

Kapsch TrafficCom

Our Sustainability Vision

Introduction

Challenging the limits of mobility for a healthy world without congestion

"Contributing to a sustainable future is our social responsibility."

Georg Kapsch, CEO & Chief Sustainability Officer

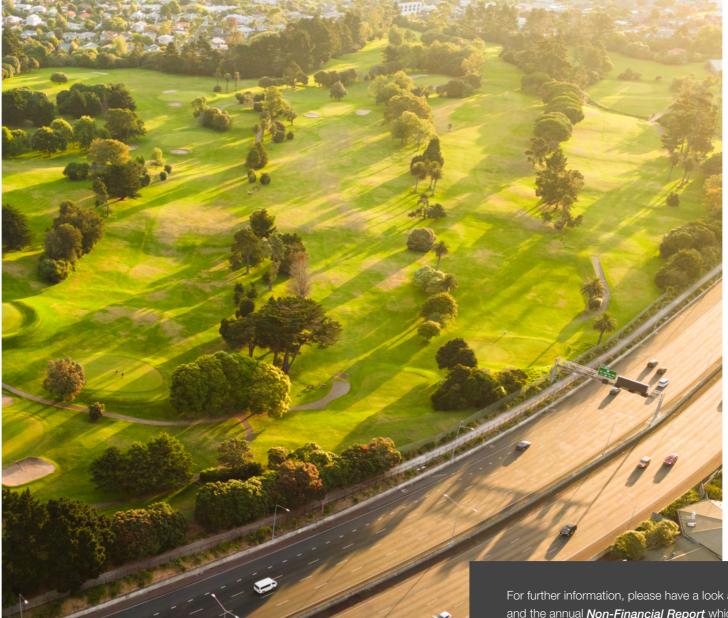
The climate crisis is a major threat to humanity. It is our social responsibility to actively contribute to reaching the target of the Paris agreement, i.e., to limit global warming to 1.5°C by 2100 in comparison to pre-industrial times. Kapsch TrafficCom takes its responsibility for the environment very seriously and has a strong focus on climate protection.

For the CEO of Kapsch TrafficCom, it is the company's social responsibility to make a substantial contribution to global environmental sustainability. Climate protection is a core element of the company strategy 2027, its mission and its vision.

Under the Paris agreement, countries have declared ambitious goals to reach carbon neutrality in the upcoming decades, mostly between 2040 and 2050. In parallel, the European Union is tightening its sustainability obligations, fostering the sustainable economy. Climate protection is now one of the top priorities of the global community, at state level as well as at the individual level.

To meet sustainability goals and obligations, states had to set national climate targets. This is reflected in EU and national legislation, for example, EU Taxonomy Regulation, national ${\rm CO}_2$ taxes or emission trading. Consequently, customers and investors are also increasingly asking for sustainable solutions.

Particularly in the areas of climate change and air quality, Kapsch TrafficCom's business activities have a significant impact. The company's solutions help to reduce emissions caused by road traffic, such as CO₂, particulate matter (PM) and noise. This is also reflected in Kapsch TrafficCom's company vision: "Challenging the limits of mobility for a healthy world without congestion".



To contribute to creating a healthier world, Kapsch TrafficCom has set two environmental sustainability goals in line with its company vision and strategy:



Sustainable portfolio

Increase share of taxonomy aligned products to 50%

Kapsch TrafficCom aims to increase the share of products manufactured by KTC that is aligned with the EU taxonomy regulation on climate change to more than 50% by 2023.



Sustainable company

Reduce Corporate Carbon Footprint by 42%

Kapsch TrafficCom aims to reduce its Corporate Carbon Footprint by 42% by 2030 in line with the 1.5°C trajectory to limit global warming, in accordance with ISO 14064-1:2018 and the greenhouse gas protocol.

For further information, please have a look at <u>Kapsch TrafficCom's sustainability website</u>, and the annual <u>Non-Financial Report</u> which, in addition to the environment, also addresses other sustainability areas, including human rights, employees and social responsibility.

Kapsch TrafficCom's business activities have no significant impact on other environmental areas, such as water or soil. These areas are therefore not in focus.

The content of this document is further detailed in the corresponding internal environmental sustainability guideline and associated requirements. Both are revised periodically. Their adherence is measured and reported to the Executive Board and responsible management.

Sustainable portfolio

Increase share of taxonomy aligned products to 50%

Particularly in transport, solutions are urgently required, as the sector currently accounts for almost a quarter¹ of all greenhouse gas emissions and these continue to rise globally. Amongst all influencing factors, Kapsch TrafficCom's portfolio of products and solutions has the greatest leverage with respect to climate protection.

Therefore, the company strives for maximizing the emission² reduction potential of Kapsch TrafficCom's solutions during operations and, at the same time, reducing carbon emissions during their lifecycle. Kapsch's solutions sold and operated can have a positive effect on air quality (SDG 11 Sustainable Cities and Communities) and our climate (SDG 13 Climate Action) - and, thus, on the world we live in.

Kapsch TrafficCom is quantifying its entire portfolio's emission reduction potential and provides the current status in a factsheet on the corporate website. The company is also assessing the product carbon footprint of its key solutions and deriving emission reduction measures.

How do we get there?

The current EU taxonomy regulation on climate change requires an aligned product to demonstrate the lowest product carbon footprint in its respective market. Therefore, Kapsch TrafficCom needs to reduce emissions related to its own manufactured tolling and traffic management portfolio. In this regard, especially the use of material with high carbon intensity, as well as the power consumption during operations is targeted.

Kapsch TrafficCom support its customers to realize the full reduction potential on traffic emissions. This

Decrease the product carbon footprint

Reducing Kapsch TrafficCom's product carbon footprint enables higher efficiency and cost savings for customers and drives innovation. Its proactive disclosure demonstrates environmental stewardship.

In order to decrease the product carbon footprint, emissions related to Kapsch TrafficCom's portfolio's lifecycle (i.e., material, production, distribution, use, end-of-life phase) are permanently reduced. Note that the KTC portfolio does not cause any direct emissions during usage.

The following global requirements contribute to achieving Kapsch TrafficCom's sustainability goal Sustainable portfolio. Increase share of taxonomy aligned products to 50%:

Identify and realize emission reduction

- Calculate the product carbon footprint for Kapsch TrafficCom's tolling and traffic management
- Implement applicable environmental sustainability requirements.
- Verify the realization of the environmental sustainability requirements and report to line management concerned, and the HSSEQ3 team.

Reduce power consumption during use phase

- Decrease the software product's required computational power well below the benchmark4 to reduce the sizing of hardware⁵.
- Apply sustainable coding practices (e.g., reducing run-time of the software and high peaks of CPU

Design the hardware product with a power consumption well below the benchmark4.

Reduce raw materials (with high carbon footprint)

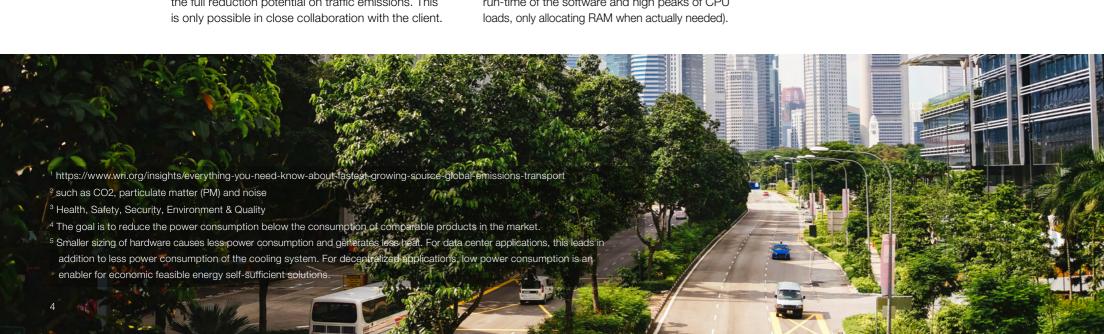
- Re-use existing infrastructure wherever possible.
- Give preference to a lean construction (e.g., pole solution) over gantry construction wherever
- Give preference to materials with lower associated CO₂ emissions (e.g., wood over steel, reduce soldering with Nitrogen in manufacturing, low-carbon suppliers and countries of origin) wherever possible.
- Design products for a long lifetime.

Reduce waste

Regarding in-house developed hardware products, Kapsch TrafficCom follows the waste hierarchy:

- 1. Reduce,
- 2. Reuse.
- 3. Repair.
- 4. Recycle.

Besides the long lifetime, repairability and a high degree of recyclability are mandatory product requirements. Complying with RoHS, REACH and WEEE, Kapsch TrafficCom contributes to the reduction of pollutant and electronic waste.





Save traffic emissions with Kapsch TrafficCom's portfolio

Kapsch TrafficCom's portfolio contributes to the protection of the environment



Sustainable innovation

Kapsch TrafficCom is continuously enhancing its energy self-sufficient portfolio, i.e., minimizing electricity consumption and establishing power supply from renewable sources. To give an example, Kapsch TrafficCom is working on ways to make its tolling gantries more environmentally friendly. This is to be achieved by changing the used material (e.g. replace steel by the renewable material wood) and by minimizing the total power consumption of the electronic equipment and installing photovoltaic panels.

Kapsch TrafficCom actively seeks collaboration with its customers regarding ongoing sustainable innovations – please contact us via *KapschUP*.

Sustainable Company

Reduce Corporate Carbon Footprint by 42%

To reduce Corporate Carbon Footprint by 42% by 2030, Kapsch TrafficCom strives to decrease its emissions in line with the 1.5°C trajectory to limit global warming, in accordance with ISO 14064-1:2018 and the greenhouse gas protocol.



Reducing CO₂ emission

How do we get there?

Starting in 2021, Kapsch TrafficCom annually evaluates and reports its company carbon footprint in conformity with the <u>Greenhouse Gas Protocol (GHG)</u>. In this respect, the data quality is continually improved and the reporting scope is increased. The company will mainly lower greenhouse gas emissions related to Scope 1 and 2 by reducing power consumption wherever possible and gradually shifting to renewable energy at office and manufacturing sites. Kapsch TrafficCom also minimizes its main Scope 3 emissions by reducing the emissions related to its portfolio and employee mobility.

Throughout our endeavor of CO₂ reduction, Kapsch TrafficCom obtains support from external consultancies. Besides collaboration and knowledge building, transparency is a key factor in sustainability. Kapsch TrafficCom publishes an annual Non-financial Report, participates in the Carbon Disclosure Project (CDP) and is currently expanding its sustainability reporting. Kapsch TrafficCom AG and its Austrian subsidiary for components manufacturing, Kapsch Components, have their efforts audited externally by participating in the Ecoprofit program⁶. Several companies of the Kapsch TrafficCom Group are ISO 14001 (environmental management system) certified and hold additional certificates of the ISO series. The current list of ISO certificates can be found *here*.

Sources of GHG emissions

The GHG Protocol Corporate Standard⁷ classifies a company's GHG emissions into three 'Scopes'.

- Scope 1 emissions are direct emissions from owned or controlled sources.
- Scope 2 emissions are indirect emissions from the generation of purchased energy.
- Scope 3 emissions are all indirect emissions (not included in Scope 2) that occur in the value chain of the reporting company, including both upstream and downstream emissions.

Scope 1. Direct emissions

At Kapsch TrafficCom, Scope 1 mainly includes the emissions caused by fuel consumption of the company fleet. The company's production processes have no direct greenhouse gas emissions. Therefore, Kapsch TrafficCom is not causing high amounts of direct emissions.

Scope 2. Indirect emissions. Purchased energy

At Kapsch TrafficCom, Scope 2 includes the indirect emissions from the generation of purchased

electricity, heating, steam and cooling at its numerous office sites in more than 30 countries as well as the two manufacturing sites:

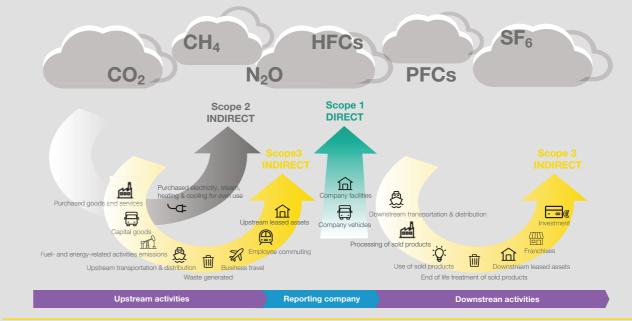
- Kapsch Components (KCO) in Vienna responsible for global manufacturing excluding North America
- Kapsch TrafficCom Canada in Mississauga responsible for manufacturing of products for the North American market

Scope 3. Indirect emissions. Upstream and downstream

At Kapsch TrafficCom, Scope 3 categories with material indirect emissions are:

- purchased goods and services (C1)
- capital goods (C2)
- fuel- and energy-related activities (C3)
- waste generated in operations (C5)
- business travel (C6)
- employee commuting (C7)
- use of sold products (C11)

Emissions related to these categories cause the vast majority of Kapsch TrafficCom's company carbon footprint. So, their reduction has the biggest impact when it comes to emission reduction. However, it is also the most complex scope to reduce, since the activities causing emissions can only be influenced indirectly by Kapsch TrafficCom.



[Source: https://ghgprotocol.org/sites/default/files/standards/Corporate-Value-Chain-Accounting-Reporing-Standard 041613 2.pdf]

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⁶ Within the Ecoprofit program, experienced consultants support the implementation of environmental projects https://www. wien.gv.at/english/environment/protection/eco/ecoprofit.html.

⁷ This paragraph was taken from https://ghgprotocol.org/sites/default/files/standards_supporting/FAQ.pdf

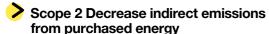
Decrease the company carbon footprint

The following global requirements contribute to reaching Kapsch TrafficCom's goal sustainable company. Reduce Corporate Carbon Footprint by 42% by 2030:



Scope 1 Decrease direct emissions

- Continue to reduce the number of company
- Continue to reduce fuel consumption of company vehicles



- Reduce emissions caused by energy consumption of manufacturing
- Kapsch Components, an Austrian subsidiary of Kapsch TrafficCom AG for components manufacturing, has been participating in an environmental consultancy program for more than 10 years. Since then, Kapsch Components has been awarded the annual Ecoprofit certificate of the city of Vienna.
- Kapsch Components has gradually decreased its environmental footprint and obtains its electricity from renewable
- Environmental performance continues to be one of Kapsch Components' main focus areas. This is reflected, for instance, in the optimization of the manufacturing process regarding energy consumption, the thermal restoration of the building envelope, and the gradual replacement of illumination by LEDs.
- The effectiveness of the actions is measured by regular energy audits.
- Reduce emissions caused by energy consumption of office locations
 - Kapsch TrafficCom's office sites are evaluated in terms of their electricity, cooling- and heating-related consumption.
 - Usage of on-premise IT hardware has been minimized to reduce power consumption.
 - All sites where it is technically and economically possible are gradually switching to renewable energy providers.
 - For the selection of new locations, environmental criteria, such as availability of renewable energy providers, thermal condition of the building envelope or the accessibility of public transport are factored in.

Scope 3 Decrease indirect emissions from upstream and downstream

 Reduce emissions related to purchased goods and services, capital goods (C1 and C2)

Kapsch TrafficCom engages with its major suppliers to obtain emission information on purchased products and information on suppliers' sustainability plans to lower the carbon footprint of purchased goods / capital goods and services. Within Kapsch TrafficCom's supplier selection process, suppliers are obliged to answer an extensive questionnaire related to environmental aspects. They need to:

- comply with all relevant laws, regulations, order and industry standards (including consumer protection, conflict minerals, REACH directive, safety regulations etc.) as well as established engineering practices
- provide information (if available) on:
 - supplier's sustainability strategy and environmental goals
- certificates regarding Environmental Management System, such as ISO14001 or EMAS
- CO₂ footprint calculations of the supplied products, in the event that these have been assessed before
- Reduce fuel- and energy-related activities emissions (C3)

Emissions related to this category depend on the corresponding Scope 1 and Scope 2 emissions. Therefore, no additional requirements are necessary to minimize this category.

Reduce emissions related to waste generated (C5)

Emissions of this category are caused by the disposal or treatment of waste generated in the office or during production. Waste generated at the office sites is comparable to domestic waste.

The manufacturing sites have implemented re-usable packaging and separate collection of different types of plastic waste to enable recycling. In addition, the company investigates options for using renewable packaging materials.

Reduce emissions related to business travel (C6)

Kapsch TrafficCom's goal is to keep the annual number of flight tickets purchased well below 50% of the value in the financial year 2018/19 (i.e., the financial year before massive COVID-19 travel restrictions). Initially, physical presence is essential to build strong relationships between customers and team members. But as soon this relation is established, many flights can be replaced by video calls. This saves emissions, costs, time and, in addition, is more convenient.

Business travel and associated emissions are monitored and reported on a monthly basis. If the targets are at risk, the Executive Board is informed, and corrective actions are taken.

Reduce emissions related to employee commuting (C7)

Employees' commuting to the office and back home causes a lot of traffic. Kapsch TrafficCom contributes to the sustainable behavior of its employees, for example,

with environmental tips, sustainability awareness campaigns, the selection of sites with public transport infrastructure nearby and/or accommodation of bike garages, showers and lockers; the participation in local mobility programs to encourage cycling or a mobility budget promoting public transport and car sharing as an alternative to company cars.

Workplace flexibility and collaboration tools reduce commuting in general.

Reduce emissions related to use of sold products (C11)

Due to the constant operation of Intelligent Transportation Systems, the energy consumed by the supplied equipment represents the major driver for emissions of Kapsch TrafficCom's products in use. In order to continually reduce the emissions of this category, the company aims at:

- Reducing the energy consumption of single products used in the solution (e.g. through redesign or modernization of components)
- Development of multifunctional products that assume the functions of several former products to reduce overall energy consumption
- Deployment of less energy-intensive data management and storage capabilities (e.g. foster cloud deployments)
- Reduction of overall energy use through efficient solution & data architecture
- Limit use of generators at project sites to emergency situations
- Foster the use of energy self-sufficient solutions (e.g. PV)



As Scope 3 greenhouse gas emission categories: upstream transportation and distribution (C4), upstream leased assets (C8), downstream transportation and distribution (C9), processing of sold products (C10), end-of-life treatment of sold products (C12), downstream leased assets (C13), franchises (C14) and Investments (C15) are either not applicable or have insignificant related GHG emissions, no corresponding sustainability requirements needed to be defined.

Legal aspects

Kapsch TrafficCom's most relevant legal obligations⁸ regarding environmental sustainability are:

- EU Taxonomy Regulation for Sustainable Activities⁹
- Ecodesign for Sustainable Products Regulation (ESPR)
- Corporate Sustainability Reporting Directive (CSRD)
- Restriction of Hazardous Substances (RoHS)
- Registration, Evaluation and Authorization of Chemicals (REACH) Regulation
- Waste from Electric and Electronic Equipment (WEEE)
- Conflict Minerals (T3&G)
- Electromagnetic Compatibility (EMC)

The overall goals of the current environmental sustainability-related legislative framework are to:

- maximize the positive environmental impact of companies' portfolios
 - (EU Taxonomy Regulation for Sustainable Activities)
- minimize the negative environmental impact of companies' portfolios
 - (Ecodesign for Sustainable Products Regulation)
- ensure utmost transparency for all stakeholders (CSRD)
- minimize the amount of pollutant and electronic waste (RoHS, REACH, WEEE)
- decrease conflict and illegal exploitation of minerals (T3&G)
- prevent interference due to radio emissions (EMC)



⁹ Kapsch TrafficCom believes that it is able to fulfill the environmental objectives of the Taxonomy Regulation 2020/852 listed in Article 9 and the minimum safeguards listed in Article 18 of that same regulation.



Abbreviations

Abbrevation	Name
3T&G	Tin (Sn), tantalum (Ta), tungsten (W) and gold (Au)
CO ₂	Carbon dioxide
CSRD	Corporate Sustainability Reporting Directive
EMC	Electromagnetic compatibility
ESPR	Ecodesign for Sustainable Products Regulation
HSSEQ	Health, Safety, Security, Environment, Quality
KTC	Kapsch TrafficCom
NOx	Nitrogen monoxide, nitrogen dioxide
PM	Particulate matter
REACH	Registration, Evaluation and Authorization of Chemicals
RoHS	Restriction of Hazardous Substances
WEEE	Waste from Electric and Electronic Equipment

Sources

Reference	Source
Greenhouse Gas Protocol	https://ghgprotocol.org/ (Last visited: March 22, 2024)
Greenhouse Gas Protocol FAQ	https://ghgprotocol.org/sites/default/files/standards_supporting/FAQ.pdf (Last visited: March 22, 2024)
Greenhouse Gas Overview	https://ghgprotocol.org/sites/default/files/standards/Corporate-Value-Chain-Accounting-Reporing-Standard_041613_2.pdf (Last visited: March 22, 2024)
World Resource Institute	https://www.wri.org/insights/everything-you-need-know-about-fastest-growing-source-global-emissions-transport (Last visited: March 22, 2024)
EU Taxonomy Regulation for Sustainable Activities	https://finance.ec.europa.eu/sustainable-finance/tools-and-standards/eu-taxo-nomy-sustainable-activities_en (Last visited: March 22, 2024)
Ecodesign for Sustainable Products Regulation (ESPR)	https://commission.europa.eu/energy-climate-change-environment/standards-tools-and-labels/products-labelling-rules-and-requirements/sustainable-products/ecodesign-sustainable-products-regulation_en (Last visited: April 3, 2024)
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Ecoprofit program	https://unternehmen.oekobusiness.wien.at/en/ (Last visited: March 22, 2024)
Detailed environmental sustainability guideline	Kapsch TrafficCom internal document
Sustainability requirements repository	Kapsch TrafficCom internal requirements repository

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Kapsch TrafficCom

Kapsch TrafficCom is a globally renowned provider of transportation solutions for sustainable mobility with successful projects in more than 50 countries. Innovative solutions in the application fields of tolling, tolling services, traffic management and demand management contribute to a healthy world without congestion.

With one-stop-shop solutions, the company covers the entire value chain of customers, from components to design and implementation to the operation of systems.

Kapsch TrafficCom, headquartered in Vienna, has subsidiaries and branches in more than 25 countries and is listed in the Prime Market segment of the Vienna Stock Exchange (ticker symbol: KTCG). In its 2022/23 financial year, about 4,000 employees generated revenues of EUR 553 million.

>>> www.kapsch.net







