



WASTE MANAGEMENT: *Recycling and Reducing Waste*

At Ameren, we're committed to providing our customers with clean, reliable energy, while preserving, protecting and improving the environment. This fact sheet describes some of the company's efforts to work with our communities, industry and government to meet our commitment to delivering energy in an environmentally sensitive way.

ABOUT AMEREN

Ameren Corporation companies provide energy services to 2.4 million electric and nearly one million natural gas customers over a 64,000-square-mile area of Missouri and Illinois. Among the nation's top utility companies in size and sales, Ameren companies' net generating capacity is more than 16,400 megawatts. Based in St. Louis, Mo., Ameren Corporation is the parent company of AmerenCILCO, based in Peoria, Ill.; AmerenCIPS, based in Springfield, Ill.; AmerenIP, based in Decatur, Ill.; and AmerenUE, based in St. Louis, Mo. The company is also the parent of non-rate-regulated generating, energy marketing and fuels services companies.

ELIMINATING, REDUCING AND RECYCLING WASTE

Ameren companies have organized voluntary efforts, employed innovative approaches and encouraged employee programs to eliminate and reduce waste and to recycle.

- **Tires to Fuel.** In 1992, AmerenUE's **Sioux Power Plant** in St. Charles County, Mo., became the first generating station in the state to experiment with burning chipped rubber tires to augment coal as a fuel source. Since the program began, Sioux Plant has burned more than 19 million discarded tires.
- **Low-Level Radioactive Waste.** **Callaway Nuclear Plant** has significantly reduced the low-level radioactive waste that is produced as part of its daily operation. At Callaway, low-level waste items include disposable gloves and garments used to operate and maintain contaminated equipment; contaminated chemicals; process waste and resins from various water purification systems; and discarded components. Callaway Plant has earned some of the industry's highest marks for operating safely and efficiently.
- **Debris Removal.** AmerenUE sponsors Adopt-the-Shoreline — an award-winning volunteer program to remove trash and debris from the Lake of the Ozarks shoreline. In 2006, more than 900 Adopt-the-Shoreline volunteers removed almost 130 tons of trash and debris from approximately 500 miles of shoreline during the annual spring Shoreline Beautification Cleanup.
 - In addition, more than 90 Adopt-the-Shoreline groups regularly clean more than 50 percent of the lake's 1,150-mile shoreline.
 - Participating groups or individuals adopt at least five miles of shoreline and take part in the annual beautification cleanup each spring. Many participants also conduct fall cleanups.
 - AmerenUE provides trash bags and pays trash disposal costs each year. AmerenUE paid more than \$30,000 to dispose of debris from the 2006 spring cleanup alone.
- **Waste Water Treatment.** AmerenEnergy Generating's **Newton Plant** in Jasper County, Ill., was one of only four of 1,500 Illinois industrial facilities to be nominated for the Best Operated Wastewater Treatment Works Award from the Illinois Association of Water Pollution Control Operators. Newton's wastewater treatment plant processes potable water used for drinking and showering in addition to wastewater and restroom discharge. This amounts to more than 25,000 gallons of wastewater per day, 24 hours a day, seven days a week. The Illinois Environmental Protection Agency Division of Water Pollution Control, Field Operations Section, nominated Newton Plant for the award.

Recycle

R E C Y C L I N G A N D R E D U C I N G W A S T E

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- **Hazardous Waste.** Generating plants across the Ameren system have eliminated waste by moving to environmentally friendly solvents and establishing recycling programs. In addition, AmerenUE's plants recycle oils, shipping more than 92,000 gallons of used oil to recyclers in 2006.
 - Several plants have been leaders in successfully converting to fuel certain oils that contain hazardous materials, such as polychlorinated biphenyls (PCBs).
 - In the 1980s, AmerenCILCO, AmerenCIPS and AmerenUE began to remove and replace transformers containing PCBs. Much of the PCB-contaminated oil was converted to energy at AmerenUE's **Labadie Plant**, where, under an Environmental Protection Agency permit, this oil was burned as fuel.
 - This program has been completed; however, Labadie Plant has continued to burn non-PCB mineral oil drained from electrical equipment — nearly 48,000 gallons in 2006 alone. A three million gallon tank at Labadie holds this oil in reserve as peaking and start-up fuel.
 - **Recycling Ash.** The generating plants of Ameren's operating companies and subsidiaries recycle fly ash and bottom ash — the byproducts of burning coal — reducing the overall cost of generating electricity, saving valuable landfill space and preserving the natural landscape.
 - In 2006, AmerenUE's Labadie Power Plant opened the AmerenUE/Charah, Inc. Concrete Packaging Facility, a concrete packaging facility that will recycle more than 10,000 tons of fly ash and 60,000 tons of bottom ash annually into about two million bags of high-quality concrete mix. The fly ash is used as a partial replacement for Portland cement in the concrete manufacturing process. Because approximately one ton of carbon dioxide (CO₂) is emitted for every ton of Portland cement used to manufacture concrete, the facility represents a 10,000-ton reduction in annual CO₂ emissions.
 - Bottom ash is also used for snow and ice control, blasting grit and roofing shingles.
 - Using fly ash instead of cement in concrete production also means that concrete manufacturers are not forced to mine as much clay. Since 1995, more than two million tons of fly ash have been used as a direct replacement for cement, creating a two-million ton offset of CO₂ emissions.
 - Each ton of fly ash used to replace a ton of cement saves the equivalent of nearly one barrel of imported oil, according to the Fly Ash Resource Center.
 - Fly ash from company plants was used to construct approaches to the Meramec River Bridge on Route 231 in the St. Louis area and on Ten Brook Road in Arnold, Mo. In addition, the Illinois Department of Transportation recently approved the use of fly ash on a 2.1-mile road in Morgan County.
 - **Recycling Parts, Scrap.** The company annually recycles millions of pounds of scrap wire and steel, scrap street lights and lead-acid filled batteries. Ameren also recycles scrap pallets, paper, scrap cardboard, and returns large wooden cable reels to the original manufacturer for reuse and recycling. Retired utility poles are collected and sold to the public or donated to community organizations. Other hardware — insulators, lightning arresters, switches, clamps, brackets, connectors, wire, pole steps, bolts, nuts and washers — are all reused.