

AN OVERVIEW OF SUSTAINABLE FUELS








NAVIGATING THE SHIFT TO SUSTAINABLE TRANSPORTATION WITH DHL GLOBAL FORWARDING

The momentum behind the decarbonization of the transport industry has been steadily growing in recent years, with sustainable fuels emerging as a pivotal player in this transformative journey. Sustainable Fuels are now recognized as a key driver for achieving genuine decarbonization within the challenging domains of air and ocean transport—sectors notoriously resistant to straightforward transitions toward eco-friendly practices.

Against this backdrop of widespread acknowledgment, the sustainable fuel market is undergoing significant development, spurred on by a variety of industry stakeholders, among them **DHL Global Forwarding**. This document serves as a useful overview, of available fuel types and products, shedding light on the dynamic landscape of sustainable solutions propelling the future of transportation.

In many markets alternative fuels can already be deployed at a large scale

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	 HVO	 BioLNG	 BioCNG
 Fuel feedstock & availability	<ul style="list-style-type: none"> ● Used cooking oils ● Competition with other uses ● Available in various blends, 100% availability growing 	<ul style="list-style-type: none"> ● Different waste materials ● Limited production, but growing 100% availability 	<ul style="list-style-type: none"> ● Different waste materials ● Independent pricing ● 100% availability
 Vehicle availability & range	<ul style="list-style-type: none"> ● Drop-in Fuel, can be used in regular Diesel trucks ● >1,000 km 	<ul style="list-style-type: none"> ● Non-drop-in fuel, dedicated trucks required ● 1,200 – 1,400 km 	<ul style="list-style-type: none"> ● Non-drop-in fuel, dedicated trucks required ● <600 km
 Infrastructure readiness	<ul style="list-style-type: none"> ● Good network in selected countries¹⁾ and growing, in some cases bunkers required 	<ul style="list-style-type: none"> ● Good LNG network in many countries²⁾, growing further 	<ul style="list-style-type: none"> ● Limited (not all stations are truck compatible)
 Cost premium³⁾ & lead times	<ul style="list-style-type: none"> ● Fuel: +5-25% ● 9-12 months 	<ul style="list-style-type: none"> ● Fuel: below Diesel to +30% ● Truck: + ~30,000 EUR ● 9 – 18 months 	<ul style="list-style-type: none"> ● Fuel: below Diesel to +30% ● Truck: + ~20,000 EUR ● 9 – 18 months
	Easiest but costly option for short-term emission reductions	In selected markets most cost-efficient for long distances	In selected markets most cost-efficient for short/medium distances

1) NL, BE, IT, A, Nordics, Baltics; 2) DE, Nordics, UK, NL ; 3) compared to Diesel; prices vary significantly between countries; TCO depend on specific use case