

# CASE STUDY

## EMISSIONS ANALYSIS

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Testing the efficiency of NO<sub>x</sub> reduction

### OVERVIEW

Most power stations use NO<sub>x</sub> reduction systems (such as ammonia injection, SCR, etc.) in the boilers to ensure that the emissions of such gases remain within the limits set by the environmental regulations in force.

### THE PROBLEM

Frequent checking of the De-NO<sub>x</sub> process is essential in power plants so as to identify the operations necessary to ensure optimal performance and compliance with the environmental regulations.



#### PERFORMANCE AND SAFETY

Emissions analysis helps fine tuning the combustion process, thus increasing performance and safety, while optimizing cost savings.



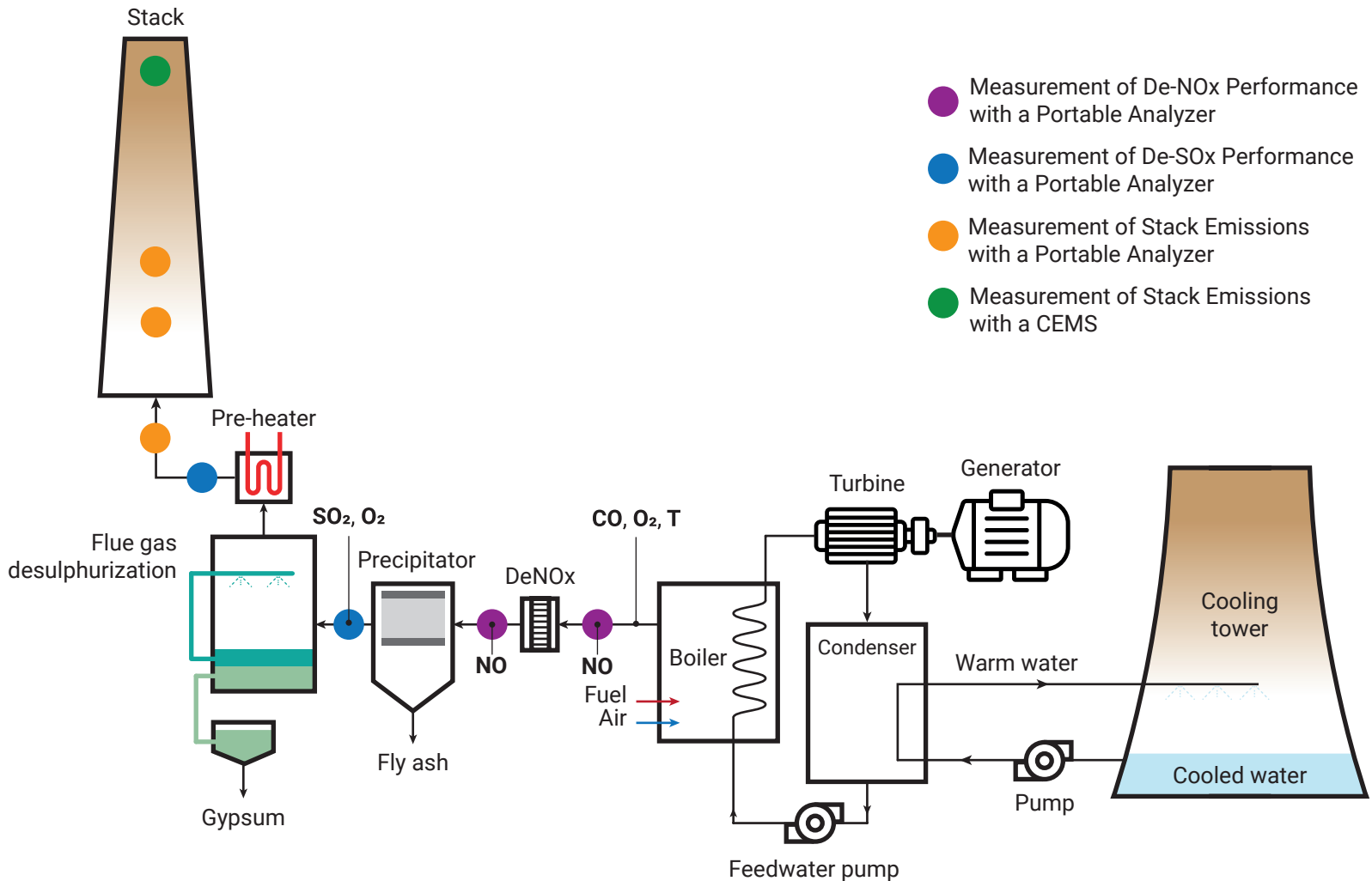
#### ENVIRONMENT REGULATIONS

Monitoring processes allows user to find needed adjustments to follow important emissions regulations.

## IMPORTANCE OF PORTABLE NO<sub>x</sub> ANALYZERS

A common practice is to utilize CEMS (Continuous Emissions Monitors) in the stack to assess the totality of emissions released continuously 24/7/365. However, this information alone is **not enough for identifying any specific malfunction** in the NO<sub>x</sub> reduction system or where to identify where the issues are.

To overcome this problem, it is necessary to use a **portable emissions analyzer for NO<sub>x</sub>**. Thanks to this instrument, it is actually possible to conduct various analyses **along the entire combustion process**, thus including before and after the application of the anti-NO<sub>x</sub> systems in place, which allows the users to optimize the reduction of these gases.



## PRODUCT SOLUTION

The S6000 or Novo Portable NO<sub>x</sub> Emission Analyser is the ideal solution for assessing the gases emitted by industrial boilers in power plants. The S6000 can be equipped with up to 6 gas sensors, in accordance with client requirements, whereas Novo can be equipped with up to 4 gas sensors.

For more info:

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