

EUROPORTS - Sustainability roadmap

Jarmo Kivi / 2.2.2024

Euroports Group - Sustainability

Euroports Group is committed to contributing to a more sustainable port and logistic business. This is a deliberate decision taken by a company that has always been committed to high operational standards and safety. Our sustainability work covers four focus areas:

- Good health and well-being
- Clean water and sanitation
- Decent work and economic growth
- Climate action

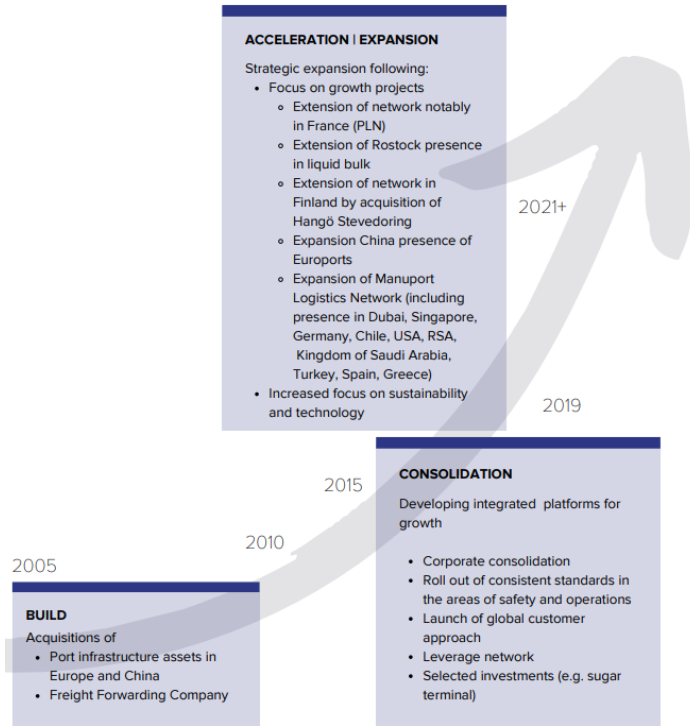
The work is a continuous journey and as a signatory member of the UN Global Compact (UNGC) since 2021, we are committed to creating a better future for all. This includes reducing our impact on the environment, providing a safe and secure workplace, and conducting business in an ethical and responsible way.



Euroports Group - Sustainability

About Euroports Group

A clear path to sustainable growth



TOTAL GREENHOUSE GAS EMISSIONS
(in tons of CO₂e)



SCOPE 1
Direct emissions from our operations

- 2020: 38,141 tons of CO₂e
- 2021: 41,789 tons of CO₂e
- 2022: 39,274 tons of CO₂e

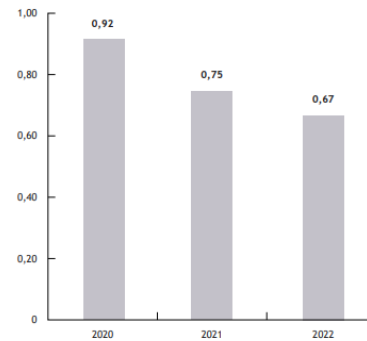
SCOPE 2
Emissions from the generation of purchased electricity, heat, and steam

- 2020: 12,413 tons of CO₂e
- 2021: 11,994 tons of CO₂e
- 2022: 9,184 tons of CO₂e

SCOPE 3
Emissions from employee commuting and business travels.

- 2020: 2,419 tons of CO₂e
- 2021: 2,537 tons of CO₂e
- 2022: 2,557 tons of CO₂e

RELATIVE GREENHOUSE GAS EMISSIONS
(tons of CO₂e per k-ton handled)



Euroports Group - Sustainability

- Transition to electrical equipment
- Use of alternative fuels (HVO)
- Energy optimization (LED lighting)
- Renewable energy (solar panels)
- Water consumption
- Waste management



Key initiatives: To achieve our ambitious reduction targets, we have implemented a range of initiatives across our operations, focusing on innovation and sustainable practices.

Terminal Equipment

Rolling and stationary port equipment used to load and unload cargo, transport goods, and maintain port infrastructure are a significant source of greenhouse gas emissions, primarily from diesel-powered engines. To address these emissions, we have pursued multiple strategies. Investments in equipment are assessed taking into account their relevant energy consumption. In 2022, Euroports has acquired one full electric as well as two hybrid mobile harbor cranes with both diesel and electric motors and two electric forklifts. These advanced cranes incorporate technologies that improve efficiency and reduce emissions, contributing to our overall reduction goals.

Alternative Fuels

Tests with alternative fuels, such as HVO (Hydrotreated Vegetable Oil), have shown promising results in reducing greenhouse gas emissions and improving air quality. We have introduced forklifts powered by LPG (liquefied petroleum gas), a cleaner-burning fuel, minimizing emissions during material handling operations.

Energy optimization

One area of focus has been reducing our energy consumption concerning lighting by adopting LED and smart, motion-activated systems. As a consequence, traditional lighting has been replaced in most of our warehouses, quays, and offices.

Renewable electric energy

Investing in solar panels has been another key initiative to reduce reliance on non-renewable energy sources

and decrease greenhouse gas emissions. By significantly expanding our on-site solar installations in 2022 and preparing for future expansion, we have increased the share of renewable electric energy powering our operations. Additionally, our commitment to green energy procurement involves steadily increasing our overall usage of renewable sources, further supporting our sustainable energy goals.

“Over the past year, we have implemented renewable diesel in our operations in Finland, marking an exciting development as we pursue a more sustainable future. By incorporating renewable diesel, we can continue using diesel-operated machinery while we await advancements in alternative technologies. This step is crucial in gradually reducing our reliance on fossil fuels as we transition to a low-carbon economy. The positive impacts of renewable diesel, including reduced greenhouse gas emissions, a safer work environment, and decreased dependence on fossil fuels, make it a critical solution for achieving sustainability. It exemplifies our commitment to responsible business practices and aligns with our vision for a sustainable future.”

JARMO KIVI
Director Technical Services
& QHSE, EP Finland

	TOTAL AMOUNT (KWH)	PURCHASED (GREY)	RENEWABLE (certified green or produced on site)	% RENEWABLE
2021	45.067.594	44.168.999	898.595	2%
2022	44.341.929	41.232.799	3.109.130	7%

71%

Sustainability Roadmap

Sustainability is an essential part of our strategy



-40% reduction of CO₂ emissions compared with 2020 levels

Carbon neutral by 2050

2020

OPERATIONAL IMPROVEMENTS

Improving operational efficiency is in the core of our business. Operations are carefully optimized throughout the processes from storage layout planning to reducing fuel consumption of machinery.

LED lighting will be installed to all main premises by the end of 2025.

ELECTRIFICATION

Electrification of machinery and **digitalization** of processes are ongoing. When replacing trucks, forklifts, cranes and vans, hybrid and electric options will be primarily selected depending on their availability. The first hybrid crane has been in use since 2020. Two new dual power cranes will be taken into use by mid-2023.

Electrical infrastructures in ports will be upgraded in collaboration with each port.

GREEN ENERGY SOLUTIONS

Green energy solutions are actively assessed, e.g., installations of **solar panels** on the rooftops of storage buildings in order to locally produce green electricity at ports.

Advanced Biodiesel is already in use whenever feasible. The objective is to utilize more low-emission fuel options. The share of renewable fuels of the total fuel consumption will be increased according to the availability on the market.

The aim is to have a **carbon neutral container terminal** by 2030.

2030

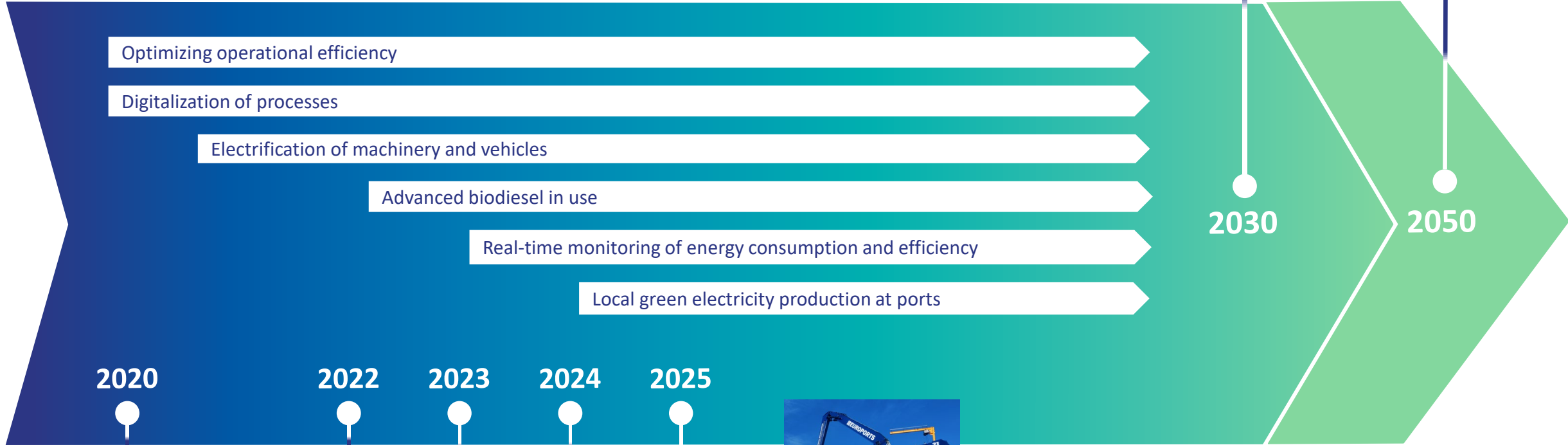
2050

Sustainability Roadmap



-40%
reduction of
CO₂ emissions
compared with
2020 levels

Carbon neutral
by 2050



2020

2022

2023

2024

2025

2030

2050

First hybrid crane

Two new electric vans

Two new dual power cranes

Study of the solar panels

LED lighting installed in all main premises



UN Sustainable Development Goals



Mietteitä CO2 päästöjen leikkaamisesta satamaoperoinneissa

Toimivia ratkaisuja:

- Valaistusten uudistaminen, LED valaistus teho ja kulutus, liiketunnistimet
- Kiinteän sähköverkon hyödyntäminen esim kiskoilla liikkuvat nosturit (STS nosturit)
- Sähkötrukit (pikkutrukkit) sekä henkilö- ja pakettiautot (satamaliikenne)

Haastavammat alueet:

- Mobiilinosturit ja niiden kytkeminen kiinteään sähköverkkoon (dual engine)
- Raskaat työkoneet (akkuteknologian kehittyminen vs vihreä vety)
- Fleetin koko ja uusiutumistahti (korvausinvestoinnit, modernisoinnit)
- Aurinkosähkö ja voimalat (tuotto ja kulutusprofiili eivät kohta)

Muuta:

- Asian merkittävyys korostuu, sidosryhmien odotukset & vaatimukset lisääntyvät