



Welcome to the **ORANGE** world

EcoTransIT CO₂ Calculator at Gebrüder Weiss

18 April 2012

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- Facts and figures of GW
- Why EcotransIT?
- Use of EcotransIT
 - for land transport
 - for overseas transport



4,600
Employees



1823
Date of founding of GW

3,500
Average number of GW trucks on
the road on any given day.

158
GW locations worldwide



830

Worldwide routes

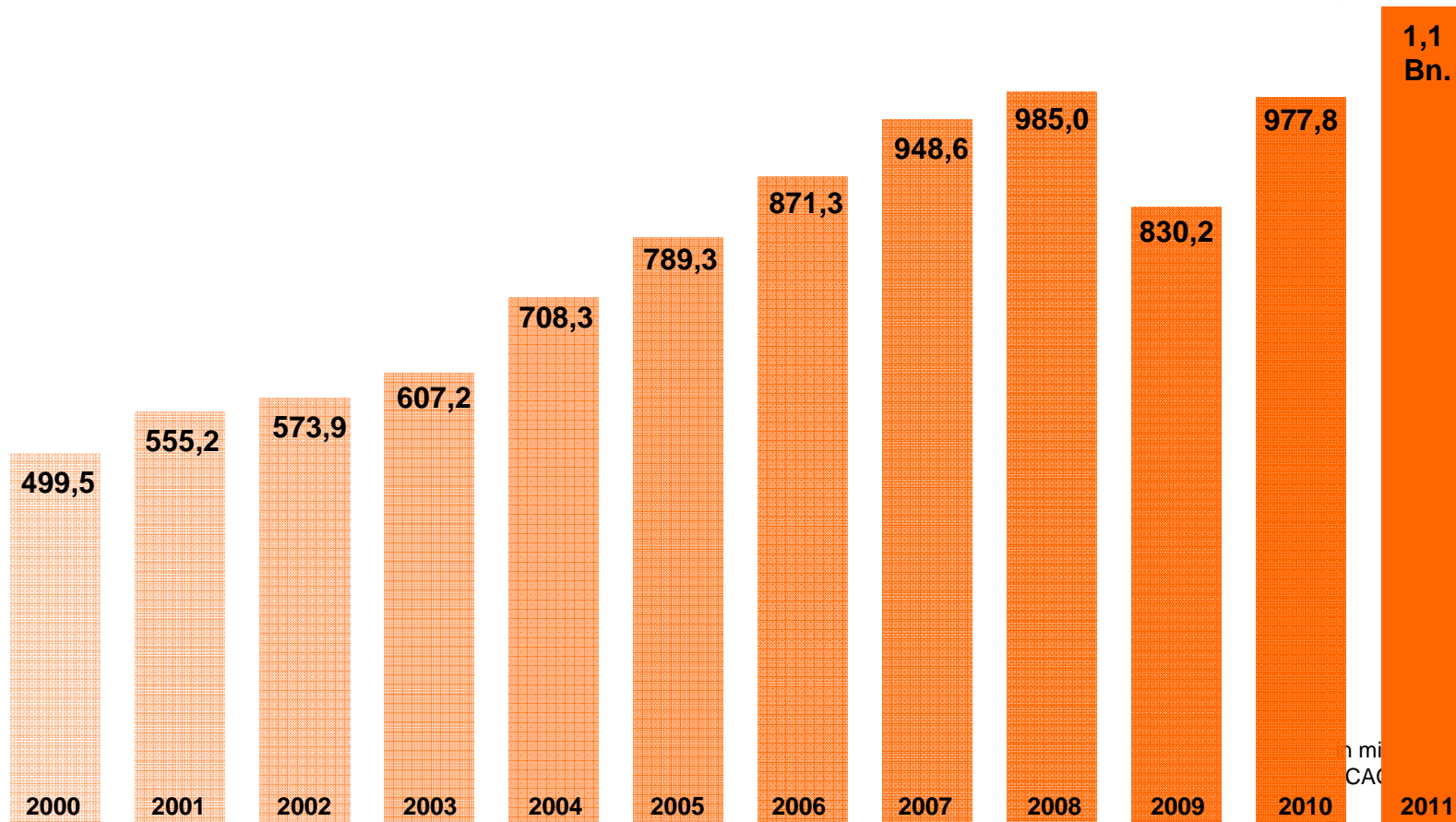
8,900,000

Consignments forwarded worldwide annually

450,000 m²

Logistics area

Development of net sales



EcoTransIT Co2 calculator

- GW joined **EcoTransIT** in 2011

- GW **decision** in favour of **EcoTransIT**:
 - Proven tool with a long track record
 - Sound scientific background (Öko-Institut and IFEU)
 - Bulk data processing is possible
 - Consortium massively involved in CEN standard development

- **Planned output** from **EcoTransIT**:
 - CO₂ emissions on customer and transport-specific invoices
 - On customer basis for all shipments
 - At the branch level
 - At the vehicle level



EcoTransIT Co2 calculator



- **GW deliver transport data at the consignment and long leg position with a secured interface to EcoTransIT**
- **Initial data stored in EcoTransIT (emissions at the vehicle level) will primarily be average values; GW improve continuously the data quality)**
- **Why average values?**
 - GW has exact consumption data available only to a partial extent (e.g. partners)
 - This is allowed by the CEN standard
 - This is currently common practice
- **Schedule:**

➤ Completion of high-level IT design	End of February 2011
➤ Completion of programming	End of May 2011
➤ Tests and debugging	End of September 2011
➤ Go live at branch level	Starting November 2011



EcoTransIT Co2 calculator

- GW can provide reports as **Excel File** to customers



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	Erstellungsdatum:		06.03.2012										Gebrüder Weiss		
2	Berichtszeitraum:		01.01.2012 - 06.03.2012										Transport und Logistik		
3	Erstellt von:		Sutterluety Christian												
4															
5	Bericht erstellt für:		SCHOELSE01												
6			Customer												
7			CH 9475 Sevelen												
8															
9															
												Entfern.	Primärenergieaufwand[MJ]		CO2-Emi:
10	Sendungsdatum	GW Job Nr.	Auftrag Nr.	Absender	Abs Land	Abs PLZ	Empfänger	Empf Land	Empf PLZ	Gewicht [kg]	[km]	Well-to-Tank	Tank-to-Wheel	Well-to-Wheel	Well-to-Tank
11	01.02.2012	2540293152	FEBER 2012	Customer	CH	9475	diverse Kunden Europa	CH	9999	20337	67	240,01	788,00	1026,01	9,77
12	11.01.2012	2518221138	87257	Customer	CH	9475	SAMPLEX AG	CH	5012	98	201	9,82	31,57	41,18	0,39
13	16.01.2012	2520158748	.	Gebroeder Weiss AG	CH	9423	Customer	CH	9475	624	53	16,08	52,78	68,86	0,85
14	17.01.2012	2520589769		VEROSOL FABRICS B	NL	7151 HZ	Customer	CH	9475	360	775	71,79	241,53	313,32	2,83
15	20.01.2012	2521117461	378022	Customer	CH	9475	MORREKS ÄRIGRUPP O	EE	11317	179	2139	68,61	232,47	301,08	2,69

- GW can also provide results via interface to customers

CO2 calculation example overland transport

1.9 ton Consignment from CH-3186 to SI-6210
via Pratteln (Basel), Altenrhein, Ljubljana



Algorithm for Long Leg Calculation



- One calculation for each long leg
- Chargeable weights of all consignments on a long leg are added up
- Vehicle type (e.g. 24-40t), emission standard (e.g. EURO V), load factor and empty trip factor are determined
- Data set for the long leg is created and submitted to EcoTransIT
- Emission results from EcoTransIT are distributed among the consignments depending on the chargeable weight of each consignment
- Results are saved for each consignment for each long leg

Algorithm for Pick Up / Delivery

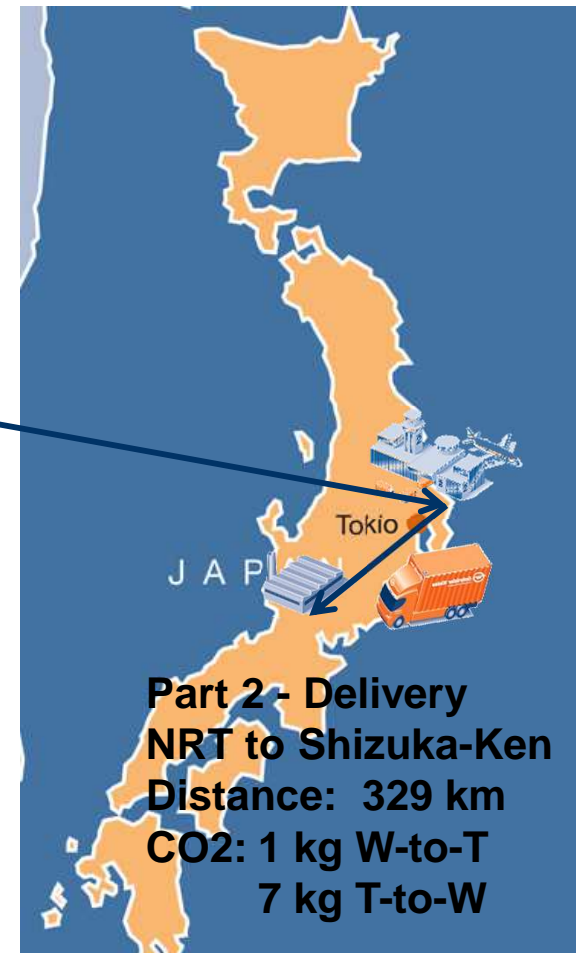


- One calculation for each consignment
- Weight of the consignment, vehicle type (e.g. 24-40t), emission standard (e.g. EURO V), load factor and empty trip factor are determined
- Data set for the pick up / delivery is created and submitted to EcoTransIT
- Emission results are saved independently for pick up and delivery

Calculation for Consignments

Example overland transport

Consignment 0.16 ton from CH-9475 to JP-430 Shizuoka via Wolfurt (HOH), Zurich (ZRH), Toyko-Narita (NRT)



Algorithms for air and sea freight:

- Same rules apply as for road freight
- Plane and ship types are selected by EcoTransIT depending on airports, ports and routes
- Load factor and empty trip factor are determined by EcoTransIT
- Long hauls are calculated for each consignment independently



**Thank you for
your attention!**

GW moves