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Optimization of a cogeneration plant

OVERVIEW

Cogeneration is the process of simultaneously producing electricity and heat through the concurrent utilization of turbines, engines, boilers or other instruments. The energy and heat generated can be used for heat, steam, and/or for production-industrial processes.

THE PRINCIPLE OF COGENERATION

Boilers

Fuels

Electricity and Heat

Cogeneration Plant

Gas or steam turbines

Engines
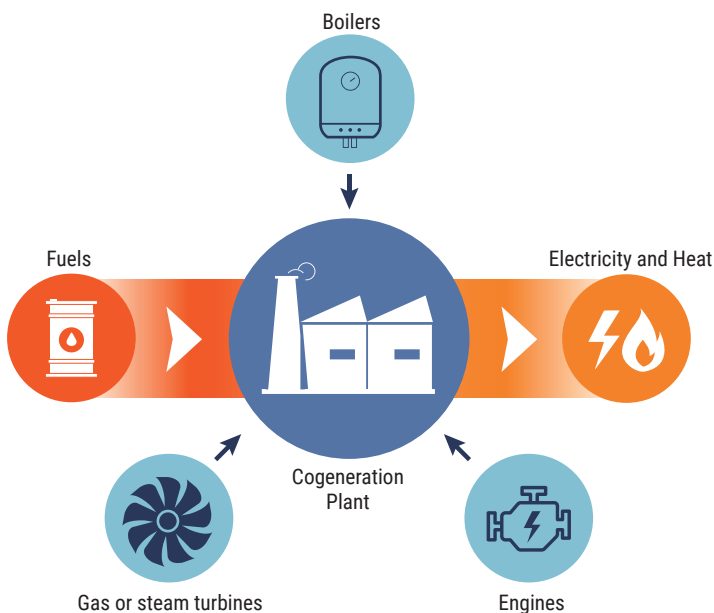
Some examples of applications of the cogeneration process include power plants, refineries, chemical plants, food and pharmaceutical companies, incinerators, paper mills, sugar refineries, sawmills, institutions (schools, hospitals, prisons, college campuses) and plants powered by peat and wood waste.

THE PROBLEM

To maximize the yield of such plants, it is obviously necessary to monitor **fuel consumption**, **combustion**

efficiency and the **level of emissions**. These checks are also essential for the **maintenance** and **safety** of the plant and can be carried out with emissions gas analyzers that permit verification of the temperature of the gases and their concentrations. In particular, the gases concerned are O_2, CO and CO_2, CxHy, total NOx (NO + NO_2), SO_2 and H_2S (amongst others).

THE SOLUTION

The solution proposed by Seitron is the **S9000**, capable of carrying out accurate measurements of the gases in question and equipped with dedicated software for data recording and analyses.

HD TFT color display

Up to 9 sensors + 3 on NDIR bench
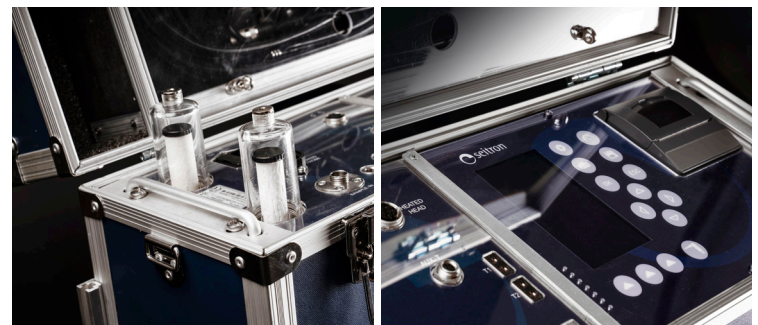
Mobile App - iOS, Android

Optional heated sample line

Field-replaceable sensors

PC software included