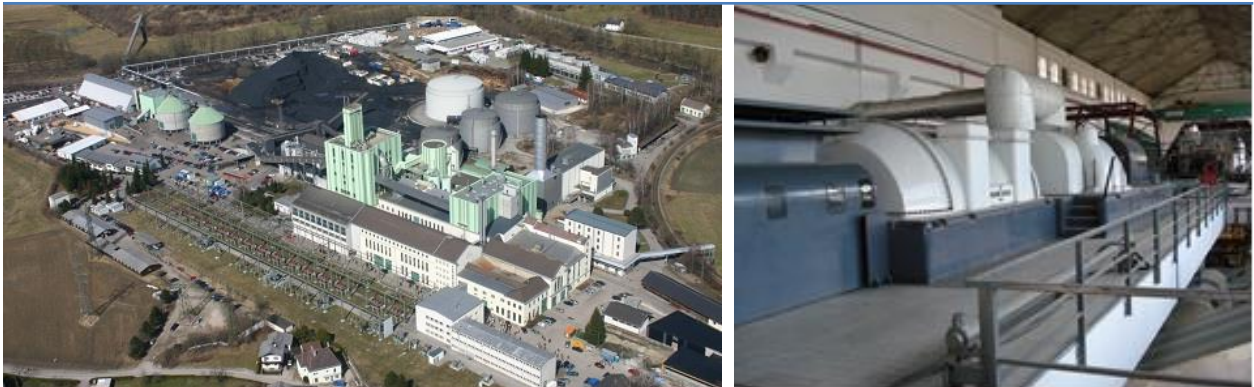


## 70 MW Anthracite Coal Power Plant



### Plant at a glance

#### History

The power plant with 1 power generation line of 60 MW<sub>el</sub> (50 Hz) was commissioned in 1967 in Western Europe and shut down in 2008, after approx 230,000 operating hours. The plant design was for base load with local lignite fuel. In 1985 the steam turbine was equipped with a 0 - 100 % extraction for 114 °C / 80 °C district heating for up to 20 MW<sub>th</sub>. In 1997 the power plant was modified and refurbished to use Anthracite (hard coal), the power output increased from 60 to approx 70 MW<sub>el</sub>. At the same time, some new components have been installed (e.g., coal mills).

#### Technology

##### Boiler Boiler and Auxiliaries (refurbished in 1997)

Live steam parameters	240 t/h, 90 bar, 530° C
Fuel Hard Coal:	
Lower Heating value	25,500 to 31,500 kJ/kg
Average Water content	6 to 10 %
Sulphur content	0.4 %
Ash	5 to 14 %
Hardgrove	45 to 60
Ignition	Natural gas and HFO burners
Slag removal	Wet type
Air preheating	2 x LJUNGSTROEM type

##### Steam Turbine Generator

Casing	1 x HP, 1 x LP double flow
Vacuum at 50 MW (20 °C Water)	0.047 bara
Generator parameters	10.5 kV, 50 Hz, 75 MVA (H <sub>2</sub> cooling)

##### Electrostatic Precipitator (1985)

##### Desulphurisation (1993)

##### Process Control System (1993 – 1997)

Further details and purchase terms and conditions are available upon request.

#### Disclaimer

Although the statements and technical information contained herein are believed to be materially accurate as of the date hereof, no representation or warranty is given as to the accuracy of any of the information provided.

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