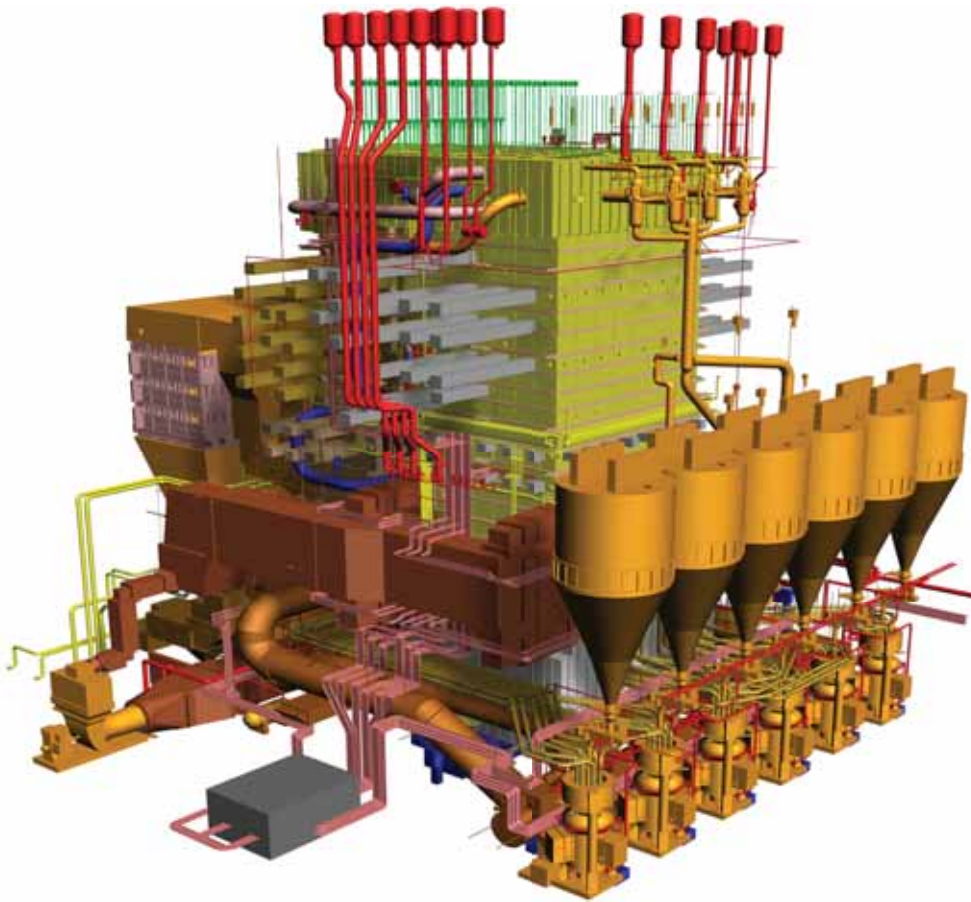


# Advancing Utility PC Technology The Longview Power Project



## GOING SUPERCRITICAL

We have coupled our proven wall-fired pulverized coal (PC) steam generators with advanced BENSON vertical-tube (BVT) supercritical steam technology. Supercritical steam technology can achieve plant efficiencies well beyond conventional subcritical drum-type units thereby producing more electricity and less emissions for each megawatt of electricity produced. By coupling these technologies together, we offer a steam generator design balanced with both proven and advanced design features, such as:

- Simple vertical tube furnace construction which is easier to fabricate, build and repair
- Built-in water wall self cooling characteristic for maximum furnace life
- MBF and ball mill pulverizers for the widest fuel range
- Staged low NOx combustion systems
- SCR for the lowest NOx emissions

## LONGVIEW PROJECT SUMMARY

Plant Electrical Output (Gross/Net)	<b>770/695 MWe</b>	Furnace	
Net Plant Efficiency (LHV/HHV)	<b>41.5/39.8%</b>	Width	<b>22.9 m 75 ft.</b>
Net Plant Heat Rate (LHV/HHV)	<b>8681 kJ/kWh 8580 Btu/kWh</b>	Depth	<b>15.9 m 52 ft.</b>
Steam Flow (SH/RH)	<b>616/507 kg/s 4876/4012 kpph</b>	Height	<b>59.5 m 195 ft.</b>
Steam Pressure (SH/RH)	<b>257/53 bar 3720/773 psig</b>	Fuel	<b>West Virginia</b>
Steam Temperature (SH/RH)	<b>569/567 °C 1056/1052 °F</b>		
Feedwater Temperature	<b>298 °C 569 °F</b>		<b>Bituminous Coal</b>

Plant Location: Maidsville, WV, USA  
 Customer: Longview Power, LCC  
 FW Full Release: December 2007  
 Plant Start-Up: Spring 2011



We offer a full range of steam generator equipment, aftermarket products, and services to the power, industrial, and waste-to-energy sectors. Our global manufacturing and engineering network can deliver cutting edge products and expertise, quickly and cost competitively with best in-class quality. Established in 1891, our experience comes from over a century of designing, servicing, and continually improving steam generating equipment.

#### Utility Steam Generators

- Circulating Fluid Bed
- Pulverized Coal
- Oil & Gas
- Supercritical Steam
- Solar Power

#### Industrial Steam Generators

- Package
- Grate & MSW
- Metallurgical Waste Heat
- Heat Recovery Steam Generators

#### Auxiliary Equipment

- Feedwater Heaters
- Condensers
- Biomass Gasifiers

#### Steam Generator Services

- SCR and SNCR Systems
- Low NOx Combustion Systems
- Replacement/Upgraded Parts
- Construction Services
- Modernizations

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