



GreenSwitch®



Innovation Awards
Winner!



GreenSwitch® Nitrate

The first liquid Nitrate fertilizer from organic source
for high-tech greenhouse and open field fertigation

www.vaniperen.com

Follow us




VAN IPEREN®
LET'S MAKE THE GREEN SWITCH

GreenSwitch®, fertilizing a green future!



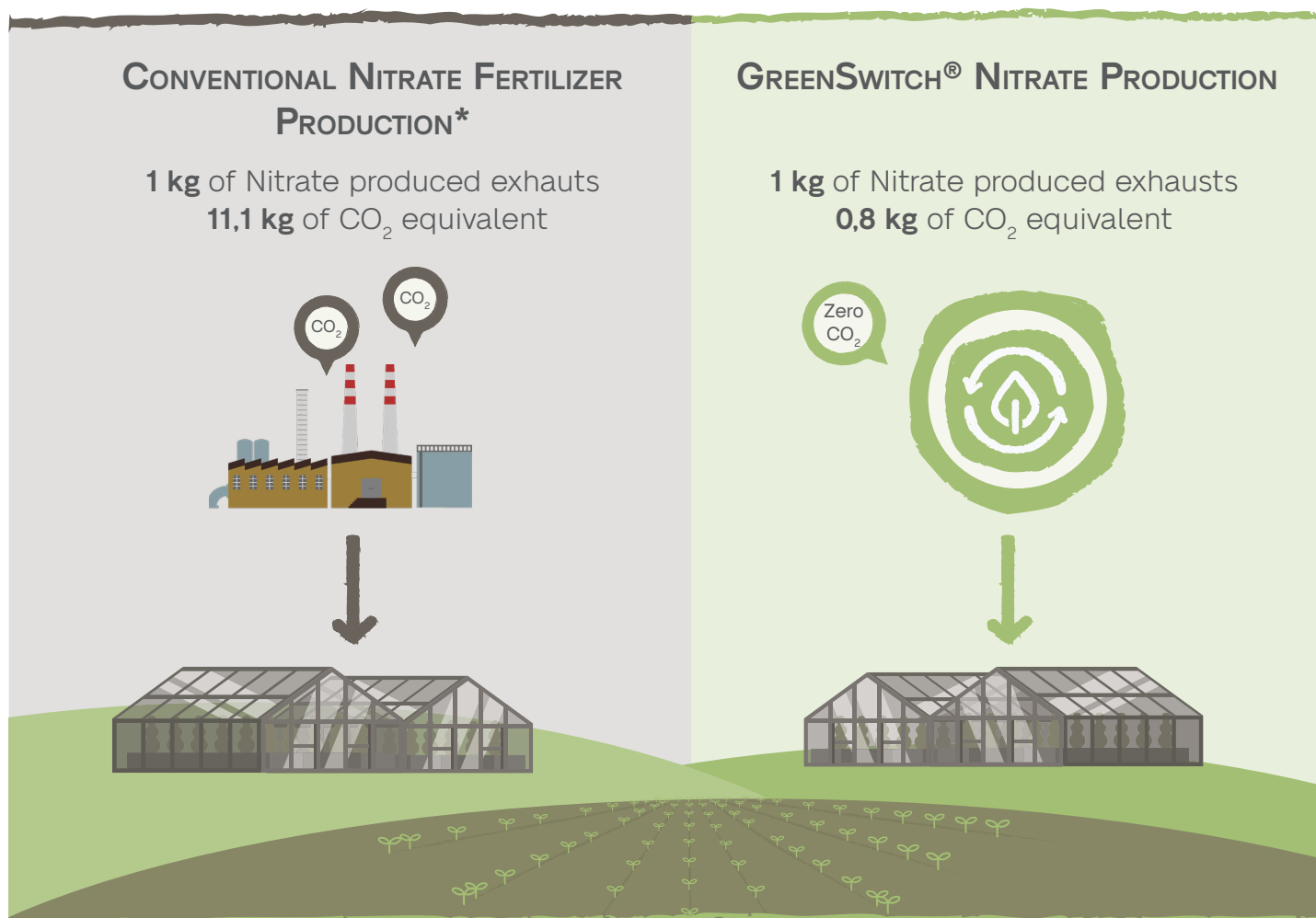
GreenSwitch®

At Van Iperen International, we are glad to introduce GreenSwitch®, our innovative range of fertilizers to address agricultural challenges that modern agriculture faces today. GreenSwitch® opens a new horizon for more sustainable agriculture and precision crop nutrition.

The first group of products on the market is belonging to GreenSwitch® Nitrate. The world-first patented process based on Pure Green Agriculture technology turning manure into pure and transparent Nitrate fertilizers for the high-tech greenhouse sector and open-field fertigation. The first product available is GreenSwitch® Original, a Potassium Nitrate solution 2 - 0 - 7.

How GreenSwitch® Nitrate works

GreenSwitch® Nitrate has a totally new approach by producing Nitrate from manure. In this process, the energy consumption is reduced by more than 90% compared to conventional Nitrate fertilizer production and the Carbon Footprint of the production process of Nitrate is negligible.



* source: ecoinvent.org

What makes GreenSwitch® Nitrate sustainable?



FACT: The synthetic N fertiliser supply chain was responsible for estimated emissions of 1.13 GtCO₂eq in 2018, representing 10.6% of agricultural emissions and 2.1% of global GreenHouse Gas (ghg) emissions.

GreenSwitch® Nitrate production process has been proven* to be close to zero Carbon footprint. By applying GreenSwitch® Original, growers reduce the CO₂ impact of their activity.

Source: - www.nature.com/articles/s41598-022-18773-w

- www.nationaleco2markt.nl/wp-content/uploads/2020/08/methode-GreenSwitch.pdf



FACT: Circular agriculture means to close the loops and use waste products from agriculture as input for other crops.

GreenSwitch® Nitrate captures Nitrogen out of manure to produce a high value Nitrate solution. We call this up-cycling.



FACT: Agriculture is responsible for most (94%) of the Ammonia (NH₃) emissions in the European Union.

By applying GreenSwitch® Technology the volatilization of Ammonia is null.

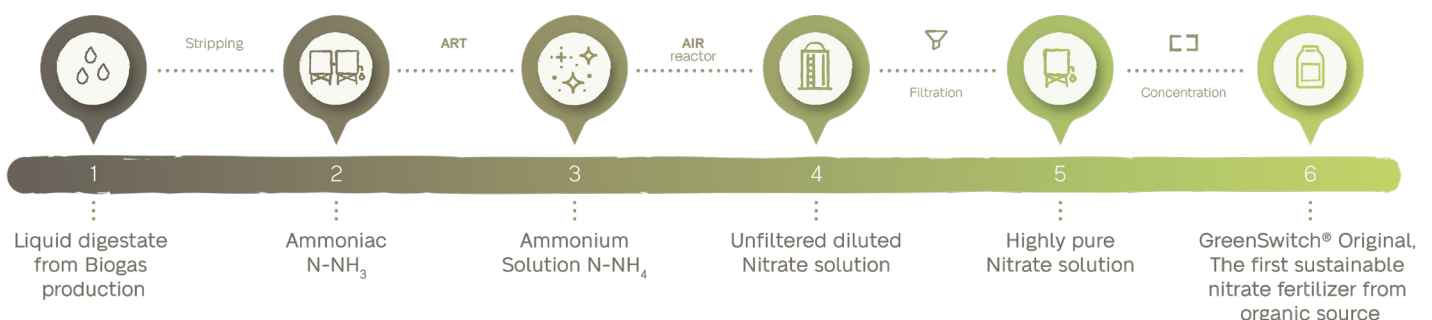
Source: - www.eea.europa.eu/publications/lrtap-1990-2019

The GreenSwitch® Nitrate factory



The GreenSwitch® Nitrate factory is located at the Biogas installation AgroEnergie Hardenberg (The Netherlands). This facility is a state-of-the-art biogas producer, in which green energy production is now combined with our green nitrate production. A true partnership that opens new opportunities also at other biogas installations elsewhere

in the world. The GreenSwitch® system is flexible and highly customized. To understand better GreenSwitch® Nitrate process, here's a visual description of all steps:



GreenSwitch® Ambassadors



Hoogeveen Plants aims to be fully climate-neutral by 2030. For it, they've integrated GreenSwitch® Original into their fertilization program.

"After several months of use, we are satisfied with the use of GreenSwitch® Original and moreover, it contributes to reduce our CO₂ footprint"

Eduard Pos,
Crop Manager at Hoogeveen Plants, The Netherlands

GreenSwitch® Original HG

GreenSwitch® Original HG is the first liquid Nitrate fertilizer from organic source, allowing growers to reduce their carbon footprint without changing their cropping system. GreenSwitch® Original is a 2 - 0 - 7 formulation pure and transparent for high-tech greenhouse and open field fertigation. It is produced in our factory in the Netherlands using a proven close to zero Carbon footprint production process certified by the SNK (Stichting Nationale Koolstofmarkt) following the Paris agreement (COP 21).

- 🌱 The first liquid Nitrate fertilizer from organic source
- 🌱 Nitrogen directly available and assimilable by the crop
- 🌱 Patented, close to zero carbon footprint Nitrate production process
- 🌱 Developed for open field, pot production and soilless application
- 🌱 Guaranteed free of pathogens and organic contamination



Composition

Nitric Nitrogen (NO ₃)	2%
Potassium Oxide (K ₂ O)	7%

Packaging



Van Iperen International B.V.

Smidsweg 24 | 3273 LK WESTMAAS | The Netherlands

T +31 (0)186-578888 | info@iperen.com | www.vaniperen.com

VAN IPEREN®
LET'S MAKE THE GREEN SWITCH