



Drying **LIGNITE FOR FUEL**

USES • BENEFITS • DRYING • SOLUTIONS

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



LIGNITE FOR FUEL

Lignite is an affordable fuel for power generation. However, due to its high moisture content, lignite must be dried prior to use. Drying lignite prior to combustion is an effective way to increase the thermal efficiency of lignite-fired power plants.

BENEFITS FROM PRE-DRYING LIGNITE

Several benefits of pre-drying lignite include:

- Reduced carbon dioxide emissions
- Increase a plant's thermal efficiency
- Pre-dried lignite can form up to 30% of fuel

DRYING LIGNITE

Also referred to as “brown coal”, lignite is younger geologically than higher-grade coal and is more accessible due to veins that are relatively close to the surface. Electricity generated from lignite is abundant, low-cost, and reliable.

Lignite is dried prior to combustion to improve efficiency and eliminate disadvantages from using a coal-based product with a high moisture content. The lignite is dried at high temperatures and the energy from the evaporated moisture is used during the power plant process.

VULCAN DRYING SYSTEMS SOLUTION

Vulcan Drying Systems supplies equipment to process, dry, and convey lignite. Our systems are specifically designed for the drying of lignite, focusing on making the material easier to transport and handle.

Vulcan Drying Systems consist of a drum, burner, and a combustion chamber. After passing through the dryer, dried lignite is discharged onto a transfer conveyor for further sorting and separation. The vapor removed during the process is pulled to a cyclone specifically designed to work with dust. The vapors are then moved on to a high-temperature baghouse, which removes all fine particulates from the vapor stream.

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

