Current Markets for Illinois Coal

- More than thirty-three million tons of Illinois coal was mined in 2002, generating nearly $1 billion in gross revenues for Illinois producers.
- 46 percent of the electricity used in Illinois and 51 percent of the electricity used in the U.S. is generated from coal.
- More than 81 percent of Illinois coal production was purchased by the electric utility industry in 2002. Industrial, residential and commercial users account for the remaining 19 percent.
- Nearly 76 percent of Illinois coal is sold to out-of-state utilities.
- Illinois utilities used 6.5 million tons of Illinois coal in 2002.
- States in addition to Illinois that use large quantities of our coal include Florida, Indiana, Tennessee, Kentucky, Missouri and Alabama. Florida utilities burn nearly 6.4 million tons of Illinois coal each year.
- Illinois coal exports to international markets fluctuate each year due to currency exchange rates and customer demand. Annual exports of Illinois coal reached as high as 2.7 million tons in 1995, although almost no Illinois coal was exported in 2001 or 2002.

Clean-Coal Technologies

- The mandates contained in the Clean Air Act Amendments of 1990 tightened the restrictions on emissions of ozone (O\textsubscript{3}), nitrogen oxides (NO\textsubscript{x}), sulfur dioxide (SO\textsubscript{2}) carbon monoxide (CO), lead (Pb), and particulate matter (PM). The U.S. Department of Energy and Illinois Department of Commerce & Economic Opportunity’s Office of Coal Development provide grants for developing and demonstrating technologies that reduce pollutants from coal-burning power plants through coal combustion processes and recycling of coal combustion byproducts.
- Flue gas desulfurization, which reduces the emissions of SO\textsubscript{2} by 90 to 95 percent and can significantly reduce emissions of other hazardous air pollutants, was installed on Dallman Units 31 and 32 at City Water, Light and Power in Springfield in June 2001.
- Southern Illinois Power Cooperative has installed a new 120 MW fluidized bed combustor (FBC) at its Marion Station to replace three outdated, inefficient cyclone boilers. The FBC removes 74 percent of SO\textsubscript{2} and will use selective, non-catalytic reduction for NO\textsubscript{x} control.
- EnviRes, LLC of Lexington, Kentucky will soon begin construction of their development-scale HyMelt Gasification Process in East St. Louis. This coal-fired unit will produce high-purity oxygen and CO-rich syngas with minimal environmental emissions.
- Research by Dr. John Mead and Dr. Paul Chugh of Southern Illinois University produced lightweight structural materials for use in coal mines using fly ash, a coal combustion byproduct.
Fly-Lite, Inc. of McLeansboro produces the lightweight blocks and cribs for use as supplemental roof support in the coal mines.

**Illinois’ Commitment to the Coal Industry**

- Illinois sponsors the largest coal research and development program in the United States. In the last two decades, the Illinois Coal Research and Development Program has granted over $62 million in state, federal and private funds for basic and applied research on coal extraction, preparation and use.
- The Illinois Coal Demonstration Program is helping to demonstrate and deploy clean and efficient technologies for use with Illinois coal. Illinois' commitment of over $134 million towards Clean-Coal Technologies has supported 26 clean coal projects within the state.
- More than 3 million tons of Illinois coal production, worth $75 million, have been sustained annually as a result of this commitment to Clean-Coal Technologies.
- The Illinois Coal Infrastructure Program is helping Illinois coal producers remain competitive. More than $81.9 million in state dollars have produced $549.3 million in improvements to coal extraction, preparation and transportation facilities across the state.

**Additional Coal Facts**

- Coal was first discovered in Illinois more than 300 years ago.
- Mining began in Illinois almost 200 years ago.
- Coal underlies 37,000 square miles of Illinois -- about 65 percent of the state’s surface.
- Most of the coal is bituminous with high-energy values -- between 10,000 and 14,000 Btu/lb.
- Illinois' coal reserves contain more Btu's than the oil reserves of Saudi Arabia and Kuwait.
- Each day, every American uses about 20 pounds of coal in the form of inexpensive and increasingly clean, coal-based electricity.
- Recoverable coal reserves in Illinois (30 billion tons) account for almost one-eighth of the total U.S. coal reserves and one-quarter of the nation's bituminous coal reserves.
- Illinois coal is mined in 14 counties.
- In 2002, 21 Illinois mines employed 3,582 miners and generated roughly 20,000 spin-off jobs.
- The typical coal miner earns $45,450 per year.
- In 1981, Illinois recorded the first fatality-free year in mining history.
- 3,700 Illinois miners produced as much coal in 1999 as 15,000 miners produced in 1954 and 41,000 miners produced in 1927.

For additional information contact:

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Last updated November 2003