ANDASOL 1&2, Spain Thermal Solar Power Plant





Analyzer Rack

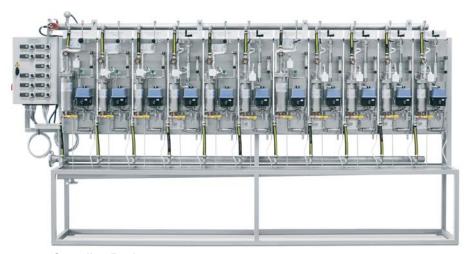
Engineering Highlight

SWAN Systeme AG developed a tailor-made sampling system with a fully automatic low-pressure blow down system in close cooperation with Sener. This blow down prevents the measuring equipment from being contaminated during daily start-up of the unit.

The heat exchange takes place between the solar heated thermo-oil and the water steam cycle. In order to detect possible leakage and thus oil contamination in time, SWAN employed the turbidity monitor AMI Turbiwell.



ANDASOL 1&2, Spain Water Steam Cycle Monitoring





Sampling Rack

Vacuum Hotwell Monitoring

SWAN's Scope of Supply:

Design Analytical instruments and sampling components

mounted on three racks and one vacuum hotwell

monitoring cabinet.

Lines In total 15 sampling lines for each power plant.

Analyzers 31 analytical instruments for each power plant.

Signals 4-20 mA signals with digital alarm contacts,

remote control for rinsing or measuring.

Andasol Power Plants:

General Europe's first parabolic reflector power plants with a collector surface area

of 510'000 m² each.

Location Near Guadix in Andalusia, in the province of Granada (Spain).

Contractor UTE COBRA & SENER

Operator Andasol 1&2 S.A., owned by the Spanish ACS/Cobra Group and the

Solar Millennium Group. ACS/Cobra is the first turn key contractor with experiences in constructing parabolic reflector power plants which

combine solar fields with molten salt storage tanks.

Start-up Date Andasol 1 mid 2008

Andasol 2 end of 2008

