



Annual Environmental Report DAF Trucks 2010

***‘DAF Trucks N.V. is
continuously making steps
forwards, towards the
further reduction of the
environmental impact as
a result of its activities
and its products’***

DAF

A **PACCAR** COMPANY

Foreword

For DAF, attention to the environment is a matter of course. DAF works constantly to further reduce the environmental impact of her activities. This document gives you an overview of our environmental performance in 2010. Together with the brochure 'DAF and the environment' ([click here](#)), which shows our environmental efforts through years of commitment, it forms the complete picture of DAF's position in environmental care.

Since the Environmental Annual Report 2008, a reference to environmental indicators of the GRI (Global Reporting Initiative) is included in the overview of environmental indicators.

Status Environmental Objectives 2010
Status
DAF Trucks NV

Certification:	ISO 14001 recertification	realised
Communications:	Environmental Product Declaration via dealer net	on-going

Product Development

Fuel:	Development of hybride technology for distribution trucks	realised
Emission:	Reduction emission CO ₂ Long Heavy Vehicles: -10% CO ₂ /ton km	realised
Noise:	Continuation of study into noise reduction related to future legal requirements Euro VI	on-going
Ecodesign:	Implementation of Life Cycle Analysis of trucks	realised

Purchasing

Certification:	Production Goods suppliers with environmental certificate: 70%	on-going
Performance:	Suppliers with C status environmental performance: <5%	on-going
Packaging:	Packaging volume of top ten suppliers: -10%	on-going

Production (Eindhoven, Netherlands and Westerlo, Belgium)

Emission VOC:	Compliance to EC Directive 96/61/EC IPPC: 70 gr/m ² (Eindhoven)	realised
Emission VOC:	Compliance to EC Directive 99/13/EC VOC: 75 gr/m ² (Westerlo)	realised
Emission NOx:	Compliance to Dutch Decree on Emission Trade NOx (Eindhoven)	realised
Emission CO ₂ :	Compliance to Dutch Decree on Emission Trade CO ₂ (Eindhoven)	realised
Waste:	Compliance to internal objective for hazardous waste: 43.5 kg/truck (Eindhoven)	on-going
Waste:	Compliance to internal objective for hazardous waste: 46 kg/cab (Westerlo)	realised
Waste:	Waste to landfill: 0% (Eindhoven and Westerlo)	realised
Packaging:	Compliance to internal objective for packaging waste: 70 kg/truck (Eindhoven)	on-going
Packaging:	Compliance to internal objective for packaging waste: 14.2 kg/truck (Westerlo)	realised
Energy:	Energy Efficiency Index in context LTA on Energy Efficiency: 90% (Eindhoven)	realised
Soil:	Authority approval on ground water remediation plan (Eindhoven)	realised
Water:	Heavy metals in waste water: 5.0 gr/truck (Eindhoven)	realised
Water:	Heavy metals in waste water: 1.75 gr/cab (Westerlo)	on-going

After Sales

Packaging:	Reduction of volume of parts packaging waste: -3%	on-going
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Subsidiaries and own dealers

Water:	Direct connection of waste water basins to municipal sewer (own dealer Budapest)	realised
Certification:	Independent service dealers with environmental certificate: 10%	realised

ENVIRONMENTAL REPORT 2010

Environmental performance indicators DAF Trucks N.V.

	GRI*	2005	2006	2007	2008	2009	2010	Targets 2010
Production numbers in trucks (assembled in Eindhoven)		35,672	38,356	42,586	39,750	13,609	22,168	
Production numbers in trucks (including components)		41,198	44,341	49,180	52,753	16,460	25,266	
Production numbers in cabs (Westerlo)		41,991	44,810	49,672	52,631	16,542	25,820	
1. VOC-emission Eindhoven and Westerlo	EN 20							
Eindhoven Total VOC-emission in tonnes		170.9	170.9	170.5	174.6	83.5	73.5	
VOC-emission Eindhoven in kg per truck		4.8	4.5	4.0	4.4	6.1	3.3	
VOC-emission Eindhoven in grams/m ²		78	73	65	64	80	45	Target: <70 gram/m ²
Westerlo Total VOC-emission in tonnes		235.6	269.8	252.2	266.1	80.3	131.6	
VOC-emission Westerlo in kg per cab assembled		5.6	6.0	4.8	5.1	4.9	5.1	
Emission Cab Painting Line Westerlo in grams/m ²		67.2	73.8	58.1	60.9	55.4	58.9	Target: <75 gram/m ²
2. Water consumption Eindhoven and Westerlo	EN 8							
Eindhoven Tap water consumption in m ³		196,101	212,439	223,442	220,662	146,390	175,500	
Eindhoven Consumption of surface water for cooling processes in m ³		703,013	764,377	626,290	507,132	398,250	530,980	
Westerlo Tap water consumption in m ³		215,524	207,527	245,232	262,048	131,258	207,205	
3. Discharge waste water Eindhoven and Westerlo	EN 21							
Eindhoven Discharge waste water in m^{3**}		± 899,000	± 1,013,000	± 816,000	± 702,000	± 509,400	± 943,800	
- of which (as clean water) discharged cooling water		± 732,000	± 754,000	± 612,000	± 502,500	± 377,700	± 782,500	
- of which discharged waste water		± 167,000	± 259,000	± 204,500	± 200,000	± 131,700	± 161,300	
- contamination units (calculated according to Dutch legislation)		4,258	4,698	4,911	5,390	2,305	3,175	
- discharge heavy metals in kg		171.5	174.2	195.9	165.8	64.6	84.4	Target: <250 kg
- discharge heavy metals in grams per truck		4.81	4.54	4.60	4.17	4.75	3.81	Target: <5 g/truck
- COD (chemical oxygen demand)		133,545	161,595	172,016	184,018	83,518	116,345	
Westerlo Discharge waste water in m^{3**}		± 215,500	± 207,500	± 245,200	± 262,000	± 131,000	± 207,200	
- of which discharged cooling water		± 161,700	± 155,600	± 174,100	± 133,600	± 66,800	± 114,000	
- of which discharged process water		± 45,200	± 43,600	± 51,500	± 102,200	± 51,100	± 74,600	
- of which discharged sanitary waste water		± 8,600	± 8,300	± 19,600	± 26,200	± 13,100	± 16,600	
- contaminant load units (calculated according to Belgium legislation)		504	478	677	441	313	526	
- discharge heavy metals in kg		91	97.6	97.8	112.7	38.8	74.5	
- discharge heavy metals in Westerlo in grams per truck (per cab)		2.2	2.2	2.0	2.1	2.3	2.9	Target: <1.75 g/cab
- COD (chemical oxygen demand)		10,832	8,412	8,576	9,065	6,154	9,616	
<i>* waste water: domestic and industrial waste water, including cooling water, excluding rainwater</i>								
4. Residues Eindhoven and Westerlo	EN 22							
Eindhoven re-use and recycling			79.6 %	87.4 %	87.0 %***	84.5 %	87.4 %	
Eindhoven incineration			15.3%	6.5 %	5.3 %***	6.2 %	5.4 %	
Eindhoven waste treatment (physical-chemical, composting, distillation, extraction)			3.9 %	5.0 %	7.7 %***	9.3 %	7.1 %	
Eindhoven landfill			1.2 %	1.1 %	0.0 %***	0.0 %	0.0 %	Target: 0 %
<i>*** percentages as of July 1st 2008</i>								
Westerlo re-use and recycling					74.0 %****	73.1 %	75.9 %	
Westerlo incineration					6.9 %****	6.8 %	6.6 %	
Westerlo waste treatment (physical-chemical treatment, distillation, etc.)					19.1 %****	20.1 %	17.5 %	
Westerlo landfill					0.0 %****	0.0 %	0.0 %	Target: 0 %
<i>**** percentages as of October 1st 2008</i>								

* Performance Indicators according the Global Reporting Initiative (www.globalreporting.org)

ENVIRONMENTAL REPORT 2010

	GRI*	2005	2006	2007	2008	2009	2010	Targets 2010
4. Residues Eindhoven and Westerlo	EN 22							
Eindhoven Total waste in tonnes		31,391	32,756	38,676	39,358	16,695	25,825	
Residues Eindhoven in kg per truck**		762	739	786	746	1,014	1,022	
Eindhoven in kg chemical waste per truck**		49	45.3	50.7	49.1	82.4	75.3	Target:<39.5 kg/truck
Eindhoven in kg scrap per truck**		590	568	579	546	718	754	
Eindhoven in kg other waste per truck**		123	125	156	152	214	192	
<i>** related to production numbers in trucks including components</i>								
Westerlo Total waste in tonnes		7,681	8,340	9,182	8,834	3,237	4,417	
Residues Westerlo in kg per cab		183	186	185	167	196	171	
Westerlo in kg chemical waste per cab		50	52.7	55.2	47.7	53.2	40.5	Target: < 45.6 kg/cab
Westerlo in kg scrap per cab		104	104	102	94	111	104	
Westerlo in kg other waste per cab		29	30	28	26	31	26	
Packaging waste Eindhoven and Westerlo	EN 22							
Packaging waste in kg per truck*** total (including After Sales)		109	120	125	129	181	147	
Packaging waste Operations Eindhoven in kg per truck***		60.5	68.7	72.4	69.0	80.7	71.2	Target: < 70.0 kg/truck
Packaging waste Operations Westerlo in kg per truck***		18.7	18.8	16.7	16.2	17.6	13.7	Target: < 14.2 kg/truck
<i>*** related to production numbers in trucks excluding components</i>								
5. Gas consumption Eindhoven and Westerlo	EN 3							
Eindhoven gas consumption in millions m ³		9.4	9.4	8.9	8.9	6.7	9.2	
Westerlo gas consumption in millions m ³		4.9	4.8	4.8	5.2	3.4	4.7	
6. CO₂-emissie Eindhoven en Westerlo	EN 16							
Eindhoven CO ₂ emission in tonnes resulted of gas consumption		16,773	16,656	15,987	15,968	12,031	16,460	
Eindhoven in tonnes according to according to Directive 2003/87/EC					10,659	8,570	11,431	
Westerlo CO ₂ emission in tonnes resulted of gas consumption		9,446	8,578	8,575	9,555	6,206	8,489	
7. Electricity consumption Eindhoven and Westerlo	EN 4							
Eindhoven Electricity consumption in MWh		79,078	88,058	92,104	85,393	52,352	69,443	
Eindhoven Electricity consumption in MWh per truck		2.22	2.30	2.16	2.15	3.8	3.1	
Westerlo Electricity consumption in MWh		35,884	37,292	38,548	39,385	22,117	27,077	
Westerlo Electricity consumption in MWh per cab		0.85	0.83	0.78	0.75	1.3	1.0	
8. Energy Efficiency Index Eindhoven	EN 5							
Long Term Agreement on Energy Efficiency 2 (2005 – 2008, ref. 1998)		84.2 %	86.1 %	80.9 %	79.5 %	-	-	
Long Term Agreement on Energy Efficiency 3 (2009 – 2020, ref. 2005)		100.0 %	102.4 %	97.3 %	92.8 %	112.9 %	115.2 %	Target: < 90 %
9. Emissie NO_x according to Directive 2003/87/EC	EN 20							
Eindhoven NO _x -emission in kg			7,623	7,717	8,040	6,263	8,469	
Eindhoven NO _x -emission in g/GJ			37.3	40.2	41.4	43.0	42.1	
10. Emissions of cooling gases Eindhoven and Westerlo	EN 19							
Emissions HFC's in kg due to filling air conditioning systems in trucks		243	1,086	771	845	479	317	
Eindhoven Emissions HCFC's & HFC's in kg in production & buildings		214	944	492	240	91	130	
Westerlo Emissions HCFC's & HFC's in kg in production & buildings		54	14	11	8	33	8	
11. Purchasing								
Percentage suppliers**** with a valid environmental certificate		33 %	28 %	65 %	66 %	66 %	67 %	Target: > 70%
**** suppliers: suppliers of production goods						65 %	67 %	Target: 100%
12. Service-dealers								
Percentage service-dealers with a valid environmental certificate		3.6 %	5 %	5.5 %	7.5 %	7.2 %	9.9 %	Target: > 10%

* Performance Indicators according the Global Reporting Initiative (www.globalreporting.org)

Environmental Objectives 2011**DAF Trucks NV**

Communications: Environmental Product Declaration via dealer net

Product Development

Ecodesign: Update of present Ecodesign Tool

Purchasing

Certification: Production Goods suppliers with environmental certificate: 75%

Certification: Service suppliers (with environmental impact) with environmental certificate: 100%

Performance: Suppliers with C status environmental performance: <5%

Production (Eindhoven, Netherlands and Westerlo, Belgium)Emission VOC: Compliance to EC Directive 96/61/EC IPPC: 70 gr/m² (Eindhoven)Emission VOC: Compliance to EC Directive 99/13/EC VOC: 75 gr/m² (Westerlo)

Waste: Compliance to internal objective for hazardous waste: 56 kg/truck (Eindhoven)

Waste: Compliance to internal objective for hazardous waste: 41 kg/cab (Westerlo)

Waste: Waste to landfill: 0% (Eindhoven and Westerlo)

Packaging: Compliance to internal objective for packaging waste: 66 kg/truck (Eindhoven)

Packaging: Compliance to internal objective for packaging waste: 14.2 kg/truck (Westerlo)

Energy: Implementation of certain energy saving measures in context of Long Term Agreement³ (Eindhoven)

Water: Heavy metals in waste water: 5.0 gr/truck (Eindhoven)

Water: Heavy metals in waste water: 2.5 gr/cab (Westerlo)

After Sales

Packaging: Reduction of volume of parts packaging waste: -3%

Subsidiaries and own dealers

Water: Improvement of waste water quality (own dealer Prague, CZ)