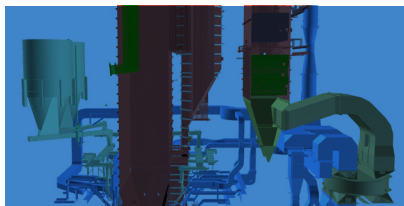
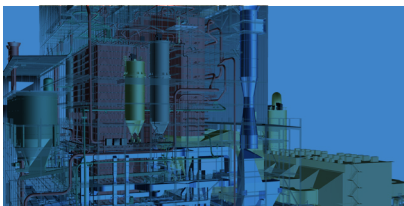


Novochoerkasskaya Power

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	

Metsänneidonkuja 10
FI-02130 Espoo, Finland
T +358 (0) 10 393 11

Relanderinkatu 2
FI-78201 Varkaus, Finland
T +358 (0) 10 393 11

ul. Staszica 31
41-200 Sosnowiec, Poland
T +48 (0) 32 368 1300

ul. Młynarska 42
01-171 Warsaw, Poland
T +48 (0) 22 535 50 65

Lindövägen 75
602 28 Norrköping, Sweden
T +46 (0) 11 285 330

Petersstrasse 120
47798 Krefeld, Germany
T +49 151 108 51366

53 Frontage Rd, PO Box 9000
Hampton, NJ 08827 USA
T +1 908 713 2700

Unit 01~07, 5th Floor,
Shanghai Kaisa Financial Centre
1188 Minsheng Rd, Pudong New Area
Shanghai 200135, China
T +86 (0) 21 5820 0123

C-3A-45, IOI Boulevard, Jalan Kenari 5,
Bandar Puchong Jaya, 47100 Puchong,
Selangor, Malaysia
T +603 8075 0887

20th Floor Bhiraj Tower
at EmQuartier, 689 Sukhumvit Rd
Klongton Nuea, Wattana
Bangkok 10110 Thailand
T +66 (0) 2 0417140 3

Suite 706-708, 7th Floor, Central Bldg
31 Hai Ba Trung St
Hanoi, Vietnam
T +84 (0) 4 39393809

7th floor, 621, Yeong-dong-daero,
Gangnam-gu, Seoul, Korea 06087
T +82 2 3446 8325

Room 901A, 9th Floor
Vicente Madrigal Bldg, Ayala Ave
Makati City 6793, Philippines

WISMA GKBI #1606, Jl. Jend. Sudirman No.28,
Jakarta 10210 Indonesia
T +62 (21) 5795 1095

ThinkPark Tower, 1-1 Osaki 2-chome
Shinagawa-ku, Tokyo 141-6025, Japan
T +81 (0) 3 6737 2000

www.shi-fw.com

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**