

EMAS Environmental Statement

(Period covered 1st January 2014 - 31st December 2016)



Pureprint Group
Bolton Close
Bellbrook Park
Uckfield
East Sussex
TN22 1PH

Environmental Statement

Introduction

This is our environmental statement for the period January 2014 to December 2016. 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

The twelve months to 31 December 2016 not only saw our progress and achievements as detailed in this report but also saw us undertake and complete a major reorganisation of our Uckfield production facilities across all three of our sites on the Bellbrook Industrial Estate in Uckfield, East Sussex.

After 10 years of continuous growth, investment and diversification we undertook a complete review of our production processes, workflows, touch points and staff and transport movements across the three sites, identified that significant operational and environmental improvements were available to us if a full reorganisation of our facilities was implemented. This work was commenced in February and completed in October.

The result is a dedicated litho printing factory with associated platemaking, pre-press, account management and customer facilities in one building, a similar dedicated digital printing facility and a dedicated litho finishing hall. The operational efficiencies are, as expected, significant. The reorganisation work was carried out whilst responding to the production demands of a very busy year with increased customers and orders and I would like to express my appreciation to all the staff who managed this project with no major adverse variances on our environmental performance.

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, this includes 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

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

During the phased site reorganisation, we targeted a reduction in vehicle movements between sites, firstly relocating the lithographic press hall directly next to the main warehouse. The relocation of that department allowed for the expansion of the digital printing and finishing within Beacon House. This permitted the inclusion of dedicated finishing equipment on site, including lamination, wire-o-binding, UV varnishing and larger despatch facilities which further reduces transport across the estate to the Pentex Centre. The introduction of two new Heidelberg lithographic presses, replacing older equipment gave the opportunity to review processes and target a reduction in make-ready times and waste ratios. To aid the control of carbon emissions we installed LED lighting in the new press hall and platemaking department, along with the perimeter lighting of Crowson House. Over ninety staff were relocated into freshly refurbished offices at both Crowson House and Beacon House. This created a pleasant working environment and aided speed of communication and process delivery.



Legal Provisions

Producers of hazardous waste in England are no longer required to register their premises with the Environment Agency since April 2016. Prior to this our sites had been 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. Pureprint remain compliant with the Producer Responsibility Obligations (Packaging Waste) (Amendment) Regulations 2010 and submit a report each year via Paperpak. We wish to acknowledge that we continue to be supported by 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 Crowson House (FMC) 6,359m², (total 13,665m²), 1.58m² 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. Currently we do not produce renewable energy however this is regularly reviewed whilst looking at new technologies and innovations. Water is used for manufacturing primary for making lithographic printing plates and producing reverse osmosis (RO) water for the presses and is monitored through departmental sub-metering. Minimal water is used through other processes with staff welfare primarily being responsible for the majority of remaining water usage. Our vehicles are modern and we endeavour to use them as resourcefully as possible with the aid of scheduling and monitoring techniques. We work with our business partners to reduce our environmental impact by seeking best practice and being innovative.

We encourage wildlife to frequent our sites by placing bird boxes, log piles and compost bins in our grounds. We continue to look at opportunities to enhance wildlife at our other sites in Uckfield.

Measurement of environmental performance

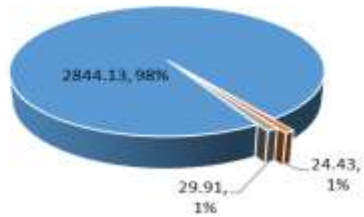
Within our Environmental Management Programme, we measure those factors which provide us with a meaningful indicator of environmental performance. In the main, these will be ongoing measurements of expenditure, consumption or emission. Where appropriate, a comparison is made between input and output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

Key performance indicators

Indicator		2016		2015		2014	
Tonnes of paper (purchased)		8657		7874		7316	
Sheets printed (impressions)		328,872,000		352,948,000		304,706,000	
Indicator	2016 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)	2172.07	6.60	0.250	6.12	0.274	6.47	0.269
Total direct energy used (MW/h)	5250.76	15.97	0.607	13.15	0.590	12.61	0.520
Water (Cubic metres)	5322.00	16.18	0.615	11.83	0.530	10.01	0.417
Ink purchased (tonnes)	61.05	0.19	0.007	0.13	0.006	0.14	0.006
Petrol purchased (litres)	0.00	0.00	0.000	0.80	0.036	4.88	0.2034
Diesel purchased (litres)	74597.96	226.83	8.62	220.48	9.883	281.68	11.721
Prepress chemicals purchased (litres)	9980.00	30.35	1.153	11.36	0.509	6.87	0.286
Litho plates purchased (tonnes)	82.96	0.25	0.010	0.16	0.007	0.18	0.007
Solvents purchased (tonnes)	16.73	0.05	0.002	0.04	0.002	0.03	0.001
Paper & Card recycled (tonnes)	2662.56	8.10	0.308	6.94	0.311	5.01	0.209
Litho plates recycled (tonnes)	64.90	0.20	0.0075	0.14	0.006	0.14	0.006
Plastics recycled (tonnes)	29.15	0.09	0.0034	0.06	0.003	0.05	0.002
Waste to landfill (tonnes)	10.30	0.03	0.0012	0.03	0.001	0.03	0.001
Solid Hazardous waste (tonnes)	24.43	0.003	0.074	0.06	0.003	0.11	0.004
Liquid hazardous waste (tonnes)	29.91	0.09	0.003	0.10	0.004	0.11	0.005
Annual Hazardous waste (tonnes)	54.34	0.165	0.006	0.16	0.007	0.22	0.009
Annual total waste (tonnes)	2898.13	8.81	0.335	7.55	0.338	5.78	0.241
Complaints (environmental)		0		0		0	
Waste water samples	Limits	2016		2015		2014	
Total Suspended solids	400 mg/l	110		8		62.2	
Chemical Oxygen demand (unfiltered)	800 mg/l	167		33.2		114	
Silver (diss. filt)	5 mg/l	<0.0010		<0.0015		<0.0015	
pH	6-11	8.6		7.48		8.45	

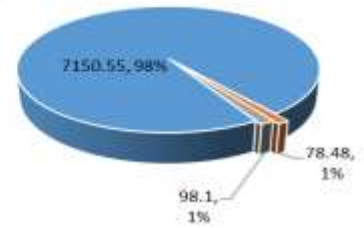
Annual Waste (tonnes) 2016

- Non-Hazardous Waste
- Solid Hazardous Waste
- Liquid Hazardous Waste



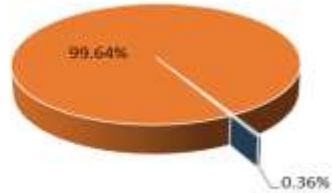
All waste (tonnes) 2014 -2016

- Non-Hazardous Waste
- Solid Hazardous Waste
- Liquid Hazardous Waste



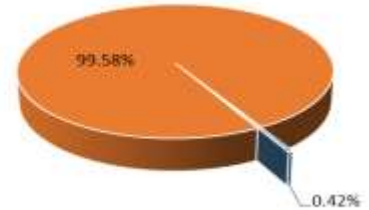
Dry waste diverted from landfill 2016

- Dry waste taken to landfill
- Dry waste diverted from landfill

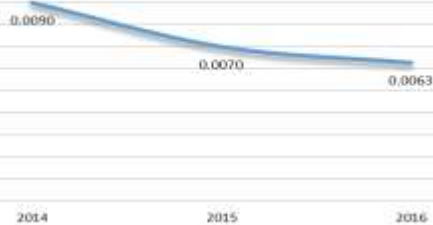


Dry waste diverted from landfill 2014 - 2016

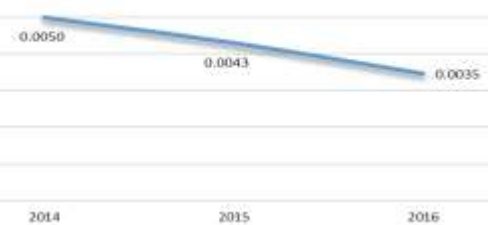
- Dry waste taken to landfill
- Dry waste diverted from landfill



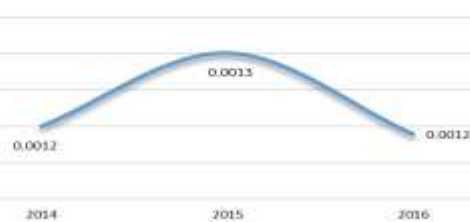
Tonnes of hazardous waste per tonne of paper



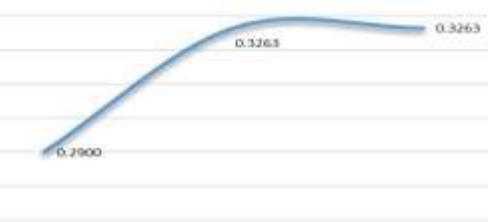
Liquid Hazardous Waste (tonnes) per tonne of paper



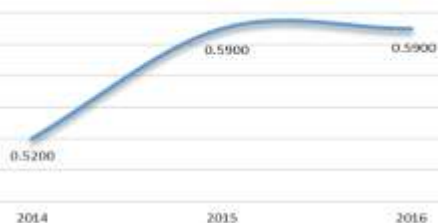
Tonnes of waste to landfill per tonne of paper



Tonnes of paper & card recycled per tonne of paper



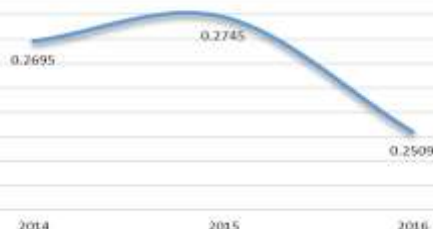
Direct Energy (MWh) per tonne of paper



- Litres of petrol purchased per tonne of paper
- Litres of diesel purchased per tonne of paper



Tonnes of Co2 emissions per tonne of paper



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 in 2016 was broken down by printing process as follows, lithographic printing 16.83 tonnes and digital printing 11.77 tonnes.

Volatile Organic Compounds (VOC)	2014	2015	2016
Tonnes of Lithographic VOC	9.39	13.77	16.83
Tonnes of Digital VOC	5.94	10.69	11.77
Total	15.33	24.46	28.60
Tonnes of VOC per tonne of paper	0.002	0.003	0.003

Carbon dioxide emissions are calculated using 2016 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 2016 are as follows:

1. **Objective: Planning:** Undertake ESOS Stage 2 review during first quarter of 2016. This will give a clear understanding of the options for future energy saving.

Conclusion: 2016 was year of change, with the consolidation of processes within the three Uckfield sites. It was thought prudent at this point to postpone the stage 2 review until after the reorganisation project was completed. However, during this period we engaged with specialist companies being mindful of the conclusions from our stage one ESOS audit. We continued our relationship with action4energy who had previously advised us through the ESOS process. Plans were completed for our investment in the new machine room LED lighting which was installed during the second quarter of the year.

During November 2016 we completed upgrading the lighting on the outside of Crowson House. We renewed the control equipment and all replacement fittings purchased as LED.



2. **Objective: Waste:** Monitor and reduce paper waste ratios in the printing process.

- Average 5% or less across lithographic presses,
- Set up and monitor waste ratios on digital presses with an aim to reduce paper waste.

Conclusion:

During 2016 we undertook work in reducing lithographic press make-ready times. As part of this process, we needed to understand the interaction of running waste in combination with the number of make-readies and run length. We set the ambitious task to average 5% paper waste across the range of lithographic presses. This was done whilst producing a wide variety of products from high intervention work, through to those running to house standards within ISO12647. In the event the changes in print buying, with increasingly shorter run lengths being common place, meant there is a limit to the percentage that waste can be reduced in relation to the sheets being printed. By the end of the year we achieved an average of 6.2% paper waste across the presses.

Lithographic press	Annualised average waste % per press	Combined annualised average waste %
XL 105-10P	4.2%	6.2%
XL 105-5L	6.9%	
XL 105-4L	7.4%	
XL 105-6L	6.8%	

Digital printing - The way we buy print is rapidly altering along with the traditional work mix. This is most noticeable in the Web-to-Print sector with multiple one-offs reducing make ready waste, as many similar format pages are printed without the need to alter the machine settings greatly. With the changes we had set up elsewhere within our management systems, we did not pursue monitoring digital press waste ratios at this stage.

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 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.

Conclusion: 99.64% of dry waste was diverted from landfill. A total of 10.3 tonnes of waste was collected from the three sites, with 2,833 tonnes of dry waste being diverted. We feel that there is still some room for improvement if we can restream or remove some packaging which is being supplied regularly to us.

4. **Objective: 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.

Conclusion: We worked with our transport partners to understand if we could improve our same day delivery service in and around London. Pureprint Group were operating multiple vehicles specifically to London, each despatched at set intervals throughout the day. During 2016 we trialled a two vehicle system running to a hub in south east, London. This allows for deliveries to be made using a more appropriate vehicle for the size of the delivery and its location. This was a success and we have now directed vehicles away from the London route onto other duties. This allows us to be much more controlled and is reducing the need for employing larger vehicles to run local journeys. This system will be further refined during 2017.

5. **Objective: 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.

- Organise an event to explain the carbon reduction benefits of carbon offsetting
- Relaunch to customers our Carbon Neutral Publications initiative.

Conclusion: We organised two events to promote Carbon Neutral printing and publications. The first on 9th May at Stationers Hall which gave the audience a review of the modern printing industry and discussed the innovative, personal and sustainable aspects of printing today. The second event was on the 16th June when we hosted with Natural Capital Partners, a “Getting to Zero” dinner discussion about how business can drive corporate environmental improvement as a profit centre instead of justifying it as a cost. These events led to further interest in the carbon foot printing publications we are asked to produce and the use of the CarbonNeutral Publication accreditation.

Environmental Objectives and Targets 2017

No.	Objectives and targets	Responsibility
1	To report all KPI's on a site specific basis and to establish baseline measurements by site and local management at each site to set site specific environmental objectives for 2018	Mark Croucher, Matthew Cummins, Paul Pettitt
2	To achieve the Carbon Trust Standard for Zero Waste to Landfill.	Mark Croucher, Matthew Cummins, Paul Pettitt
3	To progressively increase the proportion of timber that originates from credibly certified and recycled sources in accordance with our WWF GFTN trade membership participation rules.	James Gascoigne, Richard Owers
4	To add at least 10 new customers to our CarbonNeutral Publication initiative	Sales team, Alan Ball, Richard Owers

Support Activities and Indirect Effects

Regular on-site visits, presentations, and participation in awareness events continue with many clients taking the opportunity to visit Uckfield sites. During the summer Pureprint Group hosted a visit from the UK arm of the Global Forest & Trade Network (GFTN). In addition, two events to promote Carbon Neutral printing and publications.

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. We have worked with our partners to promote Carbon matters.



Awards won:

During 2016 the following awards have been won:

- PrintWeek Awards 2016, Book Printer of the Year;
- PrintWeek Awards 2016, Brochure Printer of the Year;
- Print, Design & Marketing Awards 2016, Short run printing award
- Print, Design & Marketing Awards 2016, Books and Booklet award
- Print, Design & Marketing Awards 2016, Finishing award
- Print, Design & Marketing Awards 2016, Supreme award
- HP Inkspiration Awards 2016, People's Choice Award for Artistic Value

During the three years this statement covers, we have been fortunate to receive 17 awards for our work and have been shortlist for numerous more.

This concludes our review of our environmental activities during 2014 - 2016. The next interim environmental statement is due for publication in March 2018 and will cover the period January to December 2017. 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 2017

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

EMAS Accreditation No: UK-V-0007

