

Reference Data Sheet

Customer: Vattenfall Europe Generation AG

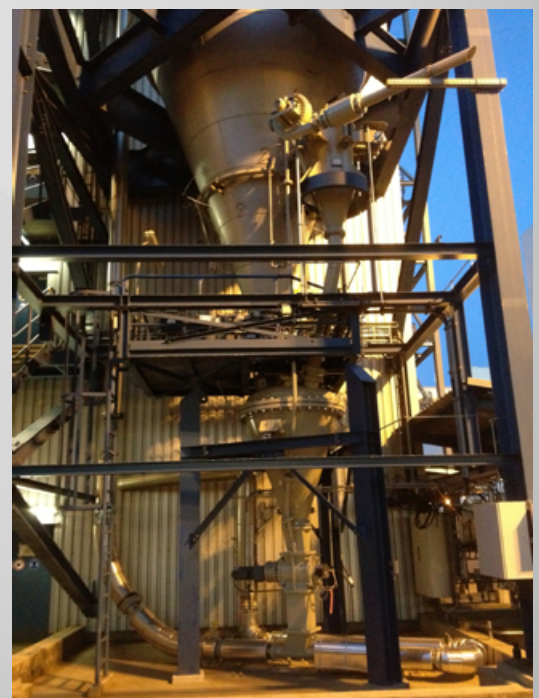
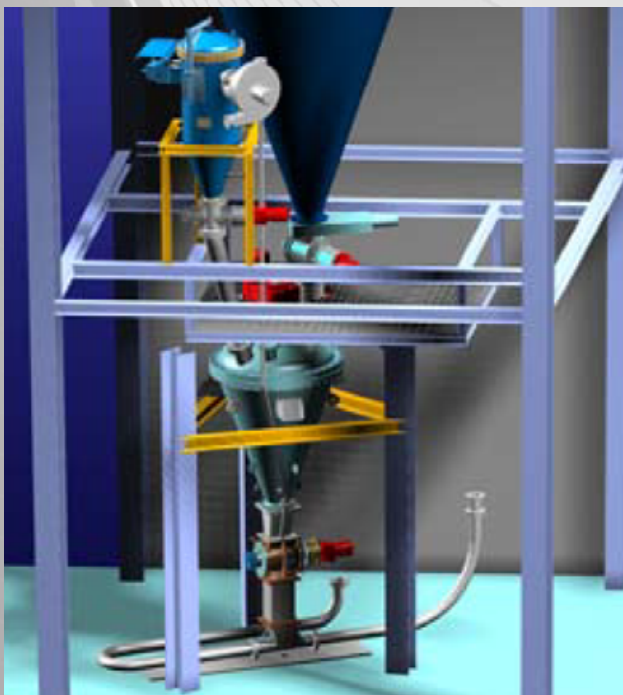
Description

In the course of further research activities in the field of FlexGen burner feeding, Vattenfall Europe Generation AG replaced in the Oxyfuel pilot plant at Schwarze Pumpe a screw pump by a lignite-dosing system from KREISEL. The system has the task of a dosed feeding of lignite to the burner in the range of 1.2 to 5.2 t/h. Lignite is stored in the 300m³ storage silo above the dosing system. Via a flame-propagation-proof design KREISEL rotary feeder the lignite is guided to the pre-bin. The pre-bin is positioned on load cells. By this the dosing capacity can be measured permanent. In case of feeding of the pre-bin, the dosing control system switches from the gravimetric dosing into the volumetric dosing mode. Depending on the dosing rate the speed of the lower rotary valve will be controlled. The lower rotary valve feeds the pneumatic conveying line, which guides to the coal burner. This rotary valve is designed for high life times, by ceramic wear protection elements.

Technical Data

Customer:	Vattenfall Europe Generation AG
Bulk solid:	Coarse lignite / lignite
Plant Location	Schwarze Pumpe / Germany
Conveying capacity:	5.2 t/h
Dosing rate:	1:5
Dosing accuracy:	≤ 3 %
Conveying distance:	approx. 40 m
Year:	2012

Remarks: The whole plant is 10 bar pressure shock resistant designed. The rotary feeder underneath the weighing bin is in KREISEL special ceramic wear protection design for a long life time.





Umwelttechnik seit 1912

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