

# Polaniec Power Station

World's largest operating biomass CFB plant



## Project summary

Location:	Polaniec, Poland
Customer:	GDF Suez Energia Polska
Commercial Operation:	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 225 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.

<b>Plant Electrical Output (Gross/Net)</b>	225/205 MWe
<b>Plant LHV Efficiency (Gross/Net)</b>	42.6/39.0%
<b>Plant LHV Heat Rate (Gross/Net)</b>	8450/9230 kJ/KWh
<b>Steam Flow (SH/RH)</b>	569/486 tph
<b>Steam Pressure (SH/RH)</b>	126/19 barg
<b>Steam Temperature (SH/RH)</b>	535/535 °C
<b>CFB Boiler LHV Efficiency (DIN)</b>	91%
<b>Fuel</b>	Wood residues, agro 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**  
SHI **FW**