



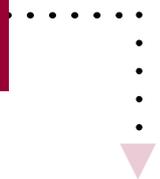
## **Ligare Sustainability Program**

Ligare's position on becoming a more sustainable printing company is based on a simple premise overlaying a complex issue; Ligare Pty Ltd and all its employees are realistically working on all areas of its operations and activities to achieve the best possible sustainable practices environmentally, socially and economically. The complexity arises out of the multitude of areas any manufacturing company faces when assessing all its practices and the supply chain that serves it. Additionally the various views, opinions, compliance with various regulations and of the wealth of information and misinformation in the public domain add to this complexity.

As a touchstone with which to assess information and practices Ligare refers to the Ideal Sustainable Organisation Checklist created by Professor Dexter Dunphy et al in the text *Organizational Change for Corporate Sustainability: A guide for leaders and change agents of the future 2e* (Routledge 2007).

Ligare Pty Ltd accepts responsibility for both human sustainability and environmental sustainability and sees this as supporting the economic sustainability of the company. The checklist includes these actions and values:

- A culture of both flexibility and innovation assists in the delivery of sustainable development
- The renewal and upgrade of human knowledge and skills within the company, the community, the supply chain and all stakeholders is vital
- Promotion of workplace diversity, equal opportunity and work-life balance within the company is mandatory
- Defining corporate ethical positions based on multiple stakeholder perspectives disallows corporate myopia
- People are seen as valuable in their own right
- Active promotion of ecologically sustainable values and practices
- Assisting society to be ecologically sustainable and using our entire range of products and services to this end
- Nature and the environment is valued for its own sake



The definition of sustainability used by Ligare comes from one of the first drivers of change towards corporate sustainability – The Bruntland Commission Report of 1987. The Commission was convened by the United Nations in 1983 to address the accelerating deterioration of both the human environment and natural resources which in turn leads to the deterioration of both economic and social development. The definition states: “Sustainable development meets the economic, social and environmental needs of the present without compromising the ability of future generations to meet their own needs.”

Ligare will always endeavour to engage with and report the truth as we know it, or perceive it to be at the time, given the complexities mentioned above. As new information comes to us, or our practices change, we will report on these in our regular sustainability newsletters. This is a time of unprecedented change full of opportunities and challenges which we embrace with care and consideration of the current and future generations and the future of the planet.

## **The Environmental Program**

Ligare holds certification for both FSC (Forestry Stewardship Council) and PEFC (Programme for the Endorsement of Forest Chain of Custody). We are undertaking the active promotion of the use of sustainable paper through an education program which is delivering information to the industries and clients Ligare serves. This promotion impacts back down the chain of custody to the support of sustainable forestry practices and paper production.

At the end of this section are the areas of printing manufacturing that have been addressed at this time; continual improvement in all areas of manufacturing towards environmental sustainability and the reduction of GHG (Greenhouse Gas) emissions has been embraced by the board of directors and the entire staff.

## **Carbon Reduction Program**

Work has begun on auditing Ligare's GHG emissions, reducing our carbon output and being able to offset the residual carbon output for customers as needed. We are partnering with the NSW Department of Environment and Climate Change through the Sustainability Advantage Program to assess all areas of carbon impact and minimize these where possible through resource efficiency. Working with our supply chain partners in the delivery of goods with measured GHG emissions is the next step in this process. There is now an Australian made paper which has been certified as carbon neutral by the Department of Climate Change. Envi paper has been created by Australian Paper Mills which is a key partner of Ligare's supply chain.

It is important to avoid greenwash in this particular program. It is not possible at this time to produce a totally carbon neutral book; however it is possible to both actively reduce the emissions it takes to produce a book and measure the emissions of its production within our plant at Riverwood, Sydney. This is the first goal in Ligare's GHG reduction program. However the need to take into account all GHG emissions including those created by our suppliers of ink, glue, lamination and other components of book production means that a totally carbon neutral book is reliant upon our suppliers actively engaging in a transparent carbon neutral program.

## **Ligare's GHG Reduction and Environmentally Friendly Practices**

As part of the sustainability program Ligare actively practices these carbon emission reduction practices:

- Turning off any electrical lights, computers, machines etc which are not in use
- Recycling all waste paper both from the plant and the office
- Taking reusable factory off cuts to Reverse Garbage, Marrickville for use by community groups in such things as arts and crafts

- Using where possible power saving electrical devices
- Complying with all environmental manufacturing regulations

The following are further practices currently employed in the plant:

- We are now using vegetable-soy inks throughout our sheet fed offset printing department. We are investigating vegetable-soy ink use in the web printing department.
- We have reduced I.P.A. (Alcohol) from 14% down to 5% on our VQ web presses.
- We have managed to run both the Komori and GTO Presses I.P.A. free.
- We have moved from film to CTP (Computer to Plate) technology in prepress for all new work with an investment in a Lüscher plate making machine. This reduces the environmental impact of the chemicals used in old world film technology.
- We recycle paper and metal plates reducing the amount of waste going to land fill.
- We use blanket washes and solvents with less V.O.C. (Volatile Organic Compounds)
- In minimising the amount of harmful chemicals used in book production we minimise the harm to the environment and engage in responsible elimination practices
- We are now sending out used rags to be cleaned then reused, saving on landfill.
- We use water soluble adhesives, which are harmless to the environment.
- Waste hotmelt glue (offcuts from soft cover trimming) is separated from paper for recycling
- Cartons are made from 100% post-consumer waste recycled materials
- Waste plastic (stretchwrap and shrinkwrap film ) is recycled and does not go to landfill whilst we investigate bio degradable plastics
- Our new Océ digital printers are developed to minimize environmental impact with advancements such as low emissions and energy savings, use of monocomponent toner with no solvent and organic photoconductor with no developer and no silicon fuser oil.

## The Corporate Social Responsibility Program

Ligare is committed to ensuring that our business is conducted in all respects according to rigorous ethical, professional and legal standards. Our concern covers the occupational health and safety of all its employees, achieving work-life balance, and creating a fair and diverse workplace where equal opportunity is given to all. We are committed to being a responsible corporate citizen through support of appropriate projects, organisations and charities.

Currently Ligare supports organisations such as Careflight, The Leukaemia Foundation, Rotary and the Lions Club through such activities as sponsoring disadvantaged children in the community. We also support Ligare's employees own activities with community groups and charities.

Our code of ethical conduct also extends to both our customers and our suppliers who we treat equally with respect and transparent words and deeds.

We take a leadership position on sustainable practices and endeavour to influence others to adopt sustainable policies and practices. We encourage those suppliers who operate with corporate social and environmental responsibility.

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For more information about Ligare's Sustainability Program please feel free to both contact Ligare's Sustainability Manager, Karen Morrison, and subscribe to our regular Sustainability Newsletter (which is also available on our website [www.ligare.com.au](http://www.ligare.com.au) ). Our website also contains Ligare's full Corporate Responsibility Policies.

This program undergoes constant review and improvement.

Karen Morrison  
Sustainability Manager