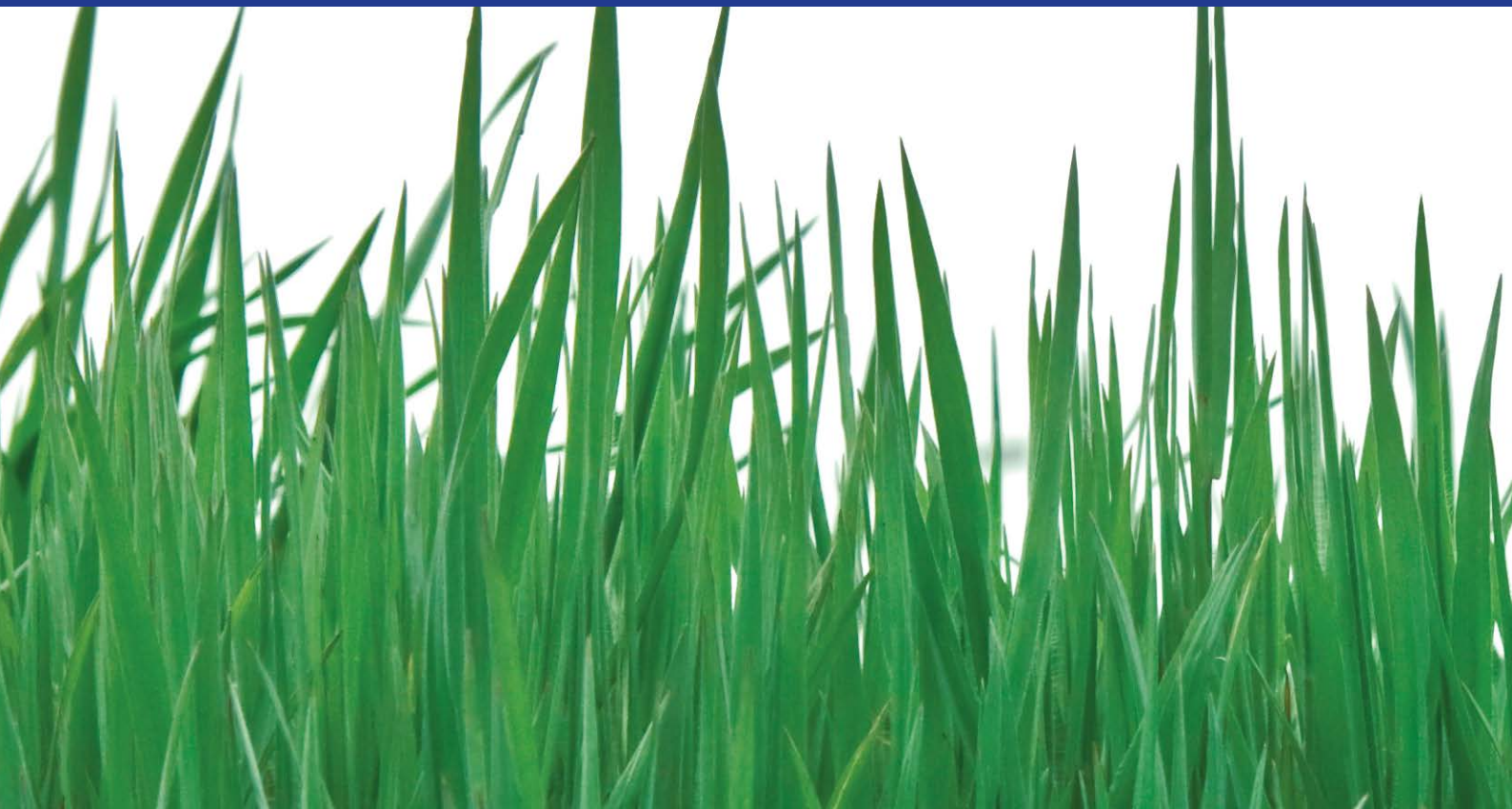


PRODUCE YOUR OWN FERTILISER WHILE REDUCING EMISSIONS.

GEA ProManure E2950 - Manure Enricher:
a revolutionary environmentally friendly
manure processing solution.

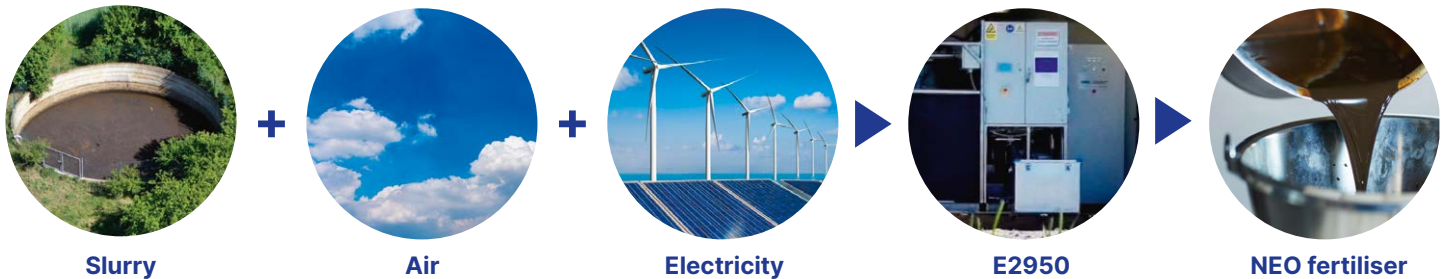


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CREATE A HIGH QUALITY FERTILISER USING LIVESTOCK SLURRY, AIR & ELECTRICITY

A solution that enables local production of fertiliser using only livestock slurry, air and electricity – dramatically reducing harmful emissions and improving yield at the same time. The technology adds nitrogen from the air into slurry, which increases the nitrogen content. The reaction prevents the loss of ammonia and eliminates methane emissions, making it a real solution helping to achieve climate target commitments on an industrial scale.



NEO fertiliser (nitrogen enriched organic)

The end-product is a nitrogen enriched organic fertiliser (NEO), which has the same characteristics as normal slurry, but contains more nitrogen and significantly less emissions. It can still be spread using existing farm equipment, enabling farmers to improve their own food production, reduce the need for chemical fertiliser, and make farming more circular.

Technical specifications

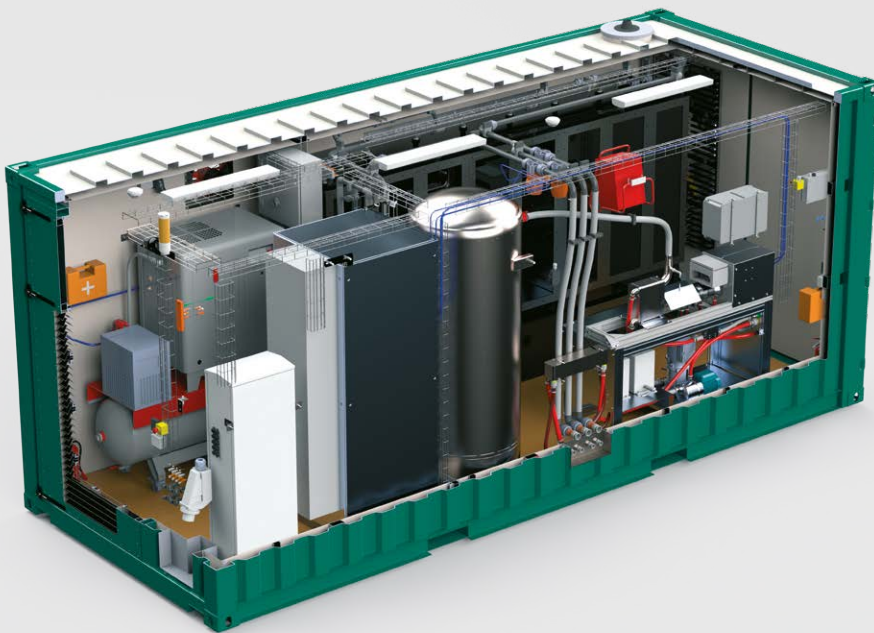
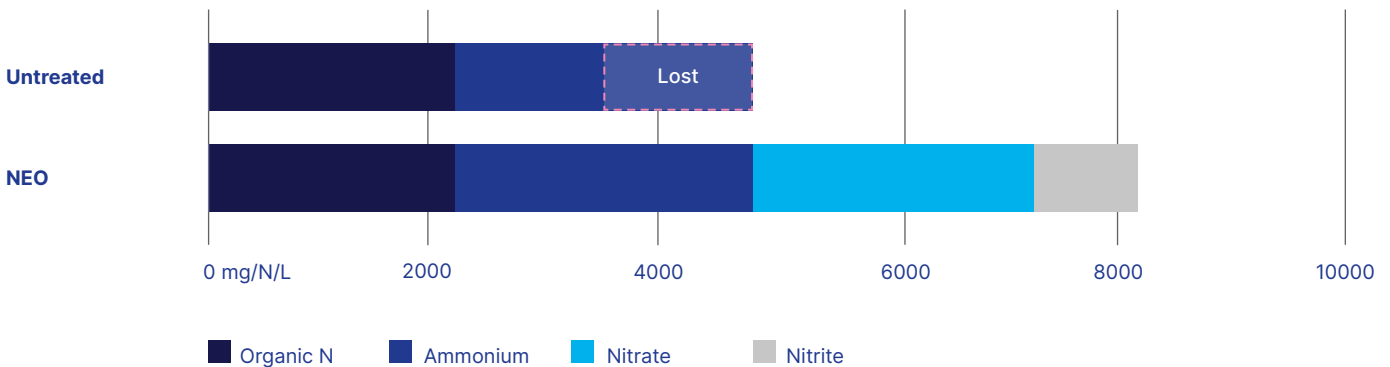
Description	Value
Max plasma output power	50 kW
Power consumption range	20 - 50 kW
Supply voltage	400 V / 3 Phase
Operating temperature	0 - 30 °C
Design standards	2014/35/EU 2006/42/EC EN60204-1 IEC60519-6
Maximum particle size	3 mm
Maximum dry matter content	7 %
Operating temperature	-15 - 55 °C
pH range of input product	6 - 9
pH range of output product (customized)	5 - 6

How the Manure Enricher Unit works

1. In the first step, an electrical charge splits nitrogen and oxygen molecules from air, forming nitrogen oxides.
2. In the second step, the nitrogen-rich air is absorbed into the liquid organic waste, such as slurry or biogas digestate.

This two-step process 'locks-in' the ammonia, eliminates methane emissions, and creates a sustainable and low-emission fertiliser that makes use of local renewable resources.

Nitrogen compounds



Delivered as a complete system.
In a compact container the E2950 turns slurry into nitrogen enriched organic fertiliser (NEO)



30 %

Can reduce global GHG emissions from agriculture by 30 %.



40 %

Demonstrated average yield increase by 40 %.



50 %

Cuts air pollution from agriculture by 50 %.



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