

Introducing



FuelPositive[®]

Fuel For A Mindful World

*A green pathway to stable fertilizer costs
and improved margins for farmers*



A New Era in Agriculture

Across Canada, farmers are grappling with rising fertilizer costs, supply chain delays, unpredictable global markets, and increasing climate pressures. At the same time, the demand for reliable, sustainable food production has never been greater.

The world needs the contributions of farmers; farmers need stability, cost certainty, and inputs they can count on.

FuelPositive's on-farm, green ammonia production system delivers exactly that. It gives farmers the power to produce their own nitrogen fertilizer on-site, using clean renewable energy.

And now, after four years of development, the company is preparing to complete the commissioning of its first full demonstration system on an 11,000-acre mixed grain farm near Sperling, Manitoba. The equipment is in place, and many millions of dollars have already been invested.

FuelPositive is advancing a rare opportunity to help transform a foundational sector of the Canadian economy, while positioning farmers for significant on-farm returns.

FuelPositive trades on the TSX Venture Exchange in Canada under the symbol NHHH, and on the OTCQB in the USA under the symbol NHHHF.





The Problems We Are Solving:

The Lack of Stability, Certainty, and Control

Farmers are essential to our food system and to our economy. Yet they are at the mercy of:

Unpredictable fertilizer prices

Nitrogen fertilizer (especially anhydrous ammonia) is often a farmer's single most expensive input. Prices can fluctuate dramatically based on global events, energy markets, transportation disruptions, and geopolitical tensions.

Fragile supply chains

Farmers face the ongoing challenge of inconsistent supply chains, often not having the fertilizer they need at critical times. Even short delays can affect yields and income.

Rising stress

Uncertainty around input prices and availability is one of the greatest sources of stress for farmers.

A huge carbon footprint

Conventional ammonia is one of the most carbon-emitting industrial products on the planet. It is produced at refinery scale using fossil fuels, then shipped across continents before reaching the farmers who need it. On-farm green ammonia will be welcomed by a food-production sector that views itself as a positive contributor to mitigating the negative impacts of climate change.

The Solution:

An On-farm Green Ammonia Production System

FuelPositive's founding vision began at Ontario Tech University, where a research team succeeded in miniaturizing the historically massive, carbon-intensive ammonia production process into a compact, efficient system.

What once required refinery-scale infrastructure could now fit inside a farm-scale system.

Luna and Ian Clifford saw the agricultural and energy potential immediately and formed FuelPositive to explore and advance this essential technology.

While the historical science related to the production of conventional ammonia is well-established and in the public domain, **the process to develop miniaturized on-farm production capacity is novel and well-protected by FuelPositive's patents.**

How it Works:

The Technology in Brief

The system needs only three basic inputs:

- Air – which contains nitrogen.
- Water – which provides hydrogen.
- Electricity – renewable, in order to produce green ammonia (like Manitoba's hydro grid or on-farm solar/wind/geothermal).

The system separates nitrogen (N) from the air (air is composed of 78% nitrogen). The FuelPositive system uses specialized equipment to separate the nitrogen from the other gases and collect it in a usable form.

Using an electrolyzer, the system splits water molecules

(H₂O) into hydrogen (H₂) and oxygen (O₂) using clean electricity.

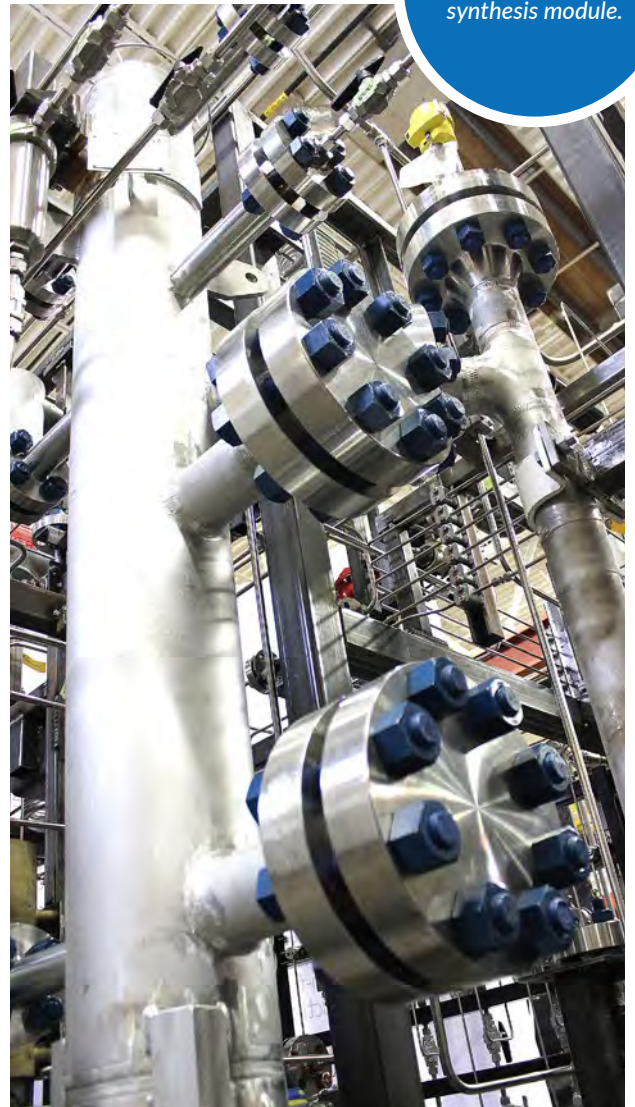
The nitrogen and hydrogen are then fed into a catalyst chamber, where the gases react to form ammonia (NH₃); the oxygen is stored and used for other purposes.

FuelPositive has taken a chemical process traditionally done in huge, fossil-fuel-driven industrial facilities and engineered it into a compact, efficient system that can operate right on the farm.

FuelPositive's on-farm system continuously produces ammonia safely and at a scale that meets a farm's nitrogen fertilizer needs.

An up-close view of the ammonia synthesis module.

The demonstration site at R&L Acres. Once fully commissioned, FuelPositive's FP300 on-farm system will produce 100 tonnes of NH₃ per year. The larger commercial-scale FP1500 system will produce 500 tonnes of NH₃ per year.



How Farmers Benefit

- **Stable supply.** Fertilizer is available when it's needed, without reliance on global markets, volatile supply chains, and local availability.
- **Stable cost.** Farmers always know the exact cost per tonne.
- **The end product is the same as what they already use.** Farmers who have applied anhydrous ammonia for decades can continue as they always have.
- **In parallel, FuelPositive is developing an aqueous ammonia pathway** as part of its broader technology platform, offering a future option for farmers who prefer liquid nitrogen products with familiar handling and application methods, while maintaining on-farm production and cost certainty.
- **Long-lasting equipment.** The FuelPositive on-farm infrastructure is designed for 30+ years of service. And, because of its modular design, it is easy to upgrade as FuelPositive improves on its technology.
- **A tool for succession planning.** The FuelPositive on-farm system gives multi-generational farms reliable, predictable input costs and supply far into the future, making it easier to keep the farm in the family for generations to come.

For younger farmers in particular, leasing or owning a FuelPositive system can provide the security needed to take on additional land, invest in equipment, and build a profitable operation.



“We first heard about the concept of producing anhydrous ammonia from air and water 20 years ago and have been curious about the science ever since. When we heard that FuelPositive was operationalizing the concept at farm level, and saw the system being tested in Ontario, we were willing to offer our farm as a demonstration site. **The promise of this system is as a reliable supply of fertilizer at a lower cost per tonne compared to commercially purchased product.** And it's a fixed cost. Farmers like us need cost and supply certainty to manage our businesses optimally and improve our margins. That is the promise of FuelPositive. The fact that the system will let us disconnect further from fossil fuels and market fluctuations is an important bonus.”

Tracy and Curtis Hiebert
R&L Acres, Sperling, Manitoba
(demonstration site for FuelPositive)



Why Now?:

A Perfect Moment for Disruption

Input costs are high and volatile

Fertilizer pricing shocks from global conflict, shipping disruptions, and market volatility have hit farmers hard. A stable, on-farm system eliminates these swings permanently.

Supply chains are fragile

The pandemic exposed how easily global systems can break. Farmers are seeking to make their operations more resilient to interruptions beyond their control.

Clean power use is growing

In Manitoba, Quebec, and British Columbia, the grids are already mainly renewable because of hydroelectricity, allowing the production of carbon-free green ammonia today. Additionally, many farmers have already installed wind and solar power systems; many others are considering doing the same. The numbers are expected to rise.¹

Farmers want independence

FuelPositive provides stability and peace of mind which are priceless to Canadian producers, especially in uncertain times.

Climate commitments demand real solutions

Agriculture is under pressure to reduce emissions. Conventional ammonia production emits nearly two tonnes of CO₂e for every tonne produced. FuelPositive eliminates those emissions.



“As a University of Manitoba professor and a public servant, my mission is to understand, develop, and promote initiatives that can successfully advance sustainable agriculture in Manitoba. I’m keenly interested in what FuelPositive is doing. **I’m confident that green ammonia can be good for farmers, good for ag, and good for the environment in Manitoba and beyond.** Their science is sound and based on the tried-and-true Haber-Bosch process; and the application of the technology on farm is novel, practical, and amenable to research improvements.”

Dr. Mario Tenuta

Senior Industrial Research Chair in 4R Nutrient Stewardship and Professor of Applied Soil Ecology at the University of Manitoba

¹<https://www150.statcan.gc.ca/n1/pub/96-325-x/2021001/article/00016-eng.htm>

Growing with Farmers

FuelPositive is positioned for major growth:

- A company moving into its commercialization phase in a large, emerging domestic market.
- Potential international expansion, with more markets worldwide seeking carbon-free ammonia solutions.
- A technology platform with multi-generational relevance.
- Potential revenue streams from system sales, leasing, service/optimization, and carbon credits.
- Farmers are looking for ways to manage expenses and build resilience; and the industry is seeking innovation.
- Strong environmental alignment with Canadian and international climate goals.

As global food-security concerns rise and the world demands cleaner production with more resilient supply chains, **FuelPositive is stepping forward with a bold plan backed by established science.**

The company's on-site green ammonia system lets farmers produce ammonia at a lower cost than buying it on the market—especially when powered by low-cost, clean electricity. Just as important, it provides users with rare control over both price and supply, thereby improving financial predictability, operational independence, and long-term stability.



“The brilliance of FuelPositive’s technology is its simplicity and scalability. Every farm can become its own nitrogen producer and reap the business benefits that come with that. Agriculture feeds the world, but today the fertilizer that makes that possible is one of the world’s most polluting products. **This is an industry calling out for innovation in support of business excellence and better environmental stewardship.** FuelPositive delivers exactly that. We look forward to demonstrating the system in real-world farm conditions and completing the next phase on farm.”

Luna and Ian Clifford
Co-Founders, FuelPositive



Scan the QR code to visit
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at fuelpositive.com.





FuelPositive[®]
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Be Part of the Future of Farming

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