The Challenge
The plant operates two pulverized coal units with a net out of 650 MW. The primary fuel is eastern bituminous coal from Western Kentucky and Southern Illinois. The addition of low NOx burners and over fired air ports in 2006 has resulted in greater slag deposition and corrosive degradation of the boiler waterwall tubes.

The Solution
Furnace Mineral Products completed the coating application of GreenShield on approximately 20,000 square feet of waterwall and superheat pendant tubes.

The Result
The application of GreenShield was completed in 90 hours and the coating demonstrated great success against slag adhesion and corrosive attack. In addition the GreenShield coating provided the boiler operator with a visual inspection tool to quickly determine where aggressive abrasion and corrosive attack was pronounced in the boiler.

After 2 Years in Service...