

# VSE Kraftwerk Ensdorf Thermal Power Plant



**Analyzer Rack**

## Engineering Highlight

As a result of the planned revamping of two turbines in the Ensdorf power plant, VSE also decided to install a modern analyzing and sampling system for the automatic and continuous monitoring of the chemical parameters in the water-steam-cycle at the same time. SWAN Systeme designed and manufactured a tailor-made sampling and monitoring system installed in a shelter. Valves and coolers are located on one side of the shelter, instruments on the

other. Blow-down for saturated steam lines is done automatically during start-up of the system. Accurate and reliable measured values are therefore available very shortly after start-up.

The analyzing shelter is equipped with an automated quality assurance system (AQAS). All instruments are provided with an auto-diagnosis function. Data transmission is done via Profibus DP and is integrated in the DCS of the power plant.

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# VSE Kraftwerk Ensdorf Water Steam Cycle Monitoring



**Shelter with AQAS (Automated Quality Assurance System)**

## SWAN's Scope of Supply:

<b>Design</b>	Complete analyzing and sampling system built in a shelter, tested and ready to connect.
<b>Lines</b>	8 sampling lines
<b>Analyzers</b>	12 analytical instruments
<b>Signals</b>	Communication via Profibus to our AQAS system (Automated Quality Assurance System) and thereafter to the DCS.

## Ensdorf Power Plant:

<b>General</b>	Powerplant with two turbines and a combined net power of 430 MW
<b>Location</b>	Ensdorf, near Saarbrücken, Germany.
<b>Contractor</b>	VSE Aktiengesellschaft, DE-66032 Saarbrücken
<b>Operator</b>	VSE Kraftwerk Ensdorf
<b>Start-up Date</b>	July 2007

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