



RESTORATION AND MODERNISATION OF LIME PLANTS

The majority of lime plants in operation today were commissioned between 1980 and 1995. The plants are therefore reaching a critical age of more than 15 years, during which time problems can mount up, even in sound components. This often has negative consequences:

- Current requirements for occupational safety have often not been taken into account in the design of the plants.
- The process stability no longer meets the current requirements.
- The time and financial expenditure required for repairs and maintenance increases considerably.
- The plant availability declines considerably accordingly.
- Spare parts are often difficult to source due to the age of the plant.

Efficient management from the point of view of occupational safety, process reliability, plant availability and costs is extremely difficult to maintain. Modernisation or a complete restoration of such plants is therefore often the most cost-effective solution.

Expert knowledge as a basis for making decisions.

We have a team of experts who have had a defining influence on the development of lime plants over a number of years. They are aware of the critical points and

know what solutions are available for these. We will of course be happy to tell you what potential for optimisation there is in your plant.

Our range of services comprises:



Dust-free silo filling

Modern dust extraction technology reduces the residual dust content when filling silos significantly.

This avoids damaging impacts on the health of employees from caustic lime dust. The contamination of the plant and environment with lime dust is minimised.

Safe silo fillingg

The use of overflow prevention systems according to the silo fill level and/or injection system prevents overfilling by the lime supplier.

Extraction and purification of vapours

The use of modern vapour extraction systems prevents the uncontrolled escape of hot and seriously harmful vapours. A positive side effect is that contamination of the plant is also prevented.

Constant lime milk concentration

Constant and reproducible lime milk concentrations can be produced by changing over to gravimetric metering systems and modern measuring and control technology. This is essential for stable processes. In many cases, the lime consumption can be reduced significantly and fluctuations in the material flow of lime and water can be compensated.

Optimised discharge of bulk material

The material flow from the silo can be improved significantly by retrofitting mechanical silo discharge aids and/or improved air loosening systems (fluidisation systems). This is the first requirement for downstream metering devices. The handling of the plant is also made considerably easier.

Optimisation of lines conducting lime milk

Selecting specific pumps, metering devices suitable for lime milk, shut-off devices and line materials reduces coatings and signs of wear in the line systems. As a result, maintenance expenditure falls and plant availability is increased.

Process stability in lime milk metering

Adapting the process control and using appropriate flow meters allows exact metering in proportion to quantity or according to pH.

Specific use of lime to post-condition dehydrated sludge

The lime quantity can be set exactly by changing over to modern metering and weighing systems.

This will make the quality of the conditioned sludge reproducible. In many cases, the lime consumption will also drop.

Our experts will be happy to analyse your requirements with you and draw up a customised service concept based on them.

Give us a call.

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www.schaub-umwelttechnik.de