

(Th)ink

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





EMAS Environmental Statement 2017

John Early

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

Signed:

.....
20 November 2017

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

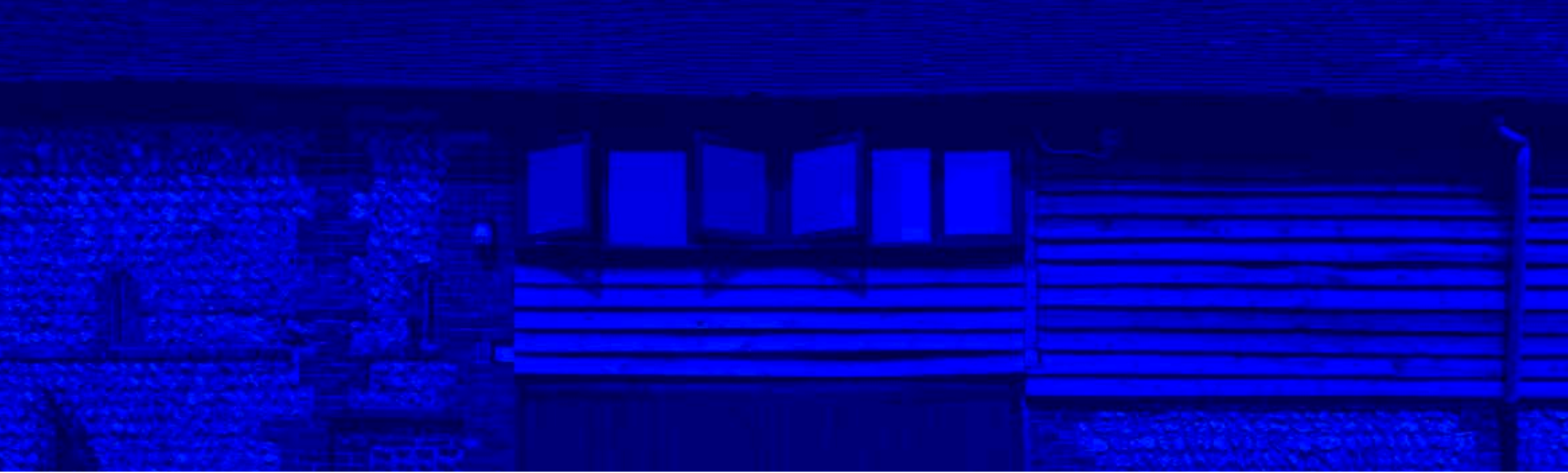
NACE Code 22.2



We Are Generation Press

No intelligent species would ever destroy its
own environment.

A clever person



Managing Director's Introduction

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

Welcome to our fifth EMAS
Environmental Statement.

It's that time of year again. And now we're in our fifth year of audits you could call us old hands, but every year it's as fresh as the first, with aims and targets to meet. So let's get to it.

We've had another great year here at Generation Press. We've continued to collaborate with some of the best brands and design agencies around, spreading our mission of print optimism, and developing the craft that goes into making every printed item we produce. Experimenting, learning, improving quality and striving for the best – of course, it goes without saying this includes the environmental side of our business.

We've increased our production while simultaneously reducing our ink and paper purchasing and our energy use. We've increased our recycling and reduced our waste and CO₂ emissions. At last! This is the first year that our 100% Green Tariff and solar panels have been included in our carbon counting assessments – hurray (carbon) credit where credit is due.

This year we've upgraded to the ISO14001: 2015 accreditation, this has introduced new areas for us such as ensuring we look at the context of the organisation and a product's full life cycle, amongst many other developments. We've now planted 3,477 trees. We've installed our first phase of LED lighting. LED lights are a far better sustainable option: less wattage, more energy-efficient and longer lasting than conventional bulbs.

Then, in November 2016, we welcomed some new members to the team here Generation Press. Our first hive of bees

arrived! With mixed success, we went from one to two hives, after collecting a swarm from a local garden. They all had a productive spring but a slightly less successful summer. We lost a queen but gained a new one (or two). Hence the worker bees were kept busy keeping the queen(s) happy rather than making much honey. We did get a small harvest of Poynings Honey (naming of the honey TBC). My father-in-law, a life-long beekeeper, has assured me that we have two very healthy colonies that should yield a better harvest next year. One year on, one year wiser, and experience is everything. So watch this space.

We may do all these things in the background, but our ethical sourcing and environmental activities are fundamental to how we operate. They run equally alongside the quality of printing we strive for. One informs the other. So it's always exhilarating when we get recognised publicly for the work we do.

Towards the end of last year, we were honoured to be winners at the British Book Design & Production Awards for our collaboration on Bunker Research – The Hidden History of Modernism in the Mountains. A beautiful book set in the Cote d'Azur with inspiring words by Max Leonard and stunning photography by Camille McMillan.

All this from a seemingly small, family-run business, and I'm left wondering what the term would be for a colony of very productive ethical printer bees...?

Paul Hewitt

Owner / Managing Director
at Generation Press.

Signed:

.....
20 November 2017



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 a diverse range of 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 private functions right through to giant corporate events. We bring brands to life with beautifully designed, tactile communications with which people can really engage.

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-runs. Personalised. On-demand. Improving for quality & range. Invested in HP Indigo press. 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 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

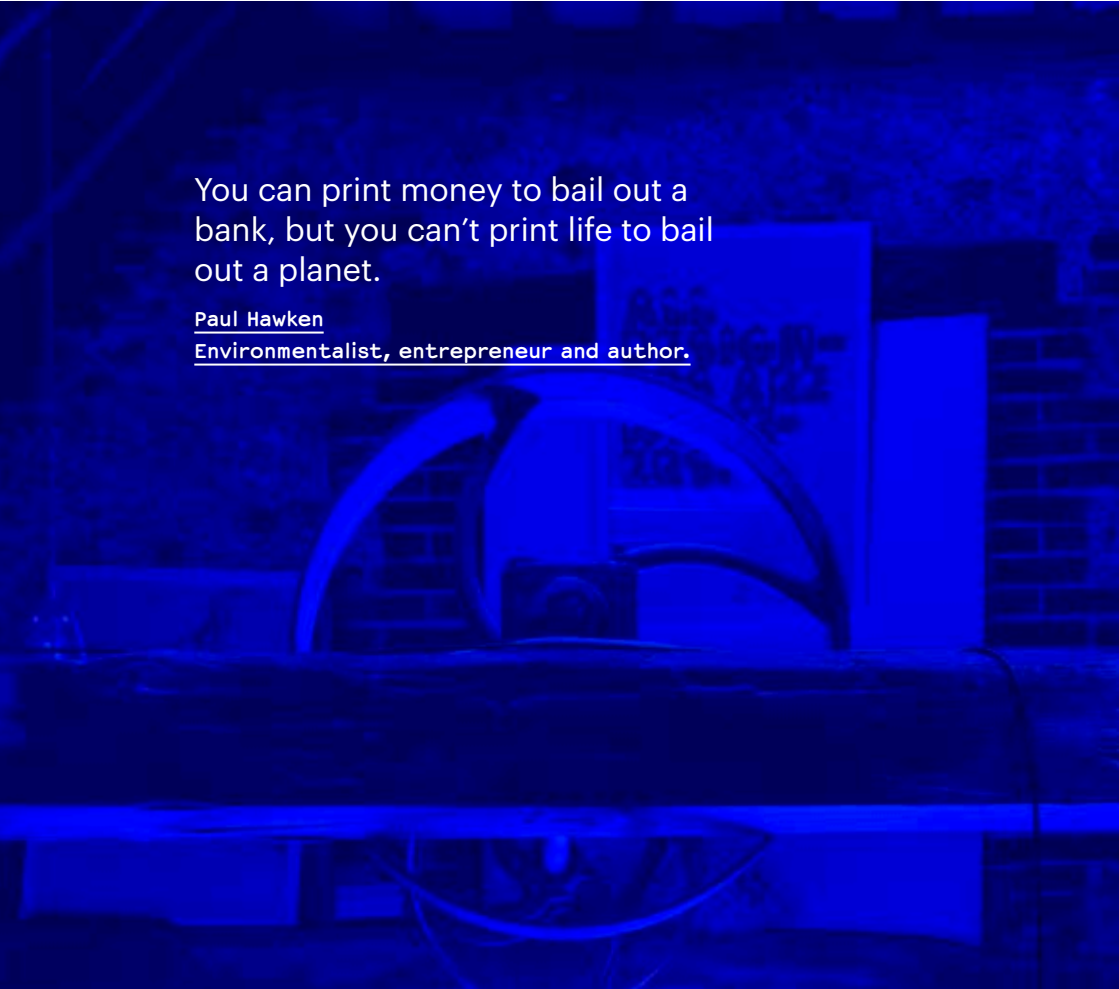
Old school. In our blood. Our first & second generations were letterpress compositors. Revived with love. Original craftsmen aimed to 'kiss' ink onto paper with no sign of indent. Now it's seen as part of the charm. Nice with opulent metallics. Bold fluorescents. Rich primary colours. Old + new.

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.



You can print money to bail out a bank, but you can't print life to bail out a planet.

Paul Hawken

Environmentalist, entrepreneur and author.

John Early

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

Signed:



.....
20 November 2017



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 to make 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. It's part policy statement, part road map, part checklist, and 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 ISO14001:2015

This year, we have upgraded to the 2015 standard. As the universally recognised environmental management standard, this is 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 off-setting 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 also 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

Better for the planet, and 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 less ink

Due to our EMAS audits, we have been keeping stringent records of our consumption since 2012. Since our first EMAS Statement in 2013, we have seen an overall 31.4% increase in production, a 12.6% decrease in ink purchased, and a 12.4% decrease in paper purchased, which has resulted in a 50.3% increase in production of sheets printed per kilo of ink since 2013.

We use solar power

Our solar panels 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 the last year, our solar panels have accounted for as much as 46.9% of our electricity in Building 2.

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. We recycle 98.8% of our waste, and just 1.2% goes to landfill. We make our business card boxes 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 biodegradable, 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.





We reduce waste

We have a commitment to environmental protection, and continual improvement, prevention of pollution, protection of biodiversity and eco-systems, water and air quality, all reinforced through EMAS and ISO14001:2015. 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 have a Buy A Bike Scheme, which is open to any employee to purchase a bicycle via the company and pay off monthly. We actively encourage cycling to work with on average four employees regularly doing so.

John Early

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

Signed:

.....
20 November 2017

We use trains

We insist that all journeys to and from London are by train. We recommend eco-taxis whenever buses or the underground are not viable.

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 3,477 trees at The Crossing, a community tree-planting project on the outskirts of Forest Row on the East/West Sussex border, Woodah Farm, on the very edge of Dartmoor in Devon, Leswidden Forest in Cornwall, and Sparks Wood in Kent.

Nuts and bolts

We continually improve our EMS to enhance our environmental performance. 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 that we meet and fulfil compliance obligations, covering 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.

Signed:

.....
20 November 2017

No company can be environmentally friendly, but what we can do is clean up our own mess. We can be environmentally responsible.

Anita Roddick

Activist, entrepreneur and author.

(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 parts in meeting environmental performance targets.

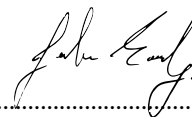
Zoë Hazelden, Sustainability Manager, is responsible for developing and running the environmental management and internal audit systems, and producing an annual management review of environmental performance.

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

John Early

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

Signed:



.....
20 November 2017

Paul Hewitt

Owner / Managing Director
at Generation Press.

Signed:



.....
20 November 2017

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 is also 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 'Compliance Obligations Register' (D 02).

It's not easy being green.
[Kermit The Frog](#)

Results/1&2 2015-16 GP's Environmental Objectives, Targets & Programmes

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

Objective 01.
Reduce ink consumption by 1% per sheet.

Target 01:
Reduce ink consumption per sheet by 1% compared to production.

Result 01:
Increased by 1.7%.

Summary of result:
Sadly, we saw an increase in ink consumption per sheet of 1.7% compared to production. However we did see 18.1% decrease in overall ink purchased.

Objective 02.
Divert more than 98% from landfill.

Target 02:
Continue to divert a minimum of 98% from landfill including liquid waste and solid combined.

Result 02:
Diverted 98.8%.

Summary of result:
We diverted 98.8% from landfill, which is a massive 25% increase in one year.

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

Objective 01.
Reduce energy consumption by 1%.

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

Result 01:
Increased by 5.5%.

Summary of result:
This target was not achieved. We saw a decrease of 12% last year of energy consumption, but this year we saw an increase of 5.5% in electricity against production/impressions. However, since 2013 when we began our EMAS audits (5 years), we have seen an 18.1% decrease in electricity consumption, a 12.6% decrease in the purchase of ink, a 12.4% decrease in paper purchase, alongside a whopping 31.4% increase in production. This includes expanding from one building with two presses to two buildings with four presses.

Objective 02.
Eventually replace all lighting at Generation Press with LED lighting.

Target 02:
Change Building 1 lighting to LED lighting as budgets permit.

Result 02:
We have installed LED lighting and sensors in the toilet and kitchen of Building 2.

Summary of result:
We aim to change all lighting in Building 1 as and when budgets become available. We aim to implement this in phases.

Results/3&4 2015-16 GP's Environmental Objectives, Targets & Programmes

3. Carbon Dioxide Emissions (Direct & Indirect) – Reduce our CO₂

Objective 01.
Reduce carbon dioxide emissions.

Target 01:
Reduce carbon dioxide emissions by 1%.

Result 01:
Reduced by 43.1%.

Summary of result:
The amazing news is that this is the first year that our 100% Green Tariff and solar panels have been included in our carbon counting assessments. So, instead of accumulating 60 tCO₂e and a reduction of 5.2%, we are now 36 tCO₂e, which means an enormous 43.1% reduction in our tCO₂e!

Objective 02.
Maintain the purchase of UK trees.

Target 02:
Purchase over 700 trees.

Result 02:
Planted 778 trees.

Summary of result:
We continued to plant over 778 trees in the UK and saved 20,228 of tCO₂e!

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

Objective 01.
Remove polystyrene from landfill.

Target 01:
Find a local recycling system for our polystyrene. Due to not being successful with HP.

Result 01:
So far, we have been unable to source a collection to come out to our location.

Summary of result:
We have researched locally and among our existing waste collectors who do not collect polystyrene. We have discovered it can be incinerated for energy (lowest level recycling). However, we are struggling to find a contractor locally to come to our location for this one waste stream. We are now exploring how we might opt to go for zero to landfill.

2016–2017 GP's Significant direct and indirect aspects & impacts

GP's Significant Direct and Indirect Aspects & Impacts

1. & 2. Solid Waste Generation & Liquid Waste Generation (Direct)

Using our waste management system, we currently recycle 98.8% of all our waste. Which includes recycling or re-using almost all items from the production of print: paper, card, cardboard, mill dyed paper, wax wrappings, polythene, waste ink, ink tins, plate developer, plastics, off-cut foils, aluminium plates, copper, magnesium and brass. Since August 2012, we also recycle our blanket rollers, duct foils and rubber printing blankets. All our printing rags are collected, washed and re-used by a professional, certified company.

In our studio/office we collect and recycle our ink cartridges, batteries, mobile phones (£30 for every mobile phone will be donated to the charity Mind Brighton), DVDs, CDs and all WEEE (Waste Electrical and Electronic Equipment). We use environmental cleaning services and recycle the Dry Mixed Recycling from our offices and kitchens.

Waste ink, metal ink tins and plate Chemicals are disposed of as hazardous waste in accordance with Hazardous Waste Regulations. General waste from all sites is disposed of in accordance with the Environmental Protection (Duty-of-Care) Regulations, and any waste IT is disposed of in line with The Waste Electrical and Electronic Equipment (WEEE) Regulations.

Potential Impact:

The recycling, re-use and safe disposal of waste creates CO₂ 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'.

cont'd...
2016–2017
GP's
Significant
direct and
indirect
aspects &
impacts

Significant Aspect 3.
Energy Consumption
(Electricity) (Direct)

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

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.

Monthly meter readings are taken and we are able to confirm that, this year 46.9% 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.

4. Carbon Dioxide Emissions
(Direct & Indirect)

The Generation Press Carbon Neutral results for this year is 36 tCO₂e, and for each employee it is 3.27 tCO₂e (last year 5.41 tCO₂e). Our tCO₂e has decreased from 63.3 tCO₂e to 36 tCO₂e which is 43.1% decrease.

The tCO₂e for our premises was down by 69%, which is an amazing achievement due to 'green' energy finally being accounted for.

Potential Impact:
CO₂ emissions relating to the overall operation of the company including business travel, power consumption, recycling, waste management and logistics.



GP's Environmental Objectives Targets & Programmes

These are our long-term goals
and fundamental beliefs:

- Quality print forever.
- Reduce energy consumption.
- Reduce CO₂ 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 2016/17

1. Solid Waste Generation (Direct) – Waste Reduction

Objective 01.

Zero to landfill by November 2020, leading to 100% recycling by EMAS 2021.

Target 01:

Research how we could start to become zero to landfill by November 2019.

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

Objective 01.

Reduce ink consumption per sheet.

Target 01:

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

Objective 02.

Divert more than 98% from landfill.

Target 02:

Continue to divert a minimum of 98% from landfill including liquid waste and solid combined.

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

Objective 01.

Reduce energy consumption.

Target 01:

Reduce electricity by 1% against production/impressions.

Objective 02.

Eventually replace all lighting at Generation Press with LED lighting.

Target 02:

Target 02. Replace toilet and kitchen in building 1 with LED and sensors.

4. Carbon Dioxide Emissions (Direct & Indirect) – Reduce our CO₂

Objective 01.

Reduce carbon dioxide emissions.

Target 01:

Reduce carbon emissions by 1% against production.

Objective 02.

Maintain the purchase of UK trees.

Target 02:

Continue to plant a minimum of 700 trees and record amount of CO₂ being saved.

Objective 03.

Nurture our new bees.

Target 03:

Make honey.



Summary Data On Performance

GP's Key Environmental Performance

1. Paper Usage (significant aspect 4)

Environmental data	2013/14	2014/15	2015/16
1. Paper			
Purchased (tonnes)	71.465	92.303	94.40
Sheets printed (B2&B3)	3,159,147	4,597,575	3,080,789
Sheets printed (Foiling)	745,904	753,979	761,898
Sheets printed (Indigo)	1,109,345	1,371,159	1,571,329
Total Sheets	5,014,396	6,722,713	5,414,016
Ink Purchased (kilos)			
Ink Purchased (kilos)	1,499	1,920	1,573
Sheets Printed per kilo of ink	3,345	3,501	3,442
2. CO₂ Emissions (tCO₂e)			
2. CO ₂ Emissions (tCO ₂ e)	58	63.3	36
3. Energy Usage			
Electricity-100% Green renewable from external source(kWh)	53,577	55,078	57,025
Electricity-Renewable from internal PV Panels (kwh)	13,267	14,030	15,286
Fuel (Litres)	3,090	3,849	3,651
Degree days (15.5 degrees)			
Degree days (15.5 degrees)	1,488	1,842	1,397
4. Waste Product (tonnes)			
4. Waste Product (tonnes)	34.27	30.79	33.90
5. Water (m3)			
5. Water (m3)	342.18	342.18	342.18
6. Environmental Complaints			
6. Environmental Complaints	0	0	0

31.4% Increase in production since 2013 (EMAS I)

50.3% Increase in efficiency sheets printed per kilo of ink since 2013 (EMAS I)

12.6% Decrease in ink purchased since 2013 (EMAS I)

2. CO₂ Emissions GHG (significant aspect 3)

CO ₂ Emissions GHG	2013/14	2014/15	2015/16
Electricity & transmission (tCO ₂ e)	28.8	27.6	0
Fuel Oil (tCO ₂ e)	9.87	9.75	9.25
Landfill Waste (tCO ₂ e)	0.18	0.22	0.19
Premises Total (tCO₂e)	38.9	37.6	11.6
Business Travel (tCO₂e)	5.21	5.3	4.97
Transport (tCO₂e)	8.69	20.49	19.40
Total (tCO₂e)	58	63.3	36
Staff	11	11	11
Key Performance Indicators (KPI)	5.27	5.76	3.27
tCO₂e = per full time equivalent employees			

This is the first year that our 100% Green Tarif and solar panels are recognised as different from brown/dirty energy. We now have our electricity at zero for producing carbon emissions, which is reflected in the figures below:

45.2% Decrease in CO₂ Emissions since 2013 (EMAS I)

75.4% Decrease in Premises CO₂ Emissions since 2013 (EMAS I)

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

Energy Usage	2013/14	2014/15	2015/16
Electricity-100% Green renewable from external source MWh	53.6 MWh	55.1 MWh	57 MWh
Electricity-Renewable from internal PV Panels	13.27 Mwh	14.03 Mwh	15.29 Mwh
18.1% Decrease in energy use since 2013 (EMAS I)(inlc.doubling our presses & buildings)			

4. Waste (significant aspect 1)

This is a breakdown of our waste and recycling.

Waste	2013/14	2014/15	2015/16
DMR Recycling	3.16 tonnes (3,159 kg)	3.73 tonnes (3,733 kg)	3.30 tonnes (3,302 kg)
General Printed Waste	18.64 tonnes (18,640 kg)	15.68 tonnes (15,675 kg)	18.03 tonnes (18,026 kg)
Mill Dyed Paper	6.75 tonnes (6,750 kg)	5.63 tonnes (5,625 kg)	6.75 tonnes (6,750)
Wax Wrappers	0.46 tonnes (460 kg)	0.88 tonnes (875 kg)	0.88 tonnes (875 kg)
Cardboard	1.29 tonnes (1,290 kg)	1.3 tonnes (1,300 kg)	1.56 tonnes (1,560 kg)
Polywrap	0.08 tonnes (76 kg)	0.2 tonnes (200 kg)	0.10 tonnes (100 kg)

Waste	2013/14	2014/15	2015/16
General Landfill	0.40 tonnes (396 kg)	0.47 tonnes (468 kg)	0.41 tonnes (414 kg)
Hazardous Liquid	1.18 tonnes (1,184) (litres)	0.69 tonnes (686) (litres)	0.76 tonnes (755) (litres)
Hazardous Solid	0.18 tonnes (182 kg)	0.2 tonnes (203 kg)	0.38 tonnes (383 kg)
Non-Hazardous Waste	2.13 tonnes (2,128 kg)	2.02 tonnes (2,024 kg)	1.74 tonnes (1,741 kg)
Total Waste	34.3 tonnes	30.8 tonnes	33.9 tonnes
Recycling Rate	98.8%	98.5%	98.8%

12.5% Decrease in all waste since 2013 (EMAS I)
97% (and above) consistent recycling rate for 5 years since 2013 (EMAS I)
This year, we recycled 98.8%, which is a 25% increase since last year alone

This is an estimated usage of water. 306.16 Gallons / 1.391 m³ 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	B	C	R	R
	Total	Persons	Production	Ratio	Ratio
	annual input	annual	(Sheets	of	of
	/ impact	input /	printed	A to B	A to C
		impact	per kilo		
			of ink)		
Energy Efficiency					
Electricity-100% Green renewable from external source	57.025 Mwh	11 staff	3,442	5.18	0.0166
Energy Efficiency					
Electricity-Renewable from internal PV Panels	15.290 Mwh	11 staff	3,442	1.39	0.0044
Energy Efficiency					
Fuel (Heating Oil)	38.092 Mwh (3651L)	11 staff	3,442	3.46	0.0111
Material Efficiency (Paper purchased)	94.423 tonnes	11 staff	3,442	8.58	0.0274
Water	342 m ³	11 staff	3,442	31.09	0.0994
Waste					
General	32.76	11 staff	3,442	2.98	0.0095
Hazardous	1.14 tonnes			0.10	0.0003
Biodiversity all sites at Manor Farm, Poynings	338.4 m ²	11 staff	3,442	30.76	0.0983
Emissions					
Annual GHG	36.0 tonnes	11 staff	3,442	3.27	0.0105
Annual Gaseous	0.90 tonnes			0.08	0.0003

Column C - Production (sheets printed per kilo of ink) is an additional core indicator introduced this year. It represents production as well as staff. Accounting for staff, which remains the same, or changes very little, does not fully represent GP's improvements.

Annual (GHG) Greenhouse Gases 2015/16

CO ₂	Tonnes	Conversion GWP @ 100 years	Tonnes
CO₂ - Carbon Dioxide	35.4	1	35.4
CH₄ - Methane	0.0107	25	0.223
N₂O - Nitrous Oxide	0.00149	298	0.241
HFC - Hydrofluorocarbons	0	14,800	0
PFC - Perfluorocarbons	0	1,430	0
SF₆ - Sulphur Hexafluoride	0	22,800	0
Annual Gaseous			
SO₂ - Sulphur Dioxide			0.90
NO_x - Oxides of Nitrogen			0
PM - Particulate Matter			0

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


.....
20 November 2017

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


.....
20 November 2017

GP's Feedback & Contact

Address:

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

Contact:

zoe@generationpress.co.uk
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.

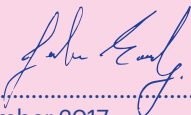
The Environmental Statement is an annual reporting process.

Environmental verifier

EMAS declaration

This is our fifth Environmental Statement and it has been verified as a true record of the environmental performance of Generation Press Ltd.
A new Environmental Statement will be produced by November 2018.

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



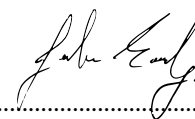
.....
20 November 2017



John Early

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

Signed:



.....
20 November 2017

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

+44 (0)1273 857 449

info@generationpress.co.uk

generationpress.co.uk