



# COAL ASH

As the population grows, so does the demand for more electrical power capacity. This increase in demand has spurred the need for the new generating stations and innovative methods for improving efficiency at existing power plants. Geosynthetic materials provide solutions to various concerns associated with coal power generations such as groundwater protection, process water containment and ash impoundment.

Today's coal-fired power plants require optimal performance from containment lining systems. We manufacture the highest quality, most durable, longest lasting geosynthetics for use in Coal Combustions Product (CCP), cooling water and evaporation ponds.

With millions of square feet of geosynthetic products supplied and installed at coal power plants across the U.S.; We have the right geosynthetic products to meet your project requirements.

CONDUCTIVE LEAK LOCATION GEOMEMBRANES



## A SPARK-TESTABLE GEOMEMBRANE

Impoundments at coal power plants are typically exposed to the elements and are in constant use. If a post-installation leak test is required or deemed beneficial, consider our spark-testable Conductive Leak Location liner system. A large impoundment installation can be tested for pinholes and other construction related damage to insure 100% containment without the added expense of the flooding the floor or the inability to test slopes and all the uncertainties present with other post-installation testing methods. Our conductive leak location liner can be regularly tested year after year to insure continued containment.



Many impoundments require a leak detection system to ensure the integrity of the primary liner system on a continuous basis. This system consists of a secondary HDPE geomembrane below the primary liner which is overlaid with either a geonet or a geocomposite net. If the leak detection system is placed directly below the primary liner, a geonet is used. If an intermediate soil layer or primary clay layer is used, then a geocomposite liner is utilized.

## CASE HISTORIES

The liner system at the Springerville Power Plant in Northeast Arizona and operated by Tri-State Generation and Transmission Association. The Bechtel Group designed the 1,500 MW plant, as well as the evaporation ponds comprised of over 2.5 million SF of geosynthetics. The installation was completed ahead of schedule and under budget.

The Power Generating Station located in the Mojave Desert consists of two 790 MW generating units that supply power to 1.5 million homes. The power plant is fueled by a low-sulfur coal. The plant operates under a zero discharge permit. The total project size was over 1.8 million SF of geosynthetic materials.

To insure complete containment of all contaminants which enter the pond, Solmax's Leak Location White liner was selected for the quickest and most cost-effective leak detection inspection method available. The project was completed on schedule with a quick installation and economical leak detection of the installed geomembrane.



Cooling Water Pond Storage



## SOLMAX.COM

Solmax is not a design professional and has not performed any design services to determine if Solmax's goods comply with any project plans or specifications, or with the application or use of Solmax's goods to any particular system, project, purpose, installation or specification.