

SUBSTRATE OPTIMIZATION WITH SUPRAJET

More value from your biogas plant

With our innovative Suprajet technology, you get the maximum out of your biogas plant. The Suprajet unit uses cavitation effects to further split up the fermentation substrate. The resulting forces are large enough to breach the cell membranes in the plant portion of the substrate.

After having been treated this way, the substrate releases a higher amount of nutrients

with larger particle surfaces, so that it can be converted quicker into biogas by the microorganisms in the plant. As a result, more biogas can be produced from the same amount of substrate, or less substrate can be used to produce the same amount of biogas.



Benefits

- More biogas from the same amount of substrate
- Faster biogas production
- High energy efficiency
- Improved viscosity (easier to stir)

Untreated substrate



Treated substrate



BENEFITS FOR YOUR BIOGAS PLANT

More biogas + same amount of substrate || Less substrate + same amount of biogas

- Longer retention time
- Reduced supply runtimes – labour, machine, power, substrate costs
- Reduced matter transport in BGP – pump runtime
- Reduced fermentation residues – disposal cost

Faster availability of fresh matter || Reduced specific energy consumption

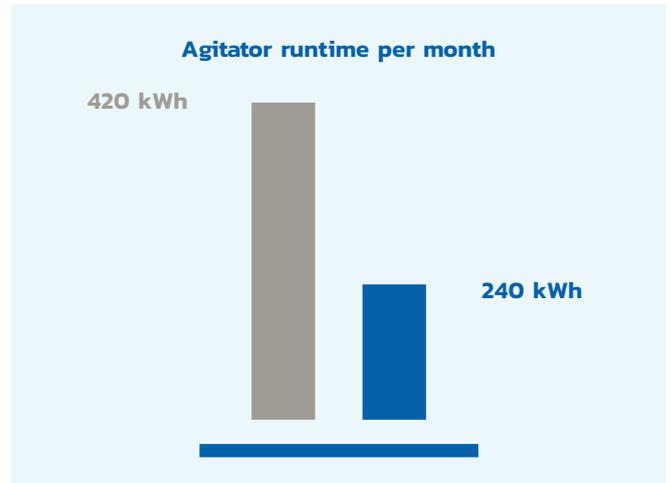
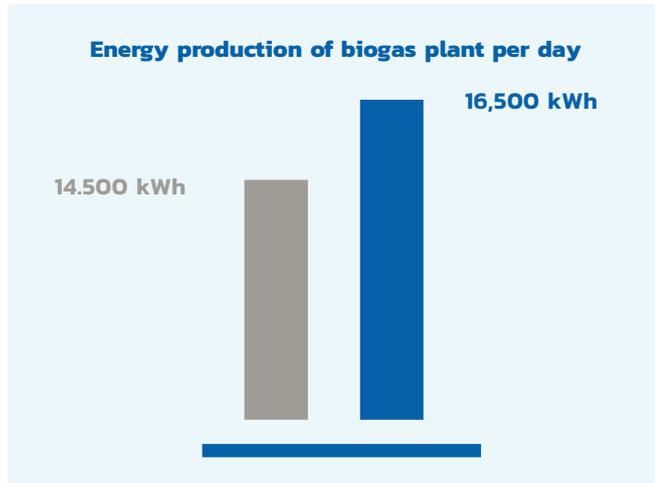
- Easier to stir – agitators use less power
- Improved flow characteristics – process pumps use less power

Less wear due to upstream wet chopper

- Protection of machines from foreign particles
- Machine wear limited to conveyor units
- Less wear compared with alternative dissolution methods (extrusion, hammer mills, turbo crushers)

Return on investment after 2 to 3 years

- More volume, or less mass
- Faster availability of fresh matter
- Easier to stir



■ With Suprajel ■ Untreated

15%

Increase

50%

Decrease

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