

Polaniec Power Station

World's largest 100% biomass CFB boiler



Project summary

Location: Polaniec, Poland
 Customer: GDF Suez Energia Polska
 Duration: 2010-2012
 Scope: EPC of boiler island and biomass fuel yard

GDF Suez, one of the leading energy producers in the world, built a state-of-the-art biomass power plant supplying over 200 MWe of renewable power to Poland's power grid since 2012. The plant features Sumitomo SHI FW's state of the art advanced Bio-CFB boiler utilizing cutting edge design features and materials to efficiently and cleanly produce large scale power from a broad spectrum of wood biomass and difficult-to-burn agricultural crops and byproducts.

- ▶ The 100% biomass fired 205 MWe circulating fluidized bed (CFB) boiler has been running reliably since November 2012.
- ▶ Our team helped the plant reach commercial operation six weeks ahead of schedule.

Plant Electrical Output (Gross/Net)	205/195 MWe	
Net Plant Efficiency (LHV/HHV)	36.5/31.4%	
Steam Flow (SH/RH)	569/486 tph	1251/1071 kpph
Steam Pressure (SH/RH)	126/19 barg	1828/276 psig
Steam Temperature (SH/RH)	535/535 °C	995/995 °F
Feedwater Temperature	242 °C	468 °F
Fuel	Wood residues, agro biomass	

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We are the premier global supplier of innovative circulating fluidized bed (CFB) technologies, providing sustainable value to our customers through our relentless drive for environmentally sound and reliable power solutions while we grow.