



**THE PRINTROOM UK**  
GREENER COLOUR PRINTING  
[www.theprintroomuk.com](http://www.theprintroomuk.com)

# ENVIRONMENTAL STATEMENT 2016

Reporting period 1 January 2015 to 31 December 2015



VERIFIED  
ENVIRONMENTAL  
MANAGEMENT  
REG. NO. UK-000197

**EMAS** - the Eco-Management and Audit Scheme, is a voluntary initiative designed to improve companies' environmental performance. It was initially established by European Regulation 1836/93, although this has been replaced by Council Regulation 1221/2009.

Its aim is to recognise and reward those organisations that go beyond minimum legal compliance and continuously improve their environmental performance. In addition, it is a requirement of the scheme that participating organisations regularly produce a public environmental statement that reports on their environmental performance. It is this voluntary publication of environmental information, whose accuracy and reliability has been independently checked by an environmental verifier, that gives EMAS and those organisations that participate enhanced credibility and recognition.

EMAS is strongly backed by Government and the environmental regulators - organisations who participate are recognised as making strong commitments to the environment and to improving their economic competitiveness.



# MANAGING DIRECTOR'S STATEMENT

Welcome to the second EMAS Environmental Statement produced by The Printroom UK Ltd.

2015 was another strong year for The Printroom UK as we reaped the benefits of investment and responded to changes in communication techniques.

Turnover increased in what remains a difficult market place and an industry in transition and our first year of EMAS registration reaped the expected promotional benefits. EMAS registration served to strengthen our relationship with our environmentally concerned and aware clients. It also enhanced our profile within the region as an environmental leader.

Our focus on reducing and addressing the impact of our unavoidable emissions remains a priority and the purchase in 2016 of a hybrid vehicle for local deliveries was a success and we reduced our delivery-related emissions by over 25 percent.

We remain the only EMAS registered printing company in our sector in the North West of England and look forward to strengthening our environmental profile and status by continuing our improvements in 2016.



**Steve Clark**  
Managing Director

# COMPANY HISTORY AND PROFILE

Founded in 2003, The Printroom UK Ltd is a high- quality, environmentally focused commercial printing company based in Bootle, Merseyside.

Employing thirteen staff, it is the only printing company offering lithographic print in the North West of England to be EMAS registered.

The Printroom UK's founding directors worked together in the printing department of a major financial organisation, also based in Liverpool, and together have over 120 years of industry experience.

Environmental protection is of great concern to all staff. We are acutely aware of our environmental responsibilities, both to our clients and the planet. We are constantly looking to limit the environmental impact of our operation by reducing, reusing and recycling, and encourage our customers to choose the greener option for their print requirements. We recognise however that our processes and products do impact on the environment so are committed to continual performance improvement.

Our client range is diverse and ranges from small, local companies to charities and national organisations and it includes an impressive portfolio of environmental awareness.



# ACTIVITIES AND SERVICES

We offer a 'one-stop' service from design through to storage and managed distribution for a diverse range of products:

## Litho printing

From fine art catalogues, to financial reports and business stationery, lithographic printing is a highly efficient way to create flawless printed materials. Our Manroland B2 litho press is 'alcohol-free' (it uses no IPA) and uses vegetable oil-based inks...both of which drastically reduce our emissions of volatile organic compounds (VOCs).

## Digital printing

Our digital equipment is diverse and state of the art and covers a range of formats. Digital printing offers a cost effective solution for short run printing. Ideal for variable data printing it can be used for QR codes and in conjunction with a cross media campaign.

## Design

Our designers are experienced and innovative, so whether you are looking for a whole new look or to incorporate your branding into new materials, you can be sure that we will match your company's aspirations and values.

# ENVIRONMENTAL PROFILE, CERTIFICATION AND AWARDS

The Printroom UK is firmly established in an elite group of environmentally progressive printing companies.

We recognise the dynamic nature of the printing industry and the need to invest in new technologies that improve our performance and keep pace with the diversification of printing processes. Such new technologies not only bring production efficiencies but environmental benefits too. For example: improved energy efficiency, a reduced need for consumables and set up resources and reduced waste

## Certification and external verification:

ISO 14001 certified in 2009

FSC ® (Forest Stewardship Council) ® certified in 2009

EMAS registered in 2015

## Awards

Our environmental efforts have gained the following awards and recognition:

2009 Environmental business of the year - winner Al Nahl awards

2010 Combating Climate Change winner

2010 Shortlisted for Liverpool Daily Post green business awards

2013 Carbon champion of the year - Liverpool Echo business awards

2015 Federation of Small Businesses: Green Award for Liverpool

# ENERGY USE AND EMISSIONS – TAKING OUR RESPONSIBILITIES SERIOUSLY

The Printroom UK fully recognises both the environmental significance and common sense nature of actions to reduce our energy use. We take our responsibilities seriously, will always do more than mere legal compliance, and have in place a diverse range of mechanisms to support our stance:

ISO 14001: the foundation of our Environmental Management System recognises energy use as a significant environmental impact and creates a framework for recording and monitoring energy use and actions to reduce.

EMAS: through EMAS we publicly report, after external verification, our annual energy use and associated emissions. Additionally, we publicly commit to annual energy-reduction targets.

Carbon Credits: Each year we offset a percentage of our emissions using internationally approved carbon credits.

Via CO2balance's carbon zero scheme, in 2015 The Printroom UK purchased carbon credits equating to 20 tonnes of carbon emissions. Monies paid are invested in communities in developing countries to deploy a range of efficient technologies aimed at improving their quality of life, improving health and economic outcomes and reducing global emissions. Specifically, our fees were invested in CO2 Balance's Energy Efficient Stove project in Kenya.

In 2016 we will increase our carbon credits purchased to 70 tonnes.

Hybrid vehicle: In 2015 we purchased and introduced a hybrid vehicle for specific use on local deliveries with the dual aim of reducing fuel use and the associated emissions. In 2015 we reduced our diesel powered delivery miles (in absolute terms, compared to 2014) by more than 9000 km.

## GENERAL WASTE

We use this term to cover items that do not have, for practical reasons, separate recycling streams. It does not mean this waste is destined for landfill.

Weekly collections of our container are made by a local company (Gaskells) and the waste is subsequently sorted and recyclable elements removed. Due to the nature of this process it is not possible to accurately capture specific information for waste collected from The Printroom, but overall Gaskells reports a 90 percent recycling rate for sorted waste.



# STAFF INVOLVEMENT, INTERNAL AND EXTERNAL COMMUNICATION

We are fully aware that internal communication and staff education and involvement are crucial to the effectiveness of all operations: from our Environmental Management System to Health and Safety to internal initiatives to improve efficiency. All new staff receive an induction and internal noticeboards are a main mechanism for ongoing staff communication. Environmental updates are produced and displayed internally to update staff on environmental matters.

We recognise the potential for external communication via our website and all appropriate environmental certificates are publicly available: ISO 14001, EMAS Environmental Statement and FSC® certificate. Our proactive use of our website to communicate environmental matters is not purely selfish: we believe it will play a role in raising awareness levels, and, ultimately, standards within UK print.



# ENVIRONMENTAL POLICY

The Printroom UK Ltd operates from premises in Bootle, Merseyside, providing high quality, Environmentally friendly printing to customers, using the most favored environmental techniques and processes. We recognise however that our processes and products do impact on the environment so are committed to continually improve performance through the following measures:

- The Printroom is accredited to ISO 14001 and will continue to improve its environmental practice
- Comply with relevant environmental legislation and industry codes of practice
- Seek to reduce environmental impact and prevent pollution created by our processes, through a combination of Waste Minimisation and Reduction, and substitution of harmful or hazardous materials.

Such measures include:

- The use of vegetable oil based inks,
- Elimination of solvents, our press is 100% Alcohol Free, thus no harmful VOCS,
- Sourcing paper only from sustainable sources
- Continually recycling all of our production waste products
- Continual EMAS Registration
- Take account of concerns of interested parties such as regulators, shareholders, employees and the public
- Continually monitoring of our objectives and targets relevant to The Printroom and our supply chain, to drive continual improvement programmes and regularly review environmental performance to ensure success
- Ensure that all employees are aware of this policy and trained in their environmental responsibilities
- Promote and make this policy available to all The Printroom's Stakeholders
- Active members of The CO2 Balance. [www.co2balance.com](http://www.co2balance.com)
- We are currently accredited to FSC® standard, ensuring our commitment to sustainable sources. [www.fsc.org](http://www.fsc.org)
- The Printroom UK is an active member of the B.P.I.F. [www.britishprint.com](http://www.britishprint.com)

This Policy will be implemented within the framework of an Environmental Management System designed to meet the requirements of ISO 14001:2004.



Mario Spatuzzi  
Director  
May 2016



## ENVIRONMENTAL MANAGEMENT SYSTEM (EMS)

The Printroom UK's Environmental Policy confirms our commitment to continually improving our environmental awareness and performance.

Our Environmental Management System conforms with international standards set by ISO 14001 and acts as a framework for environmental awareness, compliance with legislation and continual improvement. In conjunction with EMAS we have in place a robust system for environmental management and stakeholder communication.

Through ISO 14001, we:

- maintain an externally audited register, of our direct and indirect environmental impacts, that forms the foundation of our EMS
- identify our significant environmental impacts
- monitor and manage our environmental impacts
- maintain a database of legal and other requirements
- set specific targets and objectives for environmental improvement

Through EMAS, we:

- gather performance data
- monitor and analyse our performance
- publicly report, after external verification, our environmental performance in detail
- publicly commit to annual targets and objectives

## SIGNIFICANT ENVIRONMENTAL ASPECTS

The Printroom UK has carried out an exhaustive evaluation of its operations in order to establish environmental impacts – both direct and indirect. A register of environmental impacts is maintained and those we class as significant, and why, are:

1. Emergencies (fire, explosion, leaks, spills) – potential harm to human health and buildings
2. Energy use – gas/electricity - generation from non-renewable, fossil fuels
3. Hazardous waste - safe storage (potential spills)
4. General waste - safe storage and volumes sent to landfill
5. Discharge to / contamination of surface drains – potential pollution
6. Purchased goods - environmental impact of papermaking; materials from responsible sources.

# LEGAL COMPLIANCE

We maintain a manual for our Environmental Management System, including relevant legislation and codes of practice. Through ISO 14001 this is both internally and externally audited, on an annual basis, for accuracy and compliance. The following are key appropriate legislation requirements:

## **Duty of Care**

All waste generated by The Printroom UK is collected for recovery or safe disposal by licensed companies. Our EMS demands that we check and hold copies of each company's license.

## **Water Industry Act: Trade Effluent Discharge Consent**

Our water use is classed as domestic and discharge consent is not required.

## **Water Resources Act: Releases to water**

Under the Water Resources Act it is an offence to cause pollution of any watercourse. This is specifically relevant to our storage of hazardous waste and we ensure compliance through safety precautions to prevent leaks and spillages and have in place resources and procedures for use in the event of a spill.

## **Environmental Permitting Regulations: Emissions to air**

Our low solvent use and associated emissions to air, mean we do not need a Local Authority permit.

## **Producer Responsibility Obligations – Packaging Waste**

The Printroom UK does not handle more than 50 tonnes of packaging each year and is, therefore, not obligated under the Packaging Waste Regulations.

## **Fluorinated Greenhouse Gas Regulations**

Applicable to air conditioning equipment, fluorinated greenhouse gases (F gases) are powerful greenhouse gases that contribute to global warming should they enter the atmosphere. The Printroom UK does not use air conditioning equipment.

# OBJECTIVES AND TARGETS FOR 2015: HOW DID WE DO?

## Aspect: Energy use

### Environmentally responsible energy use

In 2015 The Printroom UK will research options for purchasing electricity on renewable sources tariffs.

Specific objective/target: Our electricity will be purchased on a 100 percent renewables tariff.

#### **Achieved?**

Due to contractual issues with our electricity supply this was not achieved.

Reduction in fuel used for deliveries, and associated emissions. The purchase of an electrically-powered vehicle for local deliveries will reduce diesel use and associated emissions.

Specific objective/target: a 5 percent reduction in emissions associated with our deliveries.

#### **Achieved?**

Yes. Miles driven by our diesel-powered delivery van reduced following the introduction of our hybrid vehicle and associated emissions reduced by over 25 percent

## Aspect: Emergencies (fire, explosion, leaks, spills)

### Prevention of onsite incidents

Stringent safety mechanisms and emergency procedures are in place and communicated to staff.

Specific objective/target: zero onsite incidents.

#### **Achieved?**

Yes. There were no incidents in 2015

## Aspect: Chemical / oil spills. Discharge to / contamination of surface drains or land

### Prevention of onsite incidents

Stringent procedures and safety mechanisms are in place for spill prevention and action in the event of a spill.

Specific objective/target: zero onsite incidents.

#### **Achieved?**

Yes. There were no incidents in 2015.

## Aspect: Purchased goods – paper and packaging

Facilitated by more efficient litho press set up, following the introduction of new software, less material will be required.

Specific objective/target: To reduce by 25 percent our material allowance for litho set up.

#### **Achieved?**

Yes. Set up allowances vary according to project complexity but we have reduced our typical figure by around 60 percent.

## Aspect: General waste

### Reduction in general waste sent to landfill

General waste levels are relatively low and although we have a weekly collection of our (660 litre) container, it is rarely full.

Specific objective/target: To monitor our general waste and in 2015 to introduce one new recycling stream and reduce either the size of our general waste container or frequency of collection.

#### **Achieved?**

Although the number of collections of our general waste container fell in 2015 and we now receive better data from the waste collection company, we did not achieve this target. This target has been moved forward to our 2016 targets.

# OBJECTIVES AND TARGETS FOR 2016:

In accordance with EMAS requirements, our annual targets and objectives are linked to our register of significant environmental aspects.

## **Aspect: Energy use To reduce electricity use**

Powering our printing presses is our main energy requirement. Through improved production planning – scheduling similar projects to print consecutively – we will reduce press set up time (and wasted resources such as paper, ink and consumables).

**Specific target: to reduce electricity use by one percent in 2016, normalised against turnover.**

## **Aspect: Emergencies (fire, explosion, leaks, spills) Prevention of onsite incidents**

Stringent safety mechanisms and emergency procedures are in place and communicated to staff.

Specific objective/target: zero onsite incidents.

## **Aspect: Chemical / oil spills. Discharge to / contamination of surface drains or land Prevention of onsite incidents**

Stringent procedures and safety mechanisms are in place for spill prevention and action in the event of a spill.

Specific objective/target: zero onsite incidents.

## **Aspect: Purchased goods – paper and packaging**

Facilitated by improved press maintenance and production scheduling (to group similar projects together, thus reducing set up times and associated material requirements) we aim to further reduce material allowances for press set up.

Specific target: to reduce by 5 percent material allowances for press set up.

## **Aspect: General waste Reduction in general waste**

General waste levels are relatively low and of the waste collected onsite only around 10 percent (based on waste collection and sorting company overall figures – see also General Waste page 5) is destined for landfill. However, there is potential to reduce vehicle movements for this waste stream and introduce an internal recycling stream (composting) for food waste.

Specific targets: to reduce the frequency of our general waste collections to fortnightly (from weekly) and to introduce an internal recycling (composting) stream for food waste.

## **Objectives**

### **1. Client offsetting of emissions associated with their print projects**

We will research British Printing Industry Federation software to establish emissions, at the quotation stage, for all print projects. We will confirm emissions and offsetting costs and provide an offsetting service for interested clients.

### **2. Additional hybrid vehicles**

To use financial and emissions data gained from our current hybrid vehicle to establish the feasibility of introducing additional vehicles to replace company-owned, non-delivery vehicles.

# CORE INDICATORS

To follow are details of our performance in 2015 using core indicators according to EMAS regulations. Our financial year also runs from 1 January to 31 December.

<b>Energy Efficiency</b>	<b>Units</b>	<b>2015 total</b>	<b>Gross annual turnover: £millions</b>	<b>Ratio</b>	<b>2014 Ratio</b>
Electricity (standard tariff)	MWh	136.86	1.359	100.71	99.08
Gas (Note 2014 figure revised)	MWh	11.60	1.359	8.54	2.02
<b>Total direct energy use</b>	<b>MWh</b>	<b>148.46</b>	<b>1.359</b>	<b>109.24</b>	<b>101.10</b>
<b>Water Consumption</b>	<b>Units</b>	<b>2015 total</b>	<b>Staff numbers</b>	<b>Ratio</b>	<b>Ratio</b>
Water Consumption Normalised against staff numbers: 13 <i>Note: 2014 figure revised</i>	m3	205	13	15.77	15.00
<b>Material Efficiency</b>	<b>Units</b>	<b>2015 total</b>	<b>Gross annual turnover: £millions</b>	<b>Ratio</b>	<b>Ratio</b>
Printing substrates	tonnes	211.91	1.359	155.93	185.64
Inks	tonnes	1.33	1.359	0.97	0.94
Aqueous coatings	tonnes	0.65	1.359	0.48	2.24
<b>Total materials purchased</b>	<b>tonnes</b>	<b>213.89</b>	<b>1.359</b>	<b>157.39</b>	<b>188.82</b>
<b>Non hazardous waste</b>	<b>Units</b>	<b>2015 total</b>	<b>Gross annual turnover: £millions</b>	<b>Ratio</b>	<b>Ratio</b>
General waste (uncompacted) <i>volume converted to tonnes and 50% full containers</i>	tonnes	4.46	1.359	3.28	3.61
Materials recycled: Paper, Cardboard, Plastic	tonnes	51.03	1.359	37.55	48.29
Aluminium (printing plates, drinks cans)	tonnes	0.42	1.359	0.31	0.42
Ink tins	tonnes	0.21	1.359	0.15	0.58
<b>Non hazardous waste total</b>	<b>tonnes</b>	<b>56.12</b>	<b>1.359</b>	<b>41.29</b>	<b>52.90</b>
<b>Hazardous waste</b>	<b>Units</b>	<b>2015 total</b>	<b>Gross annual turnover: £millions</b>	<b>Ratio</b>	<b>Ratio</b>
Litho blankets	tonnes	0	1.359	0.00	0.10
Toner cartridges	tonnes	0.42	1.359	0.31	0.28
Litho solvents and developer	tonnes	1.88	1.359	1.38	1.37
<b>Hazardous waste total</b>	<b>tonnes</b>	<b>2.30</b>	<b>1.359</b>	<b>1.69</b>	<b>1.75</b>
<b>Core Indicator: biodiversity</b>	<b>Units</b>	<b>2015 total</b>	<b>Gross annual turnover: £millions</b>	<b>Ratio</b>	<b>Ratio</b>
One unit and associated grounds	M2	742	1.359	545.99	577.88

Data for the above is collected through: supplier invoices and annual statements.

# EMISSIONS

Methodology for emissions calculations: Defra / DECC's GHG Conversion Factors for Company Reporting 2015

Emissions of CH<sub>4</sub> and N<sub>2</sub>O associated with our use of energy for production, heating and transport purposes have been taken into account in the calculation of our greenhouse gas emissions which are expressed as tonnes of Carbon Dioxide Equivalent (CO<sub>2</sub>e).

Our processes do not produce significant emissions of other air pollutants (such as Hydrofluorocarbons, Perfluorocarbons, Sulphur hexafluoride).

No electricity is generated on site.

Carbon Dioxide Equivalent (CO <sub>2</sub> e)	Tonnes	Turnover £m	Ratio 2015	Ratio 2014
Direct energy: gas	2.14	1.359	1.57	0.38
Direct energy: electricity	63.26	1.359	46.55	48.97
Delivery transport fuel: one van	3.84	1.359	2.83	4.267
Delivery transport: hybrid car	0.33	1.359	0.24	n/a
<b>Total</b>	<b>69.57</b>	<b>1.359</b>	<b>51.19</b>	<b>53.62</b>

Note: 2014 Ratio for gas revised.

Delivery transport is our own vehicles only and not courier deliveries.

Annual gaseous emissions in tonnes	2015	Turnover £m	Ratio	Ratio 2014
SO <sub>x</sub>	0	1.359	0	2.01
NO <sub>x</sub>	0.01	1.359	0.01	0.00

Note: Methodology changed in 2015.

We are at present unable to measure releases to air of PM.



# ENVIRONMENTAL INCIDENTS

Environmental incidents are recorded via our EMS. No incidents were reported during 2015.

# SUPPORT ACTIVITIES

British Printing Industries Federation: The Printroom UK is a member.

Federation of Small Businesses: The Printroom UK is a member

# CONCLUSION

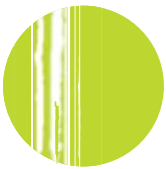
Our progress in reducing our environmental impact has been steady and solid. We recognise there is more that can be done and will continue to invest internal resources in this area.

During 2016 we will aim to increase our performance transparency and raise our profile as playing a leading role in raising environmental standards in UK print.

We will produce our next EMAS Environmental Statement in August 2017.

# VERIFICATION

Further to consideration of the documentation, data and information resulting from the organisation's internal procedures examined on a sampling basis during the verification process, it is evident that the environmental policy, program, management system, review (or audit procedure) and environmental statement meet the requirements of Regulation 1221/2009 (The EMAS Regulation).



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