



# Repowering = Higher Efficiency



## Repowering by Alensys

Alensys Engineering GmbH repowers own Biogas Power Plants and Biogas Power Plants of other suppliers according to our expert experience and in sync with client ideas and specifications. We optimize, modernize and redesign all kinds of Biogas Power Plants, bring them up to an industrial level and optimize or expand Anaerobic Digestion Plants and Biomethane Power Plants based on well balanced

commercially and technically concepts.

We have the power and knowledge to develop an ideal for any kind of project and any kind of Biogas Power Plant, which will inspire you massively and which gives you new perspectives. In a suitable packet we put together the best fitting repowering options to increase the profitability and efficiency of your Biogas Power Plant.



## Areas of Repowering

### CONTACT

- Site visit to the plant, examine site conditions, technical requirements and data, evaluate a customer focused concept, ...

### BIOLOGY

- Improvement of nutrient supply and nutrient availability
- Use of process additives (enzymes, microorganism, heavy metals, trace elements, etc.)
- Optimized organic load of digesting systems
- Use of simple process booster (acids, alkalis, temperature, etc.), ...

### ORGANISATION

- Logistics concepts
- Adaption of inputs and improvement of the process feeding
- Training and further education, ...

### TECHNOLOGY

- Enlargement of the digester volume
- Improvement and upgrading of the input pre-treatment
- Perfection of the process feeding section
- Improvement and upgrading of mixing and agitator technology
- Enlargement and/or renewal of the CHP-technology
- Enlargement and redesign of the biogas storage systems
- Loss reduction (e.g. internal current consumption, internal heat consumption, methane emissions)
- Improvement and upgrading of the measurement and control system
- Biogas to Biomethane (conversion process)



## Benefit for Clients

Lots of Biogas Power Plants not operating at their maximum capacity. This has an enormous impact and negative effects on the feasibility of the Biogas Power Plant. Repowering provides clients

focused technical and biological advice and solutions to optimise the plant performance and to increase the reliability and efficiency.



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