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Panalpina introduces new advanced CO2 calculation tool for customers

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Effective immediately, Panalpina will automatically calculate all customers' emissions from the transport services they use based on the reporting standard EN 16258. This recently introduced European standard includes upstream emissions from fuel production, other greenhouse gases besides CO2 and energy consumption. The state-of-the-art tool "EcoTransIT World" will run more accurate reports for customers so they can develop effective strategies to reduce the environmental impact of their global transport chains.

EcoTransIT calculates emissions for each shipment including pre- and on-carriage movements based on distance, weight, transport mode, and the type of vessel or aircraft. The latter can usually be derived from flight numbers. For air freight, the actual routing – this can involve several airports – is used. For ocean freight, the ship size and speed reductions are considered. Distances are calculated using comprehensive GIS (Geographic Information System) data. Besides worldwide up-to-date road networks this database also contains the geographic coordinates of over 100,000 airports and ports.

All necessary shipment information is sent from Panalpina's communication platform to EcoTransIT servers where sophisticated algorithms are applied to calculate CO2 emissions and other parameters, such as particulate matter, as precisely as possible. The results are sent back to Panalpina where all the data is stored. Panalpina can then use this data to run reports and send them to the customers as needed.

"EcoTransIT is a proven technology for mass calculations with a flexible interface. With the new system we can run far more accurate and detailed reports and do it much more efficiently than in the past," says Lindsay Zingg, global head of Quality, Health, Safety and Environment at Panalpina. "Our next step will be to make the tool directly accessible to our customers. Our goal is also to be able to give up-front online information on the CO2 impact of a single shipment. Our final stage will be to include CO2 levels and other environmental data in invoices."

EcoTransIT is aligned with the recently introduced EN 16528 European standard for the calculation and declaration of energy consumption and greenhouse gas emissions of transport services. The standard goes beyond the usual CO2 reporting and emissions are disclosed as CO2 equivalents (CO2e). CO2 equivalents include greenhouse gases other than CO2. For transport processes these include methane (CH4) and nitrous oxide (N2O), which are converted to CO2 equivalents with a factor of 25 and 298, respectively (i.e. 1 kg of CH4 is equal to 25 kg of CO2). Upstream emissions from fuel production are also included in the new standard, while the total energy needed to make a shipment is expressed in gigajoules (GJ).

"We want to be a pro-active player in environmental aspects. By providing our customers with the best possible accuracy and transparency for measuring the environmental impact of their shipments, we enable them to make informed decisions about the optimal mode of transport and

routes,” comments Zingg.

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Calculation tool [jpg | 1 MB]

Panalpina uses EcoTransIT for advanced CO₂ calculation and reporting.

Notes to the editor:

[Panalpina's PanGreen program](#)

Panalpina considers environmental protection to be a key obligation. PanGreen is Panalpina's global program for green solutions and part of its strategy for sustainable growth. Under PanGreen, the company has achieved global certification to the standard ISO 14001. An internal CO₂ monitoring system has been put in place and subcontractors are encouraged to reduce their CO₂ emissions. The new advanced CO₂ calculation for customers' shipments based on the reporting standard EN 16258 marks the latest achievement of the PanGreen program.

[About Panalpina](#)

The Panalpina Group is one of the world's leading providers of supply chain solutions. The company combines its core products of Air Freight, Ocean Freight, and Logistics to deliver globally integrated, tailor-made end-to-end solutions. Drawing on in-depth industry know-how and customized IT systems, Panalpina manages the needs of its customers' supply chains, no matter how demanding they might be. The Panalpina Group operates a global network with some 500 offices in more than 70 countries, and it works with partner companies in a further 90 countries. Panalpina employs around 16,000 people worldwide who deliver a comprehensive service to the highest quality standards – wherever and whenever.