



# Recycling and Reusing **FLY ASH**

BENEFITS • DISPOSAL • RECYCLING • USES • SOLUTIONS

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# BENEFITS OF RECYCLING FLY ASH

Fly ash (commonly referred to as “flue ash”), is a green material originating from coal. More than 50% of electricity in the United States comes from coal-fired power plants. Because these power plants are widely used, fly ash is one of the most abundant industrial by-products on Earth.

## DISPOSAL OF FLY ASH

Fly ash disposal presents challenges due to the staggering amount produced by coal-fired power plants and the presence of heavy metals in the material. The most commonly used method to dispose of fly ash is through a specially built landfill, structured to prevent these heavy metals from leaching into drinking water. While fly ash does not emit methane, transporting fly ash to landfills results in carbon dioxide emissions, due to the combustion of fossil fuels in the vehicles. Storing fly ash can also be hazardous if an embankment collapses and the fly ash spills.

## RECYCLING FLY ASH

When properly managed, fly ash can be appropriately reused, reducing the environmental footprint produced by the product. Over 22 million tons of fly ash are recycled each year and used in a variety of engineering applications. The United States Environment Protection Agency (EPA) has determined that coal ash from power plants is safe for use in cement production. Production of cement is an energy-intensive process, contributing to 5-8% of greenhouse gas emissions in the world. However, concrete made with fly ash reduces carbon emissions by as much as 90%, while developing a more durable infrastructure. Recent developments promise even greater cost savings and environmental benefits.

# USES FOR RECYCLED FLY ASH

- Cement production
- Stabilized base course
- Flowable fill and controlled low strength material (CLSM)
- Structural fills and embankments
- Soil stabilization and drying
- Mineral filler in hot mix asphalt (HMA)

## VULCAN DRYING SYSTEMS SOLUTION

Vulcan Drying Systems supplies equipment to dry, sort, and move fly ash. 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@vulcandryingsystems.com](mailto:sales@vulcandryingsystems.com) or call us at +1 (660) 263-7474.

