

# Case Study: Decarbonisation Partnership Between Lechner Racing and MB Energy

In May 2023, MB Energy and Lechner Racing began a long-term partnership to reduce the carbon footprint of Lechner Racing's logistics operations. This collaboration, initially covering the Porsche Supercup seasons from 2023 to 2025, demonstrates MB Energy's ability to support partners in achieving ambitious decarbonisation goals.

## Partnership Beginnings and Initial Challenges

The partnership's first year focused on reducing CO<sub>2</sub> emissions from Lechner Racing's road transport vehicles.

One of the key challenges was the limited availability of Renewable Diesel (HVO100) at European fuelling stations. This posed a logistical hurdle for Lechner Racing's freight truck, which covered over 20,000 kilometres during the 2023 season, transporting race cars and equipment across Europe. To address this, MB Energy encouraged Lechner Racing to install an expanded capacity fuel tank in their large freight truck. This modification ensured that the truck could carry enough HVO to complete its journeys without interruption, even in regions where HVO was not readily available. This proactive solution enabled Lechner Racing to fully transition to HVO for their logistics operations, reducing CO<sub>2</sub> emissions significantly<sup>1</sup>.

MB Energy facilitated the supply of ISCC-certified HVO100, derived from waste and residue feedstocks, that offered around 90% greenhouse gas (GHG) savings compared to conventional diesel<sup>2</sup>.

## Achievements in the First two Years

In 2023, this initiative reduced CO<sub>2</sub> emissions by 18.2 tonnes<sup>3</sup>, with the remaining 13.5 tonnes offset through retiring Voluntary Emissions Reduction (VER) certificates. When it comes to VERs, MB Energy is committed to originating only high-quality certificates that are held with recognised registries such as the Verra Registry or Gold Standard.

By 2024, the partnership was expanded significantly. The volume of Renewable Diesel (HVO100) used, increased from 8,300 litres in 2023 to 10,500 litres, and the carbon offsetting footprint was expanded to both Scope 1 and Scope 2 GHG emissions for Lechner Racing's European operations<sup>4</sup>. This resulted in an overall CO<sub>2</sub> emissions reduction of 86.6 tonnes – significantly more than the previous year. The vehicles once again covered over 20,000 kilometres during the season, transporting race cars and equipment across Europe. The GHG emissions improvement factor of the Renewable Diesel (HVO100) was around 90% also in 2024<sup>5</sup>.

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<sup>1</sup> HVO is designed as a drop-in fuel and can be used in many existing diesel engines. Meanwhile, manufacturer approvals should be checked.

<sup>2</sup> When compared to the REDII fossil fuel comparator 94 g CO<sub>2</sub>e/MJ

<sup>3</sup> All calculations done following REDII calculation principles, based on data provided by Lechner Racing.

<sup>4</sup> Scope 1: emissions from owned sources. Scope 2: market-based emissions from purchased energy.

<sup>5</sup> When compared to the REDII fossil fuel comparator 94 g CO<sub>2</sub>e/MJ



From 2024 onwards, the emissions accounting scope was also broadened to include not only logistics-related fuel use but also AdBlue consumption, ensuring a more comprehensive view of the team's on-road emissions.

This case study highlights just one example of how MB Energy delivers tailored solutions to address both logistical and environmental challenges.

## **2025: Scaling Impact Across Logistics and Racing Operations**

In 2025, the partnership moved beyond the core Supercup logistics to support additional projects in Lechner Racing's wider operations. MB Energy supported not only the Supercup season but also incremental projects with Renewable Diesel (HVO100) provision for their logistics, extending the decarbonisation concept to more vehicles and use cases.

Across 2025, a total of almost 23,000 litres of HVO were consumed, accounting for more than 83% of total fuel used for these operations. This included:

- The primary Supercup freight truck and multivan
- Transport vehicles used for incremental projects

In total, 123 tonnes of CO<sub>2</sub> emissions were addressed in 2025:

- 70 tonnes were reduced directly through fuel substitution with HVO
- 53 tonnes were offset through retirement of VERs held with Gold Standard.

The emissions accounting scope was further expanded to include race car fuel emissions, AdBlue consumption and associated transportation emissions. The VERs used to complement the direct reductions were sourced from the "Northern Uganda Safe Water" project, contributing to both reducing negative climate impact and promoting positive social co-benefits.

This progression shows how the partnership evolved from a logistics-focused initiative into a more holistic decarbonisation approach covering both on-road operations and racing-related activities.

## **Progress and Expanded Solutions**

Since the start of this partnership, the availability of HVO at European fuelling stations has improved significantly. To leverage this development, MB Energy onboarded Lechner Racing with tankpool24 (TP24) fuelling cards for their fleet of Supercup vehicles. This provides the team the option to refuel conveniently at TP24 stations across Europe, further simplifying logistics and ensuring uninterrupted use of HVO.

The expanded access to HVO, combined with the TP24 fuel cards, marks a significant step forward in the partnership, enabling greater reductions in CO<sub>2</sub> emissions through direct HVO fuel consumption.

Furthermore, expanding the scope of the partnership to include voluntary accounting for Lechner Racing's Scope 1 and 2 emissions is yet another significant step forward. This allows Lechner Racing to gain a deeper understanding of their direct emissions footprint and identify areas for future improvement, such as emissions from racing fuel used during test and race days.



## **Overcoming Challenges and Future Goals**

Lechner Racing faced challenges in addressing emissions from racing vehicle operations and broader logistics. MB Energy provided solutions such as offsetting emissions and supporting Environmental, Social and Governance (ESG) reporting initiatives. The partnership aims to further decarbonise additional parts of the team's logistics, explore new GHG accounting methods, and identify further future-oriented ways to grow the base concept.

## **Broader ESG Support**

MB Energy's collaboration with Lechner Racing highlights its broader capabilities in supporting companies with ESG goals. By providing Renewable Diesel (HVO100), VERs, and support on emissions accounting, MB Energy enables partners to reduce their carbon footprint while maintaining operational efficiency. The partnership also explores voluntary emission reduction projects, such as hydroelectric power generation, windfarm power generation, and biodiversity conservation, which deliver additional socio-economic benefits.

This partnership is a testament to MB Energy's commitment to enable more sustainable practices across industries and creating future-oriented solutions for a lower-carbon future.