

460 MWe Łagisza CFB power plant in Poland

Longest running supercritical CFB plant



Project summary

Location: Będzin, Poland
 Plant Owner: Tauron Polska Energia
 Commercial Operation: 2009
 Scope: EPC of CFB boiler Island

The Łagisza project in Poland is an important step in advancing utility power generation. At the heart of the plant is the world's first advanced Circulating Fluid Bed (CFB) steam generator, representing a culmination of over 30 years of technology development by Sumitomo SHI FW.

It is the first CFB power plant in the world to incorporate highly-efficient, vertical-tube, supercritical steam technology and is large enough to produce electricity at the very economical utility scale.

This CFB has many other advanced design features like, compact solid separators, INTREX™ super heaters, and low-temperature flue gas heat recovery, further improving reliability, operational flexibility and overall power generation efficiency and economics.

Plant Electrical Output (Gross/Net)	460/439 MWe
Plant LHV Efficiency (Gross/Net)	45.7/43.6%
Plant LHV Heat Rate (Gross/Net)	7881/8259 kJ/KWh
Steam Flow (SH/RH)	1298/1107 tph
Steam Pressure (SH/RH)	282/51 barg
Steam Temperature (SH/RH)	560/580 °C
CFB Boiler LHV Efficiency (DIN)	94.8%
Fuel	Polish bituminous coal, coal slurry

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**