

Transparency in logistics – HRX’s new CO₂ calculator is based on the global GLEC standard

Dear Customer,

Sustainability is no longer just words. Increasingly, it is precise data and measurable actions. At HRX, we understand that emissions data in transport chains is a key part of your company’s environmental reporting and decision-making. That is why we have developed a new emissions calculator that brings unprecedented accuracy and reliability to tracking the carbon footprint of your shipments.

A standard you can trust: the GLEC Framework

The core of our calculator is based on the GLEC Framework (Global Logistics Emissions Council). It is the only globally accepted method for calculating greenhouse gas emissions in logistics. GLEC compliance means the data we provide is comparable and meets even the strictest international reporting standards, including the requirements of the new ISO 14083 standard.

We use dynamic factors in our calculations that take into account the entire lifecycle of transport (Well-to-Wheel). This means we do not only calculate tailpipe emissions; we also include the impact from fuel production and distribution. For example, for Euro 6 class diesel transport we use a standardized factor of **0.0520 kg CO₂e/tkm**.

Technical accuracy in every kilometer

HRX’s calculator does not rely on rough estimates. It is built to meet the challenges of today’s supply chains:

- **Dynamic load allocation:** The calculator analyzes the theoretical maximum capacity and load factor of each vehicle type. For example, for heavy vehicle combinations we use the default load factor recommended by GLEC, so emissions are allocated fairly in proportion to the actual weight of the cargo.
- **Multimodal recognition:** The system automatically detects ferry legs on a route and applies the special coefficient for maritime transport (**0.0220 kg CO₂e/tkm**). This ensures that routes crossing the Baltic Sea are always reported based on the actual routing.
- **Verified calculation formula:** The logic of our emissions calculation is fully transparent and auditable. A version-controlled calculation process ensures that the latest scientific knowledge and correct coefficients are always used, without the risks of manual work.

What does this mean for you?

Whether you need emissions data as part of mandatory CSRD reporting or you want to optimize the environmental impact of your supply chain, HRX provides you with ready-to-use tools.

The new emissions calculator and comprehensive reports are now directly available to you in the HRX customer portal.

HRX is committed to continuous improvement. Our new calculator is a step towards more transparent and more sustainable logistics — together with you.

Calculator available on the customer portal: <https://customer.hrx.eu/>

Kind regards,
The HRX Team