Fact Sheet

Reduction of organic and inorganic emission components

STEAG Energy Services GmbH has been dealing with the reduction of organic and inorganic pollutants and trace elements for more than 30 years. These include dioxins and furans, heavy metals, as well as arsenic and selenium.

STEAG Energy Services (SES) has many years of experience in the field of thermal power plants and can provide successful references in the field of emission reduction. SES pursues integrated environmental protection concepts that take into account cross-media effects which reduce emissions into the air, water and soil.

In addition to compliance with legal limit values, utilizing state of the art technology and processes, our focus is on profitable plant operation.

Our services include the planning of new plants, compliance with amended limit values, elimination of problems in plant operation and avoidance of unexpected emissions and environmental impact.

Air Pollution Control

In the field of flue gas cleaning, we have gained competence over years of experience in the reduction of organic and inorganic pollutants and trace elements in the incineration of household waste, industrial and hazardous waste, substitute fuels, biomass and sewage sludge. We can draw on our experience with a wide range of technologies from oxidation catalysts to wet and dry processes and fixed-bed reactors. Due to the know-how gained in successful optimization of reduction processes, SES has also developed its own processes, e.g. an activated carbon filter designed as a cross-flow unit. We will gladly provide provide references for the following Waste to Energy plants: Lauta, Asdonkshof and Augsburg, all utilizing municipal solid waste.

In addition to improving air quality, the protection of groundwater and water bodies is of primary ecological importance worldwide. We contribute to the supply of clean water through our services for thermal power plants as well as the entire industrial sector.

Sewage Treatment

In addition to the purification of flue gases, we have been successfully dealing for years with the reduction of organic and inorganic pollutants and trace elements from the wastewater of power stations and industrial plants.

We have successfully developed and in some cases, optimized the following techniques:

- Neutralization
- Fractionated gypsum precipitation
- Precipitation of hydroxide heavy metals
- Precipitation of sulphidic heavy metals
- Fractionated heavy metal precipitation to minimize landfill volumes
- Activated carbon process

In addition to the purification of waste water, our processes optimize the reuse of water within the upstream process.

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