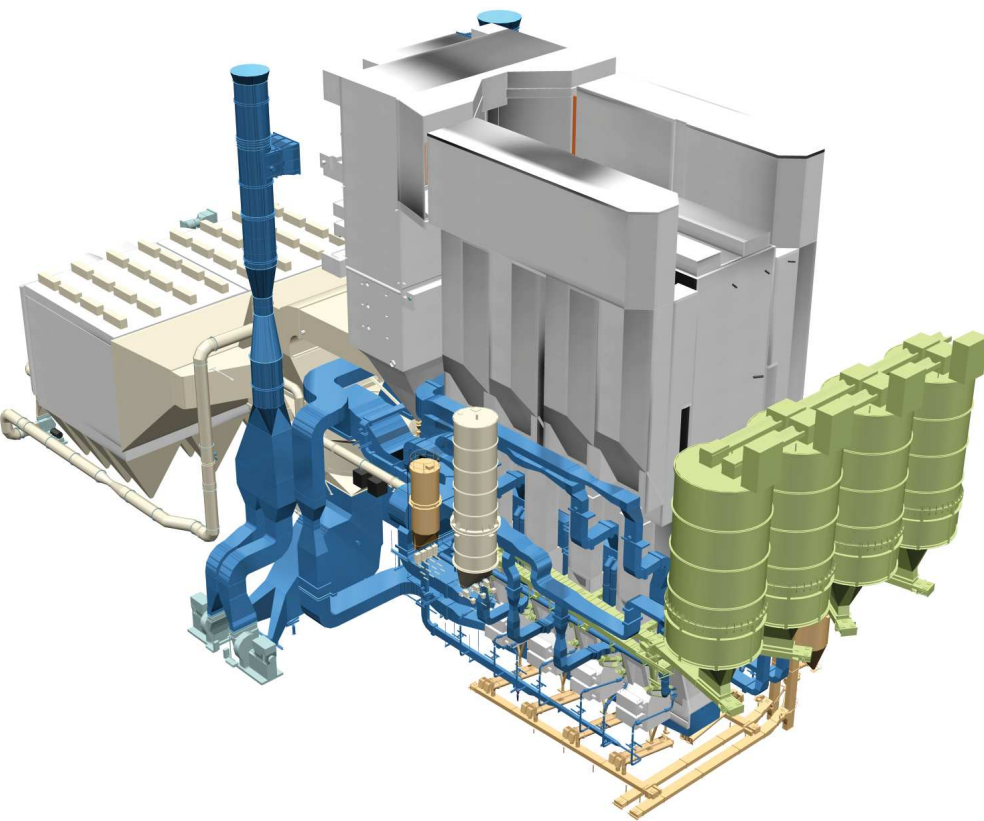


# Utility CFBs

## A New Generation of Technology



### THE WORLD'S MOST ADVANCED CFB POWER PLANT

The Lagisza 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 Foster Wheeler.

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 flu-gas heat recovery, further improving reliability, operational flexibility and overall power generation efficiency and economics.

### ŁAGISZA PROJECT SUMMARY

Plant Location: ..... Będzin, Poland  
 Customer: ..... PKE  
 FW Full Release: ... December 2005  
 Plant Start-Up: ..... 2008

Plant Electrical Output (Gross/Net)	<b>460/439 MWe</b>	Furnace	
Net Plant Efficiency (LHV/HHV)	<b>43.3/41.6%</b>	Width	<b>27.6 m 90.5 ft.</b>
Net Plant Heat Rate (LHV/HHV)	<b>8320 kJ/kWh 8208 Btu/kWh</b>	Depth	<b>10.6 m 34.8 ft.</b>
Steam Flow (SH/RH)	<b>361/308 kg/s 2856/2436 kpph</b>	Height	<b>48.0 m 157.0 ft.</b>
Steam Pressure (SH/RH)	<b>282/51 bar 4090/734 psig</b>	Fuel	<b>• Polish Bituminous Coal</b>
Steam Temperature (SH/RH)	<b>563/582 °C 1046/1080 °F</b>		<b>• Coal Slurry</b>
Feedwater Temperature	<b>290 °C 554 °F</b>		



**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.

#### Steam Generators

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

## CONTACT US

### GLOBALLY

[www.fwc.com](http://www.fwc.com)

### CHINA

Units 12 to 26, 6<sup>th</sup> Floor - Tower A  
Beijing COFCO Plaza  
No. 8 Jianguomennei Street  
Beijing, 100005 China  
T +86 (0) 10 6526 3480/81

8<sup>th</sup> & 5<sup>th</sup> Floor, UC Tower  
500 Fushan Road  
Pudong New Area  
Shanghai 200122 China  
T +86 (0) 21 5058 2266

### FINLAND

Metsänneidonkuja 8  
FI-02130 Espoo, Finland  
T +358 (0) 10 393 11

Relanderinkatu 2  
FI-78201 Varkaus, Finland  
T +358 (0) 10 393 11

### GERMANY

Burggrafenstrasse 5A  
40545 Düsseldorf, Germany  
T +49 (0) 211 5502 4700

### POLAND

Aleja Jana Pawla II 15  
00-828 Warsaw, Poland  
T +48 (0) 22 697 6870

ul. Staszica 31  
41-200 Sosnowiec, Poland  
T +48 (0) 32 368 1300

### SPAIN

Calle Gabriel Garcia Márquez, 2  
28230 Las Rozas  
Madrid, Spain  
T +34 (0) 91 336 2400

### SWEDEN

Lindövägen 75  
602 28 Norrköping, Sweden  
T +46 (0) 11 285 330

### THAILAND

9<sup>th</sup> Floor, Maneeya Building  
518/5 Ploenchit Road  
Lumpini, Pathumwan  
Bangkok 10330, Thailand  
T +66 (0) 2 652 0760

### USA

Perryville Corporate Park  
Clinton, New Jersey 08809 USA  
T +1 (1) 908 730 4000

9780 Mt. Pyramid Court, Suite 260  
Englewood, Colorado 80112-7060 USA  
T +1 (1) 303 784 4880