

Wilkhahn



# Environmental Statement 2010

Occupational Health & Safety Report  
Quality Report

## Preamble

Wilkhahn has been among the first enterprises to join EMAS, the European Community's voluntary Eco-Management and Audit Scheme (EC Regulation No. 761/2001). At the same time, Wilkhahn maintains certified environmental and quality management systems, in accordance to the internationally recognised standards ISO 14001:2005 and ISO 9001:2008.

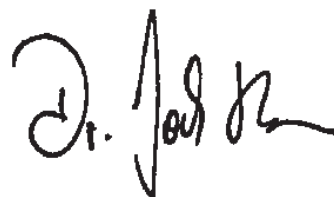
Revision, certification and validation have been carried out by the TÜV Nord Cert GmbH & Co. KG and the TÜV Nord Cert Umweltgutachter GmbH. The Hanover-Hildesheim Chamber of Industry and Commerce has registered the Wilkhahn site in Bad Münder, Germany, in the national register of EMAS organisations.

In the European Community's register of EMAS organisations, Wilkhahn Bad Münder is registered as No. D-133-00055. To ensure that environmental management is embodied in the corporate management and to use resulting synergies whenever possible, environmental concerns as well as aspects of quality and health and occupational safety are combined in the company's integrated management system.

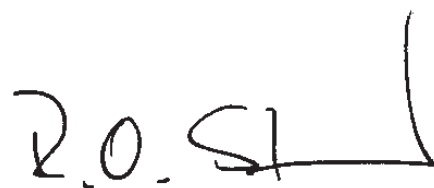
Wilkhahn has committed to constantly improving and annual monitorings of its integrated management system. Wilkhahn abides verifiably and fully to environmental requirements and publishes an annual updated environmental statement in brief.

With this Environmental Statement we publicly report our company's environmental performance and efforts undertaken in the fields of quality management and occupational health and safety. The next comprehensive Environmental Statement is scheduled for March 2011.

In validating and certifying the Wilkhahn environmental management system, we wish to contribute to the sustainable use and conservation of the environment and, at the same time, take initiative in fulfilling our corporate responsibility towards society.



Dr. Jochen Hahne  
President



Ralf-Olaf Stender  
Chairman of Works Council

The front cover shows the Wilkhahn premises in Bad Münder, Germany, situated in an industrial area adjacent to a rural housing district. Situated in the Deister-Suentel-valley, Wilkhahn is well connected for transport via the federal road B 442 to the nearby European motorway E 30/A 2.

# Socio-ecological aims and their state of implementation

Aim	Responsible Unit(s)	State of implementation
<p><b>Energy</b></p> <ul style="list-style-type: none"> <li>· Reducing the consumption of heating energy by 7.5% (compared to 2007)</li> <li>· Reducing electric energy consumption in three halls by 12 per cent compared to 2007</li> </ul>	<p>Facilitymanagement Environmental Management</p>	<p>As one milestone of the year 2008, a modern combined heat-and-power plant (CHP) has been installed, turning renewable energy sources into climate neutral heating and electric energy.</p> <p>To increase the efficient use of heating energy, windows and doors with a better heat transfer coefficient have been installed at the production pavillions, and the powder-coating hall's rooftop received better insulation.</p> <p>Further steps, e.g. optimising the return temperature of the site's heating system, have been successfully brought to an end.</p> <p>The described measures boosted energy efficiency, leading in 2009 to a decrease in heating energy consumption by 9 per cent, compared to the year of reference, 2007. Employing the modern CHP's cogeneration of heat and power let in 2009 to a substantially shrank consumption of fossil fuels by 43 per cent (2008: -14.6 per cent).</p> <p>To reduce electric energy consumption, the lighting system of three production halls has been changed from 58W- to more efficient 51W-neon light bars. Practically the same quality of illumination can thus be achieved with less electricity consumption.</p> <p>In 2009, total electricity consumption went down by one third (34.6 per cent), also being the result of measures taken to increase energy efficiency.</p>
<p><b>Hazardous substances</b></p> <ul style="list-style-type: none"> <li>· Further reduction and/or substitution of hazardous substances (solvent-based adhesives, solvents and diluting agents) by 10 per cent compared to 2007</li> <li>· Reducing the amounts of hazardous wastes by 5% per product unit.</li> </ul>	<p>Head of Production, Environmental Management, Product Development</p>	<p>Having conducted promising test runs with VOC-free adhesive systems in December 2008, plans to replace the current adhesive system had to be put to a halt. For upholstering the FS-range (models 211/1 to 213/8), the long-term field tests failed to confirm the durability values of the test runs. Giving priority to our products uncompromised quality, decision was taken to keep on using the original adhesive system.</p> <p>In 2009, a modern lacquer department has been brought to service. State-of-the-art machinery combines well with existing craftsmanship, allowing Wilkhahn to produce even better quality in office and conference table tops. By the same token, hazardous wastes could be substantially reduced.</p>
<p><b>Water</b></p> <ul style="list-style-type: none"> <li>· Reducing water consumption in the production processes.</li> </ul>	<p>Waste Management Representative, Head of Production</p>	<p>Improved processes in the upholstery department made an additional humidifying system obsolete. Thus, annually 500.000 litres of water are being saved.</p>

# Socio-ecological aims and their state of implementation

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<p><b>Waste</b></p> <ul style="list-style-type: none"> <li>· Optimising material cycles.</li> </ul>	<p>Waste Management Representative, Head of Production</p>	<p>The amount of waste related to furniture production has been minimised, and the segregating of waste fractions further improved. E.g. introducing a multi-cycle system for oily cleaning cloths has contributed to the aim of minimising waste, while the waste fractions' extensive sorting and their preparation for recycling are being continued.</p>
<p><b>Paper</b></p> <ul style="list-style-type: none"> <li>· Reducing paper consumption in administration areas by 10% by 12/2010 (compared to paper use in relation to turnover of index year 2007).</li> </ul>	<p>International Logistics (IT Group), Environmental Management</p>	<p>For many years, Wilkhahn has been using (and continuous to use) FSC-certified paper with high recycled content. The aim to use less A4-sized papers for copying and general internal communication purposes has not led to measurable results yet. A central procurement policy hinders transparency in allocating paper consumption in different administrative units.</p>
<ul style="list-style-type: none"> <li>· Reducing the number of catalogue pages per product</li> </ul>	<p>Marketing</p>	<p>Developing a new concept for Wilkhahn brochures as a cross-channel-medium (combining print- and web-based information) has been successfully tested and partly translated into action. Merging information from individual fact sheets towards fewer bundled leaflets added to realising a decrease in paper use.</p>
<p><b>Packaging</b></p> <ul style="list-style-type: none"> <li>· Optimising the re-use rate of ecological transport packaging from 60 to 80 runs</li> </ul>	<p>Logistics, Packaging Circle, Environmental Management</p>	<p>As Wilkhahn exports more than 70 per cent of its products, the set aim has to be critically assessed in terms of its overall ecological effectiveness.</p>
<p><b>Environmental communication</b></p> <ul style="list-style-type: none"> <li>· Further improvement of internal and external environmental communication</li> <li>· Simplifying the environmental controlling</li> <li>· Increasing transparency and topicality</li> <li>· Integrating environmental aims and objectives into the MBOs of executives</li> </ul>	<p>Corporate Communication</p>	<p>In July, 2008, the new position of the Project Manager Ecology has been established. Its central task is to inform Wilkhahn employees and external stakeholders about socio-ecological topics at Wilkhahn. While this task has remained unaltered also in 2009, responsibility has been embedded into the revised job specification of the environmental manager.</p> <p>The central material database of Wilkhahn has been enriched by ecological profiles for the top-selling products.</p> <p>Since May 2008, the portal "Green" enriches the company's website, offering in-depths information of the company's and its products' environmental performances.</p> <p>A consecutive step remains the broadening of socio-ecological indicators, informing about "green" progress.</p>

# Socio-ecological aims and their state of implementation

Aim	Responsible Unit(s)	State of implementation
<p><b>Product development</b></p> <ul style="list-style-type: none"> <li>· Updating the ecologically oriented catalogue of materials, particularly in view of the scope for using recycling material and renewable raw materials (materials cycle and renewable materials)</li> </ul>	<p>Product Development, Project Manager Ecology</p>	<p>Updating the ecologically oriented catalogue of materials has been started. Consulting external experts, e.g. on bio composite materials made from renewable sources, and collaborating with external product designers assure that ecological aspects of innovative materials and techniques are also considered, when developing new products.</p>
<p><b>Suppliers</b></p> <ul style="list-style-type: none"> <li>· Working towards continuous progress of socio-ecological processes at suppliers level</li> <li>· Regular quality and environmental audits to be carried out at chosen Wilkhahn suppliers.</li> <li>· Processes involving Internal suppliers: increased efficiency and improved performance of the quality management system.</li> </ul>	<p>Quality Management Representative, Environmental Management, Procurement Dept.</p>	<p>In December 2008, Wilkhahn appointed a management representative to foster global recognition of the core norms of the International Labour Organisation (ILO). Signing an international framework agreement with the workers' unions of the wood and metal processing industries (BHI and IGM), Wilkhahn made a big step towards assuring workers' interests on a global scale: a ban of children and forced labour and discrimination at the workplace thus do not only continue to be binding rules at Wilkhahn, but also reaches towards Wilkhahn suppliers. Environmental responsibility, fighting corruption and fair wages form further topics which have been included since January 2009 in a revised supplier's questionnaire.</p>
<p><b>Processes</b></p> <ul style="list-style-type: none"> <li>· Improving the quality of surface finishing in table top production</li> <li>· Quality assurance in dispatch and logistics.</li> </ul>	<p>Head of Production  International Logistics</p>	<p>By reorganising processes of the Wilkhahn table production and investing in leading sanding and calibration technology, another important step to assuring supreme surface and overall product quality could be made. Since May 2009, state-of-the art varnishing facilities have been installed, again improving the quality and environmental performance of the varnishing processes.</p>
<p><b>Health &amp; Safety</b></p> <ul style="list-style-type: none"> <li>· Achieving the AOK health insurance bonus.</li> <li>· Continuous reduction of work-related accidents</li> <li>· Holistic health care programme</li> <li>· Reducing noise emissions in truck transport on the plant premises by 15 dB(A)</li> <li>· Reduction the noise level in the offices of the export dept. by 50%</li> <li>· Improving internal cooperation between Wilkhahn administration and production</li> </ul>	<p>Human Resources  Human Resources in collaboration with appointee for occupational health &amp; safety  Facility Management  Facility Management  Facility Management and wiege</p>	<p>Wilkhahn continuously succeeded in obtaining health insurance fee bonuses due to exemplary compliance. With legislative changes, the bonus scheme will not be continued from 2009 onwards.  Installing a sound damping ceiling has successfully cut noise emissions by the envisaged 50 per cent (= 3dB) in the offices of the export department, whereas the truck noise level remains unchanged. In light of the overall economic situation, planned investments for a noise reducing asphalt solution had to be withheld.  In December 2008, the Wilkhahn canteen has been changed towards an attractive meeting place, thus also improving cooperation between administrative and production related Wilkhahn units.</p>

Input	2008	2009	Output	2008	2009
<b>Material Efficiency</b>					
<b>Raw materials and Supplies (t)</b>			<b>Waste (t)</b>		
Ferrous metals	544.9	634	Mixed solid waste	220.8	95.8
Aluminium	333.7	492	Paper and cardboard	159	97.9
Wood	459.8	385.6	wood and woodchips	122	66.7
Plastics	427.3	385.8	Ferrous metals	34.5	30.1
PVC	5.2	1.4	Leather	10.8	6.5
Fabrics (textiles)	46.6	22.5	Plastics (packaging foils)	8.7	7.14
Leather	20.8	31.3	Aluminium	6.9	3.52
Paper and cardboard	96.8	170.7	Fabrics (textiles)	3.7	3.45
Plastics (packaging)	32.6	21.4	Aqueous liquid wastes	32.5	12.6
Coating powders	9.1	1.9	Machining emulsions and solvent mixes	13	14.7
Dispersion adhesives	6.8	4.8	Paints, varnishes and sludges	2.2	1.3
Solvent-based adhesives	9.8	5.8	Batteries	1.1	0
<b>Biodiversity (m<sup>2</sup>)</b>			Flourescent tubes	0.5	0.2
Area under roof	19000	19000	Others	10.5	10.3
Rise in sealed area within last year	0	0	<hr/>		
<b>Energy Efficiency (MWh)</b>			Total waste	625.7	350.0
Electricity	2443	1865	Total hazardous waste <sup>1</sup>	n. s.	18.8
Heating energy	7177	6259	<b>Emissions<sup>2</sup> (t)</b>		
Total energy consumption			Solvents (VOC) from lacquers and thinners	4.7	4.5
(production and administration)	9620	8124	Solvents (VOC) from adhesives	4.3	4.3
Electricity generation (Photovoltaics, CHP)	1847	2846	Particulate Matter <sup>3</sup>	0.01	0
Heat generation (CHP)	1691	2550	Nitrogen oxide (NOx) <sup>4</sup>	0.4	0.3
Total energy generation			Carbon dioxide (CO <sub>2</sub> ) <sup>5</sup> -		
from renewable sources	1845	5396	production and administration	741.0	371.1
<b>Water (m<sup>3</sup>)</b>			Carbon dioxide (CO <sub>2</sub> ) - Wilkhahn		
Total water consumption	4717	4239	fleet of vehicles <sup>6</sup>	n. s.	70.9
			<b>Water (m<sup>3</sup>)</b>		
			Sanitation	4173	4127
			Evaporation (humidifying system)	494	62
			Water used in processes	50	50

<sup>1</sup> European waste codes (EWC) No. 060205, 060601, 070703, 080111, 080113, 120109, 130205, 130207, 150110, 150202, 160508, 200121

<sup>2</sup> At the main site in Bad Münden, Wilkhahn generates energy by photovoltaic reaction, operates a CHP on the basis of renewable energies, as well as other smaller combustion plants for liquid fuels. Responsible maintenance and surveillance ensure compliance with strict emission standards (according to German 1st Federal Immission Control Regulation) and thus permanently undercutting limit values on sulphur dioxide and nitrogen oxide. The production site is located in an industrial area adjacent to a rural housing district, with safe distances to the neighbouring population. Sulphur and nitrogen dioxides do not lead to perceptible environmental effects.

<sup>3</sup> Capturing devices and filters for particulate matters ensure that workplace exposure limits are permanently undercut, e.g. when sanding and milling. As Wilkhahn has stopped combusting solid fuels in favour of cleaner alternatives, total emissions of particulate matters do presumably not lead to perceptible environmental effects.

<sup>4</sup> values calculated

<sup>5</sup> In 2009, Wilkhahn generated a total of 5396 MWh energy from renewable sources (plant oils and photovoltaics). Compared with total energy consumption for Wilkhahn production and administration, this represents a "green energy" share of 66 per cent. If all road distances covered by Wilkhahn employees are also taken into this consideration, green energy accounts still for more than 50 per cent. The presented figures on CO<sub>2</sub> emissions refer to combusted fossil oils and natural gasoline for heating purposes.

<sup>6</sup> Wilkhahn employees covered in 2009 a distance of 1.77 million road kilometres to deliver services to our customers. The average consumption of the Wilkhahn fleet equalled 8.1 litres of diesel per 100 km, or 215 grams of CO<sub>2</sub> per kilometre.

## Core Indicators 2009

**Total value added <sup>1</sup> (in mill. EUR)** 16.4

### Material efficiency

Total consumption of raw materials and supplies (in tons per 1 mill. added value) 131.5  
Total waste (in tons per 1 mill. added value) 21.4  
Total hazardous waste (in tons per 1 mill. added value) 1.1

### Energy efficiency

Electricity and Heating (in MWh per 1 mill. added value) 495.3  
Energy from renewable sources (in MWh per 1 mill. added value) 329.0

### Emissions

Carbon dioxide from production and administration (in tons per 1 mill. added value) 22.6  
Kohlendioxid ausstoß aus Produktion, Verwaltung und Fuhrpark 45.8

### Biodiversity

Land use (in square metres per 1 mill. added value) 1159  
Changes in sealed area (%) 0.0

### Water

Total water consumption (litres per 1 mill. added value) 258.5

<sup>1</sup> The overall added value represents the annual turnover and other incomes less cost of materials, depreciation and intermediate inputs

# GÜLTIGKEITSERKLÄRUNG **TUV NORD**



gemäß den Vorgaben der  
**Verordnung (EG) Nr. 761/2001 i.d.F. vom 03.02.2006**  
 über die freiwillige Beteiligung von Organisationen an einem Gemeinschaftssystem  
 für das Umweltmanagement und die Umweltbetriebsprüfung (EMAS)

Nach Durchführung der Prüfung gemäß dieser Verordnung wird bestätigt für

**Wilkhahn**  
**Wilkening + Hahne GmbH + Co. KG**  
**Fritz-Hahne-Straße 8**  
**31848 Bad Münster**  
**Deutschland**

dass

- die aktualisierte Umwelterklärung 2009 der Organisation am Standort Bad Münster den Anforderungen der Verordnung entspricht und
- die Daten und Informationen der aktualisierten Umwelterklärung 2009 zuverlässig und glaubwürdig die Umweltaspekte am genannten Standort wiedergeben.

Hannover, 2009-03-30

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This Environmental Statement has been compiled by Wilkhahn, Wilkening + Hahne GmbH + Co. KG for the site Fritz-Hahne-Straße 8, 31848 Bad Münster-Eimbeckhausen. It has been validated by the accredited environmental auditor.

To achieve continuous improvement, we conduct internal environmental audits and have their results reviewed by the Wilkhahn management. They also form a basis for the annually updated environmental statement. The next consolidated environmental statement will be published in March 2011.

Bad Münster-Eimbeckhausen,  
 March 27, 2010

*J. Hahne*

Dr. Jochen Hahne  
 President



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