

The image shows three men in an industrial setting, likely a factory or power plant. They are wearing blue button-down shirts, blue jeans, and white hard hats with the SAACKE logo. They are standing on a metal walkway with railings. The background features large industrial pipes and machinery. The overall color scheme is dominated by blue and white.

SAACKE

CO₂-FREE COMBUSTION – ARE YOU READY TO GET STARTED?

Shaping the energy transition with Ombustion by SAACKE.

Analysis. Consultation. Optimization.

TAKING THE OMBUSTION OUT

STEP BY STEP TOWARDS THE ENERGY TRANSITION.

The future in one word. Take the C off combustion and you're left with: CO₂-neutral thermal energy without compromises. That is what the Ombustion team stands for. It offers consulting services and develops strategies to make combustion technologies more sustainable.

Where classic standard fuels still dominate energy production in industrial furnaces today, alternative combustion technologies are set to take over in the future. This requires **efficient and climate-neutral solutions** geared towards the processes and local conditions, which is precisely where Ombustion comes in.



Our team offers **specialized consulting and engineering services** to support the development of **sustainable combustion processes**. Our goal is always to develop the optimal strategy in close cooperation with our customers to reduce the CO₂ footprint with customized, sustainable combustion solutions. When doing so, we at Ombustion draw on SAACKE's wealth of expertise.



Arrange a
consultation
now!

www.ombustion.com

Conversion to alternative fuels and optimization of the combustion processes

- ✓ Development of strategies for the decarbonization of your combustion processes.
- ✓ Consulting services for the conversion of your combustion plants to hydrogen and other alternative fuels.
- ✓ Optimization and improvement of the efficiency of your existing plants.
- ✓ Development of a total cost of ownership model to support your investment decision.

33 GOOD REASONS TO CHOOSE OMBUSTION.

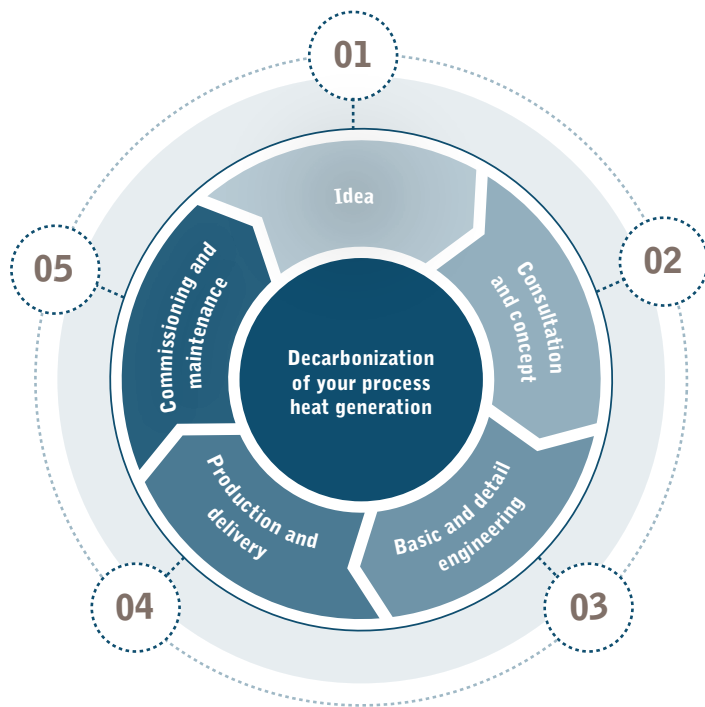
We light a sustainable fire. The team guides you through the energy transition with tailored consulting services. Always with the aim of developing a sustainable, high-performance, and robust solution for you. Tailored to your requirements.



Have we
sparked your
curiosity?
You can find
the 33
reasons here.



RELIABLE SUPPORT AND ADVICE.



01

Your idea

Your first contact partner:
Ombustion

Consultation

02

Consultation and concept

Performed by Ombustion

Supply contract

03

Basic and detail engineering

Performed by SAACKE;
advice and support
from Ombustion

Service order

04

Production and delivery

05

Commissioning and maintenance

Performed by SAACKE;
service, advice, and support
from Ombustion

OUR SERVICE OFFERING.



Basic

For price-conscious customers looking to get an initial idea of the technical feasibility and financial attractiveness of converting to another fuel or optimizing their current fuel.



Premium

Our bestseller for customers looking to get a detailed insight. You receive not only a meaningful technical concept for the use of your alternative fuels but also advice regarding cost optimization.



Ultimate

For customers looking for an all-inclusive package. You receive not only a sophisticated technical concept for the use of your alternative fuels but also the quickest and best support right up to commissioning.

BASIC PACKAGE.

Analysis

- Assessment of fuels
- Assessment of existing combustion plant (if required)
- Basic laboratory analysis of a liquid or solid fuel (if required)

Concept and optimization

- Combustion concept
- Corrective action concept (if required)
- Feasibility assessment
- ROI assessment

Service

- PowerPoint-based report
- One online meeting

For price-conscious customers

After purchasing this package, you know

- ✓ Whether your fuels / waste are generally suitable for energy production.
- ✓ What costs you can save by utilizing them.
- ✓ Whether the new fuels can be used with your existing heat generators.
- ✓ For new plants: Which heat generators and framework conditions you should choose.
- ✓ For existing combustion plants: How they can be optimized and existing problems resolved.
- ✓ What emissions you can expect during combustion.

PREMIUM PACKAGE.

Analysis

- On-site survey
- Laboratory analysis of liquid or solid fuels (if required)
- Assessment of the fuels
- Assessment of the existing combustion system (if required)

Concept and optimization

- Process engineering concept
- Feasibility study
- Design concept
- Design drawings
- PFD
- Heat and mass balance (HMB)
- CFD combustion simulations (two load cases / two optimizations)

Service

- Report in MS Word
- Budget offer for conversion / new construction
- Two online meetings
- One on-site meeting

Our bestseller

After purchasing this package, you know

- ✓ How your fuels / waste can be used for energy production. Validated with CFD simulations.
- ✓ How your solution can be implemented from a design perspective.
- ✓ What costs you will save through the use and how much the construction of the plant will cost.
- ✓ How your existing system can be improved (if required).

You also get

- ✓ A survey and a progress meeting on site at your facility.
- ✓ A comprehensive report in MS Word.

ULTIMATE PACKAGE.

Analysis

- On-site survey
- Laboratory analysis of liquid or solid fuels (if required)
- Assessment of the fuels
- Assessment of the existing combustion system (if required)

Concept and optimization

- Process engineering concept
- Feasibility study
- Design concept
- Design drawings
- PFD and P&ID
- Heat and mass balance (HMB)
- CFD combustion simulations (two load cases / three optimizations)

Service

- Express processing
- Report in MS Word
- Offer with time line for conversion / new construction
- All meetings incl. final presentation on site
- Visit to a reference plant
- Supervision of the installation (max. two days)
- Support in commissioning (max. five days)

**Guaranteed support from
a consulting partner**

After purchasing this package, you know

- ✓ How your fuels / waste can be used for energy production. Validated with numerous CFD simulations.
- ✓ Detailed explanation of how your challenges can be overcome with the existing plant.
- ✓ Detailed explanation of how the solution can be implemented.
- ✓ What costs you will save through the use and how much the construction of the plant will cost.

You also get

- ✓ The quickest and best support from one of our consulting partners.
- ✓ All meetings on site at your facility.
- ✓ Support in the installation and commissioning from our process engineering experts.

We do what we are best at and have been doing together successfully for decades: really great combustion – clean, efficient, flexible, and robust.

Dipl.-Ing. Philipp Schönberger
P.Schoenberger@saacke.com



Dipl.-Ing. Sven Gose
S.Gose@saacke.com



Dr.-Ing. Ronald Wilhelm
R.Wilhelm@saacke.com



COMBUSTION
BY SAACKE



WHAT FORM OF ENERGY PRODUCTION DO YOU RELY ON?

Benefit from our **customized consulting services** and **solutions** tailored to your industry.



Energy and heat supply



Steel and metal processing



Chemical industry



Building materials industry



Refineries



Wood processing




Food industry



Consumer goods



Waste recycling



Ombustion developed a solution for the low-emission combustion of recycled oil for us. [...] We value the outstanding cooperation and recommend Ombustion for future-oriented and sustainable solutions in the field of combustion technologies without any reservations.

MEWA Textil-Service SE & Co. Management OHG



**Arrange a
no-obligation
consultation
now:**

Contact us: SAACKE Combustion Services Limited
Langstone Park, Langstone Road
Havant, Hampshire, PO9 1SA

Tel. +44 (0) 2392 333 900
webenquiry@saacke.co.uk

WWW.SAACKE.COM