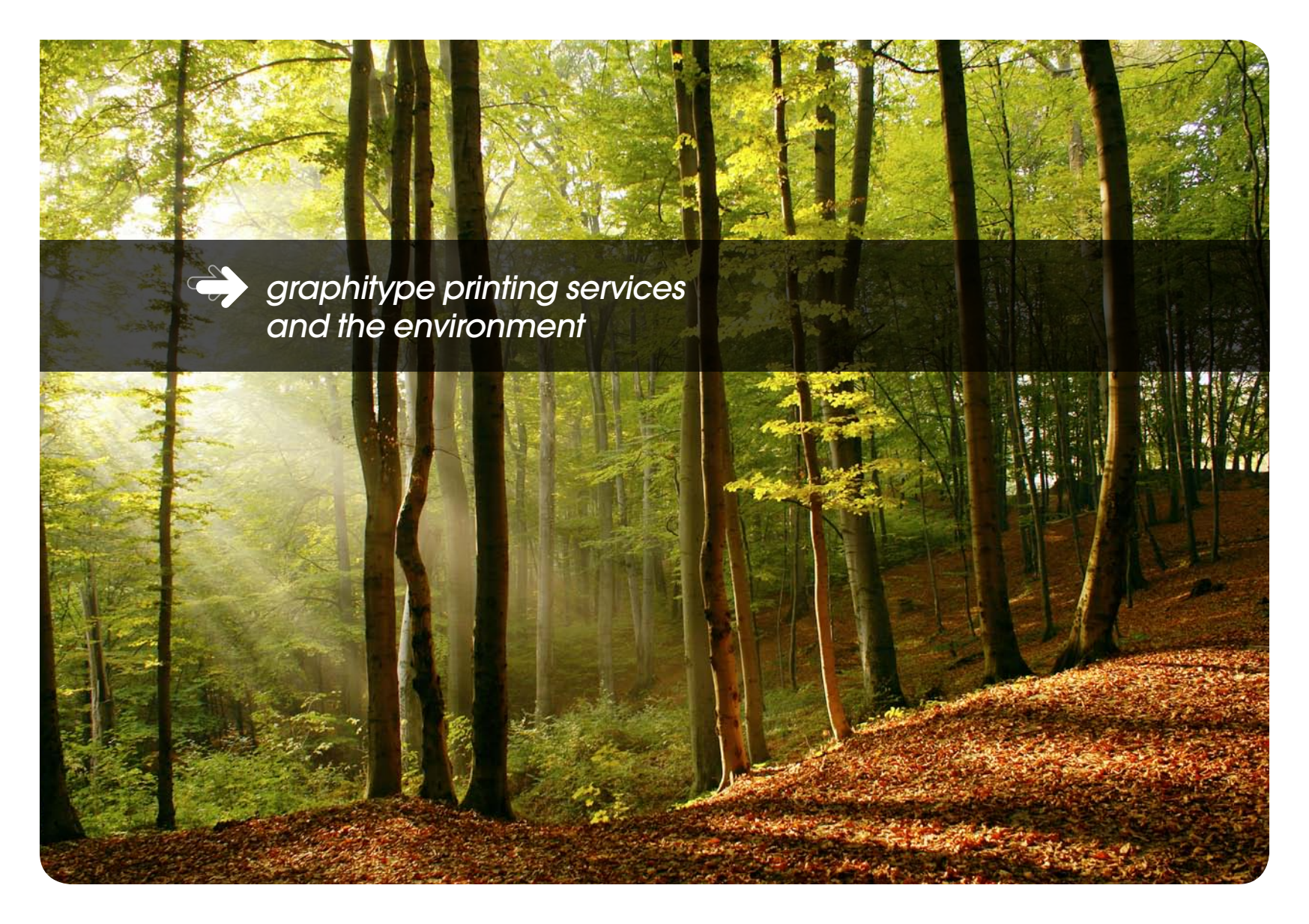





graphitypeprinting
services



 *graphitype printing services
and the environment*



*reduce greenhouse
gasses*

Carbon offsetting and carbon credits



Carbon offsetting is a mechanism that allows organisations and individuals to neutralise their unavoidable climate change impact by purchasing carbon credits.

Each carbon credit represents the sequestration or abatement, (the separation or diminishing) of one tonne of CO₂-equivalent greenhouse gas from the atmosphere.

When companies buy carbon credits, they help fund projects that reduce greenhouse gas generation or sequester carbon. Examples for such projects are energy efficiency programmes (e.g. the installation of energy efficient light bulbs); renewable energy projects (e.g. solar installations and wind farms), or methane abatement (e.g. through waste diversion).

Graphitype Printing Services has now been accredited with the Carbon Reduction Institute, and we are officially certified as a Low CO₂ business, and are heading for certification as a No CO₂ business over the next few years.

We can now offer our clients this option to support our programme, and with the Carbon Neutral Product Logo placed on all your printed material, with your appropriate personal endorsements, this enables you to promote your company's Green Choice credentials with every printed item you distribute.



*actively promoting the
use of recycled paper*



paper



Part of our initiative as members of the Printing Industries Association of Australia (P.I.A.A), which in conjunction with the Department of Environment & Climate Change (NSW), has been working towards actively promoting the use of recycled paper and elemental chlorine free (ECF) pulp products for printing.

GPS recommends recycled and/or recyclable and sustainable papers to our clients where applicable. Our house stock is Raleigh Sumo, and Sumo is the product of modern Asian paper manufacturing capabilities and conforms to strict environmental and energy management practices.

The mill uses ECF pulps exclusively and conforms to the international standard ISO 9002 for quality assurance during the manufacturing process.

The driving ideology behind the responsible manufacture of Sumo is 'Human welfare and environmental protection'.



*renewable resources,
such as orange oil*



chemicals

All waste chemicals are stored in containers, which are then collected once a week by our chemical recycling company. All of these chemicals go through a refining process where useful by-products can be formed and detoxification occurs, for safe disposal.

We use environmentally friendly low volatile organic compounds (VOC's) in our Print Room inks and chemicals. Solvent products are from a renewable resource, such as orange oil.

The blanket and roller washes used are classified as Non Hazardous, with a flash point greater than 67°C, and are not considered dangerous.

We have recently switched to water wash-out of all printing plates thereby eliminating 80% of contaminated chemical waste – estimated to be 3000 – 4,000 litres per year.





*minimising our impact
on the environment*

inks



The investment of \$60,000 in an ink delivery system for our press, enables the use of plastic recyclable cartridges that leave only a small residual of 0.5% waste ink. These inks are supplied by GODO and are vegetable based in origin.

This results in a considerable saving of energy used in the making of the older style conventional metal ink tins and minimises our waste component.

The use of these inks also substantially reduces the need to use (and store) volatile solvents.

GPS has worked in conjunction with Botcher, a print roller manufacturer to reduce the use of isopropyl alcohol in the printing process and to minimise our volatile organic compounds (VOC) emissions.

This partnership has succeeded in reducing our consumption by 75% to date. We have a commitment to ultimately phase out the use of alcohol based fountain solutions and replace them with alcohol-free substitutes – thereby reducing greenhouse emissions, the storage of flammable chemicals and minimise our impact on the environment.



*100% of all our paper
and board gets recycled*





recycling

100% of all paper and board waste is separated and recycled throughout our entire factory.

Our administration staff separate their paper and general waste, to assist with the company's recycling efforts.

All waste paper is collected by a licensed contractor.

Last year we recycled 6.5 tonnes of paper and board per month. This equates to saving approximately 80 trees, 15 barrels of oil, 25,000 kwh of electricity, 25m³ of landfill, and 175,000 litres of water.





*reduce power
consumption*

electricity

We continually monitor our electricity consumption and where possible reduce usage.

The design of the factory, including sky lighting helps to reduce the electricity consumption. Outside working hours, electricity consumption is reduced to a minimum with all workstations and factory equipment shut down, only vital equipment stays on standby i.e. servers.

We have installed triphosphor globes, replacing existing fluorescent tubes throughout selected areas of the factory to reduce power consumption.





*minimise
water usage*



water

GPS strives to minimise water usage through the following initiatives:

- Elimination of water intensive processes
- Water supplies to machinery operate on the minimum setting
- No washing of any hard surfaces
- Regular maintenance of all taps and toilets
- Native vegetation in garden areas





*chemical-free digital
proofs*

plastics

We are committed to reduce our reliance on plastic wrapping and to purchase where possible, recycled plastic wrapping.

The shrink-wrap we use is supplied by Signet, and is degradable and ultimately biodegradable as specified in BS EN 13432:2000.

proofs

All proofs supplied to clients for print authorisation are chemical-free digital proofs.





*purchase environmentally
friendly products*

staff

GPS staff are encouraged to improve our current recycling efforts and environmental management systems.

Procurement personnel are directed to ensure that they seek and purchase products, which are environmentally friendly and/ or contain recyclable components where available.

plates and spray powder

GPS utilises CTP (Computer to Plate) technology, which eliminates film processing.

100% of all metal plates used are collected and recycled by approved recycling organisations who abide by government legislation in the recycling and return process.

The spray powder used in our pressroom is environmentally friendly and manufactured from vegetable based products.





*reduce our impact
on the environment*

Other Areas Of Consumption

The preceding information consists of the main areas of the GPS environmental initiative, however we ensure smaller areas of consumption are monitored.



packaging

- Recycled cardboard is used for packing.
- In conjunction with our major clients, we have developed and manufactured returnable and re-usable packaging boxes, pallets & shippers. This is another measure used to reduce our impact on the environment.

containers

- We use recycled containers where possible.
- All ink is supplied in plastic ink cartridges which are returned to the supplier for recycling.
- Our suppliers of chemistry recycle their own containers.



*Deliveries are geographically
calculated to reduce emissions*



Transportation

- All company vehicles are serviced and maintained to manufacturer's specifications, with exhaust emissions also checked to keep abreast of the latest "best practice" procedures.
- We use electric forklifts.
- Deliveries are geographically calculated daily to reduce vehicle maintenance and exhaust emissions.



other

- Recycling of redundant IT equipment.
- Recycling of empty fax, photocopier and printer cartridges.
- Storage and reuse of pallets.



*ensuring a sustainable
environment*

In the future

We are in the process of formalising existing environmental practices, and seeking further certifications. These would work in conjunction with our existing accreditation that is required by our Pharmaceutical clients, for QA systems and procedures.

The following is a summary of other GPS positive initiatives:

- We are currently seeking registration for the usage of the FSC (Forest Stewardship Council) label.
- We are now registered with the Carbon Reduction Institute and are actively purchasing carbon credits to offset our CO₂ emissions.
- We have stepped up the recycling of all general waste – including food cartons and drink bottles through our local council.
- GPS will continue to monitor, manage and improve environmental initiatives and procedures and seek to develop industry best practices in all areas of operation within our company.

Graphitype Printing Services is proud to be playing our part in helping to ensure a sustainable environment.





for more information

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