



PRODUCE FUEL NOW WITH YOUR OWN FILLING STATION AND SECURE THG CERTIFICATES

BioCNG is purified biogas that is compressed to 250 bar. This is used in all commercially available CNG vehicles.

And this is how it works:

A partial flow of around 10 to 20 % of the biogas produced is taken from the biogas plant, then purified, compressed and separated into CO₂ and CH₄ via a membrane, then compressed to 250 bar and stored in pressurised cylinders. The BioCNG is then delivered to CNG vehicles via a tank system. The offgas with approx. 82 % CO₂ and 18 % CH₄ is fed back into the gas flow to the biogas engine.

DATA AND FACTS:

Sizes: 35, 65 or 100 m³ biogas/h

- A membrane stage achieves a CH₄ content of 95 to 98 %
- The off-gas then still has a CH₄ content of 15 to 20 %
- A biogas extraction of 10 % reduces the CH₄ content by 4 %
- An 800 litre cylinder package stores 200 m³ or 140 kg of CH₄ at 250 bar.
- Approx. 1/3, i.e. approx. 49 kg per refuelling, which corresponds to 64 litres of diesel
- 1 kg of CNG has the same energy content as 1.5 litres of fuel or 1.3 litres of diesel
- Own energy consumption with CNG 10 %



TYP	T35	T65	T100
Biogas volume m ³ /h	35	65	100
CH ₄ m ³ /h at 52 % CH ₄	18,2	33,8	52
CH ₄ in offgas 18 %	6,3	11,7	18
CH ₄ m ³ /h for CNG	11,9	22,1	34
CNG kg/h 96 %	8,9	16,5	25,4
CNG kg/day	213	396	609
CNG kg/year	77 324	143 602	220 926
Fuel l/year	100 521	186 683	287 204

Solutions for green energy

We are your partner for converting field residues into a valuable raw material. From harvesting to dosing, processing, foreign matter separation, conveyor technology, control and electrics, we supply interface-free complete systems including CE certification and risk analysis.



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FUEL MADE FROM STRAW AND MANURE



BIO FUELS

BioCNG FILLING STATION





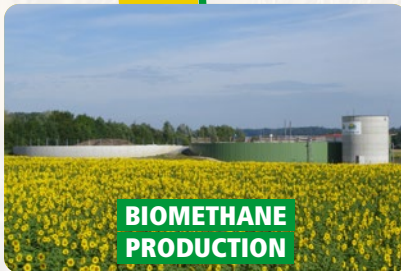
Food
Feeding stuff
Industry



Organic waste from
industry and agriculture

ENERGY FROM FIELD RESIDUES IN THE CYCLE OF NATURE

Whether manure, straw, gardening material or organic waste – BioG has the right technical and biological solution to convert these residues into valuable raw materials.



Gas distribution system
Power

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