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# Calculating a business' environmental balance for customer transports.

EcoTransIT World Stakeholder Workshop, 5th October 2010  
Headquarter UIC, Paris

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*SBB Cargo AG*



## Objectives.

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### external

- offer to clients reliable data about emissions caused by their rail transport with SBB Cargo
- put in evidence the differences of the rail and road transport when it comes to emissions
- offer clients an instrument that can be used for their own communication and marketing activities

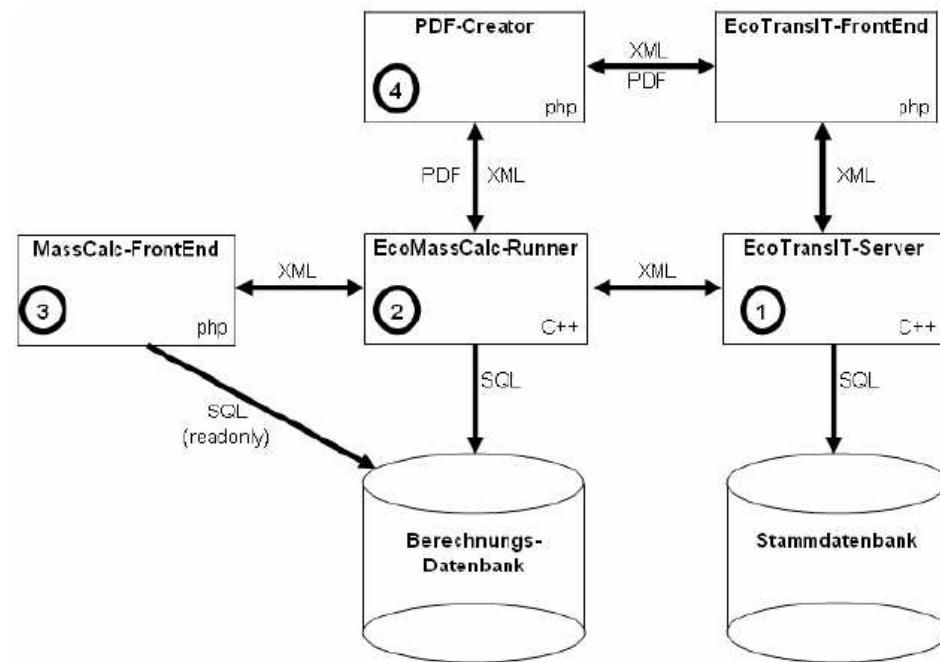
### internal

- automated system for calculating customers' emissions
- being flexible (period and transport relations) in accounting
- easy to use for multiple users
- secure handling of customer data



## Solution: EcoTransIT Masscalculation.

- data source: data warehouse SBB Cargo
- calculation and output creation: EcoTransIT Server
- secured Web interface for SBB Cargo
- possibility to enter specifications of technical and operational details
- possibility to enter output specifications



# User Interface.



## Massenkalkulation

[Jobliste](#) [Job erstellen](#)

**Zusätzliche Berechnungsangaben:**

**Gutart:**

	Transportart	Schadstoffklasse	Beladungsgrad	Leerfahrtanteil
<b>LKW:</b>	<input type="text" value="40 Tonnen"/>	<input type="text" value="EURO5"/>	<input type="text" value="58"/>	<input type="text" value="17"/>
<b>Zug:</b>	<input type="text" value="mittellanger Zug"/>	<input type="text" value="Elektro"/>	<input type="text" value="58"/>	<input type="text" value="50"/>

**Datei:**

**Layout Report::**

**Sprache:**  de  it  fr  en

**Logo:**    

**Kundenname auf dem Report:**

Relationen im Anhang aufführen

# Standardised input.

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0901-0909	ATG	4011 ATG	80204073	Ingolstadt Nord	80210278	Osnabrück	3366877	4650
0901-0909	ATG	4011 ATG	80204073	Ingolstadt Nord	80010751	Hamburg	112779987	6550
0901-0909	ATG	4011 ATG	80204073	Ingolstadt Nord	80113373	Darmstadt	22335555	5332
0901-0909	ATG	4011 ATG	80204073	Ingolstadt Nord	80101857	Essen	18469237	12300
0901-0909	ATG	4011 ATG	80204073	Ingolstadt Nord	87271734	Villers-Cotter	178899978	6455
0901-0909	ATG	4011 ATG	80204073	Ingolstadt Nord	80053603	Kassel	23889	2460
0901-0909	ATG	4011 ATG	80204073	Ingolstadt Nord	80034959	Neuseddin	33488	4150



UIC-Code



UIC-Code





Tonnage

# List of results.




## Massenkalkulation

[Jobliste](#)   [Job erstellen](#)


Jobs:	350	Jobliste				
Job ID	Name	Status	Datum	Zeit		
501	ERS Railways	Erledigt	24.09.2010	13:14:50	EN	  
497	██████████	Erledigt	24.09.2010	10:50:39	DE	  
496	██████████	Erledigt	23.09.2010	14:56:03	FR	  
495	██████████	Erledigt	23.09.2010	14:51:37	FR	  
494	██████████	Erledigt	23.09.2010	14:44:10	DE	  
493	██████████	Erledigt	22.09.2010	14:57:11	FR	  
492	██████████	Erledigt	22.09.2010	09:50:24	DE	  
491	██████████	Erledigt	22.09.2010	09:49:54	DE	  


# Output for ERS Railways®



Our environment says thank you.  
Between 01.01.2009 and 31.12.2009,  
ERS Railways saved 51 195 tonnes of  
CO<sub>2</sub> emissions.

And rendered 61 710 lorry journeys unnecessary.  
For more detailed information, please turn the page.



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**Emissionreporting**  
Organization / customer: LHS Railways  
Calculation period: 01.01.2009 - 31.12.2009  
Routes: All routes  
Transported tonnage: 195 312 t

In your hands, you're holding a list of all the emissions of harmful substances that your shipments using SBB Cargo have generated. To illustrate this, the emissions of harmful substances generated by your rail shipments have been compared to road transport using a lorry. This allows you to see at a glance the associated impact on the environment. All shipments by SBB Cargo where your company appears as the sender, recipient or freight payer have been included.

**Custom diesel (Lorry)**

Mode	CO <sub>2</sub> emissions (tonnes)
Lorry	50 401
Train	7 381
<b>Savings (tonnes)</b>	<b>43 020</b>
<b>Savings in %</b>	<b>85 %</b>

Custom diesel (Lorry) is only responsible for saving the equivalent of 1.8 t of CO<sub>2</sub> per tonne of goods, while road transport is responsible for 27.8 t of CO<sub>2</sub> per tonne of goods.

**Primary energy consumption (the diesel equivalent)**

Mode	Primary energy (the diesel equivalent) (tonnes)
Lorry	101 801 100
Train	11 501 150
<b>Savings (the diesel equivalent)</b>	<b>90 300 000</b>
<b>Savings in %</b>	<b>89 %</b>

Primary energy is the energy available from natural energy sources (e.g. oil or hydroponic).

SBB Federal Railways CFF Cargo  
Customer Service  
Tel Switzerland 0800 707 180 • Tel Comp 4 808 80 7227 2224  
Tel Switzerland 0800 707 818 • Tel Comp 4 808 80 7227 4339  
Email: [customer-service@ers.ch](mailto:customer-service@ers.ch) • [ers@ers.ch](mailto:ers@ers.ch)

Centralbahnzone 4 - CH-4005 Basle  
[cargo@sbb.ch](mailto:cargo@sbb.ch) • [www.sbb-cargo.com](http://www.sbb-cargo.com)

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**CO<sub>2</sub> emissions (diesel equivalent)**

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<b>Savings in %</b>	<b>85 %</b>

responsible for initiation and damage  
right for the use of resources for  
...

**Main cause of forest decay and of both  
swallow (Hirpinus) and beech (Fagus)**

[www.stn.ch/forest/eng/040](http://www.stn.ch/forest/eng/040)

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[cargo@sbb.ch](mailto:cargo@sbb.ch) • [www.sbb-cargo.com](http://www.sbb-cargo.com)

# Carbon-neutral Shipments are better received by the customers – Become a climate change role model.



 											
<p>Compensation CO<sub>2</sub></p> <table border="1"> <tr> <td>Organisation / client</td> <td>Centon</td> </tr> <tr> <td>Période de compensation</td> <td>01.01.2009 - 31.12.2009</td> </tr> <tr> <td>Débit/du</td> <td>Voir annexe</td> </tr> <tr> <td>Tonnes transportées</td> <td>12 318 t</td> </tr> <tr> <td><b>Frais de compensation CO<sub>2</sub> pour tout le cycle de vie de vos transports avec CFF Cargo</b></td> <td><b>Euro 8 204</b> (pour des projets du partenariat myclimate - Gold Standard)</td> </tr> </table>		Organisation / client	Centon	Période de compensation	01.01.2009 - 31.12.2009	Débit/du	Voir annexe	Tonnes transportées	12 318 t	<b>Frais de compensation CO<sub>2</sub> pour tout le cycle de vie de vos transports avec CFF Cargo</b>	<b>Euro 8 204</b> (pour des projets du partenariat myclimate - Gold Standard)
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<p><b>Transport neutre pour le climat avec CFF Cargo et myclimate</b></p> <p>En choisissant CFF Cargo pour votre transport ferroviaire, vous avez déjà pour l'environnement en évitant l'émission de plusieurs tonnes de CO<sub>2</sub>. Si vous voulez en faire plus encore pour l'environnement, vous pouvez désormais rendre vos transports avec CFF Cargo entièrement neutres pour le climat en versant un montant de compensation.</p> <p><input type="checkbox"/> Nous aimerions rendre nos transports avec CFF Cargo neutres pour le climat et marquerons notre accord pour que myclimate nous facture les frais de compensation et nous mette à contribution.</p>											
<p><b>Personne de contact:</b></p> <p>Nom _____</p> <p>Titulaire _____</p> <p><input checked="" type="checkbox"/> email _____</p> <p>Adresse de facturation _____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>Signature(s) _____</p> <p>Nom(s) _____</p>											
<p><b>Veuillez envoyer le rapport entier complété et signé par voie électronique à :</b>  <a href="mailto:carbon@sbhcargo.com">carbon@sbhcargo.com</a> ou par fax à : fax Suisse +41 (0) 41 717 1111, fax Europe +41 (0) 41 717 1111</p>											
<p><small>Chemins de fer fédéraux suisses CFF Cargo   Tél. Suisse 0800 707 010 • Tél. Europe 00800 7222 4320          Service Clientèle   carbon@sbhcargo.com   www.sbbcargo.com</small></p>											



# Feedback

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- ➔ Emission report successful - customers are very interested and give positive feedback:
  - „The data is very interesting and shows that we are assuming our responsibility in environmental issues. We will use this data in the market to increase transport on rail.“ (customer of SBB Cargo)
  - „An impressive news with a very positive impact!“ (customer of SBB Cargo)
  - „The CEO told me that he recently won a new customer who had seen the emission report on the company’s website and acknowledged it’s responsibility for environment protection“ (key account manager SBB Cargo)
- ➔ So far two customers used the service for climate neutral transport



Thank you for your attention.

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