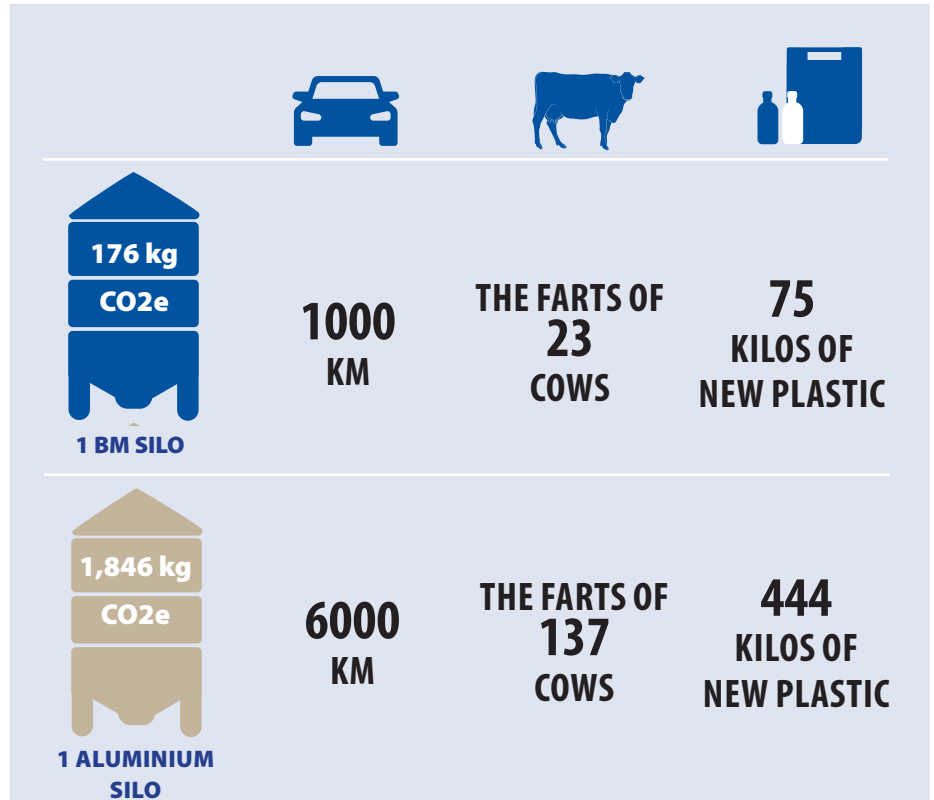


# The Life Cycle of a BM Silo

At BM Silo we aim to limit our climate and environmental impact of the production. A life cycle analysis (LCA) of our products has given us an understanding of the impact of a modular silo from BM Silo.

The analysis has shown us that some of our previous choices are already beneficial in terms of limiting our impact during the production process. Our modular silo has a significantly lower CO2 footprint compared to others. It mainly comes down to our choice of material – galvanised steel. The following information is a fact sheet

on our LCA, an accurate analysis and documentation of the precise environmental impact of one of our silos. Your business can benefit from the LCA from BM Silo by incorporating our figures when mapping out the impact of your own production, creating a more detailed insight in turn for your own partners and customers.



An LCA is the calculation of the environmental impacts based on eight impact categories. In order to compare all greenhouse gases all units are converted to their CO2-equivalent, CO2e. A single 10 cubic metre modular silo from BM Silo has an impact of 176 kilos CO2e. This is the equivalent to driving 1000 km in an ordinary petrol-powered passenger car (Danmarks Statistik), or the amount of methane that 23 ordinary cows emit per year through farting (L&F), or the production of 75 kilos of new plastic (Det Nationale Plastikcenter).



**How we did our calculations:**

The analysis was conducted in Q2 and Q3 in 2022 and represents the latest production data. The LCA results are valid until significant changes in production may occur, according to Provice Aps who carried out the analysis.

Provice Aps carry out environmental analyses and climate reports as well as developing green business models.

The LCA is conducted according to the standards for life cycle analyses: DS/EN ISO 14040:2006 + A1:2020 and 14044:2006 + A1:2018 + A2:2020 and DS/EN ISO 14071:2014 This overview is a summary of the main points of the analysis. BM Silo has access to the report in its entirety. BM Silo can provide an

Key numbers	Unit	BM Silo	Aluminium	Stainless steel
Global warming	kg CO2e	176	1046	348
Ozone layer depletion	kg CFC-11e	0	0,0000348	0,0000146
Water Scarcity	m3e	4	863	157

*The table shows impact of a 1 cubic metre of silo from cradle to gate from BM Silo, a generic aluminium silo from a different manufacturer and a stainless-steel silo from a different manufacturer - respectively.*

in-depth report as well an Executive summary.

**What results show:**

A modular silo from BM Silo has a significantly lower impact compared to variants in aluminum and stainless steel. Global warming is significantly lower when the silo is made of galvanized steel. Results also show that the emission of greenhouse gases, i.e. ozone layer depletion, is equal to zero.

The amount of water used during the production of a BM Silo is significantly lower. Scaled down to one cubic metre, only 4 cubic meters of water are used – far lower than when produced using other materials. The overall advantage of using galvanized steel become even clearer when comparing environmental factors such as water scarcity to these factors. See table above.

