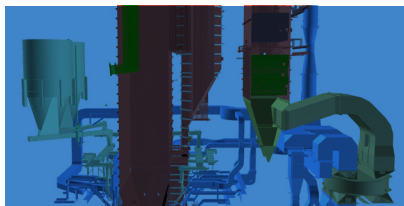
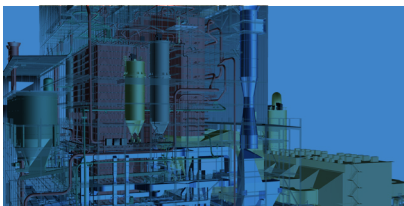


# Novochoerkasskaya Power

Supercritical utility CFBs—A new generation of efficient technology



### Project summary

Location: Novochoerkassk, Russia  
 Customer: PJSC Energo Mashinostroitelny Alliance (EM Alliance)  
 Duration: 2008-2016  
 Scope: Design and supply of CFB boiler

### CFB technology enters Russia

The Sixth Wholesale Power Market Generating Company (WGC-6) has taken the bold step of being the first to order a Circulating Fluidized Bed (CFB) power plant in Russia. The plant will be built at WGC-6's Novochoerkasskaya GRES generating facility located in Novochoerkassk, within the Rostov region of Russia.

### State-of-the-art power technology

The Novochoerkasskaya plant utilizes the world's most advanced CFB steam generator technology, representing a culmination of over 30 years of CFB technology development by Sumitomo SHI FW.

Plant Electrical Output (Gross/Net)	330/312 MWe	
Net Plant Efficiency (LHV/HHV)	41.5/39.9%	
Net Plant Heat Rate (LHV/HHV)	8681 kJ/kWh	8553 Btu/kWh
Steam Flow (SH/RH)	1001/817 tph	2202/1798 kpph
Steam Pressure (SH/RH)	247/37 barg	3582/536 psig
Steam Temperature (SH/RH)	565/565 °C	1049/1049 °F
Feedwater Temperature	280 °C	536 °F
Fuel	Anthracite coal, 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**