

# Samcheok Green Power Project

A giant leap for sustainable and affordable power



## Project summary

Location:	Samcheok, S. Korea
Plant Owner:	KOSPO
Commercial Operation:	2016-2017
Scope:	Design and supply of four CFB boilers

After over a year of careful study and evaluation, KOSPO selected our advanced CFBs to power its green power project in Samcheok, Korea.

- ▶ The CFB's wide fuel range gives KOSPO the widest fuel procurement flexibility and the ability to save millions of dollars in fuel cost over the plant's life
- ▶ The CFBs didn't require back-end flue gas desulfurization 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

<b>Plant Electrical Output (Gross/Net)</b>	4 x 550 / 4 x 514 MWe
<b>Plant LHV Efficiency (Gross/Net)</b>	45.9%/42.9%
<b>Plant LHV Heat Rate (Gross/Net)</b>	7843/8391 KJ/kWh
<b>Steam Flow (SH/RH)</b>	1570/1275 tph
<b>Steam Pressure (SH/RH)</b>	257/54 barg
<b>Steam Temperature (SH/RH)</b>	603/603°C
<b>CFB Boiler LHV Efficiency (ASME 4.0)</b>	93.5%
<b>Fuel</b>	Imported coals and biomass

Plant power output, efficiency and heat rate are estimates by SFW.