

ETS Degassing

MOBILE EMISSION TREATMENT



**Innovative industrial
emissions reduction and
degassing services**

Reducing industrial emissions – for a sustainable future

ETS Degassing – Mobile Emission Treatment is the expert for innovative greentech solutions that are designed to help industrial facilities in reaching more sustainability in operations and maintenance. In many industrial processes, hazardous gases and vapors are created. Way too often, these are simply emitted into the air untreated, harming both human health and environment.

By reducing harmful volatile organic compounds (VOC) that trigger greenhouse gas (GHG) emissions like carbon dioxide (CO₂) and methane (CH₄), industrial facilities can contribute to environmental protection and lowering the global GHG footprint. This also enables them to fulfill ESG criteria – environment, government and social – and contribute to the SDG – sustainable development goals.

Our technologocially unique and highly efficient solutions are suited for the time- and cost-efficient combustion of gases, gas mixtures and vapors in the explosion groups IIA, IIB and IIC.

What we offer:



full service for emissions reduction and degassing



mobile technologies that can be applied directly at the customer's site



flexible and rapid deployments



innovative and environmentally-friendly technologies



efficent and reliable services



More sustainability in industrial operations and maintenance – through less GHG



Our services – more than degassing

ETS Degassing is the European market and technology leader in the field of environmental technology for the reduction of emissions from volatile hydrocarbons, VOC and HAP. Together with our customers, we avoid that hazardous emissions get into the air untreated where they are a danger to human health and the environment. We offer a flexible all-in-one service without any impact on daily operations.

The technologies of ETS Degassing include:



> 50 **mobile vapor combustion** units (VCU) for mobile degassing and VRU back-up operations



mobile **ATEX Zone 0 blowers** for the safe extraction of hazardous vapors from different components



a fleet of **mobile vaporizers** with nitrogen tank for working with liquified gases under pressure



remote-controlled **ATEX Zone 0 robots** for tank cleaning via two joysticks and a monitor



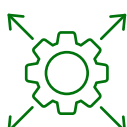
Our advantages:



environmentally-friendly



fast response and deployment



fast, flexible and cost-efficient



patented and field-proven



zero VOC emissions



support in authority approvals

The right partner for all industries and pollutants – reducing GHG right where they occur

Specialized industries need reliable partners, new challenges require innovative solutions to reduce GHG and improve CO₂ footprint. This is exactly what ETS Degassing stands for!

From hydrocarbon solvents (aliphatic and olefinic) to hydrogen-containing vapors and liquified gases under pressure – we reliably accompany our customers through the entire emissions reduction process and can provide CO₂ impact calculations.

Our innovative emissions reduction services can be applied in a wide range of industries and for all kinds of pollutants in the explosion groups IIA, IIB and IIC.

Cutting-edge technologies for the following industries:

- Tank terminals
- Refineries
- Industrial services
- Chemical plants
- Shipping
- Other industries



Our no-worry offer – comprehensive service on site

We accompany our customers through the entire emissions reduction process and fulfill their individual requirements. Our processes are designed so that daily operations are not disturbed and can continue as usual with only minimal downtimes.

Due to their compactness, fast docking and very short execution process, our mobile systems are highly flexible and easily adaptable. They are equipped with everything required for emissions reduction and degassing such as piping, power generators or flame arresters, tank and the entire support gas facility. Clients don't need to provide anything as we offer a full service that is performed by our highly skilled, trained and experienced team.

Compared to adsorption and absorption technologies where VOC are desorbed in further steps, our technologies reduce GHG right where they occur. This allows a comprehensive and easy calculation of GHG reduction effects.

ETS Degassing customers can trust in a transparent and efficient process as well as in the highest quality standards on the market. As normal customer processes can continue as usual and without disruption, our clients save time and money.



What we stand for – ESG performance applied



Safety: We develop, produce and operate cutting edge technologies that guarantee the safety of staff and environment.



Environmental protection: We offer technologies that increase sustainability and help to preserve a world that is worth living for future generations.



Innovation: We drive change forward actively, are open to new ideas and take advantage of new opportunities.



Responsibility: We are a reliable and trustworthy partner and comply with all regulations.



Efficiency: We act efficiently & think customer- and market-orientated. We leave nothing unchanged if we can make it better.



Integrity: We act as a “corporate citizen” socially and ethically responsible.



Compliance: All of our technologies and processes are compliant with European safety regulations and standards.

Mobile degassing – flexible and efficient solutions through vapor combustion

Our mobile vapor combustion units (VCU) destroy all gases, gas mixtures and vapors from the explosion groups IIA, IIB and IIC with a combustion rate of more than 99.99 % and without any open flame. This makes us the only company operating in Europe being able to do so.

ETS Degassing mobile incinerators are suited for the degassing of all kinds of containers such as tanks, pipelines, vessels or vacuum trucks as well as for temporary back-up operations for stationary emissions treatment systems during downtimes due to maintenance or failures.

Our vapor combustion units are suited for working with all kinds of hydrocarbons (aliphatic and olefinic), VOC and HAP emissions and are operated in a sustainable and environmentally-friendly way as neither open flame nor odors develop during operation.

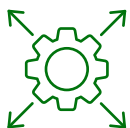
Building on the heritage of former degassing specialists SIS and ENDEGS, the ETS Degassing team has more than 17 years of experience in developing highly efficient mobile emissions reduction services.

We offer an all-in-one emissions treatment service and our units are operated by our skilled team directly at the sites of our customers.

The advantages of ETS Degassing:



over 99.99 % combustion rate



scalable combustion capacity from 0.1 to 20 MW



zero VOC emissions



environmentally-friendly, no open flame



Our all-in-one degassing package – adapted to customer operations

We accompany you through the entire degassing process

From the initial consultation to the quotation, preparation and the execution of your degassing application right through to pre-care and aftercare: we are happy to be there for you – as a professional service provider and experienced consultant.

Our mobile units are self-sufficient

ETS Degassing mobile vapor combustion units are equipped with everything needed to carry out degassing and venting: connecting pipes, connections, fans, special combustion nozzles, spare parts, power generator with diesel tanks, etc. Customers only support us with the preparation, the degassing process is carried out by the experienced and skilled ETS Degassing staff.

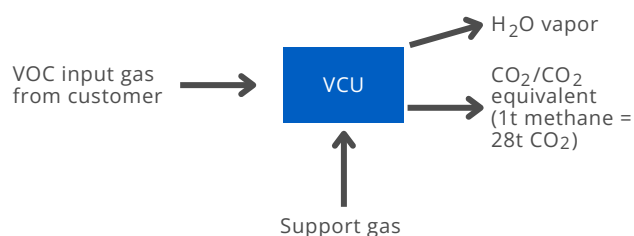
The impact on operations is minimal

Our processes are designed so that incineration processes can be carried out flexibly and extremely efficiently. Your production can therefore continue undisturbed or with only minimal interference. This saves our customers time as well as money.

The degassing process is reliable, legally compliant and clean

Our processes are certified and our systems are patented. We always comply with European law and health and safety regulations. No waste is produced during degassing and all relevant safety regulations are complied with. We are also happy to support our customers in coordinating with authorities.

How our mobile vapor combustion units (VCU) work:



Our mobile vapor combustion units – a broad offering of technical solutions

ETS Degassing offers mobile incinerators with different combustion capacities. This makes our units perfectly suited for different applications. Furthermore, our units can be combined so they have a scalable combustion capacity of up to 20 MW.



Mobile incinerator with a combustion capacity of 3 MW

Our 3 MW unit is perfectly suited for short-term deployments and emergency services. Directly after approval and arrival, we can start to reduce your emissions.



Mobile incinerator with a combustion capacity of 4 MW

Our 4 MW unit is also perfectly suited for short-term deployments, especially for the degassing of single tanks and short back-up operations for stationary vapor recovery units (VRU).



Mobile incinerator with a combustion capacity of 5 MW

Our 5 MW unit is another perfect solution for short-term deployments of up to a few weeks. The incinerator is ideal for degassing smaller tanks and replacing vapor recovery units. The unit is available on trailer or as a container.



Mobile incinerator with a combustion capacity of 10 MW

Our 10 MW unit is suitable for call-offs that last several weeks or require a higher combustion capacity for working with more complex products.

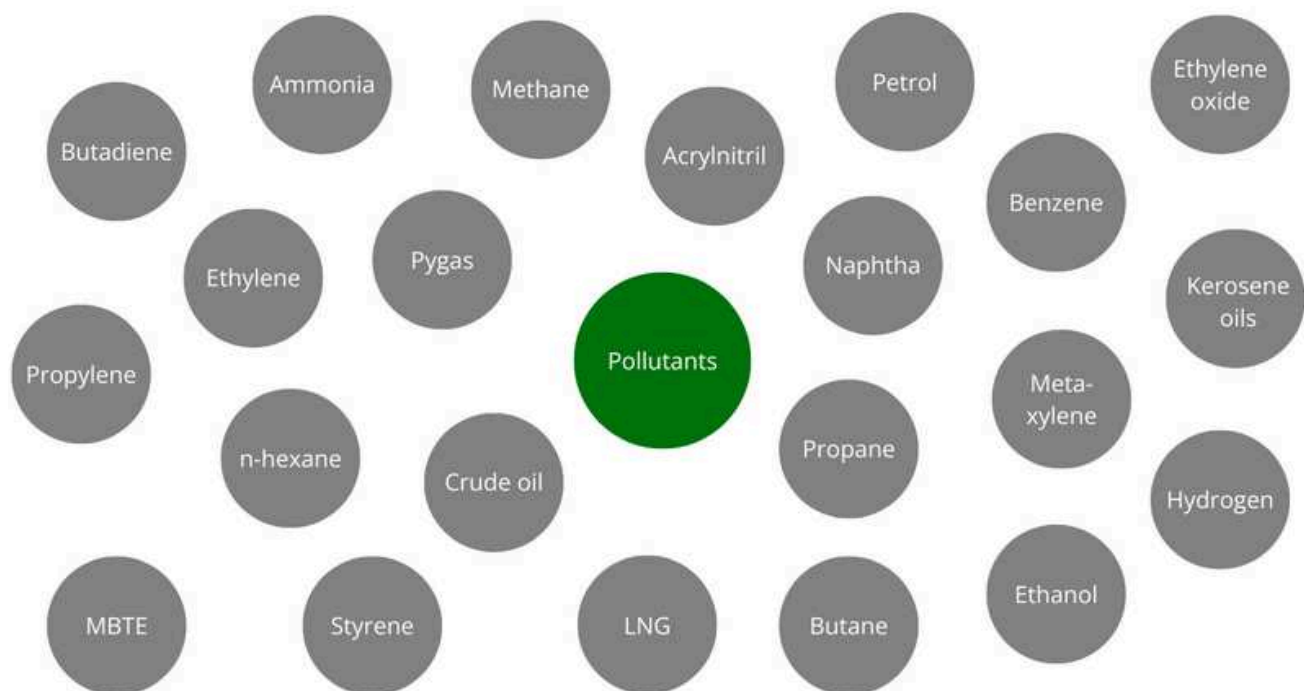


Mobile incinerator with a combustion capacity of 20 MW

Our 20 MW unit is our unit with the highest combustion capacity and is therefore perfect for long-term call-offs with a duration of several months or for working with more complex substances.

We enable emissions reduction – for all products

From hydrocarbon solvents and vapors to hydrogen-containing vapors: our degassing technologies are specially developed to destroy all pollutants in explosion groups IIA, IIB and IIC – without an open flame, quietly and odorlessly. We can treat the following pollutants environmentally-friendly with our innovative technologies:



This reduces CO₂-equivalents (CO₂-e) where they occur. Our mobile vapor combustion units can be applied for the degassing of many applications such as



tanks



ships and vessels



rail cars



pipelines



refineries



stationary flares

and many more installations.

Nitrogen services – to enhance safety

The ETS Degassing fleet of mobile nitrogen vaporizers expands our portfolio of innovative emissions reduction services by enabling the work with systems and system components containing flammable liquids and gases. Nitrogen services can be applied for the maintenance of tanks, pipelines, ships, vessels and large containers as well as for the degassing of spherical gas tanks, gas tankers and gas containers. This makes the mobile nitrogen vaporizer ideally suited for the use in emergencies, accidents and during shutdowns.

Liquified gases under pressure – for instance LNG, ammonia, hydrogen and butane – are more complex to work with as they are highly flammable and have a high risk of explosion. As nitrogen is an inert gas that does not react with other substances, inerting the components with nitrogen creates a safe environment when handling highly flammable substances. We use the nitrogen to purge and render inert containers, ensuring that they can be emptied safely.

Of course, ETS Degassing nitrogen services can be combined with our mobile vapor combustion units to degas components and containers that are filled with liquified and highly flammable products and gases.



Nitrogen services – for liquified and flammable products



ATEX Zone 0 Blower – for the extraction of vapors

Our portfolio also includes unique blower skids that are certified for use in the ATEX Zone 0 and enable the safe extraction of vapors from plants, containers, tanks, ships and many other components.

The Zone 0 Blowers of ETS Degassing are small, compact and easy to use. Depending on individual requirements, we can offer the mobile blower skid in different capacities. The units have their own PLC and can be programmed so that they can be integrated into existing controls and processes.

To connect the ATEX Zone 0 Blower, we also supply our customers with the necessary additional equipment such as pipe networks, valves, detonation pipe protection, liquid separators and other components. We have enough piping in stock to also provide pipe networks with a length of more than 1,000 meters per section.



ATEX Zone 0 Robot – for a safe tank cleaning

Responsibility and safety are an important factor in our daily work. Therefore, we offer the innovative remote-controlled ATEX Zone 0 Robot for a safe cleaning of industrial tanks as a rental service. The robot can be controlled via two joysticks from a safe distance, workers no longer have to expose themselves to the enormous risks for health and safety in the hazardous ATEX Zone 0. A monitor shows every movement of the ATEX Zone 0 Robot in real-time.

The ATEX Zone 0 Robot for tank cleaning works quickly, does not get tired and cleans reliably and thoroughly – 24 hours a day, seven days a week. It impresses with maximum grip on the floor thanks to patented magnetic chain links and a powerful hydraulically operated arm that applies 2,000 Newton meters in every direction. The robot provides a safe, efficient and cost-effective method of removing hazardous and non-hazardous materials from industrial containers.

Thanks to its small size, maneuverability and versatile robot arm movements, the ATEX Zone 0 Robot can be used in many industries and for a wide variety of materials. Of course, the robot can be combined with a mobile vapor combustion unit to also carry out the tank degassing.

ETS Degassing provides its customers with the robot exactly when and for as long as they need it. Of course, we also take care of delivery and removal and rent world-wide. Furthermore, we can provide practical training sessions for the customer's operators and prepare employees directly in site for the specific maintenance and cleaning task.



Sustainability in the industry – more than degassing

At ETS Degassing, we develop innovative technologies that help industrial facilities to make their operations more sustainable and to reduce their carbon footprint. By reducing the amount of hazardous emissions that get into the air untreated, industry can improve the air quality and contribute to becoming climate-neutral by 2050.

We are committed to the principles of sustainability, environmental protection, safety and security. In the long run, we want to contribute to reaching these goals:



improve the air quality.



protect the environment.



preserve a world that is worth living for the next generations.



Clean air for future generations – what we work for



Our company – who we are



ETS Degassing is part of the ETS Group which was formed in 2023. The Group is a leading and growing provider for environmental technologies. The head quarter of the ETS Group is located in Germany. With offices in France, the Netherlands and the Middle East (Saudi Arabia and Bahrain), the group operates internationally and supports customers world-wide for more sustainability. ETS Group invests into environmental technologies that reduce emissions and waste.



With its brand company ETS Degassing, the Group is specialised in emissions reduction and degassing services. ETS Degassing builds on the heritage and success of former companies SIS and ENDEGS, European market leaders for emissions reduction and degassing. With the experience of our companies and highly qualified staff, we have been operating in the field of environmental technologies for a cleaner air for more than 17 years.



Contact us

With offices in Germany, France, the Netherlands, Saudi Arabia and Bahrain, we operate internationally and help our customers world-wide to reduce their emissions. Contact us to learn more about our services.

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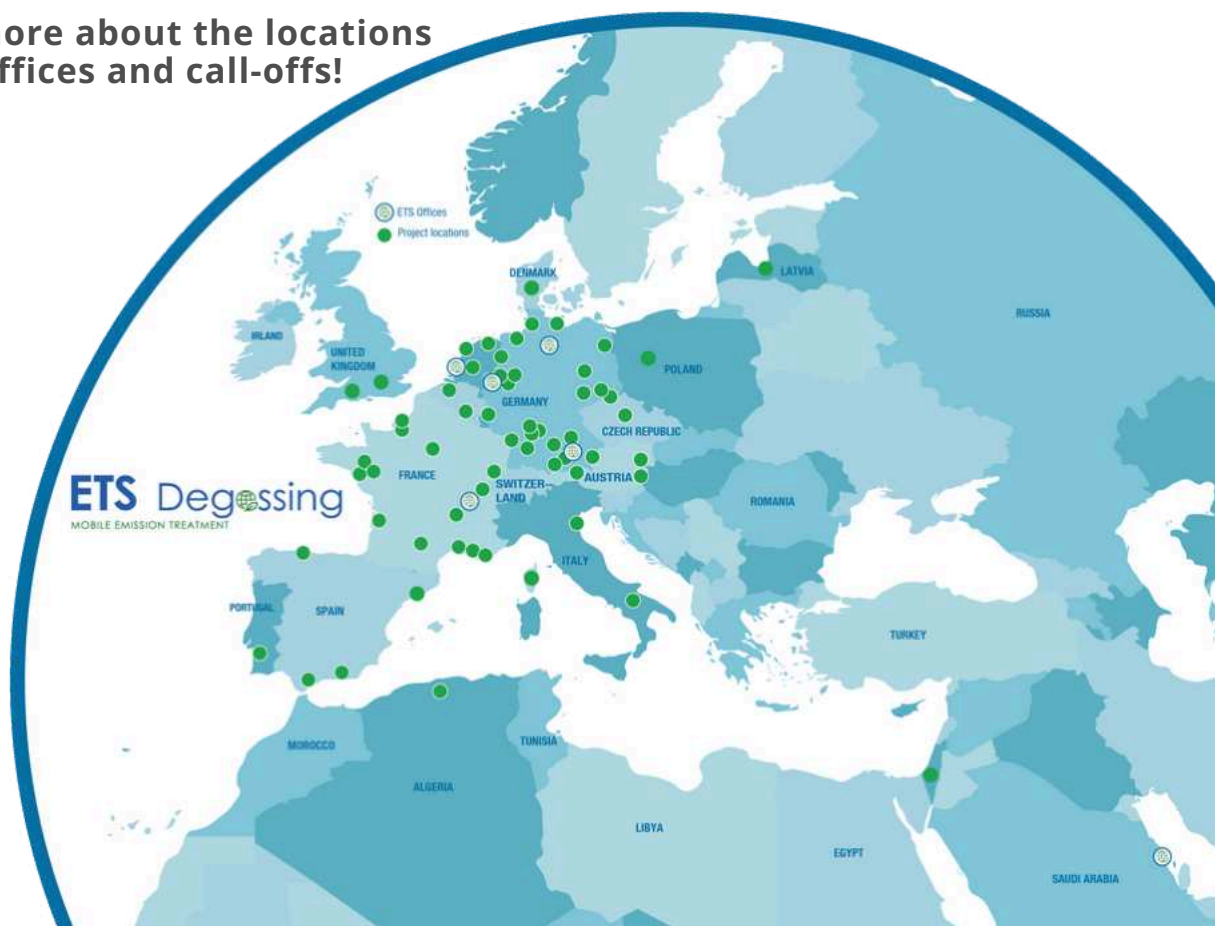
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ETS Degassing
MOBILE EMISSION TREATMENT

**We are passionate about
sustainable solutions.**

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