



HVO100 IN PROFESSIONAL GROUNDS MANAGEMENT

CO₂ EMISSIONS REDUCTION WITHOUT
OPERATIONAL LIMITATIONS





HVO100 THE DIRECT ROUTE TO EMISSIONS REDUCTION

Decision-makers in the public and private green sector are under significant pressure to meet the 2030 climate targets. The call for an emission-free fleet is strong, but in practice it requires an honest conversation about the ‘productivity gap’.

Full electrification is often presented as the only way forward. However, for heavy-duty and long-duration mowing, this technology currently faces clear limitations. Investment costs are often double those of conventional machines, while limited battery capacity and required charging times can halve daily operational productivity. Add to that the complexity of grid upgrades and charging infrastructure, and the transition risks stalling before it becomes operationally viable.

This creates a paradox: waiting for the ‘ideal’ battery technology means losing valuable years of CO₂ reduction.

HVO100 breaks this deadlock. It provides a drop-in solution that delivers up to 90% CO₂ reduction with the fleet you already operate. It enables you to make an immediate strategic impact and win tenders, without compromising productivity, budget, or operational continuity.

▶ WHAT IS HVO100?

HVO100, or Hydrotreated Vegetable Oil, is a 100% renewable, fossil-free diesel alternative made from waste and residue materials such as used cooking oil. Through a unique hydrotreating process, these certified feedstocks are converted into a clean-burning, efficient fuel that is fully compatible with certified diesel engines – including the powerful engines in our Ferris mowers.

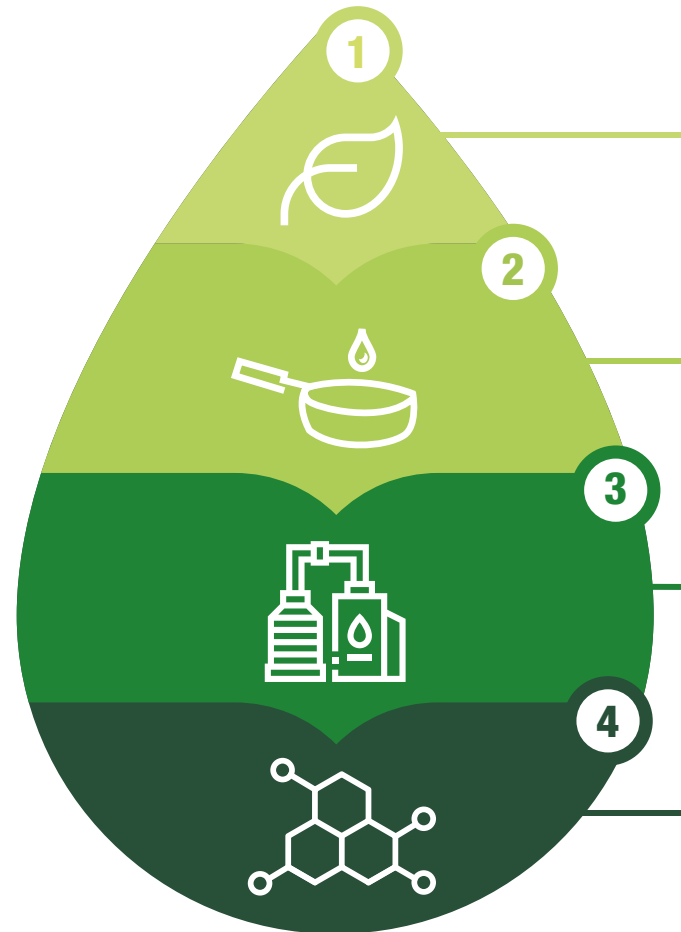


THE BENEFITS OF HVO100

- ▶ **Up to 90% CO₂ reduction**
Reduce your emissions by up to 90% on a well-to-wheel* basis. This significantly lowers your CO₂ footprint across the entire fuel lifecycle.
- ▶ **Seamless integration**
HVO100 is a drop-in solution for Ferris diesel mowers, meaning no modifications or upgrades to the engine are required. It offers a significantly lower investment compared to electric infrastructure. You can implement a sustainable fuel strategy immediately, without technical barriers, while meeting the EN 15940 standard for paraffinic diesel.
- ▶ **Environmentally responsible performance**
The removal of oxygen during the refining process results in a chemically pure fuel, free from biomass components. With up to 30% less particulate matter and lower nitrogen oxide (NOx) emissions, HVO100 not only supports environmental goals but also creates a cleaner working environment, thanks to near odourless combustion.
- ▶ **Ready for all conditions**
HVO100 performs reliably in low temperatures and ensures consistent starting down to -22°C. Its stability over time also makes it suitable for long-term storage.
- ▶ **Reduced ground impact**
Lower operating weight helps prevent soil compaction and turf damage, offering a clear advantage over heavier battery-electric alternatives.

What does well-to-wheel mean?

The well-to-wheel method accounts for all emissions generated during production, transport, and final use in your Ferris mower.



From a green foundation...

Plants absorb CO₂ (carbon dioxide) from the air through photosynthesis; including harmful CO₂ emissions. A win for the environment!

via a natural food-based product...

The raw materials from these plants can be used to produce cooking oils, such as sunflower oil. A win for people!

and recycling at its most efficient...

The waste and residue from these oils are processed through a method known as hydrotreatment, transforming them into a revolutionary, plant-based fuel: HVO. A win for mobility!

to a truly clean diesel alternative!

HVO, or Hydrotreated Vegetable Oil, has the same properties as conventional diesel, but burns significantly cleaner. A win for the environment, people, and mobility!

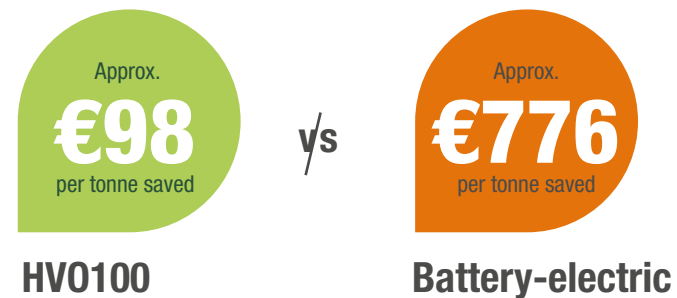


THE ECONOMICS OF SUSTAINABILITY THE BUSINESS CASE

Sustainability is only viable when it makes economic sense. Switching to HVO100 is not an expense, but a strategic allocation of capital that delivers maximum CO₂ reduction at a fraction of the cost of alternative technologies.

▶ **HARD DATA: COST PER TONNE OF CO₂ REDUCTION**

In the professional green sector, the cost efficiency of your chosen emissions reduction strategy is critical. A comparison between HVO100 and battery-electric solutions highlights a significant difference in the investment required per unit of emissions saved:



This means that, with the same budget, HVO100 can deliver nearly eight times more CO₂ reduction compared to switching to electric equipment.*

* Figures: Tool-Fuel Services GmbH, Hamburg

TCO BRIDGING THE PRODUCTIVITY GAP

Total Cost of Ownership (TCO) in electrification is often negatively impacted by the so-called productivity gap. A business case analysis highlights why HVO100 protects fleet profitability:



▶ INVESTMENT (CAPEX)

No capital-intensive investment in new machines or complex charging infrastructure is required. Your existing diesel fleet remains commercially viable.



▶ OPERATIONAL CONTINUITY (OPEX)

No loss of operational hours due to charging times or limited battery capacity. HVO100 delivers a 100% duty cycle: you can mow all day, regardless of workload.



▶ INFRASTRUCTURE

Avoid hidden costs such as grid upgrades or the need for on-site mobile charging solutions.



“At Hilaire Van der Haeghe N.V., we deliberately choose to run our diesel machines on HVO, both in our demo fleet and when delivering to our dealers. It is a simple switch with a clear impact: lower CO₂ emissions, cleaner combustion, and a more comfortable working environment for the operator.”

At the same time, performance and reliability remain at the level we expect. For us, HVO is a logical step towards more sustainable operations, without compromise.”

Tom Nash, Sales & Marketing Manager Hilaire Van der Haeghe N.V.
Ferris Distributor for the BeNeLux



OPERATIONAL IMPLEMENTATION

Switching to HVO100 does not require costly investment in new infrastructure or charging stations. As a drop-in replacement fuel, it integrates seamlessly into your existing operations through three proven scenarios that ensure operational continuity:



▶ 1. ON-SITE STORAGE

By installing your own HVO tank on-site, you benefit from competitive bulk pricing while maintaining full control over fuel management.



▶ 2. NATIONWIDE AVAILABILITY

You can rely on a growing network of fuel stations and suppliers offering HVO100.



▶ 3. OPERATIONAL RELIABILITY

HVO100 can be safely mixed with fossil diesel, with no adverse effects on engine performance, reducing the risk of downtime. Even if HVO100 is temporarily unavailable locally, standard diesel can be refuelled without any impact on engine performance.

With this level of flexibility, you ensure a smooth transition without the logistical challenges associated with alternative energy sources.

Up to
90%
CO₂-reduction



IS® 6200 Diesel Zero Turn



IS® 2600 Diesel Zero Turn



UNIQUE SYNERGY IN SUSTAINABILITY AND PERFORMANCE

Our patented suspension technology delivers exceptional productivity and ride comfort, while HVO100 acts as a catalyst for immediate emissions reduction. The synergy between Ferris diesel mowers and HVO100 creates a strong foundation for future-ready green management.

Optimal alignment between machine and fuel is essential. The ultra-clean combustion of HVO100 protects critical engine components and reduces soot build-up. Ferris acts as your strategic knowledge partner, bridging the gap between advanced machinery and the complex landscape of sustainable fuel standards (EN 15940).

Through our in-depth expertise, we help you understand how technology and sustainability come together in practice, ensuring your organisation stays ahead in a market with increasingly strict demands on emissions and accountability.

▶ TRANSPARENT AND CERTIFIED

HVO100 is supplied by reputable EU fuel providers with full traceability documentation in line with **ISCC** (International Sustainability & Carbon Certification) and the European **RED II Directive**. Each delivery is accompanied by a Proof of Sustainability (PoS), certifying its origin from 100% waste streams and the exact CO₂ reduction achieved.

This certification process eliminates any risk of greenwashing. You receive the documented evidence required to comply with CSR and ESG reporting standards, as well as the CO₂ Performance Ladder certification.

With HVO100, you choose a fuel supply chain that is fully audited from source to tank by independent bodies such as SGS, ensuring maximum integrity.

HVO100 is now a proven standard. As international rail networks scale up their sustainability efforts and airports transition their ground fleets to low-emission operations, the fuel continues to demonstrate its value in heavy-duty road transport. Brands such as Coca-Cola and retailers like Action have already adopted HVO100 across their logistics operations. Royal Mail in the UK also uses it across its diesel fleet.

Choose the fuel that has already proven itself across millions of operating hours in the most demanding sectors.



“Electrification is often seen as the solution for emissions reduction, but in practice there are multiple routes to the same goal. With HVO100, green professionals can significantly reduce their CO₂ emissions today, without changing their workflow or replacing their existing fleet.”

Gerd-Jan Driessen - Business Development Manager EMEA - Ferris

YOUR KNOWLEDGE PARTNER IN THE TRANSITION

At Ferris, we understand that sustainability goes beyond simply choosing a different fuel. It is a strategic shift that requires informed decisions and measurable results. We are not just a machine supplier, but your partner throughout this transition.

Our team supports you with complex procurement challenges, provides the exact data required for your tenders, and helps you calculate your actual CO₂ savings. Together, we enable a sustainable fleet without compromising operational performance.

▶ **READY FOR THE NEXT STEP?**

Get in touch for a strategic consultation or explore the comprehensive HVO100 knowledge base on our website.



WWW.FERRISMOWERS.EU







WORK HARD. FEEL GOOD.

YOUR FERRIS DISTRIBUTOR:

YOUR FERRIS DEALER:

WWW.FERRISMOWERS.EU



BRIGGS & STRATTON NETHERLANDS BV

Schepersweg 4c, 6049 CV Herten

The Netherlands

Tel. +31 (0)475 40 83 83

info.nl@basco.com

2026© BRIGGS & STRATTON. All rights reserved.