

# Safe degassing for all hazardous substances of explosive classes

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## De Challenge

Since the company's founding in 2007 ENDEGS has had a clear mission: to reduce the emissions of hazardous emissions into the air. Accordingly, with its trailer-mounted, autonomous, fully equipped combustion chambers ENDEGS degasses all hazardous substances of explosive classes IIA, IIB, and IIC, and even difficult gases from chemical plants.

Tank degassing has become standard nowadays. But when it comes to difficult challenges – for example, the degassing of ammonia, butadiene, ethylene, or more complex projects like turnaround or special customer process requirements, partners are needed that can offer solutions for just these challenges. ENDEGS, with its flexible mobile combustion chambers, is such a partner.

## De Solution

ENDEGS offers plug and play mobile degassing systems with 2.5, 5 und 10 MW capacity that reduce emissions through degassing by over 99.99 percent. ENDEGS was the first company in the world to start burning off ammonia with excellent measured

results. Today the company is in demand worldwide for degassing ammonia vessels. Further development work to the combustion chamber allows degassing of substances that tend to polymerize, without smoke or flame and without polymerization, giving ENDEGS another unique capability. Furthermore, ENDEGS has developed solutions that allow the use of heating oil instead of gas for auxiliary firing, which enables degassing at sites where liquid gas is unavailable. And, ENDEGS was the first to offer degassing of gas tankers on the Rhine.



## De Businesscase

In order to degas liquid and gas tankers on the Rhine in Germany and the Netherlands, ENDEGS brought forward suggestions for amendments to regulations in the ADN (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterway) and in bodies like the CDNI (Convention on the Collection, Discharge and Reception of Waste arising from Rhine and Inland Navigation).

The efficiency of its own degassing systems was recently demonstrated in a test in the port of Rotterdam in the Netherlands. ENDEGS degassed the tanker Visioen with 3300 cubic meters petrol/MTBE in just 6.5 hours at 1000 cubic meters per hour; furthermore, with ENDEGS' in-situ process there was no further waste, and no materials accumulated which would then have had to be transported somewhere else.

In Duisport, Germany, after years of work ENDEGS is now able to offer a ship degassing site. Recently, a tanker in Duisport with 2500 cubic meters of super petrol was degassed to 0% LEL without problems in ten hours.

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