

Overview Calculation Tools for logistics emissions  
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	BigMile	EcoTransIT World (ETW)	GreenRouter	LogEC	REFF Assessment Tool	TK'Blue – GHG calculator	Via Green Program (VGP)
<b>Name</b>	BigMile	EcoTransIT World (ETW)	GreenRouter	LogEC	REFF Assessment Tool: Resource efficiency at logistics sites	TK'Blue Agency – GHG calculator	Via Green Program (VGP)
<b>SFC-accredited</b> <a href="https://www.smartfreightcentre.org/en/working-with-glec-accredited-partners/">https://www.smartfreightcentre.org/en/working-with-glec-accredited-partners/</a>	No	Yes: Data scope: well-to-wheel GHG emissions, expressed in units of CO <sub>2</sub> equivalent according to the scopes of the GHG Protocol Input data types: Modelled, Carrier (Disaggregated) Modal coverage: Road, Rail, Air, Inland Waterways, Sea, Logistics Sites Geographic coverage: Global	Yes: Data scope: well-to-wheel GHG emissions, expressed in units of CO <sub>2</sub> equivalent according to the scopes of the GHG Protocol Input data types: Default, Modelled, Carrier (Aggregated/Disaggregated) Modal coverage: Road, Rail, Air, Inland Waterways, Sea, Logistics Sites (Defaults only) Geographic coverage: Global	Yes: Data scope: well-to-wheel GHG emissions, expressed in units of CO <sub>2</sub> equivalent according to the scopes of the GHG Protocol Input data types: Default, Modelled, Carrier (Aggregated/Disaggregated) Modal coverage: Road, Rail, Air, Inland Waterways, Sea, Logistics Sites Geographic coverage: Global	Yes: Data scope: well-to-wheel GHG emissions, expressed in units of CO <sub>2</sub> equivalent according to the scopes of the GHG Protocol Input data types: Modelled, Primary Modal coverage: Logistics Sites Geographic coverage: Global	Yes: Data scope: well-to-wheel GHG emissions, expressed in units of CO <sub>2</sub> equivalent according to the scopes of the GHG Protocol Input data types: Default, Carrier (Aggregated/Disaggregated) Modal coverage: Road, Rail, Air, Inland Waterways, Sea	No
<b>Website</b>	<a href="http://www.bigmile.eu">www.bigmile.eu</a>	<a href="http://www.ecotransit.org">http://www.ecotransit.org</a>	<a href="https://www.greenrouter.it/?ln=en">https://www.greenrouter.it/?ln=en</a>	<a href="http://www.logec.net">www.logec.net</a>	<a href="https://s.fhg.de/reff">https://s.fhg.de/reff</a>	<a href="http://www.tkblueagency.com">www.tkblueagency.com</a>	<a href="http://www.viagreen.org.br/eng/">http://www.viagreen.org.br/eng/</a>
<b>Description</b>	BigMile is a method and tool to extract business intelligence from actual transport data. The added value of goods transported/crossdocked/stored is related to energy inputs, time spent and resources used. Ready for use, from simple transport up to complex international supply chains with a great variety of inputs or even lack of data, and multiple layers of subcontracting. The online available intelligence allows individuals companies or collective supply chains to analyze their performance in detail, showing direct potential for operational improvement. One of audited outputs is a certified footprint statement, available for various formats or standards.	EcoTransIT World is a tool to calculate the energy consumption and the emissions of any global intermodal freight transport. A large amount of data, invisible to the front-end user, allow precise calculations based on relatively simple transport definitions. The tool is based on a massive database of basic emission factors and vehicle consumption characteristics which forms the basis to calculate the emissions in combination with the transport parameters. To calculate transport distances, ETW provides a global routing which is unique in this way. A global traffic network has been recorded for each type of traffic to allow an accurate calculation of transport routes. Based on the published and publicly available methodology, ETW applies formulae for each individual leg of a transport chain (e.g. different road categories, ferry transfers, energy mixes in different countries etc.) to calculate the energy consumption and emission values for each transport type used, adding up every section to a total for the complete transport chain. ETW has over 40 users calculating annually over 180 million transport services within the Business Solutions of EcoTransIT World.	GreenRouter, encourages the introduction of environmental aspects in logistics activities, and supports managers in their daily decision-making processes. This thanks to a user-friendly interface, a full set of "environmental KPIs", and advanced features such as emissions forecasting and projection. Beside from being a managerial tool, GreenRouter provides a valid support to the formalization of GHG emissions calculation processes, thanks to its reliable but flexible data structure. GreenRouter is also ready for ESG reporting and communication, as its calculation and reporting engine is fully compliant with well known standards in both transportation and logistic buildings GHG emissions calculation.	LogEC is an emissions calculator that is certified according to EN 16258 and French decree. It covers all modes of transportation on a global scale. The general idea of LogEC to supply an integrated and fully automated accounting system for emissions along the supply chain. To support this the SAP Cloud Platform (SCP) was chosen as the technical backbone to allow quick and easy interfaces to ERP and TMS-Systems. Architecture is designed to process complex transport chains and billions of shipments/products per month. LogEC can handle different data granularities from track & trace level to transport invoice level. For shipper LogEC provides proven work arounds for missing data, e.g. 3PL networks, trade lanes and routing engines. Furthermore, allocation can drill-down to single products and/or customers. Various default values e.g. from EN16258, French decree, HBEFA, Clean Cargo and OEM's are embedded. Pre-configured dashboards are available to fulfill typical reporting requirements from the beginning in conjunction with customizable reports. Sophisticated business support for calculation and reduction topics. Technical support 24/7 via ticket system and hotline.	The REFF Tool focuses the GHG assessment of logistics sites using the methodology described in the "Guide for GHG emissions accounting for logistics sites", which was developed as a supplement to the GLEC Framework. It enables online data collection for the subsequent calculation of GHG emissions of one or more sites [tonnes CO <sub>2</sub> e/a] and an average emission intensity values per site [kg CO <sub>2</sub> e/tonne]. The results are presented for direct use in the GLEC Declaration and companies get the possibility to monitor the company's resource efficiency over the years. The REFF tool also aims at supporting the further development of environmental KPIs in the storage and transshipment sector.	The TK'Blue GHG calculator is a service offered by TK'Blue Agency in the scope of its environmental rating activities which includes a large range of externalities evaluation. GHG calculator is conformant with EN 16258 standard and the French regulation.	VGP was conceived by Via Green Institute with the objective of promoting Environmental Management in organizations that work in the various sectors of the economy; stimulating them for monitoring of its environmental aspects and adopting good practices for sustainability. The VGP's Emission module has a tool for atmospheric pollutants management from cargo and passenger transportation sector, integrating all supply chain. It is an innovative tool offers a set of initiatives for the complete management of emissions of greenhouse gases from the transport operations of member organizations.
<b>Tool Scope</b>	BigMile	EcoTransIT World (ETW)	GreenRouter	LogEC	REFF Assessment Tool	TK'Blue – GHG calculator	Via Green Program (VGP)
<b>Geographic application</b>	Global, or list any regional restrictions (if necessary by mode)	Global	Global, Note: Road Vehicle categories are based on European emission standards (ex. euro 5)	Global	Global	Global	Global
<b>Industry Sectors</b>	All, or list any restrictions	All	All Bulk shipments are not supported	All, but with strong features especially for shippers	All	All	All
<b>Targeted Customers</b>	Shipper	Y	Y	Y	Y	Y	Y
	Freight Forwarder / Logistic Service Providers	Y	Y	Y	Y	Y	Y
	Carrier / Transport Operator	Y	Y	Y		Y	Y
	Transportation Management System Provider	Y	Y	Y		Y	Y
	Other	Retailer	Consulting companies NGOs Tool providers	TMS Provider, Transport Market Places, NGOs, Governments, Municipalities/ Cities, etc	Operators of logistics sites (e.g. warehouses, transshipment sites, distribution centers)	Transport Market places	
<b>Modes</b>	Road	Y	Y	Y	N	Y - with urban logistic and inter-urban differentiation	Y
	Rail	Y	Y	Y	N	Y	Y
	Inland waterways	Y	Y	N	Y	Y	Y
	Sea	Y	Y	Y	N	Y - with short and deep sea differentiation	Y
	Air	Y	Y	Y	N	Y	Y
<b>Logistics sites</b>	Y/N	Y	Y	Y (CLECAT guidelines – compliance)	Y	Y	Y
<b>If yes, add type of sites covered:</b>	Transshipment center, cross docking etc.	Y	Y	Y	Y	Y	Y
	Container terminals	Y	Y	Y	N	Y	Y
	Warehouses	Y	Y	Y	Y	Y	
	Others	Any desired		Point of sales	Emissions, Waste, Water, Energy Consumption + Production		
<b>Energy &amp; emissions</b>	CO <sub>2</sub> emissions	Y	Y	Y	Y	Y	Y
	GHG emissions, as CO <sub>2</sub> e	Y	Y	Y	Y	Y	Y
	Energy consumption	Y	Y	Y	Y	Y	Y
	Air pollutants, please state:		NO <sub>x</sub> , SO <sub>x</sub> , NMHC, PM10 If needed separated per leg, country, transport mode, type of fuel used	Particulate matter (PM)	GHG, CH <sub>4</sub> , CO, HC, N <sub>2</sub> O, NH <sub>3</sub> , NMHC, NO <sub>2</sub> , NO <sub>x</sub> , Pb, PM, PN, SO <sub>2</sub>	NO <sub>x</sub> PM 2.5 (exhaust and nonexhaust) SO <sub>x</sub> NMVOC	

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<b>Other impacts</b>	Please describe, e.g. social, costs, noise....	Time spent, costs, infrastructure use (bundling effectiveness), warehouse use		Logistic Costs (expected release date: 2020)	Costs for off-setting, lead-times, costs, etc	No	Social cost of climate change, pollutants, noise, accident, congestion and upstream	Mapping all GHG emission from supply chain of members.
<b>Tool Governance / Owner</b>		BigMile	EcoTransIT World (ETW)	GreenRouter	LogEC	REF Assessment Tool	TK'Blue – GHG calculator	Via Green Program (VGP)
<b>Provider / Governance / Owner / Program (EU)</b>		Private company: Big Mile	Non-profit: IVE mbH The tool is steered by all users of the tool within the EcoTransIT World Initiative	Private company: GreenRouter S.r.l.	Private company: BearingPoint Business Services B.V. NL	Non-profit: Fraunhofer Institute for Material Flow and Logistics IML	Private company with independent scientific councils and supervisory board: TK'Blue Agency	Non-profit: Via Green Institute
<b>Access</b>		Open access for any customer	Open access for any customer at <a href="http://www.ecotransit.org">http://www.ecotransit.org</a> for free (single calculation) Features of Business Solution via annual license or consulting projects	Open access for any customer	Open for members only	Open access for any customer upon registration	Open for members only	Open for members only
<b>Fee structure / Price range</b>	Free to members		Single calculation free				Free for carriers	Y
	Limited free module	Y	Flat rate and price-per-calculation license models					
	Once-only cost	Y	(Business Solutions)					
	Pay-per-use fee (e.g. pay per calculation, contingents)	Y	Consulting projects for supported calculations		Y		Annual Fees for shippers	
	Negotiated fee	Y		Y				
	Percentage of logistics budget or company turnover, (if possible) please state: ...							
	Other, please state: ...	Subscription				Free to registered users		
<b>Data Input Options</b>		BigMile	EcoTransIT World (ETW)	GreenRouter	LogEC	REF Assessment Tool	TK'Blue – GHG calculator	Via Green Program (VGP)
<b>Interface types / Support</b>	<b>Online data entry</b>	Y	Y	Y	Y			Y
	Website	Y	Y	Y	Y	Y	Y	
	CSV file	Y	Y	Y	Y		Y	
	Other	Y			Y		Y - Excel	
	<b>Batch data processing</b>	Y	Y		Y			Y
	Soap XML web service	Y	Y	Y	Y		Y	
	REST web service			Y	Y			
	Excel /CSV Upload	Y	Y	Y	Y		Y	
	Other		sFTP based file upload (CSV or XML based)	TMS/ERP custom interfaces FTP/sFTP server			FTP SFTP server	
	<b>3rd party service (added values)</b>	Y	Y		Y			Y
	Consultancy (Supported Calculation)	Y	Y	Y	Y	Y - negotiable bilaterally		
	Consultancy to reduce emissions, decision making	Y		Y	Y	Y - negotiable bilaterally	Y	
	Link to program labelling	Y			Y		Y	
	Other, please state (e.g. input data quality indicator or location editor tool): .....	Input Data Quality: check and improve	Additional tools to improve the overall calculation performance, like LocationEditor and LogViewer	3rd party service (added values): * CSR/ESG/Non-Financial Report: full support up to text editing * Logistics modelling * Scenario simulations, custom reporting, ... Batch data processing: * Flexible format data collection and data quality report/score	Data quality indicator or location editor, Data validation incl. valid range check, Data transformation and Mapping (ETL).....		Input data quality indicator Carrier labelling Road carrier CSR tool (ISO 26000)	
<b>Tool methodology general</b>		BigMile	EcoTransIT World (ETW)	GreenRouter	LogEC	REF Assessment Tool	TK'Blue – GHG calculator	Via Green Program (VGP)
<b>General calculation methodologies</b>	GLEC Framework (including core mode methodologies, e.g. Clean Cargo, EcoTransIT)	Y	Y		Y	Y	Y	Y
	EN16258	Y	Y	Y	Y		Y	Y
	Own methodology	Extended EN16258, Data Maturity definition	Approaches based on HBEFA data inputs and independent experts		Y			
	Other	COFRET adapted, CO2 Objectif, Smartways, Lean&Green	Third party data integration: o OAG: Flight number to plane type analyses & stop-over identification o Clean Cargo public trade lane factor (for all users) o Clean Cargo carrier trade lane factor-based calculations (only for Clean Cargo members) o GIS-data for word wide street, ocean, inland waterway and railway networks, locations as UN-/Locode	CLECAT guidelines on GHG emission calculation (logistic buildings)	Handbook of Emission Factors, Clean Cargo public and members, IEA, Google API for worldwide road, ocean, barge and railway, distances networks, locations as UN-/Locode, postal codes, city names, IATA codes, UIC codes, Long/Lat coordinate		Y - French Regulation	
<b>Methodology published?</b>	Yes	Yes, <a href="http://www.lean-green.eu">www.lean-green.eu</a> , <a href="http://www.bigmile.eu">www.bigmile.eu</a>	Yes, <a href="https://www.ecotransit.org/basis.en.html">https://www.ecotransit.org/basis.en.html</a> as long and short version		Yes, but only for members (IP)	Yes, <a href="http://publica.fraunhofer.de/documents/N-532019.html">http://publica.fraunhofer.de/documents/N-532019.html</a>	Yes, <a href="https://dev-tracking.tkblueagency.eu">https://dev-tracking.tkblueagency.eu</a> Access to methodology requires creation of account and declaration of transport service operation.	
	Level of detail	Summary of approach	Very comprehensive (Over 130 pages)		Comprehensive	Comprehensive	Comprehensive online step-by-step guidance for users	
	No			Available for customers upon written request and NdA				Only request by email <a href="mailto:contato@viagreen.org.br">contato@viagreen.org.br</a>
<b>Accreditation / Compliance / Certification</b>	SFC Accredited If Y, for statement see [insert weblink: www.....] and scope	N	Y	Y	Y	Y	Y	Y
	EN16258 compliant If Y, for statement see [insert weblink: www.....] and scope	Y	Y	Y	Y	No, as sites are excluded by EN	Y	Y
			<a href="https://www.ecotransit.org/calculation.en.html">https://www.ecotransit.org/calculation.en.html</a> (after calculation) Methodology confirmation letter from IVE, ifeu and infras	Refer to below	Refer to certification by Bureau veritas		Compliance to French Regulation delivered by Bureau Veritas	Only sent by email

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Certificates	Y	Y	Y	Y			
If Y, please state what is exactly certified	ISAE3000 Certification of output is done by accountants	ISAE 3402 (in the flow) via PWC, Certified process within IVE for the project EcoTransIT World	Calculation methodology for GHG emissions/energy, Reporting and Declaration compliance with EN16258 <a href="https://www.greenrouter.it/public/templates/cert_via_16258.pdf">https://www.greenrouter.it/public/templates/cert_via_16258.pdf</a>	Certified by Bureau Veritas for DIN EN16258 and French decree, Certified by SAP for IT			
Other			Calculation methodology for GHG emissions, Reporting and Declaration compliance with CLECAT guidelines chapter 11: "Calculating GHG emissions for freight forwarding and logistics services"	DIN EN16258 and French decree, Certified by SAP for IT			
e.g. French Regulation Y / N						Certificate of compliance delivered by Bureau Veritas Certification. Scope of certification is compliance of the GHG calculator with French regulation	
<b>Input data</b>	<b>Fuel based approach</b>				Primary operator energy data by site		
Primary carrier fuel data by trip	Y			Y		Y	Y
Aggregated carrier fuel data by transport chain element	Y			Y		Y	Y
Aggregated carrier fuel data by transport service	Y			Y		Y	Y
Aggregated carrier fuel data by vehicle type	Y			Y		Y	Y
Aggregated carrier fuel data for overall fleet	Y			Y		Y	Y
Fuel use calculated by tool using routing provided by customer	Y	Y	Y	Y			Y
Fuel use calculated by tool using internal routing parameters		Y	Y	Y			Y
Fuel use estimated using manufacturer data	Y	Y	Y	Y			Y
Fuel use estimated using generic, vehicle or mode based approach, please state (e.g. GHG Protocol generic truck fuel consumption): .....	Y	<ul style="list-style-type: none"> <li>o Truck: Handbook of Emission Factors, Motor Vehicles Emissions Simulator (MOVES)</li> <li>o Train: Own methodology from Ifeu Heidelberg based on determined fuel/electricity consumption curves from European railway companies</li> <li>o Airplane: Small Emitters Tool of Eurocontrol</li> <li>o Barge: Own methodology (compare methodology report)</li> <li>o Sea ship: Own methodology (compare methodology report), sea container transports GHG based on Clean Cargo methodology</li> <li>o Ferry: Average of applied ferry types (compare methodology report)</li> </ul>		Y - OEM data on fuel consumptions		Y	Y
<b>Transport Activity (tkm) calculation</b>					Not relevant for logistics sites		
Transport activity provided by customer	Y	Y	Y	Y		Y	Y
Transport activity calculated based on consignment and routing info provided by customer	Y	Y	Y	Y		Y	Y
Transport activity calculated based on consignment info provided by customer and tool's internal routing parameters	Y	Y	Y	Y		Y	Y
<b>Activity based approach</b>		N/A					
Combines transport activity with:							
Fuel / emission intensity value provided by carrier	Y	Y	Fuel intensity value provided by carrier	Y		Fuel intensity value provided by carrier	
Fuel / emission intensity from green freight program	Y	Y (e.g. Clean Cargo)		Y			
GLEC default fuel / emission intensity value for transport service or specific vehicle type	Y			Y			
Other default fuel / emission intensity value, please state (e.g. national database value)...	National database as applicable, tools available		Note: Each single shipment is fully detailed (routing, transport modes, vehicle type, ...) and singularly calculated by GreenRouter Note: fuel consumption parameters can be customized if customer's specific data is available			National database (French decree)	
<b>Geographical data</b>	<b>Routing sources by mode:</b>						
Road		GIS-data Europe Teleatlas, outside OpenStreetMap and other	Real data from customer / Here Maps (Truck specific routing)	API OpenStreetMap, Google Map	Not relevant for logistics sites	Here, google map	
Rail		GIS-data Europe Teleatlas, outside OpenStreetMap and other	Real data from customer / Internal engine: GIS	BNSF for US, by data provided by KombiVerkehr, plus various sources			Own database
Sea		Own created network, validated by sea carriers	Real data from customer / Internal engine: GIS	Linescape, vesseltracker plus various other sources		Portworld, Searoute	Own database, Clean Cargo and IMO

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Air		EN 16258 Great circle distance calculation plus start- and landing surcharge	Real data from customer / EN16258 standard method	Great Circle plus 95km, API to flightaware		Openflights.org	Own database
Inland waterway		Own created network based on OpenStreetMap data		ELVIS plus various other sources		VNF, Searoute	Own database
<b>Location information:</b>							
Zip codes	Y	Zip codes (global coverage, annually updated)	Y	Y	Y	Y	Y
UN- / Locodes	Y	UN- / Locodes (Harbor and inland locations, over 95.000)	UN- / Locodes => Ports	Y		Y	Y
IATA codes	Y	IATA codes (All existing IATA codes from the OAG timetable and more)	IATA codes => Airports	Y		Y	
City names	Y	City names (Over 900.000 city names plus 8 Mio postal codes and locodes)	City names (addresses, etc)	Y	Y	Y	Y
Long/ Lat coordinates	Y	Long/ Lat coordinates	Y	Y	Y	Y	
Features, please state: (e.g. automatic determination of transfer points, (harbors, airports, stations) or transport lines (e.g. ferries).....	NO routing: calculations are not based on models but real input data	Automatic identification of the relevant harbor, airport or railway station, including classification for short, medium or long-haul transports. For street transport automatically, inclusion of car- and railway ferries. Optional modeling of RoRo shipments in different scenarios (with truck, only trailer, etc.)	Network-based automated global Express shipment routing is possible	Routing engine / automatic determination of transfer points, (harbors, airports, stations) or transport lines (e.g. ferries) and 3PL networks.	Automatic determination of Long/ Lat coordinates using specified Zip codes / city names or vice versa		
<b>Fossil fuel emission data</b>	<b>General fuel types considered</b>						
Diesel	Y	Y	Y	Y	Y	Y	Y
Diesel with variable biodiesel component	Y	Y	Y	Y	Y	Y	Y
CNG	Y	Y	Y	Y	Y	Y	Y
LNG	Y	Y	Y	Y	Y	Y	Y
LPG	Y	Y	Y	Y	Y	Y	Y
HFO	Y	Y	Y	Y	Y	Y + MDO + MGO	Y
Gasoline	Y		Y	Y	Y	Y	Y
Gasoline with variable bioethanol component	Y		Y	Y	Y	Y	Y
Aviation fuel	Y	Y	Y	Y	N	Y - (Jet-A, Jet-B, AvGas)	Y
Others:		LNG/Diesel Hybrid MDO Electrification on the base of national electricity production mixes	Electricity (for electric trucks/trains)		Hydrogen Heating energy, i.e. natural gas, heating oil, district heating, geothermal energy, wood chips, wood pellets Leakage of refrigerants		
<b>Emission factor sources</b>							
GLEC Framework	Y	Y		Y	Y	Y	Y
EN 16258: Appendix A	Y	Y	Y	Y	Y	Y	Y
Handbook of Emission factors	Y	Y	Y	Y	Y	Y	Y
JRC (EU)	Y			(Y) -> LNG			
Greet (USA)	Y			(Y)			
French regulation	Y					Y	
UK BEIS (formerly Defra)	Y		Y	(Y)			
Other		Motor Vehicle Emission Simulator (MOVES) IMO report And many others (compare methodology report)	IEA electricity emission factors (Many others)	(Y) - IEA	IPCC for leakage of refrigerants, ecoinvent / PROBAS for additional energy sources	Clean Cargo	Own database, DEFRA UK, Brazil Government
<b>Renewable Energy Considerations</b>	Pure biofuels included	Y	Y	Available upon customer request	Y	Y	Y
Biofuel feedstocks differentiated	Y	Y		Y			Y
Flexible application by:							
Transport mode	Y	Y	Y	Y		Y	
Transport activity	Y	Y	Y	Y		Y	
Geography (e.g. per country, region, continent)	Y	Y	Y	Y	Y	Y	
Other information, please specify (e.g. ILUC consideration):...				Etrucks, LNG			
<b>Electricity generating mix options</b>	Single global electricity mix (base, year)	Y		Y - For intercontinental electric travel, + continental average for country to country travel	Y		Y
Country based production electricity mix (source(s), year(s))	Y	Y (Eurostat, update every second year)	Y	Y	Y	Y	Y
Customer specific electricity mix (source, year)	Y	Y	Y	Y	Y		
<b>Outputs, Reporting and Use</b>							
<b>Output data</b>	Total emissions	Y	Y	Y	Y	Y	Y
Emission per transport chain element	Y	Y	Y	Y		Y	Y
Differentiation of WTT and TTW emissions	Y	Y	Y	Y		Y	
Differentiation according to GHG Protocol scopes	Y		Y	Y	Y	Y	Y
Emissions intensity per tkm	Y	Y	Y	Y		Y	Y
Emissions intensity, other	Y		Y	Y	GHG per tonne or GHG per base unit selected by user (e.g. pallet, box, container)	Y	Y
Compatible with GLEC Declaration	Y	Y		(X)	Y	Y	Y
Statement of assumptions	Y	Y	Y	Y	Y	Y	Y

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	Statement of data type(s) used	Y	Y	Y	Y	Y	Y	Y
	Other			Fully customizable emission segmentation and comparison (date, lanes, transported sku, suppliers, ...) Downstream emission allocation along the supply chain				
Typical use(s) of tool outputs	Public reporting of total company logistics emissions	Y	Y	Y	Y	Y	Y	
	Reporting to customers, e.g. general per timeframe or carbon footprint on invoice	Y	Y	Y	Y	Y	Y	Y
	Internal performance metrics	Y	Y	Y	Y	Y	Y	Y
	Informing emission reduction decision making	Y	Y	Y	Y	Y	Y	
	Informing corporate policy & advocacy response	Y	Y		Y	Y	Y	
	Input to corporate marketing & CSR actions	Y	Y	Y	Y	Y	Y	
	Other	Collective (shippers with LSP and subcontractors) improvement of supply chain Operational performance feedback of collective performance	All kinds of usage are possible		Per product (PCF), product engine, tradeline, service, supplier, source region, demand region etc ....		Rating report of societal and environmental performances	