SOLAVAY INDUSTRIAL PLANT

FLUE GAS DESULFURISATION, TAVAUX (FRANCE)

Key informations:

- Fuel: Coal
- Installation: Existing Plant
- Capacity: 1 x 134 MWth
- Upstream Components: Steam Boiler ESP

TECHNICAL ADVANTAGES

- COOLED DRY SECOLAB® PROCESS
- LOW OPERATING COSTS WITH HYDRATED LIME
- HIGH AVAILABILITY (> 96%)
- RECIRCULATION WITH ACTILAB®

A subsidiary of CNIM

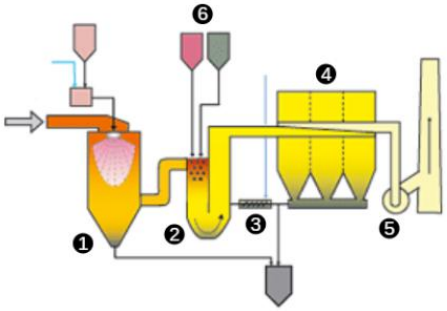
TAVAUX

SEMI-DRY FGD

The system installed on Tavaux plant is a dry SecoLAB™ process

It consists in a conditioning tower for flue gas cooling, a LABloop™ dry reactor with reagents injection for acid gases neutralization, a fabric filter with residues recirculation and humidification in the ActiLAB™ screw reactor.

This installation lets the plant reaching the emission limit by IED directives, with low OPEX and CAPEX.



1. Atomizer
2. Reactor
3. Actilab
4. Bag filter
5. ID Fan
6. Reagents (Activated carbon / Lime)

Volume flow	165.000 Nm³/h wet	
Temperature at SCR inlet	110 to 140°C	
Pollutant	**Before FGT**	**After FGT**
Dust (mg/Nm3)	200	10
SO2 (mg/Nm3)	500 to 2000	150

Assisted condensation with use of heat pumps (absorption or compressor type) and chilled water loop is also included in LAB portfolio and references.

For Biomass plants, heat recovery is maximised by combination of flue gas condensation and humidification of combustion air.

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