

# FLASHPHOS



The complete thermochemical  
recycling of sewage sludge

## FROM SEWAGE SLUDGE TO PRODUCTS FOR THE INDUSTRY



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The award-winning FlashPhos process is a high temperature fast reacting (flash) entrained flow gasification of dried and ground sewage sludge and other phosphorus-rich waste streams such as meat-and-bone meal.

The inorganic waste components are melted and the contaminants evaporated. The slag is then separated in a refiner reactor to produce recycled  $P_4$  as the main product. Other output materials of the process are a climate-friendly cement substitute, an iron alloy and a heavy metal concentrate as valuable outputs for the metal industry.

In the gasification, the organic components are converted into heat and a gaseous fuel. This gas and excess heat can be used to substitute fossil fuels.

Consequently, several valuable raw materials will be produced by the innovative and cost-efficient FlashPhos process without generating solid waste.

