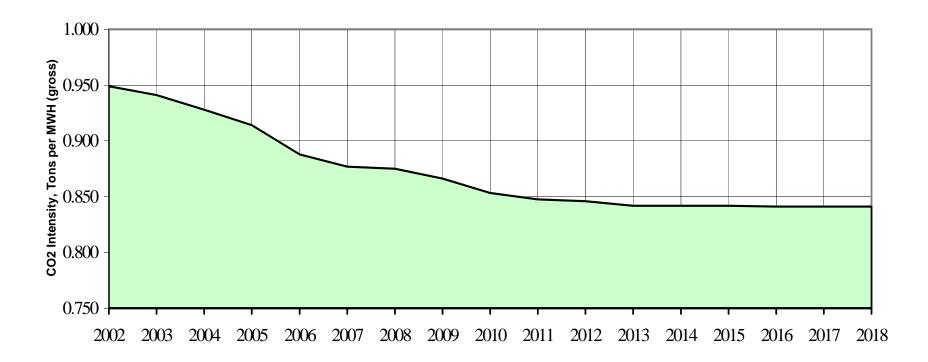








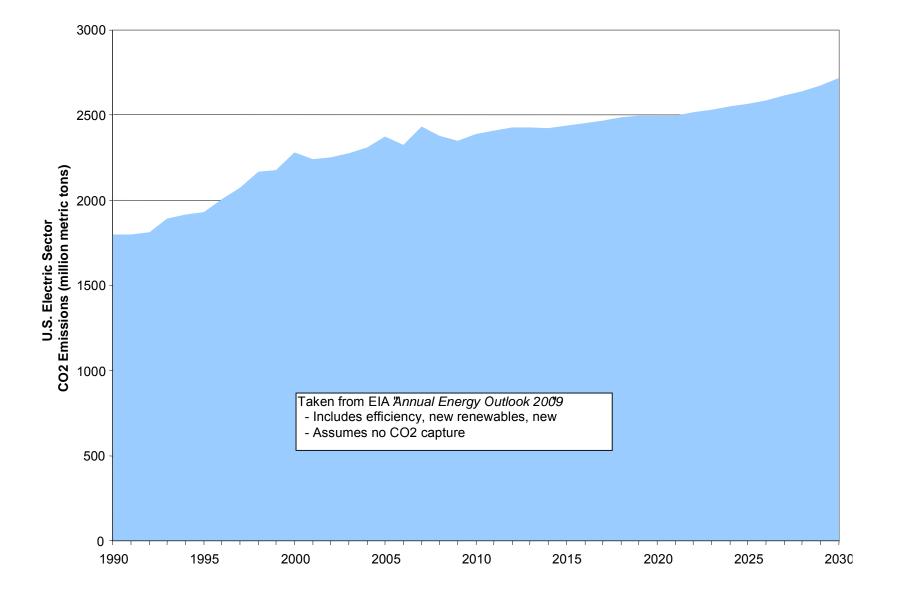
Westar Energy: CO2 Intensity Rates



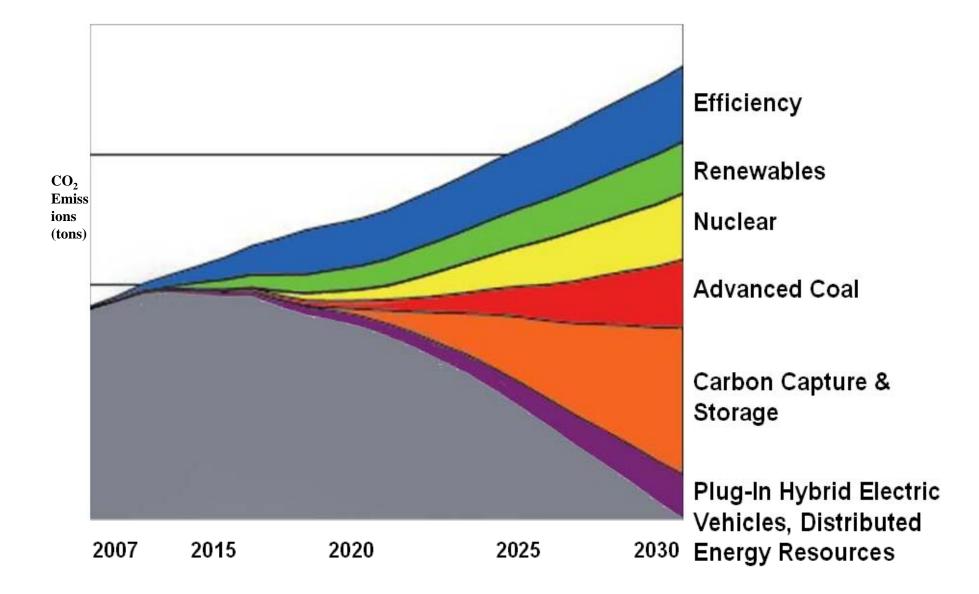
















Questions?

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