MERCURY ABATEMENT
Making Power Plants
Fit for BREF
OXIDATION BASED PROCESS

Highly efficient removal of oxidized mercury (Hg²⁺) within wet FGD process: SCR with TRAC® catalyst ensures advanced mercury oxidation rates.

Advanced oxidation rates of elemental Hg⁰ to ionic Hg²⁺ ensure Hg removal rates down to BREF emission levels. TRAC® Catalyst enables more than 100% higher oxidation rates compared to conventional catalysts. The oxidized Hg²⁺ is captured in wet FGD units. Re-emission of captured Hg²⁺ is controlled by selected process control features of the wet FGD like ORP-control (oxygen reduction potential) and/or addition of precipitation agents like TMT15® or AC (activated carbon).

ABSORPTION BASED PROCESS

Mercury removal can be also achieved by absorption processes. AC (activated carbon) or fixed filters are the most commonly used solutions, which can also be supplied by MHPS.

MHPS offers filters for system optimized emission control and product capture in the energy industry. The Mercury Control System provides both high efficiency and a high capacity for removing elemental and oxidized mercury from flue gas streams.

MERCURY CONTROL

In Europe the new BREF requirements will call for more stringent emission requirements by August 2021. The emission limit for Hg will be in the range of 1 – 7 Hg µg/Nm³, dry for power plants > 300 MWₜₜ, resp in the range of 1 – 10 Hg µg/ Nm³, dry for power plants < 300 MWₜₜ depending on fuel and retrofit and age of the unit. MHPS provides the best economic and technical solutions for all kinds of applications. We own and have technologies to provide the best tailor-made solution for nearly every kind of plant and size.

For more information please contact our team: energysolutions@eu.mhps.com