

Łagisza Power Plant

Utility CFBs—A new generation of technology



Project summary

Location: Będzin, Poland
 Customer: PKE
 Duration: 2005-2008
 Scope: Design and supply of CFB boiler

The Łagisza project in Poland is an important step in advancing utility power generation. At the heart of the plant is the world's most advanced Circulating Fluid Bed (CFB) steam generator, representing a culmination of over 30 years of technology development by Sumitomo SHI FW.

It is the first CFB power plant in the world to incorporate highly-efficient, vertical-tube, supercritical steam technology and is large enough to produce electricity at the very economical utility scale.

This CFB also features many other advanced design features like, compact solid separators, INTREX™ super heaters, and low-temperature flue gas heat recovery, further improving reliability, operational flexibility and overall power generation efficiency and economics.

Plant Electrical Output (Gross/Net)	460/439 MWe	
Net Plant Efficiency (LHV/HHV)	43.3/41.6%	
Net Plant Heat Rate (LHV/HHV)	8320 kJ/kWh	8208 Btu/kWh
Steam Flow (SH/RH)	1299/1109 tph	2856/2436 kpph
Steam Pressure (SH/RH)	282/51 barg	4090/734 psig
Steam Temperature (SH/RH)	563/582 °C	1046/1080 °F
Feedwater Temperature	290 °C	554 °F
Fuel	Polish bituminous coal, coal slurry	

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We are the premier global supplier of innovative circulating fluidized bed (CFB) technologies, providing sustainable value to our customers through our relentless drive for environmentally sound and reliable power solutions while we grow.