



New Mixing Technology – “Kreis-Dissolver”

Planning
Construction
Start-up
Operation
Service



Acceleration of the gas production

With this new mixing technology operators of biogas plants can clearly accelerate their gas production and thereby achieve higher gas yield. In direct comparison with a conventional biogas plant, equipped with a rota-cut grinder, the plant equipped with a Kreis-Dissolver delivers additional earnings of 9% on average while hardly increasing its own requirements for electricity (3.89%) by comparison with a conventional plant (3.87%).

A rotary cutter shreds the input material in the Kreis-Dissolver

In the interior of the system that resembles a food processor, a high-speed rotary cutter very thoroughly shreds the input material. Corn kernels completely break up after around two minutes mixing time and form a homogeneous mass, whereby the cell content material is immediately available for biogas production. The optimal feed-in of the materials is guaranteed by using a weighing system which is PC controlled.

Advantages for the biogas plant operator

- + Achieving higher gas yields by reducing substrate
- + Higher fermenter utilization due to shorter retention times
- + Saving of agitator power in the fermenter
- + Better control of the fermenter through rapid gas availability
- + Stable plant operation and therefore lower gas losses and higher CHP utilization
- + Minimization of settling in the fermenter

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