

EMAS Environmental Statement

(Period covered 1st January 2015 - 31st December 2015)

Environmental Statement

Introduction

This is our interim environmental statement for the period January to December 2015. The Eco-Management and Audit Scheme (EMAS), is a voluntary initiative, intended to improve the environmental performance of companies. Participating organisations are required to produce a publicly available statement that records their environmental performance. This provides transparency as participating organisations are required to have the accuracy and reliability of their data independently checked and subject to third-party verification prior to publication.

Managing Director's Statement

Our ambition to minimise the environmental impact within our business; to share this knowledge with our customers and the wider print industry as a way to promote environmental improvement remain as strong as ever.

We continue as an active member of the WWF Global Forest and Trade Network in the UK encouraging the market for legal and sustainable timber products.

We continue to divert over 99% of dry waste from landfill whilst the business experienced another year of growth.

We have carried out a detailed energy survey of the business in accordance with the requirements of the Energy Savings Opportunity Scheme regulations (ESOS). This has highlighted significant potential energy savings to the business in the future which is most encouraging.

We plan to continue our work in 2016 and have set five objectives which are intended to enable Pureprint Group to achieve continued environmental improvement over the next 12 months.

Richard Osborne, Managing Director

Environmental Policy

Pureprint Group is a market leader in providing sustainable printing solutions for the corporate, creative, commercial and fine art markets. We understand the importance of the impact our operations have on the environment and this ranks equally with other key business objectives within our overall strategy. Compliance with relevant environmental legislation and other requirements is part of our business and we are committed to preventing pollution and continually improving the environmental performance of our business activities.

Environmental Management

By operating an environmental management system (ISO 14001) and verifying our data through our registration to EMAS we manage our environmental impact by focusing on the following issues:

- Improving energy efficiency and reducing carbon emissions
- Reducing and recycling waste and the use of valuable resources
- Including energy consumption, resource use and waste generation in purchasing criteria
- To increase awareness among our stakeholders of environmental issues by taking a leadership role in the industry and community
- Supporting our staff by providing information and training

Organisation and Responsibilities

Every manager in the business is committed to ensuring that our policy is implemented and understood. The Environmental Manager coordinates representatives from each department including Directors, who implement and manage environmental initiatives on site, including the setting of objectives and targets

each year. This policy is communicated to all employees and persons working on behalf of the company, it is available for download via the Internet and on request. It is reviewed on an annual basis.

Site Activities, Products and Services, Legal Provisions

The main activities of Pureprint Group continue to be lithographic and digital printing, print finishing, mailing, fulfilment, storage and data management.

During March we began installing the world's first MIS linking together Kodak, Heidelberg and HP workflows. The Tharsterns MIS will integrate workflows between the Kodak Prinergy Pre-Press Workflow, Heidelberg Press Room Manager linking XL presses, HP SmartStream Production Pro feeding the Indigo digital presses and our Purity web2print and ecommerce platforms. Tharstern's integration to JDF and JMF to HP SmartStream and Kodak Prinergy will provide an automated workflow for web2print order submission as well as valuable costing data.

We purchased and installed a Stahl KH82 pallet-fed folder and a Polar 137 Guillotine, with full flow line handling, from Heidelberg UK and short run, large format case binding equipment from Schmedt.

Our sites remain registered with the Environment Agency under the Hazardous Waste Regulations: Beacon House, Premises code NBD 412 and Pentex, Premises code NMG 614. Our certification of registration under the Waste (England and Wales) Regulations is certificate No. CBDU51742. We continue to test the waste water quality although consent to discharge is currently not required. Pureprint remain compliant with the Producer Responsibility Obligations (Packaging Waste) (Amendment) Regulations 2010 and submitted a report each year via Paperpak. We wish to acknowledge that we continue to be supported with strong working relationships with our suppliers and waste companies.

There were no environmental legal infringements recorded against Pureprint Group during the period of this report or at any point previous.

Significant Aspects and Impacts, Environmental Performance Indicators

The environmental data covers the manufacturing of commercial print and print finishing at the following Uckfield sites, Beacon House 3,504m²; Pentex Centre 3,802m² and Fulfilment & Mailing Centre (FMC) 6,359m², (total 13,665m²), 1.74m² per tonne of paper purchased. Our primary use of energy remains electricity for lighting and powering the plant whilst the factories are heated by natural gas. Chemical and material usage is controlled within house standards and industry manufacturing tolerances. Waste products are monitored and disposed of within current UK legislation, whilst making best use of the waste hierarchy. Water is used both for manufacturing and staff welfare and is monitored through departmental sub-metering. Our vehicles are modern and we endeavour to use them as resourcefully as possible. We work with our business partners to reduce our environmental impacts by seeking best practice. Presently we produce no renewable energy and this is regularly under review whilst looking at new technologies; we encourage natural wildlife to frequent our sites by placing bird boxes, log piles and compost bins in our grounds. We have a wildlife pond at Beacon House which is now well established. We continue to look at opportunities to enhance wildlife at our other sites in Uckfield.

Measurement of environmental performance

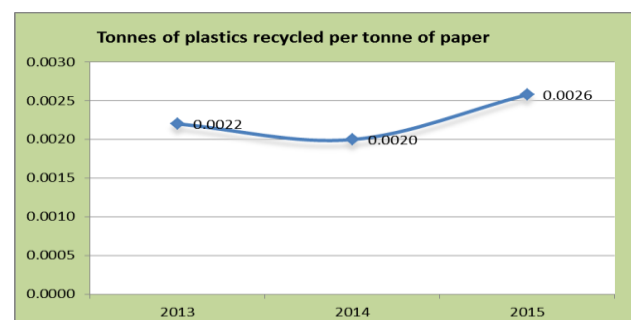
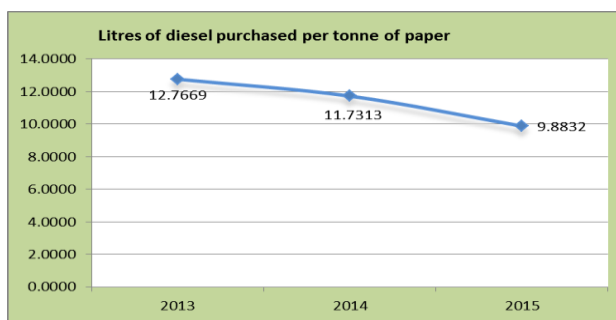
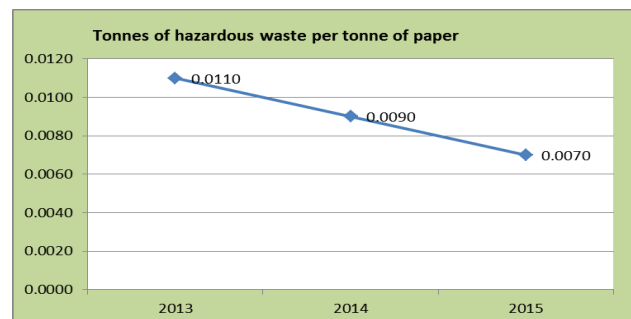
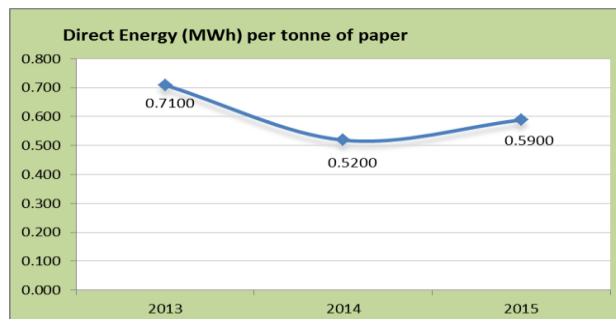
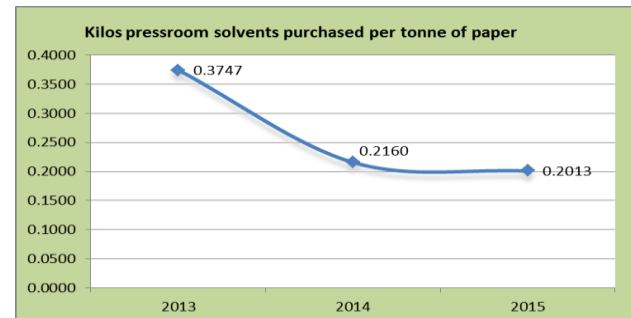
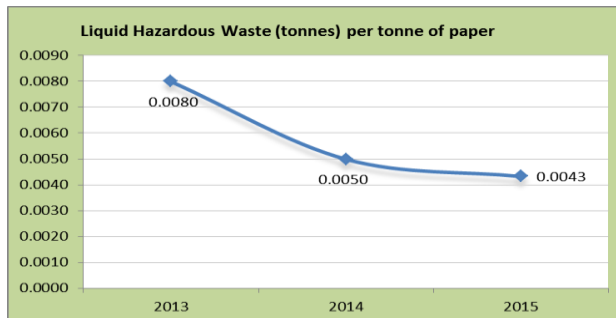
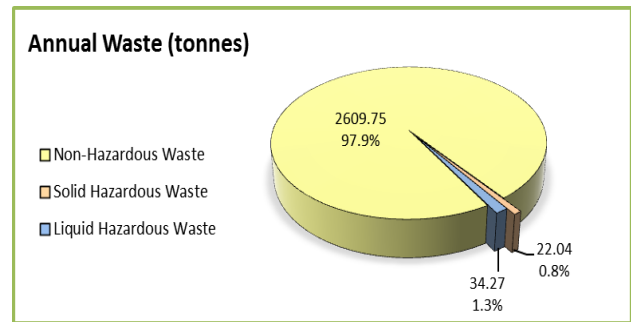
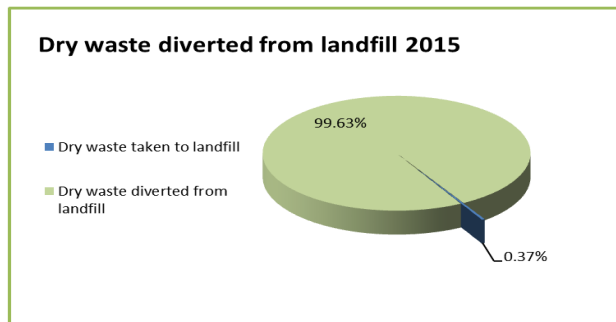
Within our Environmental Management Programme, we measure those factors which provide us with a meaningful indicator of environmental performance. In the main, these will be ongoing measurements of expenditure, consumption or emission. Where appropriate, a comparison is made between input and output related to the use of resources.

Key performance indicators

Indicator	2015	2014		2013			
Tonnes of paper (purchased)	7874	7316		5,684			
Sheets printed (impressions)	352,948,000	304,706,000		269,970,000			
Indicator	2015 Totals	per million sheets	per tonne of paper	per million sheets	per tonne of paper	per million sheets	per tonne of paper
Tonnes of CO2 emissions (tonnes) (Total annual greenhouse gases)	2161.38	6.12	0.274	6.47	0.269	6.38	0.303
Total direct energy used (MW/h)	4642.71	13.15	0.590	12.61	0.520	14.93	0.710
Water (Cubic metres)	4176.00	11.83	0.530	10.01	0.417	11.23	0.534
Ink purchased (tonnes)	47.33	0.13	0.006	0.14	0.006	0.12	0.006
Petrol purchased (litres)	282.97	0.80	0.036	4.88	0.2034	8.65	0.411
Diesel purchased (litres)	77817.35	220.48	9.883	281.68	11.721	268.81	12.767
Prepress chemicals purchased (litres)	4010.00	11.36	0.509	6.87	0.286	6.52	0.310
Litho plates purchased (tonnes)	58.23	0.16	0.007	0.18	0.007	0.18	0.009
Solvents purchased (tonnes)	12.37	0.03	0.002	0.03	0.002	0.06	0.004
Paper & Card recycled (tonnes)	2452.53	6.94	0.311	5.01	0.209	5.00	0.237
Plastics recycled (tonnes)	20.32	0.06	0.003	0.05	0.002	0.05	0.002
Litho plates recycled (tonnes)	49.87	0.14	0.006	0.14	0.006	0.14	0.006
Annual total waste (tonnes)	2666.05	7.55	0.338	5.78	0.241	5.68	0.270
Waste to landfill (tonnes)	10.22	0.03	0.001	0.03	0.001	0.03	0.002
Annual Hazardous waste (tonnes)	56.30	0.16	0.007	0.22	0.009	0.23	0.011
Solid Hazardous waste (tonnes)	22.04	0.06	0.003	0.11	0.004	0.07	0.003
Liquid hazardous waste (tonnes)	34.27	0.10	0.004	0.11	0.005	0.16	0.008
Complaints (environmental)		0		0		0	

Waste water samples	Limits	2015	2014	2013
Total Suspended solids	400 mg/l	8	62.2	12
Chemical Oxygen demand (unfiltered)	800 mg/l	33.2	114	35.2
Silver (diss. filt)	5 mg/l	<0.0015	<0.0015	<0.0015
pH	6-11	7.48	8.45	7.67

2015 highlights



Emissions to Air

We are able to determine the percentage of Volatile Organic Compounds (VOC) held within the chemicals we purchase for manufacturing and VOC emissions are a purchasing consideration, though we do not at this time measure their emissions to air. The VOC content of the chemicals we purchased was broken down by printing process as follows, lithographic printing 13.77 tonnes and digital printing 10.69 tonnes during 2015. These printing processes remain outside annual threshold consumption limits as set in the Environmental Permitting (England & Wales) Regulations 2010.

Carbon dioxide emissions are calculated using 2015 data supplied by the Defra / DECC's GHG Conversion Factors for Company Reporting. The CO₂e calculations are for electricity, gas and transport usage.

Environmental Management System (EMS) and Continual Improvement

The Environmental Management System has largely remained unaltered during this period. Regular reviews are made of Registers of Legislation and of our Aspects and Impacts. Progress made on Objectives and Targets set during 2015 are as follows:

1. **Objective: Waste** Implement the findings from a review to be held in 2015 of paper and cardboard waste streams at Uckfield sites. The growth in purchase tonnage of white paper for manufacturing will result in a proportionate waste increase. We need to ensure the waste is best segregated and does not devalue the paper recycling streams.

- Aim to ensure that current waste types are segregated to best utilise quality grades into recycling routes to maximise efficiency and income.

Conclusion: We held meetings in January & February with suppliers to review current methods of working along with the viability of collecting paper waste in a variety of ways. We established what is practical at each site for storing and removal. An agreement made with a new contractor covering the three Uckfield sites with waste paper and cardboard being collected 6 days per week. Traceability and reporting is set within the key performance indicators which feed into the EMS and EMAS systems.

2. **Objective: Energy use:** Modernise loading bay flood lighting and external walkway lighting at the Uckfield factories. Depending on final fitment we are looking for a 25% to 50% reduction in kWh per unit fitted.

- Increase functionality and control of lighting;
- Reduce energy bills;
- Aid a reduction in carbon emissions

Conclusion: Changing like for like was not straight forward as lumen output was a major factor as well as wattage. Saving electricity was one consideration but we were also keen to have the benefit of white light for safety reasons within our loading bays.

For some paths we decided that we had been over lighting and after testing different fittings we replaced bulbs of lower lumen output as well as lower wattage, For bulkhead lighting we had the opportunity to replace existing Sodium 70 watt bulbs with 11 Watt LED bulbs.

For time expired floodlights we replaced with suitable LED fittings and wattage varied with the requirements of the locations.

- Beacon House: 3x 11 watt LED bulbs replaced 3x 30 watt SON in the globe lamp posts on the front walkway. 11x 11 watt LED replaced 11x 30 watt SON bulkhead lights around the building.
- Pentex: 3x 30 watt LED replaced 3x 70 watt SON bulkhead lights at the rear. 2x 10 watt LED replaced 2x 70 watt SON on the side of the building. Pentex: 3x 50 watt LED replaced 3x 70 watt SON floodlights over the loading bays.
- FMC: 100 watt LED replaced, 150 watt SON flood light. Further improvement will be ongoing as we develop this site.

Building	Fitting	Wattage % saving
Beacon House	Lamp Posts	-84%
Beacon House	Bulkheads	-84%
Pentex Centre	Bulkheads Rear	-57%
Pentex Centre	Bulkheads Side	-86%
Pentex Centre	Bulkheads Loading bays	-28%
FMC	Floodlight	-33%

3. **Objective: Waste:** Continue to divert a minimum of 99% of dry waste from landfill.

- With the continued growth in staff numbers along with expansion within sites it is important to continue to monitor and review waste streams to ensure best methods of waste recycling and removal.

Conclusion: The result was 10.22 tonnes to landfill, with 2666.05 tonnes of dry waste diverted from landfill, resulting in 99.63% diverted. The prime increase has been through the replacement of a 660 litre bin with 1100 litre bin due to increased use of the FMC building.

4. Objective: Energy use: Carry out a review of the current heating system at Beacon House with a view to possible capital expenditure in 2016. The present boilers, installed in 1989 are of the conventional flue type, which have been superseded by more efficient designs.

- Increase functionality and control of heating system
- Reduce gas usage
- Reduce energy bills
- Aid a reduction in carbon emissions.

Conclusion: This objective was set before we began the journey reporting under the Energy Savings Opportunities Scheme regulation 2014, (ESOS). It quickly became apparent that there would be duplication or overlap between the objective and our requirement to submit our findings under the ESOS regulations. We decided the ESOS route would open the subject wider and allow ongoing objectives to be set.

The planned meeting with our heating contractor took place during July which resulted in pricing ideas being submitted. Meanwhile Pureprint engaged energyImpact to undertake the ESOS survey. During the last quarter of 2015 the Stage one ESOS Report was submitted to Pureprint board and then to the Environment Agency to comply with the ESOS regulations. It has highlighted potential annual savings for us to consider during 2016.

5. Objective: Waste: To increase the efficient use of paper. We are looking to demonstrate a 3% improvement.

- Review current purchasing and recycling rates to establish benchmark by 1 July 2015.
- Implement and measure new initiatives for six months from 1 July to 31 December
- Review current working methods and technology
- Install new MIS including imposition software
- Install new press room methodology and benchmarking.

Conclusion: Waste paper sorting and collections were realigned to reflect current business requirements during a review in the first quarter of 2015. We undertook an evaluation of how we plan and manufacture our print to ensure that we make the most of our materials and factory capacity. Investment was made with the planned introduction of Tharsterns management information system. As part of this, working methods were adjusted and processes streamlined. Heidelberg's Prinect Pressroom Manager is installed and is providing live data for production volumes, waste percentage, operating times and press speeds during make-ready and running. We can see that our newest press fitted with Inpress Colour Control is now operating with an average 15% less paper waste after the changes have been implemented.

Environmental Objectives and Targets In 2016

No.	Objectives and targets	Responsibility
1	Planning: Undertake ESOS Stage 2 review during first half of 2016. This will give a clear understanding of the options for future energy saving.	Managing Director, Chief Operating Officer
2	Waste: Monitor and reduce paper waste ratios in the printing process. <ul style="list-style-type: none"> • Average 5% or less across lithographic presses, • Set up and monitor waste ratios on digital presses with an aim to reduce paper waste. 	Heads of Customer Services, Digital manufacturing, Litho manufacturing Departmental Managers

<p>3 Waste: Continue to divert a minimum of 99% of dry waste from landfill.</p> <p>With the continued growth in staff numbers along with expansion of activities within sites, it is important to continue to monitor and continually review waste streams. This will ensure best methods of reducing, reusing, recycling and waste removal are implemented.</p>	<p>Heads of Customer Services, Digital manufacturing, Litho manufacturing, Departmental Managers</p>
<p>4 Energy use: Delivery Transport - working with our partners, we will draw up a transport action plan bringing together industry best practice for planning, performance and customer requirements.</p>	<p>Heads of Customer Services, Digital manufacturing, Litho manufacturing</p>
<p>5 Carbon Reduction: To continue to operate as a Carbon Neutral business and to encourage our customers and the printing industry to invest in carbon reduction programmes.</p> <ul style="list-style-type: none"> ▪ Organise an event to explain the carbon reduction benefits of carbon offsetting ▪ Relaunch to customers our Carbon Neutral Publications initiative. 	<p>Managing Director/Marketing Director /SHE Manager</p>

Support Activities and Indirect Effects

On-site visits, presentations, and participation in environmental events continue to be undertaken.

After great success working with the Direct Marketing Association (DMA) over the last couple of years Pureprint supported the DMA Awards as Print Partner for a second year in 2015. We also continue as the Trusted Print Supplier to the National Council for Voluntary Organisations promoting improved print management in the charities sector.

We remain certificated to the ISO9001 Quality Management System, ISO14001 Environmental Management System, ISO27001 Information Security Management System, and Forest Stewardship Council (FSC). We continue our partnership with Forum for the Future and Graduate status for the World Wildlife Fund, Forest and Trade Network (WWF FTN).

We are continuing to offset our carbon emissions through the CarbonNeutral[®] Company (certificate No.CN2014035368). We are pleased to offer a CarbonNeutral[®] publication service to customers through our Pureprint Gold service. Pureprint Gold offers carbon offsets against The Gold Standard[®] accredited projects throughout the world.

Awards won:

- PrintWeek Awards 2015, Book Printer of the Year;
- British Book Design and Production Awards - Self-Published category, (Lost My Name);
- British Book Design and Production Awards - Exhibition Catalogues, (Jenny Saville: Oxyrhyncus);
- British Book Design and Production Awards - Best British Book, (John Bannenberg : A Life of Design);
- Inkspiration Awards 2015 - Direct Mail Award;
- Print, Design & Marketing Awards 2015 Direct Mail Award.

This is a summary of our environmental activities during 2015. The next environmental statement is due for publication in March 2017 and will cover the period January 2014 to December 2016. For further information regarding our services please contact us and we will be pleased to discuss your requirements.

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, programme, management system, review (or audit procedure) and environmental statement meet the requirements of Regulation 1221/2009 (The EMAS Regulation).

Verified by



March 2016

On behalf of: SGS United Kingdom Ltd
Rossmore Business Park
Ellesmere Port
South Wirral
England
CH65 3EN

EMAS Accreditation No: UK-V-0007

