## **Nedal reducing carbon footprint**

Nedal's targets and efforts are focused on reducing its carbon footprint, order to keep the worldwidewarming below the 1,5 C.

## 1. Scope 1 and 2 (see graph)

Scope 1 and 2 are the greenhouse gas emissions from the direct activities of Nedal and related emissions from energy production (electricity).

Nedal has successfully rolled out the government-supported energy saving programme "Energy Efficiency Plan (EEP) ".

Nedal is moving forward to further increase the energy efficiency of production.

Examples include new investments such as cooling towers, cooling of profiles at the press, electrical powered forklift trucks and stimulating electrical- and hybrid company cars.

In addition, the energy consumption of Nedal's process equipment is being monitored to identify opportunities to save energy (ref.: Energy Audit, July 16<sup>th</sup> 2024)

The graph shows the scope 1 & 2 CO2-footprint for the sector (ASI) and for the Nedal process:

The CO2-footprint will significantly decrease by using 100 % green electricity from 2025 onwards (instead of 50%).

Following investments will be carried out:

- Frequency controlled pumps (coolwater circuit).
- Excess heat of log furnace press 5 will be used for space heating.
- Isolation of warm pipes and appendages.

2030: Change from gas to electricity (ageing furnaces).

2040: Alternative for gas: Green hydrogen.

## 2. Scope 3.

Scope 3 is the greenhouse gas emission related to the supplychain of Nedal (e.g. Aluminium).

The vast majority of the carbon footprint is the metal aluminium as the raw material for production (approx. 90%).

The carbon footprint depends on the ratio of kg of primary to kg of recycled (secondary) aluminium.

Nedal largely deploys recycled aluminium, with a target to increase the amount of recycled aluminium even further.

Nedal has already achieved a substantial reduction in scope 3 CO2 emissions:

The graph shows the scope 3 CO2-footprint for the sector (ASI) and Nedal.

The CO2-footprint of Nedal is below the footprint of the sector.

The aim is to maximize the quantity of recycled aluminium:

The ratio between kg primary and kg secondary aluminium, however, can vary and is strongly dependent on the availability of secondary aluminium on the market (market conditions)

For comparison, CO2 footprint aluminium (kg CO2/kg Al \*):

- China production: 20

- Average worldwide production: 16.1

- European production: 6.8

- Nedal (2022): 4.3

\*) Data: European Aluminium

For the production of aluminium in Europe, European Aluminium has developed a strategy to reduce its carbon footprint in line with the max 1.5 degree target: "Science-based decarbonization pathways for the European aluminium industry". See also www.european-aluminium.eu



