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Commissioning of flue gas desulphurisation plant at Grupa Azoty

Grupa Azoty S.A. has completed commissioning work on the flue gas desulphurisation plant for boiler K-5. The design objectives for the plant were thus achieved, in particular those pertaining to the levels of gas emissions to air, in accordance with the requirements of the BAT conclusions.

In addition, the operational availability of the plant's process equipment and systems for absorption was confirmed. Flue gas is desulphurised in a wet magnesium process, a method innovative on a national scale and characterised by a high degree of sulfur dioxide absorption (SO_2 ~95%).

This is one of a wide range of Grupa Azoty Group's investment projects that are in line with the European Green Deal.

In the wet magnesium process applied by the Group, SO_2 is absorbed in a suspension of calcined magnesite (85% MgO). The product of the desulfurisation process will be magnesium sulphate heptahydrate, which is used in agriculture as a magnesium fertilizer or as a component of compound fertilizers. Obtaining this substance in the flue gas desulphurisation process offers the Grupa Azoty Group an opportunity to take advantage of the synergies between its energy segment and fertilizer production.

The scope of work under the project to adapt the flue gas desulphurisation plant to BAT requirements includes increasing the effectiveness of the absorber, adding a new circulation tank, a new pumping station and a sewage treatment system, as well as improving the efficiency of the auxiliary parts of ancillary process units.

