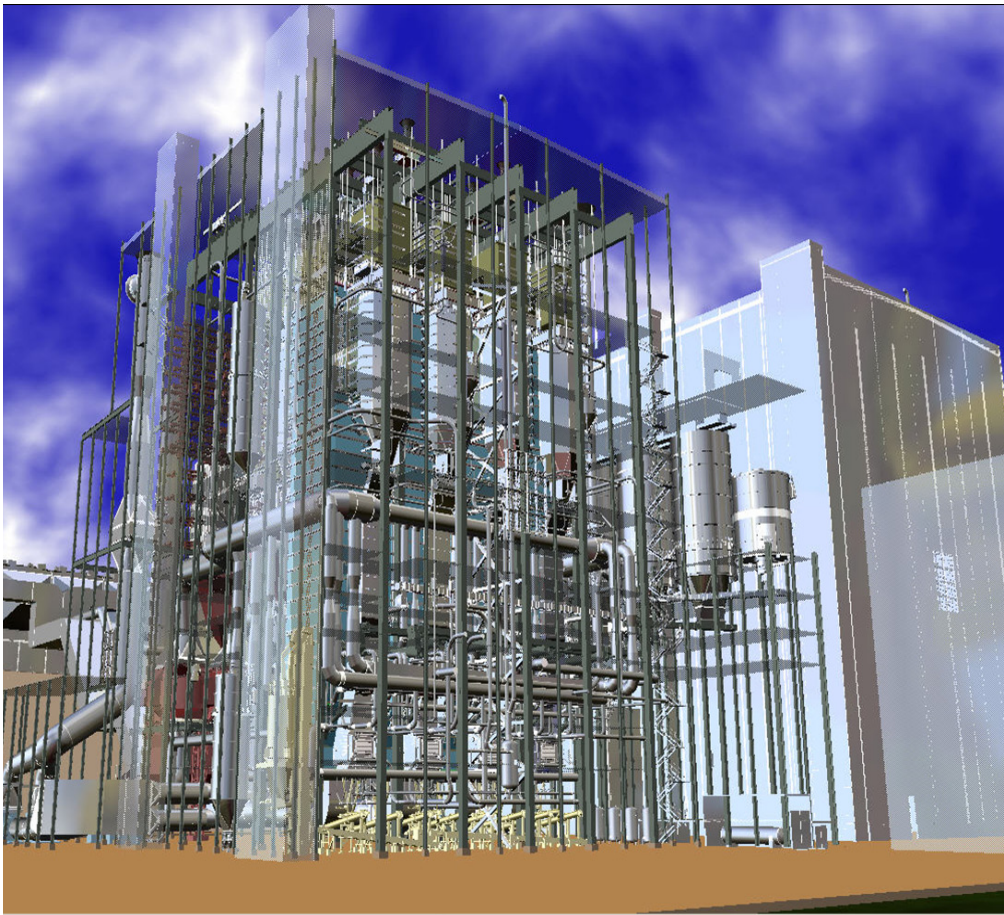


Samcheok Green Power Project

A New Era in Clean Coal Technology



A BOLD NEW POWER PLANT CONCEPT BECOMES REALITY

Korean Southern Power Company (KOSPO) has selected FW's most advanced supercritical CFB's to power its green power project in Samcheok, Korea. This impressive greenfield power facility will ultimately have eight 550 MWe FW ultra supercritical CFBs at its center surrounded with renewable energy technologies like wind, solar and hydro power for a total final capacity of 5000 MWe.

FLEXIBLE CLEAN COAL POWER TECHNOLOGY

After over a year of careful study and evaluation, KOSPO selected FW's advanced CFBs over conventional pulverized coal (PC) technology due to the many benefits of CFB technology and the proven track record of FW's CFBs.

- The CFB's wide fuel range gives KOSPO the widest fuel procurement flexibility and the ability to save millions of dollars over the plant's life
- The CFB's didn't require back-end flue gas desulphurization equipment for SOx control saving KOSPO hundreds of millions of dollars to build this plant
- The unique low temperature CFB combustion process coupled with ultra supercritical steam technology provided KOSPO with high plant efficiency and low emissions including carbon emissions
- FW's utility CFB's have a proven track record backed by over 370 CFB's in operation worldwide

SAMCHEOK PROJECT SUMMARY

Plant Location: Samcheok, South Korea
 Customer: Korea Southern Power Company
 Full NTP: July, 2011
 Plant Start-Up: June, 2015

Plant Electrical Output (Gross/Net)	4 x 550 / 4 x 520 MWe	Furnace	
Est. Net Plant Efficiency (LHV/HHV)	42.4%/38.8%	Width	39.5 m 130 ft.
Unit Steam Flow (SH/RH)	437/356 kg/s 3461/2820 kpph	Depth	10.7 m 35 ft.
Steam Pressure (SH/RH)	257/53 bar g 3728/783 psig	Height	52.0 m 171 ft.
Steam Temperature (SH/RH)	603/603 °C 1117/1117 °F		
Feedwater Temperature	297 °C 567 °F	Fuel	International Coal Biomass



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 NO_x Combustion Systems
- Replacement/Upgraded Parts
- Construction Services
- Modernizations

CONTACT US

GLOBALLY

www.fwc.com

CHINA

Unit 1 on 6/F
Raffles City Beijing Office Tower
No. 1 Dongzhimen South Street
Dongcheng District
Beijing, 100007 China
T +86 (0) 10 8409 8855

8th & 5th Floor, UC Tower
500 Fushan Road
Pudong New Area
Shanghai, China 200122
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

Hessenstrasse 57
47809 Krefeld, Germany
T +49 (0) 2151 363 3710

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

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

USA

53 Frontage Road
PO Box 9000
Hampton, New Jersey. 08827 USA
T +1 (1) 908 730 4000

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