

**In 2021, our organisation began our SPECE journey. This journey supports us to achieve our strategic goals. SPECE is an acronym for the five strategic pillars that form our focal point in the years ahead, leading us to success by 2025. Join our SPECE journey.**

**Together. We will reach SPECE.**

**E**  
ENVIRONMENTAL  
SUSTAINABILITY



SPECE's fifth pillar underscores our dedication to environmental sustainability. Recognizing the evident and rapid climate changes, along with the finite depletion of our planet's resources, Den Hartogh is committed to urgent action. We are resolute in transforming into a more sustainable organization, actively collaborating with stakeholders to minimize our environmental footprint and reduce our total impact on the planet.

## Close monitoring of our CO<sub>2</sub> emissions

At Den Hartogh we know that measuring is knowledge, and we therefore closely monitor our CO<sub>2</sub> emissions. We do this in line with the GLEC-standard which is the unofficial standard in the logistics sector. Our transport management system is connected to EcotransIT that carefully calculates our CO<sub>2</sub>-emissions. On request we can provide comprehensive CO<sub>2</sub> emission reports for each of our customers.



## The most sustainable modes of transport

At Den Hartogh, we understand the significant reduction in CO<sub>2</sub> emissions achieved by utilizing intermodal transport options such as trains, barges, and short sea shipping, as opposed to relying solely on trucking. Assuming an equal distance traveled, the CO<sub>2</sub> reduction is between 50%-75% compared to trucking. 3500 movements by truck were replaced by barge as integrated part of our logistics network in 2022 alone.

## 🌿 Hydrated Vegetable Oil (HVO) in our European trucking fleet

At Den Hartogh we realize that trucking in certain situations is unavoidable. We therefore offer our HVO (biodiesel) service that can save up to 90% of the CO<sub>2</sub> emissions compared to regular diesel trucking. With our insetting or mass balance methodology you can profit off the savings in the whole of Europe. Or, like two of our customers, choose dedicated HVO lanes to make your transportation more eco-friendly.



## 🌿 LBG (liquid biogas) Trucks in Scandinavia

In Scandinavia we have 10 trucks actively driving on LBG. This reduces our CO<sub>2</sub> emissions significantly (>90% compared to regular diesel). The amount of LBG trucks in Scandinavia will be expanded in the future, as a solid part of our green strategy in northern Europe. As soon as LBG becomes available on the German market our local LNG trucks will switch to LBG as well.

## 🌿 Transport with Electric Truck(s)

Electric trucking will be the future. Therefore, Den Hartogh is an early adaptor by using electrical trucks in chemical transport. We pioneer with our own electric truck fully operational in the Rotterdam port area. an additional truck for a dedicated customer will be procured. And in direct collaboration with our customer we already operate 3 e-trucks in Sweden . For our Swedish trucks the CO<sub>2</sub> reduction is between 95-100% compared to regular diesel trucks.



## 🌿 Expand the use of Long Heavier Vehicles (LHV)

Currently there are a number of LHV's active within the den Hartogh network. By carrying at minimum, the double number of containers per truck, we are able to save diesel a thus also save needless CO<sub>2</sub> from being emitted. We have the ambition to expand the amount of road trains where this is legally possible for us to do.

## Alternative fuels in shipping

Deep-sea shipping accounts for around 40% of transport emissions at Den Hartogh. So CO<sub>2</sub> reduction for this mode of transport is essential. We are therefore offer the biofuels and (bio-)LNG transport option of our suppliers directly to our customers. In 2023, we initiated our first environmentally friendly transports with CMA CGM, taking significant steps towards a sustainable future.



## Optimizing and maximizing our payloads

Our Business Monitoring Report actively stimulates us to search for optimizing payloads, this helps us make efficiency proposals to customer. Optimizing Payloads by focusing with customers on this topic has shown results in the last year.

## The green office & getting sustainability in our DNA

Den Hartogh is globally adopting green practices on all locations, using LED lights as the standard and prioritizing local recycling options. The Den Hartogh Green Team, with 35 volunteers worldwide, oversees these initiatives. Solar panels are installed in our Rozenburg workshop, our LSC in Gothenburg and will soon be added to our new Rotterdam homebase.



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