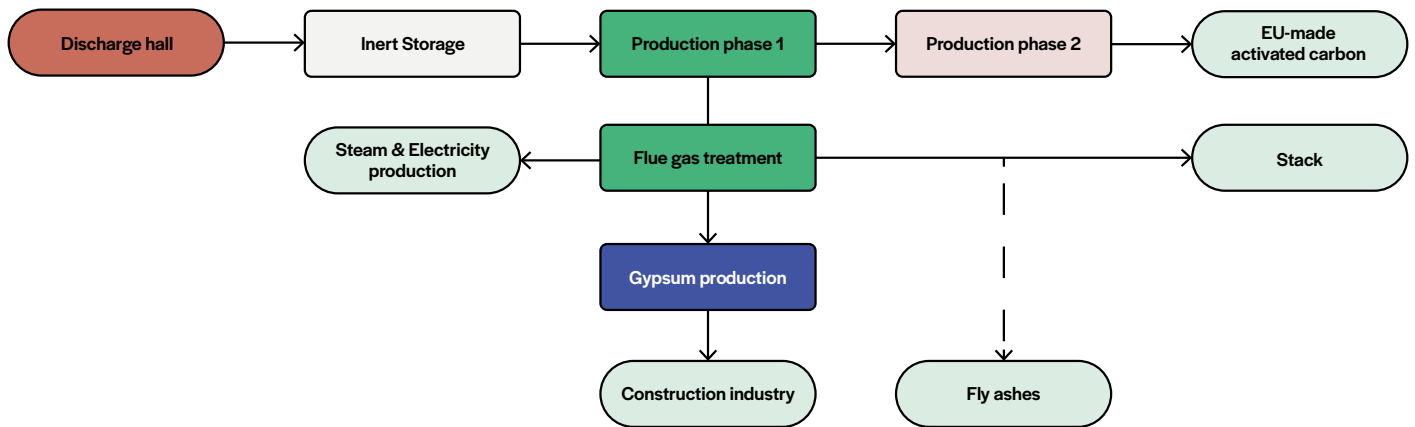


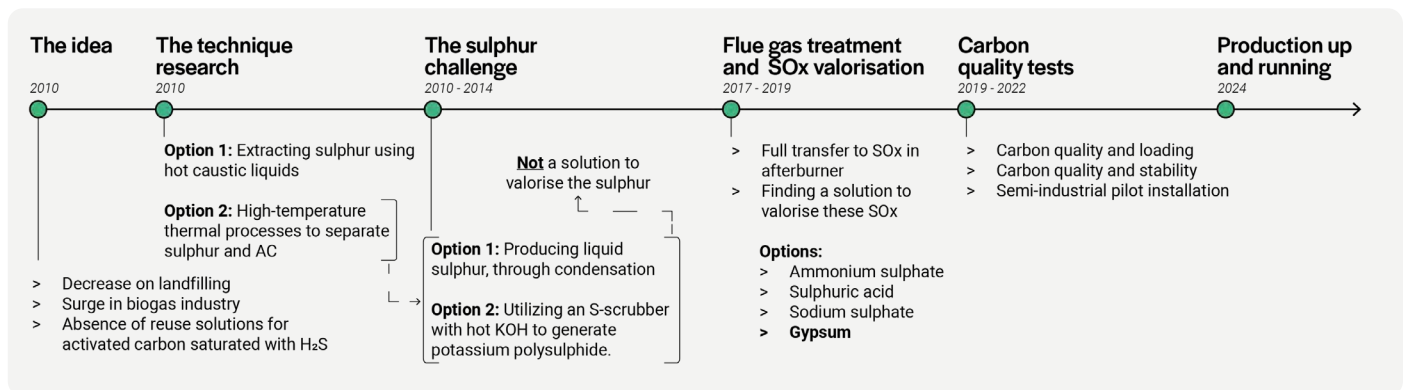
A glimpse into our production facility: process flow

- Discharge saturated activated carbon in a **closed hall** to eliminate potential odor concerns.
- **Store saturated activated carbon inertly** to prevent self-ignition.
- **Separate** activated carbon and all pollutants such as sulphur.
- In the second phase, refine the activated carbon **for biogas applications**.
- Convert all by-products into **useful applications** such as steam, electricity, or gypsum.



The secret behind our solution: a story of research and development

Our revolutionary purification solution designed specifically for the biogas market is preceded by a decade of dedicated research and innovation. In 2010 we saw a surge on the demand for H₂S removal solutions, all without a solution for its end-of-life waste stream.



During our research into optimal techniques, the high-temperature thermal process was the most viable solution. This method effectively separates activated carbon and sulfur while eliminating all pollutants, including organic compounds, and ensures no cross-contamination between clients.

Once we selected the thermal solution, addressing the SOx generated in the after-burner became crucial. Among several options, gypsum production emerged as the most economical and sustainable solution, given its potential applications in the construction industry, thereby rendering all by-products valuable.

About DESOTEC

We are the leading provider of mobile filtration solutions in Europe and are establishing this position in the USA. Our unique, flexible, circular service concept, together with our extensive expertise built up over many decades, make us a trustworthy partner. Our mission is to unburden industrial businesses in Europe and USA and help them operate more sustainably, to build a cleaner, greener world for all.

Learn more

