

SURREY
DIGITAL
P R I N T I N G



Number of employees
13

#110-7808 132 Street, Surrey V3W 4N1 | 604-572-8100 | info@surreydigital.com

SURREY DIGITAL ENVIRONMENTAL & RESOURCE SUSTAINABILITY INITIATIVE

Our Environmental and Resource Sustainability Initiative is an important part of our vision and corporate identity, in fact it is written in our vision:

A world where print and design come together to support and enhance the development of our communities.

Supporting and enhancing the development of our communities can take place in many forms, and one of the ways we do this at Surrey Digital Printing is through environmental and resource sustainability.



**2021 Sustainable Business
Recognition Award**



2022 Award Recipient



**2019 Sustainable Business
Recognition Award**

We believe in reusing, repairing, refurbishing and recycling our existing materials and products for as long as possible, extending the life cycle of the products and services we use to contribute to a circular economy. We do this by waste and energy reduction as well as re-using and recycling of our materials on a daily basis. Our initiatives are always evolving as is our industry as we strive for a more sustainable future in our Community.



REDUCE



REUSE



RECYCLE

WASTE REDUCTION is a key part of our initiative. By integrating print-on-demand services and technology we reduce the need for large runs traditionally done by offset printing. By using digital printing in house, we are also able to reduce the amount of make-ready waste (paper, ink, toner etc.) that goes into traditional setup practices. An estimated 80% of run waste from each job is reduced by using digital printing over traditional printing methods.

Further to our waste reduction initiatives we have significantly reduced our material consumption through investing in new technology and equipment. A major upgrade to our workflow is the introduction of our hybrid flatbed UV printer. This has allowed us to greatly reduce the amount of ink & material consumption by approx. 50% over our previous methods. The largest reduction has been the amount of adhesive vinyl rolls used due to the introduction of direct to print technology. We have reduced this by approx. 50,000sqft of vinyl annually. New technology has also reduced the amount of ink consumed. There are no VOC emissions and is a Greenguard Gold Certified product (Konica Minolta)⁵. GREENGUARD Certified products are certified to UL standards for low chemical emissions into indoor air during product usage.

Our waste reduction practices not only save resources but make it more economical to print smaller quantities for our clients over other traditional methods of printing.

ENERGY REDUCTION is minimized by using energy star certified equipment including printers, computers, monitors and other electronics and production equipment. Office lighting has been upgraded by BC Hydro to lower energy output and lighting/equipment are turned off at night and when not in use. Our Hybrid UV printer uses Air-cooled UV LED lamps providing a huge savings on energy consumption. LEDs have a maximum energy consumption of 1 kWh per module, lending to significant power savings (Konica Minolta)⁵.

RE-USING about 75% of packaging from sheet and roll paper allows us to reduce the need for new packaging to be created. What cannot be re-used we recycle. Boxes and left-over tubes are given out to clients free of charge, re-packaged or recycled. Scrap paper is either recycled or turned into other products such as note pads or donated supplies to other local businesses or for internal use.





ALL PAPER-BASED PRODUCTS ARE RECYCLED if cannot be reused. Our paper-based products are FSC, Rainforest Alliance, Sustainable Forestry Initiative or WWF certified. This ensures that paper-based products used in our facility have been properly sourced to maintain sustainability in the production of paper and the future of our rainforests are protected. In conjunction with **Social Print Paper™** we promote and use a paper-based product that is made from the residue waste of sugar cane. This product measurably reduces deforestation, minimizes harmful CO2 emissions and reduces water use for the production of paper (*Social Print Paper*)¹. Sugar Sheet is used in all office printing and is sold to many clients in place of traditional copy paper.

Other consumables are recycled through programs in partnership with our suppliers. **Xerox Green World Alliance Recycle Program** allows us to return our used toner cartridges, used parts and other consumables via their eco-box return system. We are a part of **HP's Planet Partners Program** which recycles consumables including latex ink cartridges, print heads and maintenance supplies (*ask us for more information if required*). **Konica Minolta's Clean Planet Program** partners with Clover Technologies Group, a leading global recyclers of imaging consumables, to process returned consumables in an environmentally safe and responsible manner. Additional production consumables such as batteries and electronics are recycled via local recycling depots.



EQUIPMENT



MATERIALS



OTHER CONSUMABLES

All printers are energy star certified and come equipped with energy saving features to reduce the amount of energy they produce.

Paper-based products are certified by a recognized sustainable resource management organization. The bond paper that we use for all of our construction drawings is FSC certified. Since February of 2016, we have printed over 8 million square feet on this FSC certified paper with little to no waste. Any waste of this product is 100% recyclable.



KONICA MINOLTA



The Konica Minolta toners used are non-toxic and do not generate hazardous waste. Their levels of chemical and dust emissions are carefully controlled and well below regulatory requirements and are all recyclable. Dry toners use no petroleum distillates like other traditional ink technologies to further reduce the environmental impacts of printing (*Xerox Canada*)². Our new C1400 toner is constructed using a higher percentage of recycled resins, bioplastics and other eco materials. A lead-free shaft is also adopted to protect the environment and user. Using less heat saves energy and effectively reduces paper stress.

Because polymerised toner grains are so fine, a smaller amount of toner is needed than with pulverised toner, thus using fewer natural resources. Additionally, Simitri HD polymerised toner requires a lower fusing temperature. Both aspects contribute greatly to reducing the amount of energy used and the related CO2 emissions⁴.

We also use HP latex ink that offers health and environmental advantages over eco-solvent and solvent. See page 10 chart for more information (*HP Canada*)³. Latex ink is water-based, odorless and meets some of the world's most rigorous and comprehensive standards for low chemical emissions. Their **UL ECOLOGO** and **GREENGUARD GOLD** certifications verify they reduce environmental impact (*HP Canada*)³.



WORKFLOW



PRODUCTIVITY

Surrey Digital strives to use the latest technology in our workflow to help reduce energy and resources associated with the printing process. By automating many labour intensive processes in our workflow we reduce the setup and make-ready of each job which saves time and material. Imposition and RIP software allows us to use the maximum print space and size of a sheet. This software can reduce the amount of ink and toner used to further our waste reduction efforts.



SOCIAL RESPONSIBILITY

We recognize our social responsibility as a company to practice a sustainable work environment by consciously making decisions to help reduce the waste we produce. Our internal efforts in the office have been agreed upon by each team member and we have formed a sustainability committee to review our everyday processes to understand how we can improve in all areas. We have switched the way we store and distribute our information by eliminating printing and filing monthly paper statements (*unless requested by the client*) and electronically storing information we previously had been printing for filing purposes. Payroll stubs are emailed instead of printed and all office printing is done on Sugar Sheet, a more environmentally friendly option than traditional copy paper.



PARTNERING

When choosing partners to work with, we qualify them by making sure they share the same values as we do when it comes to the environment and sustainability.



COMMUNITY

We are always willing to help sponsor events in the community. This sponsorship is usually in the way of free printing using our sustainable materials and print methods. Some examples of clients we have done sponsorship work for are: **Surrey International Children's Festival, DiverseCity, Cloverdale Minor Baseball, Kwantlen College, Right to Play, and Surrey Gymnastics Society** - to name a few (see our website for full list).



WE CARE

We care about our employees, our employees care about our clients, and we all care about the communities we live and work in. Everyday we look for ways to reduce, reuse and recycle with the adaptation of new technologies and sustainable materials, everchanging workflows and a want to do better for our Community. Long term environmental sustainability is something we know is required for the growth of our business, but more importantly, it is something we are passionate about for the growth and health of our communities.



Footnotes:

1. "Sugar Sheet Coated/Uncoated." Social Print. Accessed July 26, 2018. <https://www.socialprint.com/products/sugar-sheet/>.
2. "Environment Health and Safety - Xerox." Xerox Professional Digital Printing Systems. April 18, 2018. Accessed July 26, 2018. <https://www.xerox.ca/en-ca/about/environment>.
3. "Environment Health and Safety - Xerox." Xerox Professional Digital Printing Systems. April 18, 2018. Accessed July 26, 2018. <https://www.xerox.ca/en-ca/about/environment>.
4. "Environmental Sustainability". Konica Minolta Business Solutions. Accessed December 13, 2018. <https://www.konicaminolta.eu/en/business-solutions/sustainability/environmental-sustainability/environmental-strategy.html>
5. "HYBRID UV LED WIDE FORMAT INKJET PRINTERS RETHINK INDUSTRIAL PRINTING"
<https://kmb.konicaminolta.us/products/production-industrial-printing/wide-format-printer/accuriowide-200/>

