

COEN MACT Compliance Combustion Solutions

As the leader in combustion technology, COEN will help develop combustion based solutions for your facility's MACT compliance requirements.

On February 6th, 2004, the Environmental Protection Agency (EPA) issued a final Maximum Achievable Control Technology (MACT) rule to reduce emissions such as Particulate Matter (PM), Hydrogen Chloride (HCl), Selected Metals (As, Cd, Cr, Pb, Mn, Ni), Mercury (Hg), and Carbon Monoxide (CO) from boilers and process heaters using solid fuels such as coal or wood.

Rather than using expensive emissions control devices such as fabric filters, scrubbers, and catalysts, COEN can provide a low-cost compliance option with our co-firing combustion solutions.

COEN has extensive experience with our line of proven Co-FYR packages that will enable you to dial in your compliance levels with small quantities of gaseous and/or liquid fuels. Affordable custom solutions are available for both pulverized and grate-fired units.

BENEFITS:

- **LOW CAPITAL COST**
- **SIMPLE INSTALLATION**
- **RAPID TURNAROUND**
- **MACT COMPLIANT EMISSIONS**
- **LOWER OPACITY**
- **IMPROVED EFFICIENCY**
- **IMPROVED CARBON BURNOUT**
- **IMPROVED OPERATING FLEXIBILITY:**
 - **LOAD PEAKING CAPABILITY**
 - **RAPID LOAD SWING RESPONSE**
 - **SMOKELESS LIGHT-OFF**
 - **FASTER WARM UP**
 - **HIGHER TURNDOWN**
 - **HOT STANDBY CAPABILITY**

Safe, Efficient, Reliable MACT Solutions

To satisfy new MACT compliance standards for solid fuel boilers, COEN can furnish compact gas and oil burners for installation on grate boilers, or provide simple fuel addition modifications to existing pulverized-coal burners. COEN's combustion



system engineers offer a wealth of experience and knowledge for every retrofit project. COEN's project management team coordinates all phases of your project including engineering, design, manufacture, startup and combustion optimization.

CO-FYR FUELS:

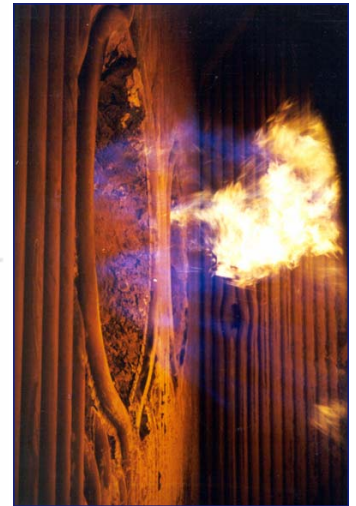
- NATURAL GAS
- LANDFILL GAS
- DIGESTER GAS
- REFINERY GAS
- BLAST FURNACE GAS
- COKE OVEN GAS
- DISTILLATE OILS
- BIO-OILS
- ALCOHOLS

COEN's Co-FYR burners will bring new life to your aging boilers, while ensuring the flexibility to meet EPA emission requirements. Our burners utilize small amounts of clean burning gas or liquid fuels to enhance solid fuel combustion and improve your operation. The economic benefits of co-firing with a COEN burner are realized through reduced capital and maintenance costs, and from increased efficiency.



For users with coal burners, an even more cost effective solution could be a COEN engineered burner modification. We can add gas and liquid firing capabilities to the existing burners, and even modify the coal burners themselves for improved emission performance.

COEN can also upgrade or provide new burner management systems, controls and flame scanners that meet current NFPA standards and increase reliability.



FOR MORE INFORMATION VISIT

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Clean combustion. Powerful results.