Objective
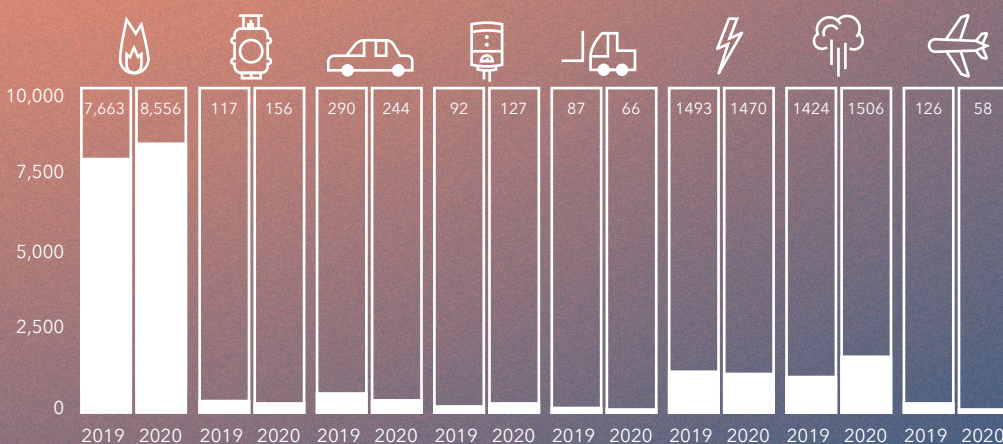
In 2019 we emitted 11.329 tonnes of CO2, with Scope 1 Emissions accounting for 8.248 Tonnes CO2, Scope 2 Emissions for 2.917 Tonnes of CO2 and 164 Tonnes of CO2 for Business Travel. By 2025, Alkion Terminals aims at emitting 20% less CO2 than in 2019. We are targeting to reduce CO2 Emissions of Scope 1 by 10.5% and Scope 2 by 8.2%. In 2020 the emitted 12.183 tonnes of CO2, with the increase in comparison to 2019 explained by growing gas consumption required to handle higher throughput volumes and tank occupancy for heated products.

KPI's

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

	2019	2020
Emission per FTE (CO2/FTE)	32.7	35.7
Emission per revenues (CO2/revenues)*1000	113.2	121.6
Emission per throughput (CO2/throughput)*1000	4.2	5.2
Grey/green electricity ratio	21.5	24.5

CO2 footprint: tonnes CO2 per emission flow

	2019	2020	2019	2020	2019	2020	2019	2020	2019	2020	2019	2020	2019	2020	2019	2020
	7,663	8,556	117	156	290	244	92	127	87	66	1493	1470	1424	1506	126	58

Our emissions are equivalent to

- 6.567 flights from Amsterdam to New York
- Electricity and gas consumption for 2.431 households
- Driving 1.453 times around the earth
- 3.399.000 kg of office paper
- The growth of 566.500 trees for one year

How we reduce CO2

Reducing Scope 1 Emissions

- Gas Consumption
  - Reassess most efficient & sustainable heating option (electricity sources, neighbouring plants)
  - Improve insulation on tanks and pipelines
  - Assess the impact of replacing boilers for more efficient ones
  - Cover part of the natural gas consumption by 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 lease e-bikes

Organizational measures

- Inform employees about sustainability behaviour at the office
- Replacement of plastic cups
- One sustainability workshop/education/quiz for employees
- Visual for the offices and the surroundings around
- KLM Biofuels Program for Business Travel

Reducing Scope 2 Emissions

- Electricity consumption: Increasing the amount of green electricity and improving energy efficiency
  - Preparing business case and acquiring permits for solar panels
  - Installing & commissioning solar panels capacities
  - Looking for energy suppliers able to ensure Green Electricity
  - Supply with Guarantees of Origin (GOs) and switching to those if available
  - Switch to LED lightning
  - Pumps variable speed drive (inverters) and/or automatic pumps flow regulation
  - Smart lightning 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 Nederland CO2 Neutraal and Talks Energie Transition (a working group running at ORAM Plattform). Italian branch of Alkion participates in Unem (Unione Energie per la Mobilità), with a working group focusing on the development of lower carbon liquid fuels and e-fuels. These memberships are contributing to the exchange of knowledge and experience sharing with the other companies on sustainability challenges and solutions, allowing Alkion to be an active participant in the world of energy transition.

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

nederland co₂ neutraal   ORAM ondernemend amsterdam   UNEM unione energie per la mobilità è nata