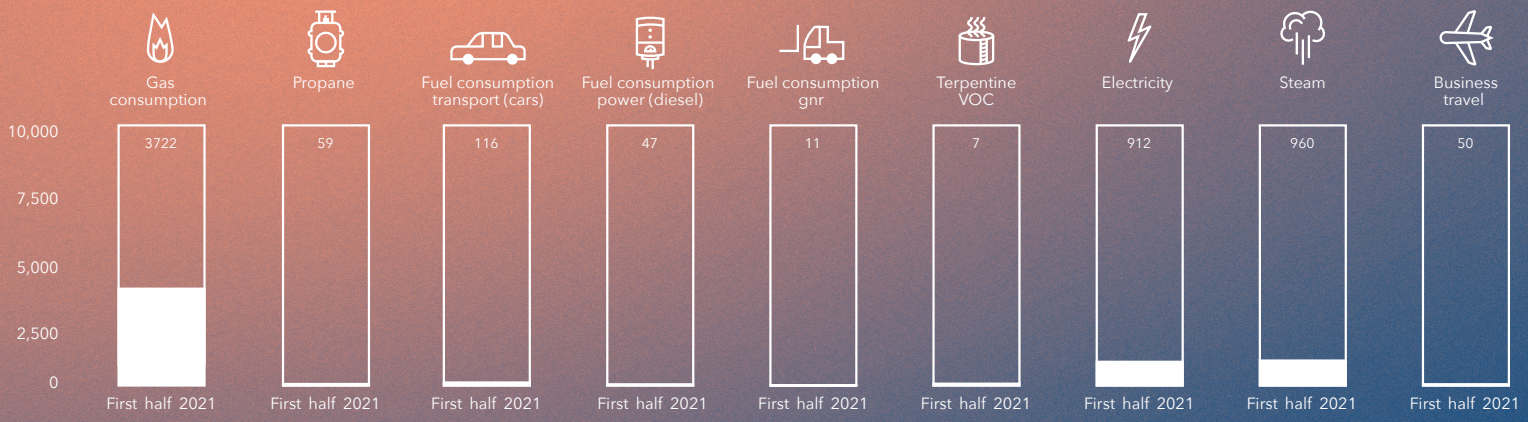
CO2 PERFORMANCE LADDER: OUR FOOTPRINT AND REDUCTION OBJECTIVE

Objective and progress
In 2019 Alkion Terminals emitted 11.354 tonnes of CO2, with Scope 1 Emissions accounting for 8.272 Tonnes CO2, Scope 2 Emissions for 2.917 Tonnes of CO2 and 164 Tonnes of CO2 for Business Travel. By 2025, we aim to emit 20% less CO2 than in 2019. We are targeting reductions of CO2 Emissions of Scope 1 by 10.5% and Scope 2 by 8.2%. In 2020 Alkion emitted 12.215 tonnes of CO2. The increase in comparison to 2019 accounts for Scope 1. It is explained by the growing gas consumption required to handle higher throughput volumes and tank occupancy for heated products. In 2021 we emitted 9.684 tonnes of CO2, reducing our emissions by 15% in comparison to the baseline year 2019. The decrease is mainly driven by: 1) partial transition of the business into newly build more energy efficient tankpit ; 2) Switch of the source of the steam supply at Le Havre terminal – from gas origin to waste incineration; 3) Increasing share of Green Electricity supply vs Grey Electricity by both self-generating solar power in Italy and Lisbon and securing 50% of purchased electricity with green electricity with "Guarantees of Origin".

KPI's
To monitor the relative progress Alkion Terminals has set up KPIs.

	2019	2020	2021
CO2 Footprint (Tonnes CO2)	**11354**	**12215**	**9684**
Emission per FTE (CO2/FTE)	34.3	37.3	30.3
Emission per revenues (CO2/revenues)*1000	113.2	121.9	98.6
Emission per throughput (CO2/throughput*1000	3.6	4.6	3.6
Grey Electricity consumption (MWh)	12371	12380	6891
Green Electricity consumption (MWh)	575	502	7345
Grey/green electricity ratio	21.5	24.7	0.9

CO2 footprint: tonnes CO2 per emission flow



Our emissions in 2021 are equivalent to:

- 5.595 return flights Amsterdam – New York
- Gas and electricity for one year of 2.071 houses
- 1.237 tours around the earth in an average car
- 2,9 million kg normal office paper consumed
- 482.580 trees growing one year
- 975 days of operation of one windmill

How we reduce CO2 Emissions

Reducing Scope 1 Emissions

- Gas Consumption
  - Reassess the most efficient and sustainable heating option (electricity sources, neighbouring plants)
  - Improve insulation on tanks and pipelines
  - Assess the impact of replacing boilers with more efficient boilers
  - Cover part of the natural gas consumption with biogas
- Fuel Consumption
  - Install charging stations at the terminals powered by solar energy
  - Revise the corporate policy to improve the maximum requirement CO2/km
  - Focus on leasing/renting hybrid and electric cars
  - Promote the lease of e-bikes

Organizational measures

- Inform employees about sustainability behavior at the office
- Replacement of plastic cups
- Sustainability workshop/education/quiz for employees
- Visual messaging for the offices and wider terminal environment
- KLM Biofuels Program for Business Travel

Reducing Scope 2 Emissions

- **Electricity consumption: Increasing the amount of green electricity and improving energy efficiency**
  - Preparing the business case for solar panels and acquiring permits
  - Installing and commissioning solar panels at terminals
  - Confirming green energy consumption with Guarantees of Origin (GOs)Switch to LED lightning
  - Pumps variable speed drive (inverters) and/or automatic pumps flow regulation
  - Smart lighting at night at the terminals/Cut off light at night where possible
  - Inductive filter data (e-power system)
- **Steam consumption: looking for a more sustainable steam source**

Initiatives
Alkion Terminals is affiliated to the Nederland CO2 Neutraal and Talks Energie Transition (a working group running at ORAM Plattform). The Italian branch of Alkion participates in Unem (Unione Energie per la Mobilità), with a working group focused on the development of lower carbon liquid fuels and e-fuels. Cartagena terminal in Spain joined the organization The Cartagena Puerto Sostenibile (Sustainable Port of Cartagena) that is committed to incorporating the 2030 Sustainable Agenda based on 17 UN Sustainable Development Goals into the port's strategy through collaboration of members, including private sector.

These memberships contribute to the sharing and exchange of knowledge and experience with other companies regarding sustainability challenges and solutions. In this way Alkion acts as an active participant in the world of energy transition.

nederland co2 neutraal

ORAM ondernemend amsterdam

UNEM unione energie per la mobilità è nata

CARTAGENA PUERTO SOSTENIBLE
Compromiso por el desarrollo sostenible del puerto de Cartagena

For more information on CO2 Performance Ladder please visit: www.co2-prestatieladder.nl