

Clean Coal Combustion

Asia Coal Catalyst Company



**CoalTrans China
2009 Conference
Clean Coal Combustion**

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**CC-88: HELPING TO
GREEN THE WORLD**

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ASIA COAL CATALYST COMPANY, a leading manufacturer of Clean Coal Combustion Technology Is lecturing at CoalTrans 2009 Beijing. CC-88 is the most advanced new clean-coal technology improving combustion efficiency and eliminating harmful carbon waste emissions.

Peter V. Smith, President, Asia Coal Catalyst Company will lecture CoalTrans China on Catalysts for improved combustion and environment. Clean Coal Combustion can be easily and affordably achieved with our patent pending CCT.

Asia Coal Catalyst Company offers our Patent Pending Coal Catalyst CC-88. CC-88 is added to coal to improve coal combustion, improve energy efficiency and reduce costs operating costs.

ASIA COAL CATALYST COMPANY (ACCC) provides combustion catalysts and additives for use with coal, heavy oils and diesel fuels. These products offer an inexpensive and easy-to-use way to effect more rapid and complete combustion of fossil fuels. Improved combustion efficiencies result in less pollution, improved efficiency (more heat per unit of fuel) and lower equipment maintenance costs.

Our product, CC-88, is a dry powder that can either be injected into the boiler to provide a catalyst “bed” in the combustion chamber, or it can be fed continuously along with the fuel.

In the United States it has been widely used in industrial boilers for central heating systems.

How does Coal Catalyst work? Coal Catalyst CC-88 accelerates the oxidation-reaction of carbon to produce more heat per unit time. Coal Catalyst CC-88 Oxidizes carbon at temperatures lower than normal ignition temperatures, this speeds combustion and thereby reduces carbon and slag deposits in the colder regions of the boiler.

As a Slag Modifier, CC-88 alters slag deposits to a more friable, softer easy to remove deposit that provides greater heat-transfer and reduces cleaning costs. The catalyst will also act as an Emission Control Agent that separates sulfur substantially reducing the quantity of sulfur dioxide, an “acid rain” contributor, in the flue gases. Fly Ash reductions also occur when greater amounts of carbon are com-



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busted reducing the loading to the particulate collection devices. Improving coal combustion efficiencies through a simple and cost effective means such as our Coal Catalyst CC-88 will help conserve valuable fuel resources.

Coal Catalyst also cleans the system of Slagging and Carbon Waste making equipment operate more efficiently with less maintenance costs. Use of Coal Catalyst CC-88 will allow longer and better operation of the older and less efficient boilers equipment. Coal Catalyst CC-88 helps China's many thousands of inefficient older small and medium sized boilers to run more efficiently and to reduce their pollution.

ACCC products are very strategic. Our Coal Catalyst pays for itself through improvements to the combustion efficiency. The product meets a critical need in a very cost effective way. Coal Catalyst helps to enable the many hundreds of thousands of Asia's small – medium (.5Mwe - 100 Mwe) boilers, the least efficient stoker fired coal burning boilers to burn their precious fuel mush more thoroughly, utilizing more of the available carbon fuel contained in the coal and reducing carbon waste which is currently emitted as harmful carbon filled smoke stack emissions.

Asia has a large system of coal fired boilers under 100 MWe in size that are currently operating at fairly low combustion efficiencies and have slagging and fouling problems. Both of these problems cause excess amounts of pollution to be emitted into the atmosphere and consume greater quantities of coal than is necessary. With the use of our CC-88 Coal Catalyst, more efficient boilers can be obtained and lower levels of pollution can be achieved.