

# Dangjin Bio-1

Converting biomass, coal into clean power



**Project summary**  
 Location: Dangjin, South Korea  
 Customer: GS Engineering and Construction  
 Duration: 2013-2015  
 Scope: Design and supply of CFB boiler

The Dangjin Bio-1 Power Plant produces 105 MWe of power from palm kernel shells, wood pellets, recycled wood and sub-bituminous coal. Our CFB technology provides an ideal solution for cleanly converting biomass and low quality coal into valuable steam and power.

- ▶ The first biofuel-fired utility CFB boiler in South Korea
- ▶ Biomass delivers a significant reduction in CO2 emissions

<b>Plant Electrical Output (Net)</b>	105 MWe	
<b>Steam Flow</b>	391 tph	860 kpph
<b>Steam Pressure</b>	129 barg	1871 psig
<b>Steam Temperature</b>	540°C	1004°F
<b>Fuel</b>	Palm kernel shells, wood pellets, recycled wood, sub-bituminous coal	

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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**  
SHI **FW**