



Recycling and Reusing **COAL ASH**

RECYCLING • USES • STATISTICS • REGULATIONS • SOLUTIONS

1015 W. Highway 24, Moberly, MO, USA • +1 (660) 263-7474 • www.vulcandryingsystems.com • sales@vulcandryingsystems.com



RECYCLING AND REUSING COAL ASH

Every year, coal-fired power plants in the United States produced 140 million tons of coal ash - enough to fill one million railroad cars. This coal ash is generated across the U.S. and is the second largest industrial waste stream in the country. This coal ash is stored in slurry ponds and landfills, creating a potential to leach out into the surrounding environment.

COAL ASH'S USES

Coal ash can be recycled and beneficially reused. Applications in which coal ash can be reused include:

- Structural fill and fill for abandoned mines
- Top layer on unpaved roads
- Agricultural soil additives
- Ingredients in concrete, wallboard and school running tracks

Coal ash has also been used as a mineral admixture in Portland cement and blended cement. Incorporating coal ash improves these material's durability, lowers costs and imbues the concrete with more strength.

COAL ASH STATISTICS

- Second largest industrial waste stream in the United States
- Coal ash is disposed over in over 600 slurry ponds, 300 landfills, 100 offsite landfills and 750 inactive dumps, in addition to hundreds of abandoned mines
- 36% of coal ash generated by utilities is disposed of in dry landfills
- Wet storage accounts for 21% of coal ash disposal
- Only 40% of coal ash is beneficially reused and recycled

REGULATIONS

On December 19, 2014, the U.S. Environmental Protection Agency (EPA) announced the first-ever federal regulation for the disposal of coal ash, classifying it as an equivalent to everyday trash. Under the EPA's rule, new and existing coal ash slurry ponds and landfills now face a variety of requirements, including routine groundwater monitoring and protective liners.

VULCAN DRYING SYSTEMS SOLUTION

Vulcan Drying Systems supplies equipment for thermal desorption. Our team can build a dryer to best fit your specific project needs. Our services include setup, commissioning, training, and maintenance support over the lifetime of a project.

For more information on Vulcan Drying Systems email us at sales@vulcandryingystems.com or call us at +1 (660) 263-7474.

