

THE ATRES GROUP

ANAEROBIC TECHNOLOGY.
REGENERATIVE ENERGY SYSTEMS.

ANALYTICS

Specialized Laboratory

RESEARCH

Piloting · Research · Development

ACADEMY

Seminars · Training

CONSULTING

Studies · Engineering

PRODUCTS

Supporting anaerobic processes

The atres group offers engineering services in the field of industrial wastewater treatment and waste utilisation. We offer our customers professional support solving technical, processing and biological problems, from planning and starting up to operating and expanding a biogas or waste water treatment plant.

atres runs its own independent laboratory in Freising-Weißenstephan that specialises in biogas with modern analytics. Attached is a pilot plant for research and development.

The owner-run company was founded in 2006 by Gunther Pesta after many years of research at the Technical University of Munich in Weißenstephan. His recognised specialist knowledge, the interdisciplinary team of the atres group, and the close co-operation with science and research means that atres works with cutting-edge technology.

This particular competence distinguishes the academy and atres. Customers can use atres to guide them through the entire project - from planning and starting up to operating and expanding a biogas or waste water treatment plant - or just through the individual steps.



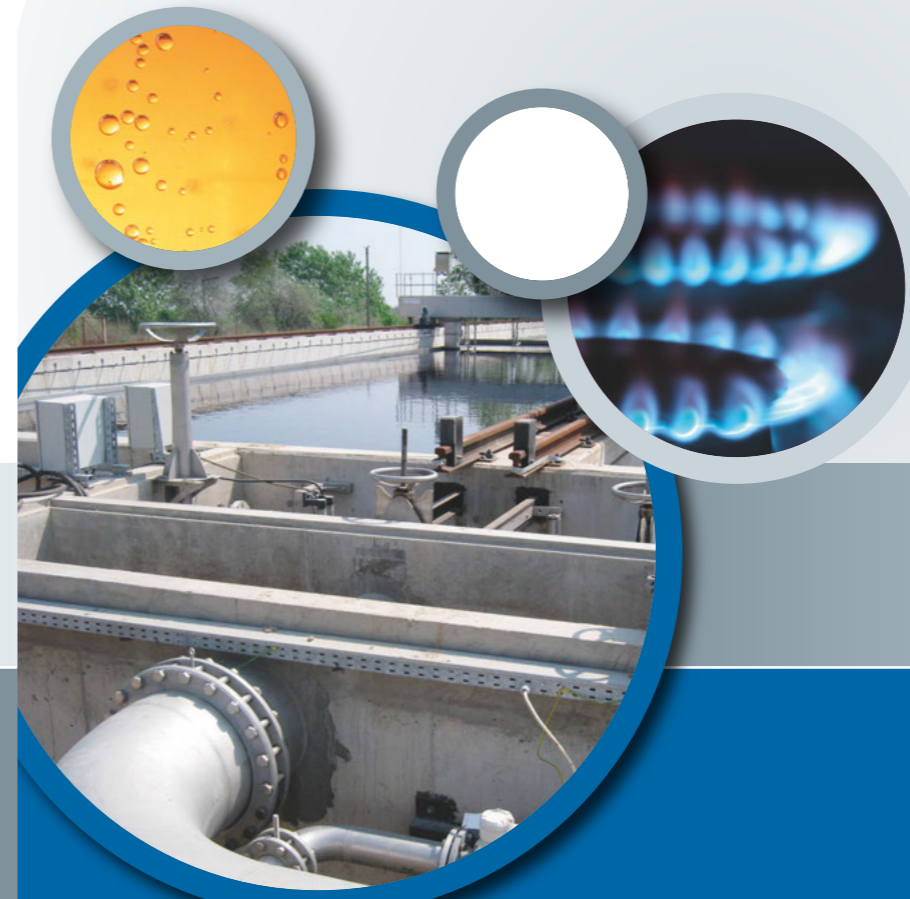
www.atres-group.com

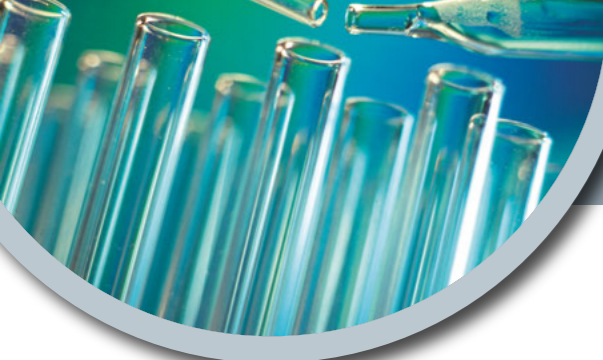


ATRES
Owner: Dipl.-Ing. Gunther Pesta
Lise-Meitner-Straße 30
85354 Freising
Germany
Phone: +49 (0) 8161/40 54 2-0
Fax: +49 (0) 8161/40 54 2-22

Consulting · Engineering Implementation

WE CLARIFY YOUR
WASTE WATER QUESTIONS





WE ARE PARTNER OF OUR CUSTOMERS ASSURING SUCCESS - STEP BY STEP:

A holistic concept design asks for detailed knowledge

- Waste water-Check for estimating potentials and designing concepts
- Efficiency-Check for optimizing operating waste water treatment plants
- Investment-Check for revamping facilities or extending capacities

- Conceptual and processing design
- Engineering and approvals
- Start up and take over
- Supervision and optimization

EXPERTISE AND
VALIDATION

IMPLEMENTATION
AND SUPERVISION



STATUS QUO

WASTE WATER TREATMENT PLANTS FOR THE FOOD AND BEVERAGE INDUSTRY

One-stop services in
design and commissioning

BIOGAS OUT OF ORGANIC BY-PRODUCTS

Innovative residues' management by
means of anaerobic digestion



Atres and TBP Upcon – together we
are focussing on your success!

- High skills and know-how regarding waste water treatment (anaerobic, aerobic)
- Specialists in the handling of biogas
- Long-time expertise and experience in industrial plant engineering and construction



Biogas out of by-products and industrial waste waters

- Indirect or direct discharger
- Aerobic, anaerobic or combined
- Process water by upcycling of effluents
- Heat recovery from waste water

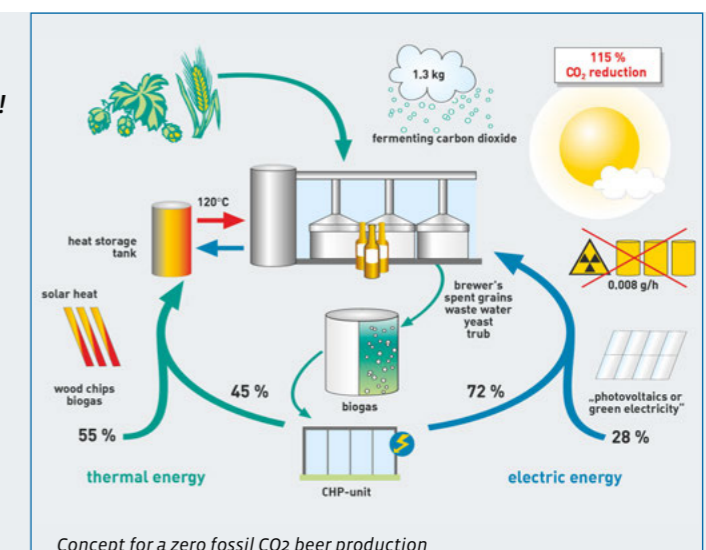
The Green Brewery – how to manage a zero fossil CO₂ beer production!

Input: 24 t spent grains, trub, surplus yeast

Output: 3.400 m³ biogas (60 vol.-% methane)
73.000 MJ gross energy
(resp. 2.000 l fuel oil)

Option: Biogas out of waste water
10.000 MJ gross energy (resp. 270 l fuel oil)

Key figures:
Production of 1.000 hl sales beer
90.000 MJ demand on thermal energy:



Concept for a zero fossil CO₂ beer production

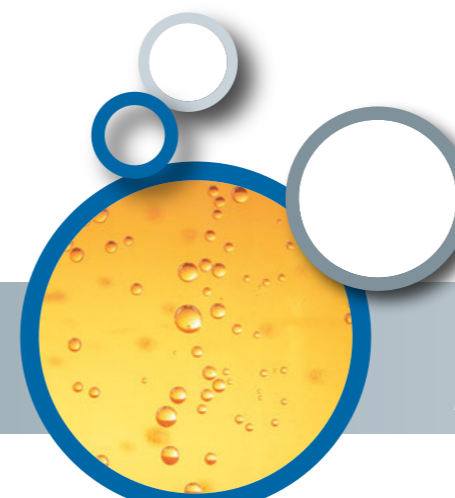
Biogas out of brewer's spent grains provides*

- 70 % of the electric energy demand
- 40 % of the thermal energy demand

*by combusting biogas in a combined
heat and power unit (CHP)



Manufacturer independent design
Tailor made concepts
International



Interdisciplinary team
Laboratory on demand and R&D
Mobile laboratory equipment