

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

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

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

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Our vision is to provide sustainable energy solutions through decarbonization, decentralization and digitalization of the energy industry. Our capabilities cover customer needs in the fields of power generation utilizing circulating fluidized bed (CFB) technologies, long term energy storage, and related network services. We continuously broaden our portfolio of products and services by advancing our in-house technologies and developing further alliances with new partners.

Our Values

Respect for people.

Valuing and inviting differing views and ideas

Committed to customers.

Exceeding expectations and providing value

Safety, integrity and teamwork.

Incorporating ethics in everything we do

Ownership of results.

Personally ensuring that success is achieved

Passion to innovate and grow.

Setting challenging goals for growth



Sumitomo
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