

# (Th)ink

Environmental Statement for Generation Press.



GP's sixth environmental statement and footprint report. Our Environmental Management System (EMS) is designed to meet the requirements of the ECO\_management and Audit Scheme (EMAS). For now, our EMAS registration is officially suspended until the UK navigates Brexit.

# **Generation Press Environmental Statement 2018**

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

NACE Code 1812





# We Are Generation Press

The future will be green or not at all.  
Bob Brown, Australian Politician





Paul Hewitt

Owner / Managing Director  
at Generation Press.

Signed:

.....  
20 November 2018

### A word from the boss MD

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

For five years running, our environmental performance has been assessed and accredited by the EU Eco-Management and Audit Scheme (EMAS) – the most credible and robust environmental management system in Europe.

This would have been our 6th EMAS Environmental Statement. Sadly, due to the dreaded B-word (Brexit), we can no longer be audited by the scheme, and we are currently unable to find a premium non-European auditing body.

Undeterred, we've decided to go it alone. We remain committed to examining every aspect of our business to the same stringent standards. Until we find an equally rigorous alternative scheme, we shall carry on regardless.

It's good environmental practice and makes us better printers.

At Generation Press, we continue 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 to be better, which of course, includes the environmental side of our business.

We were honoured to win Environmental/ Sustainability Company of the Year 2018 at the Digital Printer Awards; shortlisted for Book Printer of the Year 2018 at the Print Week Awards; highly commended at the British Book Design and Production Awards for our Exhibition Catalogues 2018, and, yes there is more, we were awarded a D&AD Wood Pencil for our collaboration with Arjo Wiggins, Build and Nick Asbury on the Paper Wraps Stone brand identity project.

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 aim for. One informs the other. So it's always exhilarating when we get recognised publicly for the work we do.

We continued to increase our production while simultaneously reducing our ink, and paper purchasing, and our energy use. We've also increased our recycling and reduced our waste and CO2 emissions.

We've now planted 4,949 trees, equivalent to planting 1.5 trees per day since 2011. Most recently returning to woods in West Sussex!

We're also reviewing how we can share our lovely little eco icons and spread the message far and wide.

Our bees have been busy too producing 30 jars of Poynings Honey, surpassing our Christmas 2018 target of 6 jars. Now officially called Devil's Honey.

There's still much more to do. So, before we look to future in pursuit of higher quality, more innovation, and an alternative eco-management and audit scheme (unless we stay in Europe ;-), we felt it was a good time to reflect over our 6-year journey of improved continual efficiency figures.

We believe our achievements are pretty impressive and don't mind saying so. It's all down to the team here who deserve a good blow on the Generation Press trumpet. This one is for them.





# 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, 5 years we were 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 of quality 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 miniscule 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 work with outstanding clients, which puts us in a 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.

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, fashion books, corporate and personal stationery to charity annual reports and accounts, art catalogues and distinctive invitations for private functions and giant corporate events. We bring brands to life with beautifully designed, tactile communications with which people

## 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.



Christmas 2017  
6 jars of honey, and  
by Christmas 2018  
60 jars!

GP's bee's





# Green Paper

Environmental Policy





Sub-Saharan Africa  
Improved Water Infrastructure

Image provided by  
Natural Capital Partners

Generation Press has been carbon neutral since 2008. That means compensating 604 tCO<sub>2</sub>e – the equivalent of taking 181 cars off the road for a year.

### 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. We know sustainable print equals beautiful print. To make more from less is possible. For us, improving quality and reducing costs and our impact on the planet go hand-in-hand. Using renewable energy, fewer inks, and offering paper from responsibly managed forests will never compromise the standard of our work. And being carbon neutral means exactly that, in short, we are print progressives, or print optimists, if you like.

This Green Paper (our Environmental Policy and Eco Programme), which is updated every year, sets out our targets. It's a 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

For five years running, our environmental performance has been assessed and accredited by the EU Eco-Management and Audit Scheme (EMAS).

In spite of Brexit excluding us from being audited by EMAS, we will continue examining every aspect of our business to the same stringent standards. Until we find an equally rigorous alternative scheme, we shall carry on regardless and conduct our own environmental audit.

### We are ISO14001:2015

We have upgraded to the 2015 standard. As the most recognised environmental management standard in the world, this is a big deal in itself. We are also about to trial a new remote auditing system, meaning an auditor only has to visit us every three years saving travel miles.

### We are carbon neutral

We have been for many years. A zero carbon footprint is a good target because it focuses attention and makes us gather the data. As part of our offsetting programme, we support the Sub-Saharan Africa Improved Water Infrastructure.

Nearly a billion people worldwide do not have access to safe drinking water. This Gold Standard project provides many small rural communities, based primarily in Uganda and Malawi, access to clean drinking water. In Uganda alone, ten rehabilitated boreholes serve 5,700 people, preventing 10 cases of diarrhoea and six fatalities each year.



#### We offer sustainable paper

We always recommend clients choose certified papers from well-managed forests. The criteria for these papers are to conserve biological diversity and ancient woodlands, protect indigenous groups, and combat climate change. One day, we hope sustainable paper sources will be mandatory throughout the print industry. Ask us more about paper options.

#### We use vegetable inks

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

#### We use less paper and less ink

Since beginning our EMAS audits in 2012, we've been keeping strict records of our consumption. We have seen a 48.7% increase in production, a 33.2% decrease in ink purchased, and a 10% decrease in paper purchased. This has resulted in an overall 121% increase in production of sheets printed per kilo of ink since publishing our first EMAS Statement in 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 on which way your sun shines. In the last year, our solar panels have accounted for as much as 52.8% of our electricity in building 2.

#### We use renewable energy

Aside from our 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've long been EMAS-certified. We're on the 100% Green Energy tariff, which means everything we produce at Generation Press is powered entirely by the wind and the sun.

#### We reuse and recycle

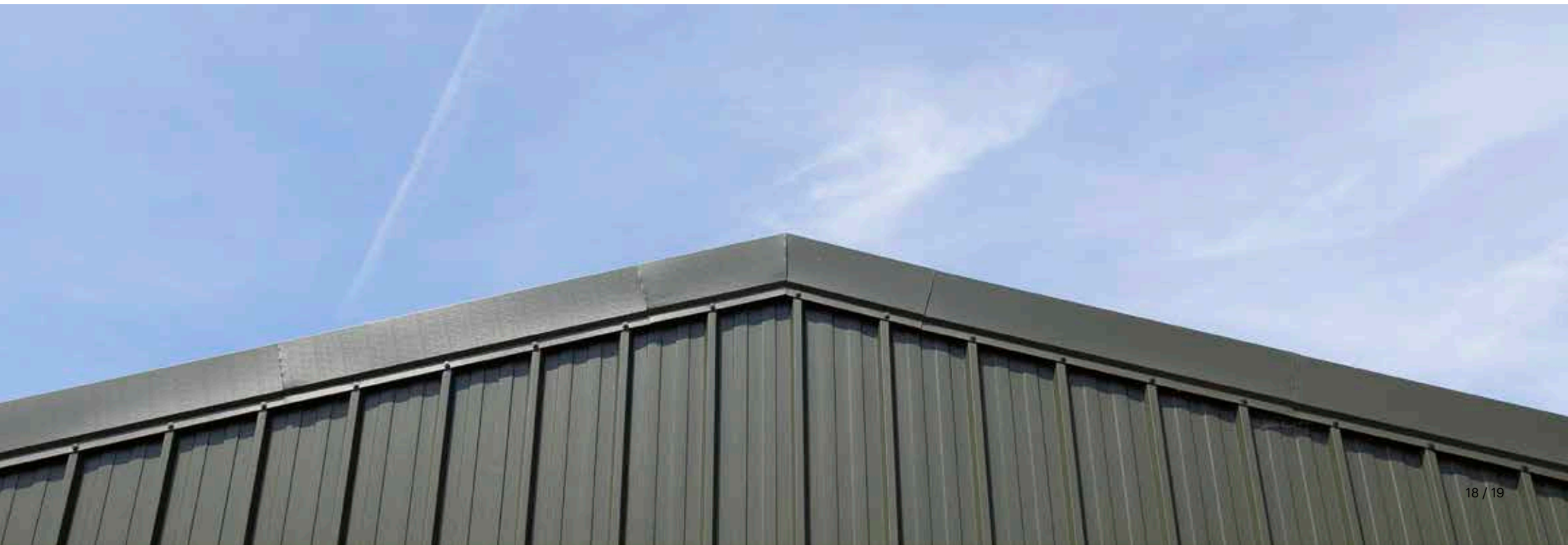
We reuse and recycle all materials wherever possible. We recycle 98.8% of our waste, and just 1.2% goes to landfill. We make our business card boxes from 100% recycled card. All off-cuts and 'overs' become gorgeous notebooks. We donate our foils to a local Community Recycling

Scheme, and all our printing rags are collected, washed, and reused 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

Technological advancements enable us to 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 our previous EMAS standards and ISO14001: 2015. Where we cannot reuse 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 do a bit more

Our Buy A Bike Scheme, which is open to any employee to purchase a bicycle via the company and pay off monthly, encourages cycling to work with on average four employees regularly doing so. We also insist that all journeys to and from London are by train and we recommend eco-taxis whenever buses or the underground are not viable.

We drink ethical tea and coffee with fair trade, organic sugar and a drop of our amazing, locally produced, high-welfare milk.

#### 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 4,949 trees at The Crossing, a community tree-planting project on the outskirts of Forest Row on the East/West Sussex border. This year we planted trees at the Woodah Farm, on the very edge of Dartmoor in Devon, Leswidden Forest in Cornwall, and Sparks Wood in Kent, and most recently Knepp Wildland in West Sussex.

We've been planting trees for seven years now, which equates to approximately 51 trees a month, or one and a half trees per day. We save on average 5kg of CO2 per tree per year. For 4,949 trees, that's 24.74 tonnes of carbon per year. This saving is in addition to our Carbon Neutral assessment offsetting.

#### Nuts and bolts

We continually improve our Environmental Management System (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 have kept 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.



Climate change is no longer some far-off problem; it's happening here, and it's happening now.

Barack Obama

Former President of the United States of America

# (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.





# Legal Requirements

## Legal Requirements

Compliance makes all the difference. That is why our experience with EMAS has been so important.

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).

Every drop in the ocean counts.  
[Oko Ono, Artist](#)

# Results/1&2 2016-17 GP's Environmental Objectives, Targets & Programmes

## 1. Solid Waste Generation (Direct)

### Objective 01

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

### Target 01

Begin the process of becoming zero to landfill in November 2019.

### Result 01

We are revisiting our research on how we can work towards zero to landfill. Our location is a constraint. We are not prepared for a vehicle to travel miles to collect a small amount of recycling (1.2% of our waste). So it has to be local. Therefore, we remove as much from landfill as possible, such as returning used coffee bags. We have finally managed to find a local recycling solution for polystyrene, a member of staff drops it off on their way home – a journey they were taking anyway.

We are also trying to source a solution for our possible compostable items such as food, teabags, and coffee.

## 2. Liquid Waste Generation (Direct)

### Objective 02

Reduce ink consumption per sheet.

### Target 02

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

### Result 02

47.3% reduction. We have seen a 12% production increase, with a 23.6% increase in ink purchases, and a 2.75% increase in paper purchasing – all good stuff.

### Objective 03

Remove waste from landfill.

### Target 03

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

### Result 03

We have achieved our recycling rate for another year continuing to divert 98.8% from landfill, including liquid waste and solid combined.



# Results/3&4 2016-17 GP's Environmental Objectives, Targets & Programmes

## 3. Energy Consumption (Direct)

### Objective 04

Reduce energy consumption.

### Target 04

Reduce electricity by 1% against production/impressions.

### Result 04

2.4% reduction . Despite a 12% increase in production, we achieved a 4.9% reduction in total electricity.

### Objective 05

Eventually replace all lighting at Generation Press with LED lighting.

### Target 05

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

### Result 05

We have replaced more lighting in the office in building 1 with LED instead of the toilet/kitchen.

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

### Objective 06

Reduce carbon dioxide emissions.

### Target 06

Reduce carbon emissions by 1% against production.

### Result 06

12% reduction in our overall carbon emissions against a 12% increase in production! 79.3% DECREASE in our total premises CO2 since 2013, with a 13% improvement this year alone.

### Objective 07

Maintain the purchase of UK trees.

### Target 07

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

### Result 07

This year we planted 888, saving 23,088 of CO2 – not included in our Carbon Neutral audit, making a total of 4,949 trees planted in the UK since 2011.

### Objective 07

Nurture our new bees.

### Target 07

Make honey.

### Result 07

We managed to make six jars of yummy honey, and we now have two hives. So, watch this space.





# 2017–2018 GP's Significant direct and indirect aspects & impacts

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

Since 2013 - EMAS I:  
48.7% increase in production  
33.2% less ink purchased  
10% less paper purchased  
28.9% less IPA purchased

The efficiency of sheets printed per kilo of ink has increased by 121% from 2,290 sheets to 5,071 sheets.

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

Using our waste management system, we currently recycle 98.8% of our waste. This includes recycling or reusing almost all items from the production of print: paper, card, cardboard, milldyed paper, wax wrappings, polythene, waste ink, ink tins, plated 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 reused by a professional, certified company.

In our studio/office, we collect and recycle our ink cartridges, batteries, 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 CO<sub>2</sub> emissions. But, if you do reuse 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. Transporting waste produces emissions. All waste must be treated with a 'Duty-of-Care'.

Since 2013 - EMAS I:  
Maintained above a 98% recycling rate  
12.5% decrease in all waste  
25% increase in recycling





# cont'd... 2017-2018 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 52.8% of our electricity in building 2 was solar-powered. All solar energy 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.

Since 2013 - EMAS I:  
69,589 kwh - 54,253 kwh  
22% DECREASE in electricity

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

The Generation Press Carbon Neutral results for this year is 36.4 tCO<sub>2</sub>e, and for each employee it is 2.8 tCO<sub>2</sub>e (last year 3.27 tCO<sub>2</sub>e). Our tCO<sub>2</sub>e has increased from 36 tCO<sub>2</sub>e to 36.4 tCO<sub>2</sub>e which is a 1% increase.

Total tCO<sub>2</sub>e Since 2013 - EMAS I:  
65.7 to 36.4 tCO<sub>2</sub>e  
44.6% reduction

However, the tCO<sub>2</sub>e for our premises was down by 13% in the last year alone.

Premises tCO<sub>2</sub>e Since 2013 - EMAS I:  
47.2 to 10.1 tCO<sub>2</sub>e  
78.6% reduction

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.

GP's UK Tree initiative  
tCO<sub>2</sub>e Since 2013 - EMAS I:  
4,949 trees since 2011  
24.74 tCO<sub>2</sub>e saved in addition to our carbon offsetting





### 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 2018/19

## 1. Solid Waste Generation

### Objective 01

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

### Target 01

Remove from landfill: Source (1) local recycling for polystyrene (2) Food waste composting solution.

### Objective 02

School paper project donation.

### Target 02

Unused paper stock, cut to A4 & A3 and donate to local schools.

## 2. Liquid Waste Generation

### Objective 03

Reduce ink consumption per sheet.

### Target 03

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

### Objective 04

Divert more than 98% from landfill.

### Target 04

Continue to divert a minimum of 98% from landfill including liquid waste and solid combined, with the aim to being closer to 99% by removing more landfill items.

## 3. Energy Consumption

### Objective 05

Reduce energy consumption.

### Target 05

Reduce electricity by 1% within premises scope.

### Objective 06

Eventually replace all lighting at Generation Press with LED lighting.

### Objective 06

Replace toilet and kitchen in building 1 with LED lighting and sensors due to office being done in its place last year.

## 4. Carbon Dioxide Emissions

### Objective 07

Continued reduction in carbon dioxide emissions.

### Target 07

Reduce carbon emissions by 1% within premises scope.

### Objective 08

Maintain the purchase of UK trees.

### Target 08

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

### Objective 09

Nurture our bees.

### Objective 09

Make honey for Christmas 2018 – more than six jars of honey.





# Summary Data On Performance



## GP's Key Environmental Performance over 6 years

### 1. Paper Usage

Environmental data	2013	2018
<b>1. Paper</b>		
Purchased (tonnes)	107,817	97,022
Sheets printed (B2&B3)	3,472,775	4,248,933
Sheets printed (Foiling)	647,443	604,680
Sheets printed (Indigo)	-	1,237,098
Total Sheets	4,120,218	6,090,711
<b>Ink Purchased (kilos)</b>	1,799	1,201
<b>Sheets Printed per kilo of ink</b>	2,290	5,071
<b>2. CO<sub>2</sub> Emissions (tCO<sub>2</sub>e)</b>	65.7	36.4
<b>3. Energy Usage</b>		
Electricity - 100% Green renewable from external source(kWh)	69,589	54,253
Electricity - Renewable from internal PV Panels (kWh)	0	16,006
Fuel (Litres)	3,550	3,150
<b>Degree days (15.5 degrees)</b>	-	1,514
<b>4. Waste Product (tonnes)</b>	38.73	36.73
<b>5. Water (m3)</b>	342.18	339.3
<b>6. Environmental Complaints</b>	0	0

47.8% increase in production since 2013 (EMAS I)  
 10% decrease in paper purchased since 2013 (EMAS I)  
 33.2% decrease in ink purchased since 2013 (EMAS I)  
 121% increase in efficiency sheets printed per kilo of ink since 2013 (EMAS I)

## 2. CO<sub>2</sub> Emissions GHG

CO <sub>2</sub> Emissions GHG	2013	2018
Electricity & transmission (tCO <sub>2</sub> e)	33.6	1.78
Fuel Oil (tCO <sub>2</sub> e)	10.7	7.98
Landfill Waste (tCO <sub>2</sub> e)	0.28	0.21
Premises Total (tCO <sub>2</sub> e)	47.2	10.1
Business Travel (tCO <sub>2</sub> e)	7.21	5.2
Transport (tCO <sub>2</sub> e)	11.28	21.07
Total (tCO <sub>2</sub> e)	65.7	36.4
Staff	11	13
Key Performance Indicators (KPI) tCO <sub>2</sub> e = per full time equivalent employees	5.97	2.8

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

44.6% decrease in total CO<sub>2</sub> emissions since 2013 (EMAS I)  
 78.6% decrease in premises CO<sub>2</sub> emissions since 2013 (EMAS I)



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

Energy Usage	2013	2018
Electricity – 100% Green renewable from external source MWh	69.6 MWh	54.3 Mwh
Electricity – Renewable from internal PV Panels	0 Mwh	16.0 Mwh

22% Decrease in energy use since 2013 (EMAS I)  
(inlc.doubling our premises)

### 4. Waste (significant aspect 1)

This is a breakdown of our waste and recycling.

Waste	2013	2018
DMR Recycling	7.32 tonnes (7,323 kg)	3.6 tonnes (3,589 kg)
General Printed Waste	23.37 tonnes (23,369 kg)	20.02 tonnes (020,020 kg)
Mill Dyed Paper	5.24 tonnes (5,242kg)	6.76 tonnes (6,760 kg)
Wax Wrappers	0.22 tonnes (220 kg)	1.3 tonnes (1,300 kg)
Cardboard	0.11 tonnes (112 kg)	2.08 tonnes (2080 kg)
Polywrap	0.06 tonnes (58 kg)	0.18 tonnes (182 kg)

Waste	2013	2018
General Landfill	0.62 tonnes (624 kg)	0.45 tonnes (450 kg)
Hazardous Liquid	0.81 tonnes (1,650 Litres)	0.64 tonnes (640) (litres)
Hazardous Solid	0.24 tonnes (240 kg)	0.31 tonnes (305 kg)
Non-Hazardous Waste	0.79 tonnes (787kg)	1.4 tonnes (1,397 kg)
Total Waste	38.78 tonnes	36.73 tonnes
Recycling Rate	98.4%	98.8%

25% increase in recycling since 2013 (EMAS I)  
12.5% decrease in all waste since 2013 (EMAS I)  
98% (and above) consistent recycling rate for 6 years since 2013 (EMAS I)  
This year, we recycled 98.8%.

This is an estimated usage of water. 339.3 Gallons / 100 Gallons per day, per person (x13) x 261 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 Total annual input / impact	B Production (Sheets printed per kilo of ink)	R Ratio of A to B
Energy Efficiency			
Electricity-100% Green renewable from external source	54,253 kwh	5,071	10.7
Energy Efficiency			
Electricity-Renewable from internal PV Panels	16,006 kwh	5,071	3.16
Energy Efficiency			
Fuel (Heating Oil)	32,874 Kwh (3150L)	5,071	6.48
Material Efficiency			
(Paper purchased)	97000 kg (97 tonnes)	5,071	0.19
Water	339 m <sup>3</sup>	5,071	0.07
Waste General	35780 kg (35.78 tonnes)	5,071	7.06
Waste Hazardous	1000 kg (1 tonne)		0.20
Biodiversity all sites at Manor Farm, Poynings	338.4 m <sup>2</sup>	5,071	0.67
Emissions			
Annual GHG	36000 kg (36 tonnes)	5,071	7.01
Annual Gaseous	900 kg (0.90 tonnes)		0.177

## Annual (GHG) Greenhouse Gases 2018

CO <sub>2</sub>	Tonnes	Conversion GWP @ 100 years	Tonnes
CO <sub>2</sub> – Carbon Dioxide	35.7	1	35.7
CH <sub>4</sub> – Methane	0.0107	25	0.238
N <sub>2</sub> O – Nitrous Oxide	0.00149	298	0.255
HFC – Hydrofluorocarbons	0	14,800	0
PFC – Perfluorocarbons	0	1,430	0
SF <sub>6</sub> – Sulphur Hexafluoride	0	22,800	0
Annual Gaseous			
SO <sub>2</sub> – Sulphur Dioxide			0.78
NO <sub>x</sub> – Oxides of Nitrogen			0
PM – Particulate Matter			0

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



20 November 2018

## GP's Feedback & Contact

### Address:

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### Contact:

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[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, paper, inks, and colour – or bikes. Yes really, bikes, and bike components, and bike clothing, or just bikes.

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

The Environmental Statement is an annual reporting process.

### Environmental declaration

This is our sixth Environmental Statement. It has not been verified. However, it is a true record of the environmental performance of Generation Press Ltd. A new unaudited Environmental Statement will be produced if we do not find an alternative solution before next year. We'll carry on regardless for now...





## 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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