

# The Discom Energy Effect

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## The Discom Effect for generating energy

Discom has a key role in the complex energy generating process. We have spent over 35 years providing solutions for exhaust gas systems. Thanks to our long experience we have the right system for any advanced technical installation. Whether an (emergency) power set is required or a power station using a diesel or gas engine, rest assured that we will provide solutions meeting the requirements (e.g. efficiency, fitness for purpose, reliability and safety) set to a perfectly operating system. If you wish to avoid every risk, Discom is the specialist capable of offering you total solutions and related guarantees.



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Solutions for noise, emission and heat



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# Solutions for noise, emission and heat

As the designer, builder or operator you are perfectly familiar with the importance of having reliable and safe energy generating installations. These are the characteristics that typify Discom. In over three decades we have provided hundreds of different installations with complete exhaust gas systems. Whether a single silencer is required, a chimney or a complete system including heat recovery, reduced emission or CO<sub>2</sub> fertilisation, Discom has the system that will perfectly meet your process. This process is about increasing efficiency and sparing the environment as much as possible. It is one of Discom's greatest challenges. Therefore each exhaust gas system is part of a total concept of components that cannot be separated.



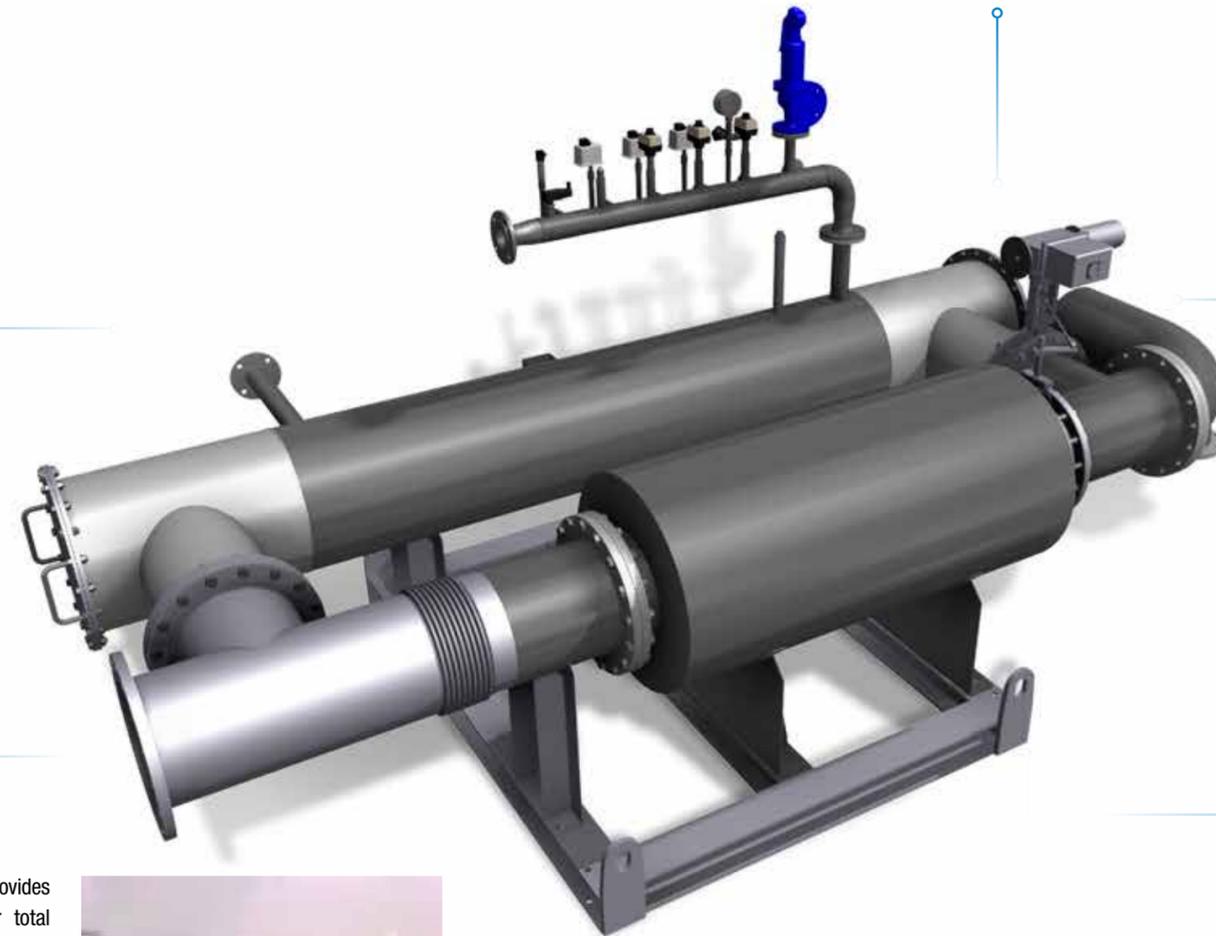
**Thermal insulation** Three main reasons exist for insulating the exhaust systems of combustion engines. 1) Reduced heat radiation, 2) more safety by shielding off the hot parts and 3) reduced loss of heat for new use. For these situations you can count on Discom to provide appropriate solutions and support to help you make the right choice; whether insulation mattresses are involved or insulation protected with special sheeting. All components are delivered after they have been fully insulated.



**CO<sub>2</sub> fertilisation** Today Discom also provides complete exhaust gas systems for total energy plants and special systems intended for greenhouse cultivation. Using state-of-the-art flue gas cooling and purification systems we process the exhaust gas systems of the gas engine to such extent, making sure they can be reused for stimulating crop growth in the greenhouse. A special control unit is responsible for protecting the composition of the exhaust gas, which means reliable and pure fertilisation is guaranteed.



**Reusing heat** The hot exhaust gasses produced by combustion engines contain much energy some of which can be reused. Discom offers the possibility to indeed reuse this energy. To this purpose Discom provides the exhaust system with a heat exchanger. For instance, it can be used for heating radiators.



**'Dry' exhaust gas systems** Despite the space problems in the generator set, Discom is perfectly capable of designing 'dry' exhaust systems that will meet your requirements. We design and manufacture 'dry' silencers in different shapes. In doing so we guarantee optimal use of volume and good acoustic results while respecting the maximum permissible back pressure in the exhaust system. In most cases we provide an integrated and certified spark arrestor.



**Exhaust gas follow-up treatment** In our ever busier society more and more attention is being paid to exhaust emissions; removing diesel smell and soot and reducing NO<sub>x</sub>. Applying oxidation catalysts, soot filters and SCR systems allows Discom to realise considerable environmental advantages in new and existing engines. Usually a custom-made solution is required bearing sound, back pressure and vibrations in mind.



## Good preparations determine the result

The ultimate effect of a system is usually determined at the initial stage. Making sure Discom is involved already during the designing process means you can optimise the output of your exhaust gas system: a system with the ideal price/performance balance. Engaging Discom early enough means you can count on experienced and dedicated engineers who will take their time to perfectly understand your wishes and requirements. This most accurate approach means you will be given crystal-clear advice based on acoustic, typographical, FEM and CFD calculations. Also, our engineers' long experience adds to reaching the perfect solution. In addition, we engage our partners who specialise in emission technology and heat recovery to ensure optimal results.

## Certainty first

In many cases an almost impossible combination of requirements is involved. It is a challenge Discom is delighted to take on. Up to a reasonable level that is, for once the reliability and safety of your installation is at stake, you may expect us to share with you our objective opinion. Being a specialist in exhaust gas systems obviously we hold all the certificates required. Also, Discom meets the standards that prevail in the energy sector. Bearing these advantages in mind you will realise that our expertise is firmly based. It is the foundation of an optimal solution to relieve clients. The Discom Effect.

## How much more certainty do you wish for?

Today generating energy requires top-notch solutions: Discom's solutions. Your company or industry too can count on us to make your exhaust gas system even more effective. It is why we recommend the Discom Effect.