

CO₂ BALANCE FOR WASTE AND RECYCLABLES CONTAINERS

GREATER TRANSPARENCY
FOR ECO-FRIENDLY
PROCUREMENT



CO₂ BALANCE

SUSTAINABLE PROCUREMENT MADE EASY

In 2017, the ESE Group had a climate footprint assessment for their standard plastic containers drawn up for the first time. Such a carbon footprint not only represents a status quo, above all it includes potential for further improvements in designing more sustainable products. In addition to this, with substantiated data it provides greater transparency for sustainable procurement.

FROM CRADLE TO GRAVE

The Product Life Cycle Accounting and Reporting Standard of the Greenhouse Gas Protocol forms the basis for the methodology of the analysis carried out. Proceeding according to this internationally accepted standard ensures the verisimilitude, precision and credibility of the accounting. This standard developed by the World Resources Institute (WRI) and the World Business Council for Sustainable Development (WBCSD) is considered to be the best practice standard for accounting for product emissions.

Our aim was to be able to include all greenhouse gas emissions caused by the products. And so we did not limit ourselves to the actual production, but included all phases of the lifecycle - starting with the production of raw materials.

The containers' climate footprint shows us what proportion each phase of the lifecycle forms. It also enables us to identify the potential for improvement using certain components or materials. The significant emissions are in the phases of material procurement and pre-processing and disposal. Production of the bins and containers is

responsible for less than 1% of overall emissions. A decisive reason for this is that we use solely green energy. This leads to a reduction of greenhouse gas emissions of some 12-13% in the containers' climate footprint compared to using conventional electricity.

It is not surprising that the proportion of recycled plastic has a large influence. We can for example compare the calculation for a 1,100 litre flat lid container made of 100% new HDPE to one made of 80% recycled material, a proportion which is required for the Blue Angel. Other parameters being equal, the results show a climate footprint which is more than 30% more favourable for containers made of recycled material. For the difference between the two containers alone, a medium-performance motor car can cover a distance of 222 km.

CLIMATE-NEUTRAL RECYCLABLES CONTAINERS

Entire communities or countries have set themselves the goal of becoming completely or almost completely climate-neutral, such as Denmark or the Netherlands. The EU has set its member states conservation targets for 2020 and 2030 which all members must achieve.

Naturally, avoiding emissions must take priority over compensating for emissions. Few products however can be manufactured in a completely climate-neutral manner. To compensate for the unavoidable emissions generated by the manufacture of our plastic bins, we offer climate-neutral containers. This supports those partners of ours who have set themselves the target of being climate-neutral. Recourse to compensation projects remains a subject of controversy. Even environmental organisations such as the WWF are, however, of the opinion, that in compliance with the corresponding standards and with



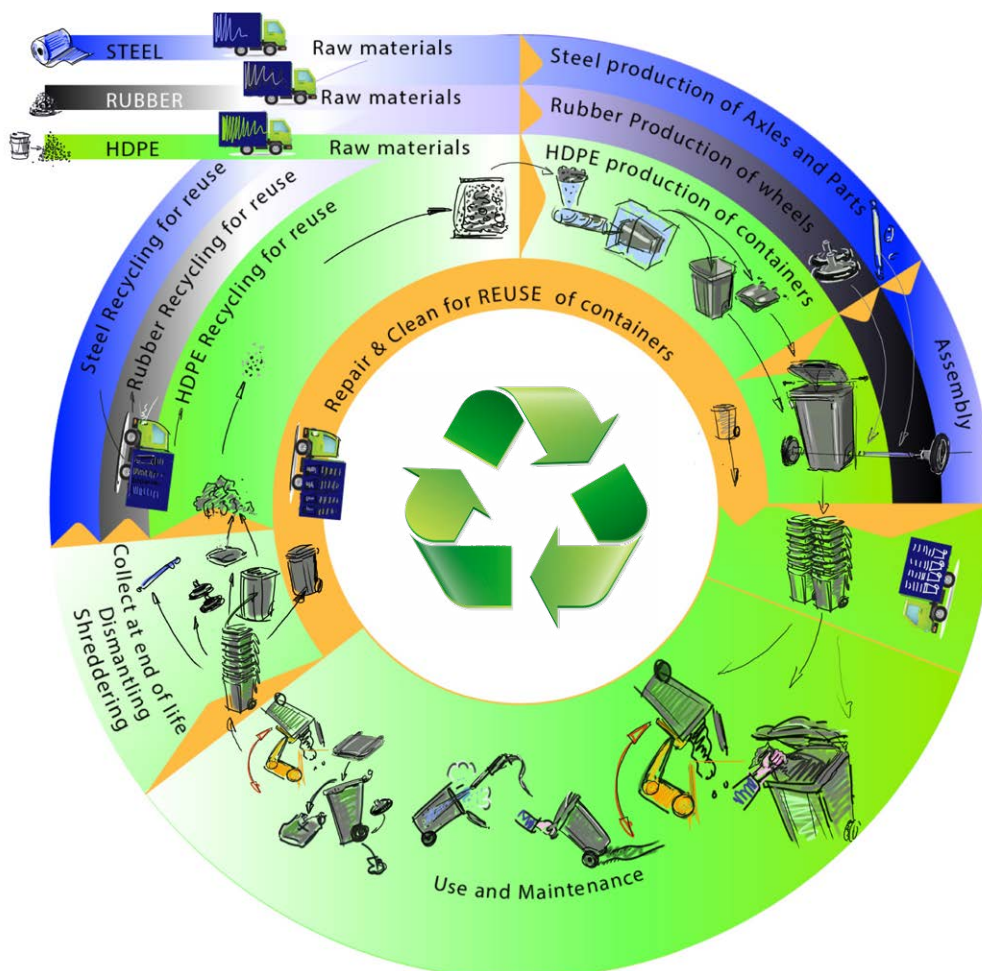
unbiased monitoring, a genuine contribution can be made to climate protection.

ESE only uses certificates from climate protection projects according to the highest quality standard, the Gold Standard. Along with the reduction of greenhouse gases, projects according to the Gold Standard contribute to sustainable ecological and social development in the project's setting. The Gold Standard was developed under the direction of the WWF and with the collaboration of the German Federal Ministry for the Environment. These projects must fulfil numerous criteria in order to ensure

sustainable development in those countries in which the projects are to be put into effect.

MAKING A CONTRIBUTION

Our customers are making an important contribution to sustainability with their concept for bins and containers. Refraining from the use of coloured bodies and the decision to use recycled material are decisive. In addition, the costs for neutralisation are lowered for these containers with an improved climate footprint.



ESE - WE VALUE YOUR RECYCLABLES



KERBSIDE SYSTEMS
MOBILE CONTAINERS FOR
WASTE AND RECYCLABLES



BRING SYSTEMS
(SEMI-) UNDERGROUND SYSTEMS
COLLECTION BANKS



BIO SELECT LINE
CONTAINERS AND COMPOSTERS
FOR GARDEN AND BIO WASTE



HAZARDOUS WASTE CONTAINERS
MOBILE FUEL CONTAINERS
MOBILE OIL CHANGE UNITS



PUBLIC FURNISHING
BINS FOR THE PUBLIC SPACE



CONTAINER MANAGEMENT
DISTRIBUTION, REGISTRATION,
COLLECTION AND RECYCLING

ESE is Europe's leading manufacturer of temporary storage solutions for waste and recyclables. Our comprehensive range of products is complemented by a full service offer from container management to the recycling of products at the end of their lifetime. Specialists in all departments develop solutions to meet our customers' requirements. In doing so, we follow the principle of highest possible sustainability from product development and production to transport.