

# (Th)ink

EMAS Environmental Statement for Generation Press.  
EU Eco-Management and Audit Scheme.





# EMAS Environmental Statement 2015

John Early

For and on behalf of NQA.  
Verifier Ref. UK-V-0012

Signed:

.....  
20 November 2015

EMAS Scope: Provision of Print Production –  
Digital, Lithographic, Letterpress and Foil blocking.

NACE Code 22.2

Print  
Optimists

We Are  
Generation  
Press

There is no planet B.

Coined by a clever unknown back in 2009





### Managing Director's Introduction

We are Generation Press.  
We make beautiful print.  
We believe in sustainable print.

Welcome to our third EMAS Environmental Statement. Has it really been 36 months of hard 'green' labour since we started our first EMAS accreditation? I really can't believe we've been at it for this long. I guess we should begin to feel a little bit like old hands by now. The truth is, it continues to be a journey of discovery for us.

Every day we learn something new. And every day we have to re-examine our practices and procedures – even lifestyles – and respond accordingly. Whether it's the dodgy fish in our sandwiches, this current government's brainless 'slash and burn' attitude to renewable energy, or the sad closure of a much-respected, century-old paper mill, we are constantly adapting

our behaviours to support our mission: to make beautiful, sustainable print because it takes craft to make beautiful print sustainable.

Since the introduction of our Indigo Digital Press, we've been breaking new ground with the quality and innovation of what can be achieved with this more sustainable, efficient and cost-effective print option. And the remarkable Litho Print results we're achieving have not gone unnoticed.

Our collaboration with photographer Timothy Saccenti and Fitch designer Ed Sullivan culminated in the beautiful 'Formation' – a limited edition book. This year, this fine piece of work won Digitally Printed Book of the Year by the British Book Design & Production Awards! We were one of only two independent businesses from the South East to win, as opposed to major publishing houses. Also this year, Digital Print Magazine nominated us Digital Printer of the Year.

We've been busy honing our skills, experimenting with our craft and influencing change. Because we believe we have a responsibility to influence change within the creative industry. We make it very easy for those we work with to choose sustainable print options without compromising quality. We like to think we have a Trojan Horse effect by dispelling some of the myths around the quality of sustainable materials and business practices. We do all the research and experimentation, then we share our

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product knowledge with Creative Directors and Designers around the world whose decision-making powers matter. Some of our clients now actively source us for our environmental credentials because they know we know what we're doing in this area.

Without our EMAS accreditation, and all the hard work that goes into achieving it, we would not be able to turn our aspirations into actions.

And the green beat goes on.

### Paul Hewitt

Owner / Managing Director  
at Generation Press.

Signed:

20 November 2015

A blue-tinted photograph of a printing press control room and machinery. The control room is visible on the left, with several operators seated at consoles. The right side of the image shows large industrial printing machines with various panels and controls. The text "About Generation Press" is overlaid in white on the right side.

# About Generation Press



### About Generation Press

Collaboration, craft, commitment, don't just make it, make it better, family business, fourth generation, heart and soul, borderline obsessive, not even borderline, invent, reinvent, stay curious, listen, print with principles, make more from less, less waste, less cost, quality, quality, quality, EMAS certified, not impossible, just hard, dig into details, price it fairly, pride in each project, ideas into print.

Think about ink.

Founded in 1905, Generation Press is a small, family-run business with a great heritage and huge ambitions. We are obsessed with the craft and quality of print, and with achieving it in as clean, ethical and sustainable ways as possible. Simple.

Our passion for quality comes from our love of excellent design and a respect for the creative community we're so proud to be a part of. We're all crazy perfectionists here, totally consumed with every minute detail of the creative process. We can't help it.

Despite being based on a rural farm in the beautiful Sussex countryside, we've always been at the forefront of the print industry.

We collaborate with some of the finest creative agencies and global brands around. This puts us in a very unique position. Our colleagues not only rely on us to embrace the latest techniques and cutting edge technologies, but they also trust us to advise on the highest quality, sustainable materials and stocks for each project.

By knowing the best suppliers, their sourcing policies, the provenance of their materials and miles travelled, we're able to deliver world-class print solutions AND influence change by example in very practical ways.

But it's not just about producing great-looking work that is worth keeping (and not discarding). It's about the whole lifecycle of a print product. We care what happened before the job came to us, while it's in our hands, and what happens next. Which is why we stay curious and inspired. We may be small, but it doesn't stop us aiming high, thinking big and caring beyond the here and now.

Four generations of thoughtful business. Great design, quality print, created to last.



## Activities & Services

We offer myriad creative print solutions. From business cards to fashion books, corporate and personal stationery to charity annual reports and accounts, art catalogues and distinctive invitations for the most private of functions right up to giant corporate events, we bring brands to life with tactile, beautifully designed communications that people can really engage with.

## Specialist activities:

- Graphic Limited Editions
- Fine Art Catalogues
- Photographic Books
- Coffee Table Books
- Luxury Stationery
- Business Stationery
- Creative Packaging
- Invitations

## Specialist services:

### Litho

Our core craft. Exploring. Fine-tuning. Investing. Combination of latest technology (e.g. closed-loop colour control) + human know-how (from experience). Very, very versatile. Fine art. Reports & accounts. Detailed work. Short / medium / long runs. Pride in every project.

### Digital

Adventure in technology. Good for short-run. Personalised. On-demand. Improving for quality & range. Invested in HP Indigo press in 2013. Seven-colour. Handles more stocks than ever. Dark materials. Clear materials. White ink. Takes human expertise. Digital is now a craft.

### Foiling

Hot metal fusing foil to stock. Silver. Gold. White. Coloured. In-house since 2005 on modified Heidelberg press. Hand-operated. Human craft. Stationery loves it. Business cards love it. Premium projects love it. We love it.

### Die-cutting

Precision incision. Any shape. Many materials. Also kiss-cutting. Where you cut a layer & leave base untouched. Peel-off stickers. Bespoke paper-over-board presentation box. 2mm-thick duplexed stocks. Heavy-duty grey boards. All in-house. Takes know-how to do it well.

### Letterpress

Old school. In our blood. Our first & second generations were letterpress compositors. Revived with love in 2009. Original craftsmen aimed to 'kiss' ink onto paper with no sign of indent. Now it's seen as part of the charm. Nice with opulent metallics. Bold fluorescents. Rich primary colours. Old + new.

### Colour-edging

The third dimension of print. Applying colour to the edge of a business card, invitation, book block. Spent years mastering it. Mixing the inks in-house. Metallics. Colour gradients. One edge or many. GP speciality.

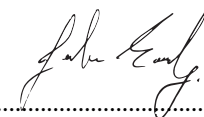
### Duplexing

Bonding sheets of paper / board together. Two or more. Triplex. Quadroplex. Pentaplex. Hexaplex. (Hexaplex = great word.) Most we've done is 6 sheets. So far. All about texture & heft. Layers of colour. Print geology.


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When climate justice wins we  
win the world that we want.

Naomi Klein

Author and social activist



# Green Paper

Environmental Policy





### Green Paper

We are Generation Press.  
We make beautiful print.  
We believe in sustainable print.

Scope: Provision of Print Production –  
Digital, Lithographic, Letterpress,  
Foil blocking.

We at Generation Press are printers  
through and through. Across four  
generations, great print runs through  
our veins. And we know sustainable  
print equals beautiful print. That  
making more from less is possible.  
Improving quality and reducing costs  
go hand-in-hand. Using renewable  
energy, FSC papers and less ink will  
never compromise the standard of our  
work. And being carbon neutral means  
exactly that. In other words, we are  
print progressives, or print optimists,  
if you like.

This Green Paper (Environmental Policy  
and Eco Programme), which is updated  
every year, sets out our targets. Part  
policy statement, part road map, part  
checklist, it provides us with a charter  
that constantly reminds us of what our  
environmental and ethical responsibilities  
are, and that we have a shared  
commitment to meet them.

### Duty of Care

We are EMAS

Eleven printers in the UK have managed  
it and we're the smallest. It's not the  
certificate, but what it forces us to do.  
We have to examine every aspect of our  
business and fix even the tiniest things.  
No hiding place, just lots of lessons.  
It makes us better printers. The EU  
Eco-Management and Audit Scheme  
is the most credible and robust  
environmental management  
system out there.

We are ISO14001

The most recognised environmental  
management standard in the world  
and a big deal in itself. For us, it's the  
stepping stone on the way to the even  
more demanding EMAS standard.

We are carbon neutral

We have been for many years. A zero  
carbon footprint is a good target  
because it focuses attention and makes  
you gather the data.

As part of our offsetting programme,  
we support the Rio Ceramics Project  
in Pinheiral City, Brazil. The project  
replaces heavy oil with renewable  
biomass to generate energy at three  
ceramic brick factories, while  
contributing to the social and economic  
development of local communities.

#### We use FSC paper

The Forest Stewardship Council guarantees that FSC paper products come from well-managed forests – the only one to be recommended by Greenpeace. The criteria are to conserve biological diversity and ancient forests, protect indigenous groups and combat climate change. Good enough reasons for us to endorse and promote to all our customers.

#### We use vegetable inks

They're better for the planet and they're better quality. We've been using them since the last millennium. We also use computer-to-plate technology that removes the need for toxic chemicals. Our B2 Press is super-efficient on ink and energy, which is partly why we chose it in 2011.

#### We use less paper and a tiny bit more ink

Since our EMAS audits, we have been keeping stringent records of our consumption since 2012. Despite a 21.7% increase in production over the last 3 years, we have reduced our paper purchases by 33.7%, and cut our ink purchases by 16.7%. Careful stock control enables us to be as prudent as possible.

#### We use solar power

Our solar panels arrived in August 2013 and go a long way to powering two of our main presses in building 2. They also look beautiful, or handsome, depending which way your sun shines. In 2014/15, which was our first full accounting year for our solar panels, 49.8% of our electricity came from solar in building 2, and as much as 75% during the summer, which is amazing.

#### We use renewable energy

Aside from solar power, the rest of our electricity comes from Ecotricity, the world's first green electricity company and still the most advanced. They invest more in creating renewable energy than all other UK suppliers put together. Like us, they're EMAS certified. We're on the 100% Green Energy tariff.

#### We re-use and recycle

We re-use and recycle all materials wherever possible. 98.9% of our waste is recycled and just 1.1% goes to landfill. Our business card boxes are made from 100% recycled card. All off-cuts and 'overs' become gorgeous notebooks. We donate our foils to a local Community Recycling Scheme. All our printing rags are collected, washed and re-used by a professional, certified company.

Our packaging is Greenwrap – a sustainable replacement for oil-based plastic packaging materials (bubblewrap and polychips). Greenwrap is bio-degradable, derived solely from certified, sustainably managed forests, and is 100% recyclable and compostable. We also recycle the packaging that vendors send to us.

#### We are digital

Advances in technology means we can offer clients affordable, world-class print options without compromising our environmental objectives. We cannot stress enough how important this is for us.

# THE JAGUAR SPORTS CAR COLLECTION A PERSONAL ENDEAVOUR

by Christian J. Jenney

Edited by Jessica Mitchell  
Designed by Jaylene Bailey

*"The car is the closest thing we will  
ever create to something that is alive."*  
SIR WILLIAM LYONS (1901-1985)





#### We reduce waste

We have a commitment to continual improvement and prevention of pollution reinforced through EMAS and ISO14001. Where we cannot re-use or recycle, we dispose of our waste using the most responsible and safest methods available. All general waste is disposed of in accordance with the Environmental Protection (Duty-of-Care) Regulations 2003 and any waste IT is disposed of in line with the Waste Electrical and Electronic Equipment (WEEE) Regulations.

#### We switch off

Our Switch Off Campaign ensures we switch off all lights, monitors, computers, printers, kitchen and other equipment when not in use.

#### We buy ethically

We drink ethical tea and coffee, with fair trade, organic sugar and locally produced milk.

#### We ride bikes

We started our Buy A Bike Scheme, open to any employee to purchase a bicycle via the company and pay off monthly. Then came the STRAVA (GPS tracking cycling app) – the monthly Generation Press cycling competition started in March 2014. We actively encourage cycling to work with on average four employees regularly doing so.

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#### We use trains

We insist that all journeys to and from London are by train. Eventually, we aim to create an eco-taxi directory for whenever buses or the underground cannot be used.

#### We plant trees

Alder, Beech, Broom, Crab Apple, Dogwood, Gorse, Hazel, Juniper, Lime, Maple, Rowan, Scots Pine, Spindle, Sweet Chestnut, Walnut, Wild Cherry, Wild Pear, Wild plum, Wych Elm and Yew. So far, we've funded the planting of 2,134 trees at The Crossing, a community tree-planting project on the outskirts of Forest Row on the West/East Sussex border. Our most recent batch of 327 trees was planted at the Woodah Farm, on the very edge of Dartmoor in Devon. Woodah is part of the Wildlife Trust and is a great asset to the local community.

#### Nuts and bolts

We've integrated environmental management into all our business activities and provide a framework for setting, appraising and reviewing environmental objectives and targets set at management review. EMAS may keep us on our toes by ensuring we meet all the legal and regulatory requirements that apply directly to us, but we try to make all this stuff a way of life at Generation Press.

#### Paul Hewitt

Owner / Managing Director  
at Generation Press.

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20 November 2015



If you really think that the environment is less important than the economy, try holding your breath while you count your money.

Dr Guy McPherson, author, conservation biologist and thought leader

# (EMS) Environmental Management System



# (EMS)

Our EMS meets the standard of  
ISO14001 (approved for registration  
by NQA) and includes:

1. Environmental Policy  
(The Green Paper).
2. Environmental objectives and  
targets statement.
3. Scope statement.
4. Together with the primary  
elements of the EMS, within all  
associated procedures and related  
registers and documents.

We review all our activities to identify those that have an important or significant impact on the environment. Then we take action on how we can improve in those areas.

Throughout the year we monitor progress, and each year we review our targets to ensure we are improving our environmental performance. All members of the team at Generation Press are responsible for their part in meeting environmental performance targets.

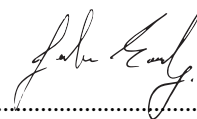
Zoe Hazelden, Sustainability Manager, is responsible for developing and running the environmental management and internal audit systems, and producing an annual management review of environmental performance.

Paul Hewitt, Managing Director, acts as the main advocate for what the company believes in and for its environmental policies and practices.

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# Legal Requirements

## Legal Requirements

Compliance makes all the difference. That is why EMAS is such a great environmental certification scheme. It not only leads the way in true environmental standards, but it also achieves what ISO does not – it is rooted in, and adheres to, all the relevant legal compliance.

Year-on-year, we will continue to identify where we are falling short and make improvements. A register is maintained, updated and controlled by our Environmental Management System.

No trade effluent is discharged from any of our sites. We don't actually need consent. As we use so little solvent we do not need a Local Authority permit under Environmental Permitting Regulations.

We are also not required to register with the Environment Agency under the Producer Responsibility Obligations Regulations 2010 – (less than 50 tonnes of Packaging Waste annually).

All applicable environmental legal requirements are completed via the 'Environmental Legislation's Register' (D 02.01).

**We demonstrate by doing, not talking.**

Dale Vince,  
Green energy industrialist  
and owner of Ecotricity



# Results/1&2 2014/15 GP's Environmental Objectives, Targets & Programmes

1. Liquid Waste Generation (Direct) – Reduce using the B2 & B3 Presses & Indigo Digital Press

Target O1. Use B2 Press (which uses less ink for the same output) over the B3 Press. Use Indigo Digital Press.

Aim: Reduce by 1%

Result: Reduced by 40.3%

Summary of result:

We reduced our liquid waste from 1982L last year to 1184L this year.

Target O2. Reduce ink consumption per sheet by 3% compared to production. Continue to monitor ink usage: compile and compare all presses production to ink purchase.

Aim: Reduce by 3%

Result: 30.7%

Summary of result:

We experienced an overall increase in production of 8.8% while simultaneously reducing our ink purchased by 12%. Increasing the usage of our B2 and Indigo Presses (which are far more efficient) led directly to 30.7% increase in efficiency on how many sheets are printed per kilo of ink. We had not anticipated the impact these changes would make, so we are overwhelmed with the outcome.

2. Energy Consumption (Direct) (Electricity) – Improve our energy efficiency

Target O1. Reduce energy consumption. Consistently remind staff of our Switch Off campaign. Research and communicate to staff the savings that can be made.

Aim: Reduce by 1%

Result: Reduced by 22.8%

Summary of result:

With the help of our solar panels, which directly feeds 49.8% of our electricity requirements into building 2, we have reduced our electricity demand on the grid from 69,395kwh last year to 53,577kwh this year.

Target O2. Look for an alternative to boiling the kettle in order to save time and avoid boiling unused water.

Summary of result:

Our Switch Off Campaign has been adopted by staff and become part of daily company behaviour, and our kettle has been replaced with an energy-efficient alternative.

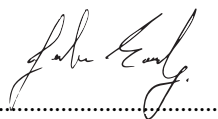


# Results/3&4 2014/15 GP's Environmental Objectives, Targets & Programmes

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## 3. Carbon Dioxide Emissions (Direct & Indirect) – Reduce our CO<sub>2</sub>

Target 01. Research new ways to cut our CO<sub>2</sub> and implement them.

Aim: Reduce by 1%  
Result: Reduced by 10.9%

Summary of result: We continue to look for other ways to cut our CO<sub>2</sub> emissions, but as our electricity consumption accounts for the majority of our carbon dioxide emissions, we are thrilled that our solar panels for building 2 (which houses our B2 and B3 Presses) supplies a massive 49.8% of all our power used in that building alone.

Target 02. Plant a minimum of 700 trees and record amount of CO<sub>2</sub> being saved.

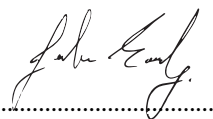
Aim: Plant 700 trees  
Result: Planted 710

Summary of result: We are also pleased to have planted 710 trees this year, with a CO<sub>2</sub> conversion of 18,460 pounds. Knowing that a single young tree can absorb 26 pounds of CO<sub>2</sub> per year continues to motivate our tree-planting initiative.

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## 4. Indirect Environment Impacts Procured Goods and Services. (Indirect)

Target 01. Continue to build on our comprehensive list of bona fide ethical papers and suppliers. Communicate with all paper suppliers to help provide a solution to update this list.

Aim: 25% of all papers we purchase annually.  
Result: Completed 100%

Summary of result: We had made great progress with our comprehensive list of bona fide ethical papers and suppliers however; the sad closure of a major UK paper supplier has had a devastating effect on the entire industry, and as a result, we have been forced to review our ideas around such a list. So rather than producing a definitive industry-wide list of ethical paper stocks, we have created a Generation Press Ethical Paper Grading System based on the actual papers we as a company use. We have now completed 100% of the Top ethical Papers List based on all the paper we purchased in the past year.

Target 02. Introduce new packaging incentive that is 100% recyclable.

Aim: Replace 100% of all polychips and bubble wrap.  
Result: Replaced 100%

Summary of result: We have replaced 100% of all polychips and bubble wrap with our new recyclable packaging.





# 2015/16 GP's Significant direct and indirect aspects & impacts

## GP's Significant Direct and Indirect Aspects & Impacts

### Significant Aspect 1. Liquid Waste Generation (Direct)

Using our waste management system, waste ink and plate chemicals are disposed of as hazardous waste in accordance with Hazardous Waste Regulations (2005, 2009). Waste ink is recycled and sent for further processing into industrial fuels as renewable energy. All water is extracted and cleaned and returned to the water cycle.

#### Potential Impact:

The recycling, re-use and safe disposal of waste creates CO<sub>2</sub> emissions. But, if you do re-use and recycle, you can significantly reduce the amount of waste going to landfill. Mismanagement of waste can give rise to air, land and water pollution by methane and other greenhouse gases. Even transporting waste produces emissions created by the vehicles. All waste must be treated with a 'Duty-of-Care'.

### Significant Aspect 2. Energy Consumption (Electricity) (Direct)

Generation Press does not use gas; our studio/office is heated by oil, which is safely banded in accordance with environmental legislation. We will also introduce 'degree days', to account for either our low or high oil use, depending on how cold it gets in winter.

Most of the energy we consume is electricity. Which is why our focus is on reducing our electricity usage, as it accounts for 50% of our total carbon footprint.

For many years, Ecotricity has been our green supplier of choice because it invests in renewable energy sources. And since installing our solar panels, we have been able to dramatically reduce our need for external energy sources.

Weekly meter readings are taken and we are able to confirm that, in 2014/15, 49.8% of our electricity in building 2 was solar-powered. All solar energy that is generated at weekends, or when the presses are not running, is sold back to the grid.

#### Potential Impact:

The generation and use of electricity creates greenhouse gases.

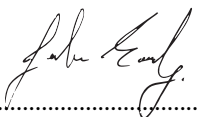


# cont'd... 2015/16 GP's Significant direct and indirect aspects & impacts

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## 3. Carbon Dioxide Emissions (Direct & Indirect)

The Generation Press Carbon Neutral results for 2014/15 is 58 tCO<sub>2</sub>e and for each employee is 5.27 tCO<sub>2</sub>e (last year 5.92 tCO<sub>2</sub>e). Our CO<sub>2</sub> has decreased from 65.1 tCO<sub>2</sub>e to 58 tCO<sub>2</sub>e. That is a -10.9% decrease in our overall tCO<sub>2</sub>e.

This is mainly due to our solar panels supplying us direct power to building two for the first full year's reporting, which has meant a -28% overall decrease in our electricity demand from the grid.

From now on, it will be trickier to achieve such huge results. Now we have got our levels down, it will be about keeping them down and maintaining that level, with hopefully small improvements and setting the right targets.

### Potential Impact:

CO<sub>2</sub> emissions relating to the overall operation of the company including business travel, power consumption, recycling, waste management and logistics.

## 4. Indirect Environment Impacts Procured Goods and Services (Indirect)


First and foremost, our priority is paper and paper suppliers. So in all good faith, we began compiling a comprehensive list of bona fide ethical papers and suppliers. As mentioned previously, we had made great progress with this, but with the closure of a major UK paper supplier and the transient nature of the industry as whole, we have had to re-think our strategy.

We have now achieved 100% of the Top ethical Papers List based on all the paper we purchased in the past year. And once we have developed our internal Generation Press Ethical Paper Grading System further, we will be able to confidently advise on and provide our clients with well-researched, ethical paper options that are the best quality for each job.

Our client-facing Top Ethical Papers List will not just be based on FSC or recycled credentials, but will also allow clients to trace their paper back to the mill from which it came and know how far their paper has had to travel. This level of information will mean we can really shape our clients' views on ethical paper, opening up important dialogue and raising awareness. Just as the FSC and recycled content of papers change, so our list will continually evolve.

### Potential Impact:

Environmental performance of suppliers. Global warming, energy loss and erosion of eco systems. Raising awareness.



### GP's Environmental Objectives Targets & Programmes

These are our long-term goals  
and fundamental beliefs:

- Quality print forever.
- Reduce energy consumption.
- Reduce CO<sub>2</sub> emissions.
- Zero waste: Zero to landfill.
- GP Shop: Use materials that would otherwise have to be recycled.
- Encourage behavioural change internally and externally.

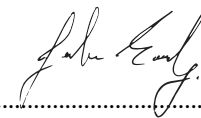
These are different to our targets,  
which are refreshed annually to  
ensure we continue to improve,  
achieve and sustain our long-term  
objectives above.

# GP's Environmental Objectives, Targets & Programmes 2015/16

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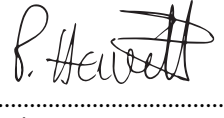


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## 1. Liquid Waste Generation (Direct) – Reduce using the B2 & B3 Presses & Indigo Digital Press

Target 01. Use B2 Press (which uses less ink for the same output) over the B3 Press. Use Indigo Digital Press.

Aim: Reduce liquid waste by 1%.

Target 02. Reduce ink consumption per sheet by 1% compared to production.

Aim: Reduce Ink consumption by 1% consumption per sheet.

## 2. Energy Consumption (Direct) (Electricity) – Improve our energy efficiency

Target 01. Reduce electricity by 1% against production / impressions.

Aim: Reduce energy consumption by 1%.

Target 02. Include degree days for comparative year on year purchase of oil for heating to gain specific usage.

Aim: Introduce degree days with our heating oil consumption.

## 3. Carbon Dioxide Emissions (Direct & Indirect) – Reduce our CO<sub>2</sub>

Target 01. Reduce carbon emissions by 1%.

Aim: Reduce carbon dioxide emissions by 1%.

Target 02. Continue to plant a minimum of 700 trees and record amount of CO<sub>2</sub> being saved.

Aim: Include the CO<sub>2</sub> being saved in our statement but not alter our Carbon Neutral figures where they will not be included.

## 4. Indirect Environment Impacts Procured Goods and Services. (Indirect)

Target 01. Research environmentally considerate alternative delivery options.

Aim: Change to electric delivery vehicle fleets, if viable.


Target 02. Research environmentally considerate alternative travel options.

Aim: Create a well-researched, London-based eco-taxi directory.

Target 03. Replace polystyrene packaging for the HP Indigo ink canisters with a cardboard alternative.

Aim: Lobby Hewlett Packard to replace polystyrene packaging with a cardboard alternative as above.





# Summary Data On Performance

## GP's Key Environmental Performance

### 1. Paper Usage (significant aspect 4)

| Environmental data  | 2011/12   | 2012/13   | 2013/14   |
|---|-----------|-----------|-----------|
| <b>1. Paper</b>   |           |           |           |
| <b>Purchased (tonnes)</b>   | 107,817   | 99,488    | 71,465    |
| <b>Sheets printed (B2&amp;B3)</b>                                 | 3,472,775 | 3,014,557 | 3,159,147 |
| <b>Sheets printed (Foiling)</b>                                   | 647,443   | 732,939   | 745,904   |
| <b>Sheets printed (Indigo)</b>                                    | -         | 863,257   | 1,109,345 |
| <b>Total Sheets</b>   | 4,120,218 | 4,610,753 | 5,014,396 |
| <b>Ink Purchased (Kilos)</b>                                      | 1,799     | 1,801     | 1499      |
| <b>Sheets Printed per kilo of ink</b>                             | 2,290     | 2,560     | 3345      |
| <b>2. CO<sub>2</sub> Emissions (tCO<sub>2</sub>e)</b>             | 65.7      | 65.1      | 58        |
| <b>3. Energy Usage</b>  |           |           |           |
| <b>Electricity-100% Green renewable from external source(kWh)</b> | 69,589    | 69,395    | 53,577    |
| <b>Electricity-Renewable from internal PV Panels (kwh)</b>        | -         | -         | 13,267    |
| <b>Fuel (Litres)</b>  | 3,550     | 4,722     | 3,090     |
| <b>4. Waste Product (tonnes)</b>                                  | 38.73     | 33.89     | 34.27     |
| <b>5. Water (m3)</b>  | 342.18    | 342.18    | 342.18    |
| <b>6. Environmental Complaints</b>                                | 0         | 0         | 0         |

Increase in production 2012/13 and 2013/14: 8.8%.

Paper purchased from 2012/13 and 2013/14: -28% decrease.

Ink purchased from 2012/13 and 2013/14: -12% decrease.

2012/13 and 2013/14 between ink purchased and sheets printed per kilo of ink: 30.7% increase in number of sheets printed per kilo of ink.

### 2. CO<sub>2</sub> Emissions GHG (significant aspect 3)

| CO <sub>2</sub> Emissions GHG  | 2011/12 | 2012/13 | 2013/14 |
|--|---------|---------|---------|
| <b>Electricity (tCO<sub>2</sub>e)</b>  | 33.6    | 30.9    | 26.5    |
| <b>Fuel Oil (tCO<sub>2</sub>e)</b>   | 10.7    | 15      | 9.87    |
| <b>Landfill Waste (tCO<sub>2</sub>e)</b>   | 0.28    | 0.23    | 0.18    |
| <b>Premises Total (tCO<sub>2</sub>e)</b>   | 47.2    | 48.8    | 38.9    |
| <b>Business Travel(tCO<sub>2</sub>e)</b>   | 7.21    | 6.83    | 5.21    |
| <b>Transport (tCO<sub>2</sub>e)</b>  | 11.28   | 9.46    | 8.69    |
| <b>Total (tCO<sub>2</sub>e)</b>  | 65.7    | 65.1    | 58      |
| <b>Staff</b>   | 11      | 11      | 11      |
| <b>Key Performance Indicators (KPI)</b><br>tCO <sub>2</sub> e = per full time equivalent employees | 5.97    | 5.92    | 5.27    |

October 2013 – 2014

-10.91% decrease in our results is due to our Solar Panels. (7.1 tonnes less than last year).

October 2012 – 2013

-0.92% decrease despite the installation of our Indigo Press in July.

October 2011 – 2012

35% increase (17 tonnes) due to additional new building (including printing press in July 2011)  
New B2 Press & Building Two: first complete reporting year.

October 2010 – 2011

-16% decrease from previous reporting year.

### 3. Energy Usage (100% Renewable) (significant aspect 2)

| Energy Usage  | 2011/12  | 2012/13  | 2013/14    |
|---|----------|----------|------------|
| Electricity-100% Green renewable from external source MWh | 69.6 MWh | 69.4 MWh | 53.6 MWh   |
| Electricity-Renewable from internal PV Panels             | -        | -        | 13.267 Mwh |

2013/14 First full accounting year for our Solar Panels (building 2).  
2012/13 New Indigo Press & Building One & Solar Panels.  
2011/12 New B2 Press & Building Two: first complete reporting year.

### 4. Waste (significant aspect 1)

This is a breakdown of our waste and recycling.

| Waste                 | 2011/12                     | 2012/13                     | 2013/14                     |
|-----------------------|-----------------------------|-----------------------------|-----------------------------|
| General Printed Waste | 23.37 tonnes<br>(23,369 kg) | 14.56 tonnes<br>(14,560 kg) | 18.64 tonnes<br>(18,640 kg) |
| Mill Dyed Paper       | 5.24 tonnes<br>(5,241 kg)   | 7.02 tonnes<br>(7,020 kg)   | 6.75 tonnes<br>(6,750 kg)   |
| Wax Wrappers          | 0.22 tonnes<br>(220 kg)     | 0.62 tonnes<br>(624 kg)     | 0.46 tonnes<br>(460 kg)     |
| Cardboard             | 0.11 tonnes<br>(112 kg)     | 1.56 tonnes<br>(1560 kg)    | 1.29 tonnes<br>(1290 kg)    |
| Polywrap              | 0.06 tonnes<br>(58 kg)      | 0.05 tonnes<br>(52 kg)      | 0.08 tonnes<br>(76 kg)      |
| DMR Recycling         | 7.32 tonnes<br>(7,323 kg)   | 5.46 tonnes<br>(5,456 kg)   | 3.16 tonnes<br>(3,159 kg)   |

| Waste               | 2011/12                       | 2012/13                       | 2013/14                       |
|---------------------|-------------------------------|-------------------------------|-------------------------------|
| General Landfill    | 0.62 tonnes<br>(624 kg)       | 0.50 tonnes<br>(504 kg)       | 0.40 tonnes<br>(396 kg)       |
| Hazardous Liquid    | 0.81 tonnes<br>(1,650 litres) | 1.98 tonnes<br>(1,982 litres) | 1.18 tonnes<br>(1,184 litres) |
| Hazardous Solid     | 0.24 tonnes<br>(240 kg)       | 0.12 tonnes<br>(120 kg)       | 0.18 tonnes<br>(182 kg)       |
| Non-Hazardous Waste | 0.79 tonnes<br>(787kg)        | 2.29 tonnes<br>(2,292 kg)     | 2.13 tonnes<br>(2,128 kg)     |
| Total Waste         | 38.78 tonnes                  | 33.89 tonnes                  | 34.27 tonnes                  |
| Recycling Rate      | 98.4%                         | 98.5%                         | 98.8%                         |

2013/14 Our recycling increased and we removed more items from landfill.  
2012/13 New Indigo Press & Building One & Solar Panels.  
2011/12 New B2 Press & Building Two: first complete reporting year.

### 5. Water

This is an estimated usage of water. 306.16 Gallons / 1.391 m<sup>3</sup> per day x 246 working days per year. Our water is on a shared meter with Manor Farm. Most of our water usage comes from sanitary provisions in our office, barn and new building. All water is discharged to a public sewer. Our water usage is minimal.

### 6. Environmental Complaints

There have been no environmental complaints.



## Core Indicators

|  | A<br>Total<br>annual input<br>/ impact | B<br>Persons | R<br>Ratio of<br>A to B |
|--|--|--------------|-------------------------|
| <b>Energy Efficiency</b>                                     |  |              |                         |
| <b>Electricity-100% Green renewable from external source</b> | 53.577 Mwh                             | 11 staff     | 4.87                    |
| <b>Energy Efficiency</b>                                     |  |              |                         |
| <b>Electricity-Renewable from internal PV Panels</b>         | 13.267 Mwh                             | 11 staff     | 1.21                    |
| <b>Energy Efficiency</b>                                     |  |              |                         |
| <b>Fuel (Heating Oil)</b>                                    | 36.122 Mwh                             | 11 staff     | 3.28                    |
| <b>Material Efficiency</b>                                   |  |              |                         |
| <b>(Paper purchased)</b>                                     | 71.465 tonnes                          | 11 staff     | 6.50                    |
| <b>Water</b>   | 342 m <sup>3</sup>                     | 11 staff     | 31.09                   |
| <b>Waste</b>   |  |              |                         |
| <b>General</b>   | 32.91 tonnes                           | 11 staff     | 2.99                    |
| <b>Hazardous</b>   | 1.36 tonnes                            |              | 0.12                    |
| <b>Biodiversity all sites</b>                                | 338.4 m <sup>2</sup>                   | 11 staff     | 30.76                   |
| <b>Manor Farm, Poynings</b>                                  |  |              |                         |
| <b>Emissions</b>   |  |              |                         |
| <b>Annual GHG</b>  | 58.0 tonnes                            | 11 staff     | 5.27                    |
| <b>Annual Gaseous</b>  | 1.78 tonnes                            |              | 0.16                    |

## Annual (GHG) Greenhouse Gases 2013/14

| CO <sub>2</sub>                              | Tonnes  | Conversion<br>GWP @ 100<br>years | Tonnes |
|--|---------|----------------------------------|--------|
| <b>CO<sub>2</sub> – Carbon Dioxide</b>       | 57.4    | 1                                | 57.4   |
| <b>CH<sub>4</sub> – Methane</b>              | 0.0113  | 25                               | 0.223  |
| <b>N<sub>2</sub>O – Nitrous Oxide</b>        | 0.00121 | 298                              | 0.387  |
| <b>HFC – Hydrofluorocarbons</b>              | 0       | 14,800                           | 0      |
| <b>PFC – Perfluorocarbons</b>                | 0       | 1,430                            | 0      |
| <b>SF<sub>6</sub> – Sulphur Hexafluoride</b> | 0       | 22,800                           | 0      |
| <b>Annual Gaseous</b>                        |         |                                  |        |
| <b>SO<sub>2</sub> – Sulphur Dioxide</b>      |         |                                  | 1.78   |
| <b>NO<sub>x</sub> – Oxides of Nitrogen</b>   |         |                                  | 0      |
| <b>PM – Particulate Matter</b>               |         |                                  | 0      |

John Early  
For and on behalf of NQA.  
Verifier Ref. UK-V-0012  
Signed:

20 November 2015

Paul Hewitt  
Owner / Managing Director  
at Generation Press.  
Signed:

20 November 2015

## GP's Feedback & Contact

### Address:

Generation Press  
Manor Farm Business Centre  
Poynings  
Brighton  
East Sussex  
BN45 7AG

### Contact:

[zoe@generationpress.co.uk](mailto:zoe@generationpress.co.uk)  
[paul@generationpress.co.uk](mailto:paul@generationpress.co.uk)

Contact Paul Hewitt (A.K.A. Scrub) if you fancy an impassioned rant about absolutely anything Generation Press, print, colour – or bikes. Yes really, bikes or bikes and bike components, or bikes and bike clothing, or just bikes.

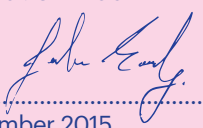
For a non-green sandals, nuts and bolts rant about anything green, politics, ideas, films, or even a moan about the weather, you can contact our Sustainability Manager (A.K.A. Eco Warrior), Zoë Hazelden, if you have any questions at all. Anything. Really. Our phone number is 01273 857449; or use the emails above.

The Environmental Statement is an annual reporting process.

### Environmental verifier

### EMAS declaration

This is our second environmental Statement and it has been verified as a true record of the environmental performance of Generation Press Ltd.  
A new Statement will be produced by November 2016.

John Early  
For and on behalf of NQA.  
Verifier Ref. UK-V-0012  
Signed: 

20 November 2015



## Print Specification

### Cover

Stock: Colorset Indigo, 270 gsm

Print: One Colour, Digital White

### End Sheet

Stock: Colorset Light Grey, 120 gsm

### Inner Pages

Stock: Carona Offset, 120 gsm

Print: Lithography CMYK + PMS GP Indigo™

### Inner Section

Stock: Colorset Pink Ice, 120 gsm

Print: Lithography, CMYK + PMS GP Indigo™

### End Sheet

Stock: Colorset Light Grey, 120 gsm

Print: Lithography, One Colour PMS GP Indigo™



Generation Press

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