



Knowledge grows

Improving productivity
needn't cost the Earth.



Using quality nitrate fertilisers from Yara can help reduce your carbon footprint.



YaraLiva™

Fresher, tastier and long-lasting produce

YaraLiva calcium nitrate fertilisers deliver a rich source of fast-acting, plant available nitrogen and strength-building calcium and boron for improved fruit set, fruit quality and marketable yield. It features unique coating technology that resists moisture absorption during storage and handling yet dissolves readily on contact with the soil in humid conditions or night dew.

- Free-flowing granular formulations for spreading
- Low risk of crop scorching



YaraMila™

The precise balance

YaraMila compound NPK fertilisers deliver a precise balance of plant-available nitrogen, phosphorus, potassium and micronutrients in a single prill. Produced from high quality ingredients and using some of the world's most energy-efficient processes, these premium quality fertilisers help to produce healthier crops, higher yields and optimal quality whilst minimising nutrient losses.

- Premium quality compound NPK fertilisers
- Prill formulation with uniform small particle size and strength for even distribution
- Excellent spreading characteristics and accurate application
- Balanced mix of macro and micronutrients for optimum plant health and growth
- Safe to use on sensitive crops (chloride free)



YaraRega™

The top drop for fertigation

YaraRega water-soluble NPK compound fertilisers are developed specifically for delivery via simple irrigation systems or broadcast before irrigation or rainfall. Produced from high quality ingredients and using some of the world's most energy-efficient processes, these premium fertilisers feature a special coating that protects the granules during handling and storage yet dissolves readily in water.

- Premium water-soluble compound NPK fertilisers
- Granular formulation with special coating for improved handling and rapid dissolution
- Suitable for fertigation or dry application
- Low level of insolubles (<1%)
- Balanced mix of nutrients for optimum plant health and growth



YaraTera™ CALCINIT™

Grow more with each drop

YaraTera CALCINIT is a water-soluble calcium nitrate fertiliser that is ideal for application through fertigation systems, drip systems, low throw sprinklers, centre pivots and spray units. Made to exacting standards by Yara, it delivers a rich source of fast-acting, plant-available nitrogen and strength-building calcium for fresher, tastier and long-lasting fruit and vegetables.

- Suitable for a wide range of crops
- Manage nutrients and water simultaneously for maximum crop yield and quality
- High quality ingredients
- Easy-to-mix, free-flowing and dust-free formulations



We're committed to becoming carbon neutral by 2050.

Agriculture is responsible for about a quarter of global greenhouse gas emissions. About half of these emissions come from land use change, particularly turning forests and wetlands into farmland. Emissions from the production and use of nitrogen fertiliser amount to less than 2% of total emissions. As one of the world's leading manufacturers of nitrogen fertilisers, Yara is committed to becoming carbon neutral by 2050. We've already reduced the carbon footprint of our nitrate fertiliser production by 40% by making our production plants and processes among the most energy-efficient in the world. Our ongoing development of 'green' ammonia technology and climate-smart agricultural practices means we're on track to reduce emissions by another 30% by 2030.

Fertiliser production

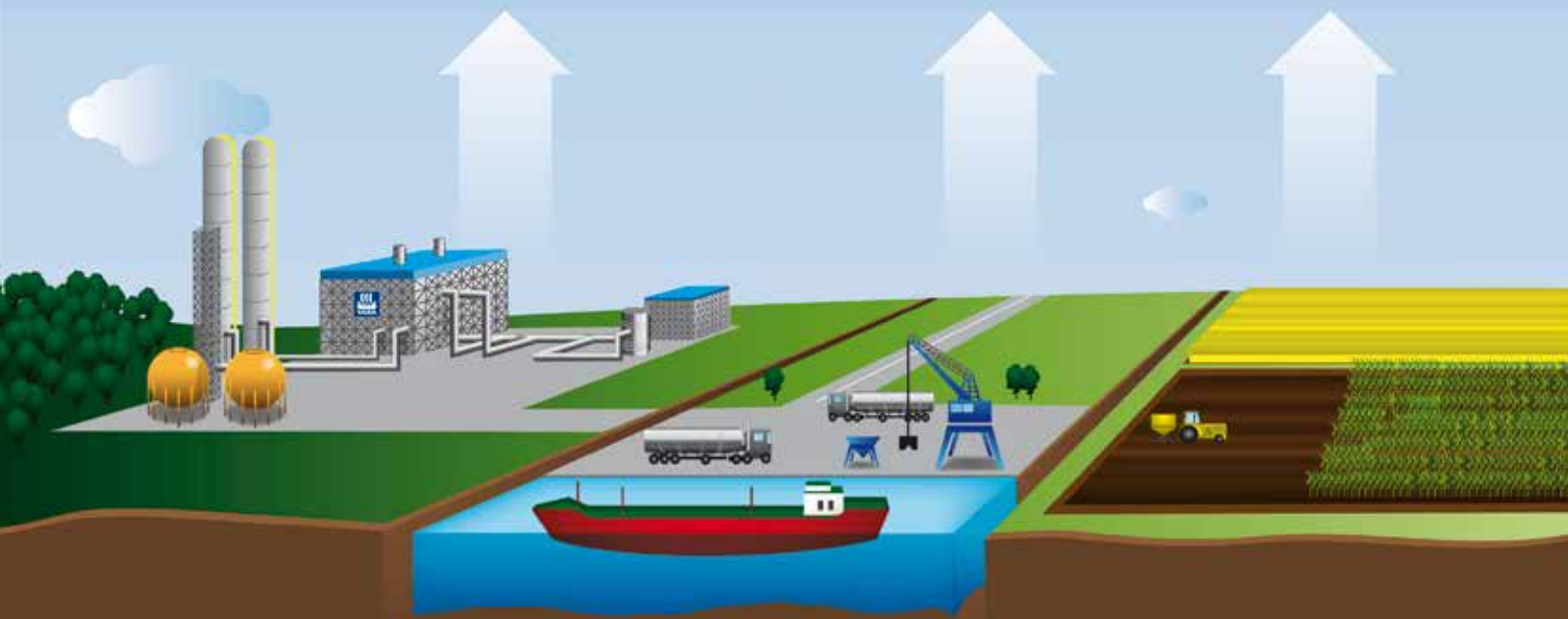
Yara's nitric acid plants are among the most efficient in the world via its development and adoption of advanced catalyst technology. The carbon footprint of urea production in Russia and China, is estimated to be 25% and 126% higher, respectively, than in Europe.^{1,2} Likewise, the carbon footprint for NPK fertilisers produced in Russia and China are estimated to be 72% and 141% higher, respectively, than in Europe.^{1,2} Yara is at the forefront of the development of 'green' ammonia technology (see below).

Transportation

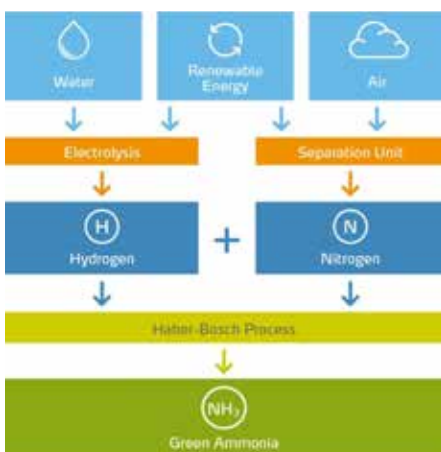
Six of Yara's production plants in Europe produce fertilisers with the Carbon Footprint Guarantee. This low-carbon fertiliser is transported by road, rail or sea to farmers throughout Europe and the world. Yara is continuing to optimise its logistics chain from its production sites to farmers throughout the world to minimise greenhouse gas emissions associated with transportation.

Fertiliser use

Nitrogen, whether from organic sources, mineral fertiliser or present in the soil, is taken up by plants, incorporated in the soil or lost to water or to the air. While average emissions from use of mineral fertilisers equal 5.6 kg CO₂ equivalent per kg nitrogen, the adoption of best practice application of low-carbon fertiliser will reduce them. Yara is committed to the development and adoption of innovative tools and climate-smart agricultural practices to maximise the efficiency of fertiliser application.



References: 1. Brentrup, F., et al. (2018). Updated carbon footprint values for mineral fertilizer from different world regions. 11th International Conference on Life Cycle Assessment of Food 2018 (LCA Food) 17-19 October 2018, Bangkok, Thailand. 2. Hoxha, A. & Christensen, B. (2018). The carbon footprint of fertiliser production: Regional reference values. Proceedings 805. International Fertiliser Society Conference 8 May 2018, Prague, Czech Republic.



'Green' ammonia technology

Ammonia is one of the world's most widely-produced chemical commodities, with more than 180 million tonnes produced globally every year. Renewable hydrogen, a precursor to the production of ammonia, is seen as one of the most promising fuels for decarbonising emissions associated with power generation and shipping. Renewable hydrogen is produced using hydrogen obtained through the electrolysis of water and nitrogen obtained from the air using renewable energy sources. In turn, this hydrogen can be used in the manufacture of 'green' ammonia, an intermediary chemical used in the production of urea, nitrogen-phosphorus-potassium (NPK) compound fertilisers and explosives. The Australian government has recently awarded Yara Pilbara and ENGIE, a global low-carbon energy and services group, a \$42.5 million grant to build one of the world's first industrial-scale renewable hydrogen production operations right here in Australia. Scheduled for completion in 2023, the plant will produce up to 625 tons of renewable hydrogen and 3,700 tons of 'green' ammonia per year.

Watch video:



Biomass production

Plants capture large amounts of CO₂ during growth. The correct use and timing of fertiliser application can increase biomass production in plants by up to five times compared to fields that are not fertilised. Increased biomass production will increase the level of CO₂ fixation. Integrated crop nutrition solutions from Yara help to maximise the efficiency of fertiliser application, thereby increasing biomass production and CO₂ uptake per ha.

Biomass consumption

Most biomass from agriculture is consumed as food or feed, meaning CO₂ fixation in plants is only short-term and cannot be considered a mitigating effect on a global scale. However, replacing fossil fuels with bioenergy can – if carefully managed – reduce CO₂ emissions by up to 80%. Optimising the efficiency of food and feed production via integrated crop nutrition solutions, innovative tools and climate-smart agricultural practices, will help to free up more land for bioenergy production whilst ensuring food security.

Forest and wetland

Forests and wetlands store up to eight times more CO₂ than farm land. Deforestation and conversion of wetland to farmland releases this additional CO₂. In fact, land use change for agriculture is responsible for about 12% of global greenhouse gas emissions. More food must be grown on the existing cropland to reduce agriculture's contribution to global warming. Increasing the productivity of existing farmland helps to reduce pressure for further land-use change.



Local initiatives to reduce our carbon footprint

In Australia, Yara is committed to a range of other initiatives that support environmental sustainability, including its partnership of the Big Bag Recovery and drumMUSTER programs. Working in partnership with manufacturers, industry associations and local councils, the Big Bag Recovery program aims to collect, recycle or dispose of polypropylene and polyethylene bags that are commonly used to store fertiliser and stockfeed. drumMUSTER is the national program for the collection and recycling of eligible non-returnable crop production and animal health product chemical containers. YaraVita fertilisers are packaged in 10 litre 'A Pack' fully recyclable polyethylene bottles, including the labels and caps.



About Yara

Yara grows knowledge to responsibly feed the world and protect the planet. Supporting our vision of a world without hunger and a planet respected, we pursue a strategy of sustainable value growth, promoting climate-friendly crop nutrition and zero-emission energy solutions. Yara's ambition is focused on growing a climate positive food future that creates value for our customers, shareholders and society at large and delivers a more sustainable food value chain.

To achieve our ambition, we have taken the lead in developing digital farming tools for precision farming, and work closely with partners throughout the food value chain to improve the efficiency and sustainability of food production. Through our focus on clean ammonia production, we aim to enable the hydrogen economy, driving a green transition of shipping, fertilizer production and other energy intensive industries.

Founded in 1905 to solve the emerging famine in Europe, Yara has established a unique position as the industry's only global crop nutrition company. We operate an integrated business model with around 17,000 employees and operations in over 60 countries, with a proven track record of strong returns. In 2020, Yara reported revenues of USD 11.6 billion.



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