Canon

DRIVING SUSTAINABILITY IN PRODUCTION INKJET

SUSTAINABILITY AT CANON

At Canon, sustainability is a force that flows through the lifecycle of every product and service, building to a better way of doing business. By improving efficiency, using resources responsibly, and minimising waste, we're reducing our environmental impact, as well as that of our customers.

Driven by our Kyosei philosophy – living and working together for the common good – we centre our sustainability work around three key pillars: **carbon reduction**, **resource efficiency**, and **responsible business**.

That means we are working to lower emissions, continually pushing for circularity, and forging responsible partnerships and initiatives. From beginning to end, again and again, sustainability helps us progress.

OUR COMMITMENT TOWARDS CO_2 EMISSIONS

- We are working toward a 3% average annual improvement in the index of lifecycle CO_2 emissions (per product unit), realising a cumulative improvement of **50% by 2030** compared to 2008.
- We aim to achieve **net-zero CO_2 emissions** for the whole product lifecycle by 2050.

ENERGY EFFICIENCY

- We design products with **low power consumption**.
- We use **energy-saving technologies** when manufacturing our products, reducing carbon emissions.

CIRCULAR ECONOMY APPROACH

- We design products with **longevity** and **recyclability** in mind.
- We **extend the life** of our presses through reuse and on-site refurbishment.
- **Recycling programmes** for consumables and products.

SOCIAL RESPONSIBILITY

- We use **no hazardous solvents**.
- We participate in **community initiatives.**
- We **empower young people** by developing programmes and investing in future generations.
- We are **recognised** by global environmental organisations.

RESOURCE EFFICIENCY

- We design and create products to **minimise** the use of consumables like ink and paper in print production.
- We are reducing the amount of **waste** originating from operations sites.
- Our ink packaging **weighs less** and takes up less space in lorries, warehouses, and shipping containers.

OUR SUSTAINABILITY CERTIFICATION

When reducing our environmental impact, we believe accountability is important. That's why we undergo stringent assessments from independent organisations, ensuring our products and business operations support our wider sustainability vision.

We are proud to have been recognised for our sustainability initiatives at a global and regional level. Here are some of our awards and certifications:

ISO 14001

As of 2025, ISO 14001 consolidated certification covers Canon Inc, as well as Group companies operating in 39 countries and regions (in total, 113 companies/512 operational sites) around the world.

BLUE ANGEL UZ195

The Blue Angel UZ195 certification covers the sustainability of printed output. We are always happy to provide recommendations and the necessary data for customers looking to secure this certification for their prints.

GLOBAL ISO 9001 ACCREDITED QUALITY MANAGEMENT SYSTEM

Canon follows a stringent in-house quality management system, exceeding ISO 9001 standards. This system prioritises "substantial safety" and integrates quality checks throughout product commercialisation. Canon's HQ divisions implement tailored QA systems based on this framework, ensuring compliance with global regulations.

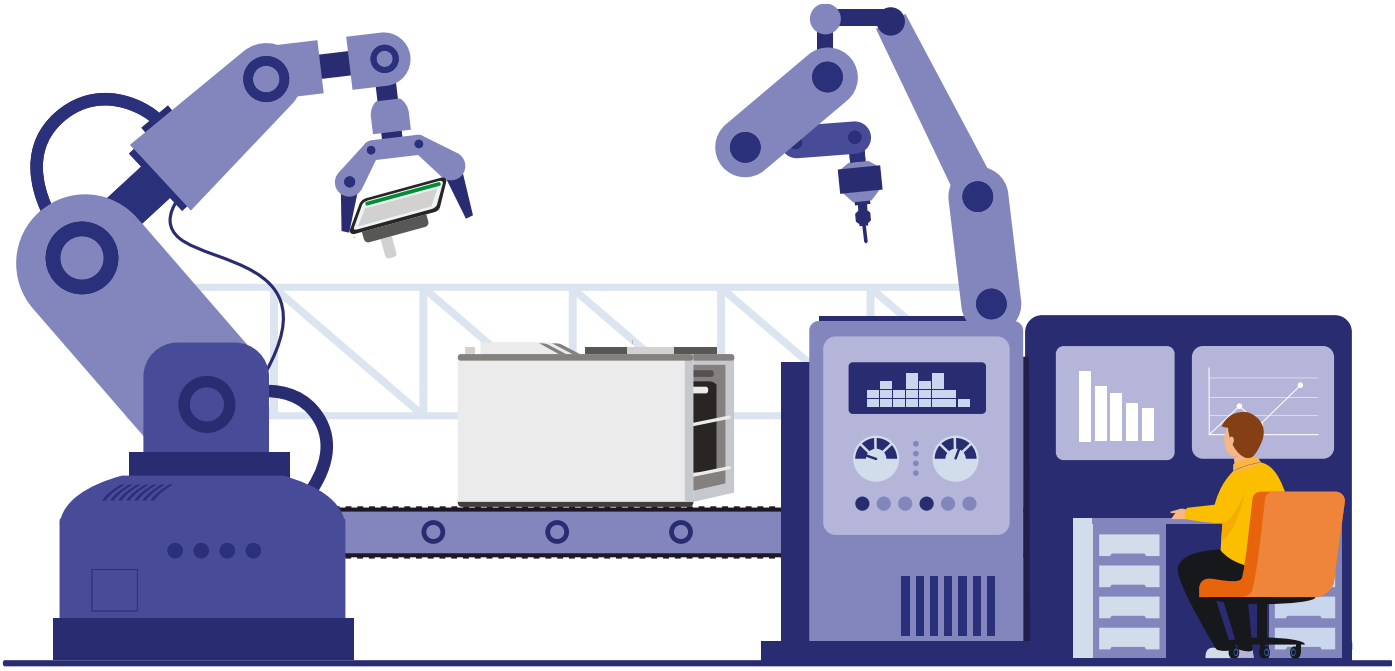
EcoVadis

Canon has been awarded the prestigious EcoVadis Platinum rating for its sustainability efforts. This places Canon in the top 1% of companies assessed globally, with an overall score of 85/100 in the 99th percentile. The EcoVadis recognition and achievement highlight Canon's strong sustainability commitment and action throughout its global business across crucial areas covering environmental, social, and governance criteria.

CDP

For 2024, Canon has been recognised by CDP for its initiatives in the field of climate change and awarded an A- score.

CDP is an international environmental non-profit organisation which evaluates major companies and organisations worldwide on their efforts to tackle environmental issues.



CANON INKJET PRESSES: SUSTAINABILITY OVERVIEW

All our inkjet presses share some key features that help reduce their environmental impact. For example:

- The inks used by inkjet presses are water-based, developed and manufactured following stringent environmental policies in Europe, and free from Substances of Very High Concern (SVHCs), mineral oil, aromatic hydrocarbons (MOAH), and saturated hydrocarbons (MOSH).
- The inks achieve good deinkability, making printed materials easy to recycle.
- All inkjet presses qualify for refurbishment, which is carried out locally to save on transport-related emissions. At least 80% of press parts can be recycled through industry-standard recycling processes.
- The ColorStream, ProStream and varioPRINT iX3200 presses are made in our facilities in Germany and the Netherlands, which are powered by 100% renewable electricity.
- All systems are upgradeable throughout their lifetimes, so they can grow with your needs.
- Our proactive maintenance model ensures uninterrupted productivity and a long system life.

INTRODUCING THE CANON INKJET PRODUCTION PRINTING PORTFOLIO

Discover the technologies that help you reduce your environmental impact using Canon production inkjet presses.

ColorStream

Delivers high production efficiencies and low operational costs across a diverse set of applications. Transform your business with great print quality and outstanding productivity you can count on.

- **Reduced consumables use:** The ColorStream 8000 series saves up to 30% ink compared to previous models. Operator maintenance is highly automated to avoid wasting wipers and liquids.
- **Smart energy optimisation:** The direct drying system adapts the temperature to the paper type, using less energy than infrared or hot air.
- **Seamless integration:** The ColorStream seamlessly integrates into existing environments and ensures uninterrupted productivity with less waste by automatically adapting to changing conditions.

ProStream

Close the gap between toner and offset printing with this high-performance webfed inkjet press.

- **Built for automation**: Automated production reduces wasteful downtime and production line stoppages.
  Inline quality control automatically initiates counter measures during printing, for fewer misprints.
- **High productivity:** The ProStream produces top-quality printouts right away with less ramp up needed. The automatic splice handling minimises paper waste further.
- **Efficient job setup:** Arrange jobs efficiently and optimise impositioning thanks to 556mm print and 558mm paper width and zero gap, saving paper.

varioPRINT iX3200

Combine stunning image quality and a wide media range with the high productivity and attractive cost-efficiency of inkjet.

- **Ink with less environmental impact:** Our proprietary water-based ink has good deinkability for easier recycling of output.
- **Minimised waste:** Fewer manual touchpoints and mixed mono/colour printing reduce errors and waste. Innovative plastic ink bags mean 60% less plastic use per kg of ink vs cartridges.
- **A safer working environment:** 0% ozone emissions and non-hazardous ink eliminates pollution of the immediate environment.

INKJET SUSTAINABILITY WITH THE PRISMA SUITE

A Canon inkjet printer displays its full digital capabilities when combined with our PRISMA solutions.

PRISMA is Canon's distinctive technology brand for production workflow solutions. With PRISMA, we help you automate and simplify your print operations. That includes optimising your workflows to achieve more sustainable and efficient print operations, by minimising waste, enhancing accuracy, and ensuring resources are used effectively.

OPTIMISED USE OF RESOURCES

Improve resource efficiency by fine-tuning colour profiles, optimising layouts, and automating processes to conserve resources without compromising on quality.

REDUCED WASTE

Prevent errors, misprints, and redundant production steps with preflighting, colour validation, simulation, and job batching to minimise material waste.

IMPROVED ENERGY EFFICIENCY

Reduce energy consumption across the production process by streamlining workflows with automation, data analysis, and process optimisation.


Gather detailed production insight
Prepare and optimise print files
Fine-tune colour profiles across various substrates
Set up your print jobs efficiently
Sort and group print jobs automatically
Ensure colour consistency across printed media
Proof digitally and simulate production
Make use of automation capabilities
PRISMA

DIGITAL PRINTING: SUSTAINABLE AT ITS CORE

Compared to traditional offset printing technologies, digital printing can help businesses use resources more efficiently and become more sustainable.

By integrating solutions such as our PRISMA portfolio, print companies can achieve smarter, automated workflows that conserve energy, ink, and media.

Previews and assisted layout functions enable first-time-right printing without wasteful test prints, while Canon production presses produce no ozone.

UNLOCKING SMARTER BUSINESS MODELS

Digital printing can enable innovative business models, such as print on demand and programmatic print. These significantly reduce waste by ensuring print businesses produce the exact quantity ordered by their customers – and not a page more.

SMART PUBLISHING

Applied to the example book, digital printing helps publishers and book producers meet the challenges of shorter print runs and declining page volumes. At the same time, they're developing new types of books and creating a more sustainable value-chain.

PROGRAMMATIC PRINT

Programmatic print opens up countless opportunities for marketers and print service providers (PSPs) to collaborate on multichannel campaigns that combine the advantages of print and digital performance marketing – such as instantly addressing selected consumers with personalised content tailored precisely to their profile.

BENEFITS OF ADOPTING MORE SUSTAINABLE BUSINESS MODELS:

Efficient and resource-saving production of short and medium print runs

- End-to-end automation from order entry to distribution reduces errors and associated reprints.
- Reduction of setup/makeready waste in finishing through digital print and post-processing automation.
- Fewer process steps and less manual tasks.
- Less waste with first-time-right printing.

Fastest turn-around times enable implementation of print on-demand services

Optimisation of print buyers supply chains through demand-orientated production

- Mitigating risk of excess inventories and out-of-print through balancing stock levels with refined and automated print-to-stock services.
- Elimination of physical stock with print-to-order and just-in-time delivery.

Lowering unnecessary promotional mail through data-driven strategies like programmatic print

- Improved targeting of recipients through trigger-driven selection.
- Personalisation and individualisation increases response and conversion rates with fewer messages.
- Seamless automated end-to-end workflows from print buyer to printer to distribution enable resource and cost-efficient print production in shortest turnaround times.
- Maximise marketing ROI through cost efficient use of print in multi- / omni-channel campaigns.

Minimise transport emissions through decentralised print production close to the point of sale/need

SUMMARY OF ENVIRONMENTAL BENEFITS:

- **Reduced waste:** Efficient short/medium runs, automation (reducing errors and reprints), streamlined finishing processes, fewer process steps, and "first-time-right" printing all minimise material waste (paper, ink, etc.).
- **Demand-driven production:** Print-on-demand, just-in-time delivery, and optimised supply chains mean less overproduction and fewer unsold items ending up as waste. This avoids the environmental impact of producing and disposing of unwanted prints/goods.
- **Reduced transportation:** Decentralised printing, closer to the point of need, significantly lowers transportation emissions associated with moving printed materials.
- **Lower inventory footprint:** Eliminating or minimising physical stock reduces the need for warehousing and the associated energy and resources required for storage.

SMART MAINTENANCE

We adopt data-driven service models that use sophisticated data analysis to reduce unscheduled downtime for your Canon inkjet press, optimise service visits, and extend component life.

PROACTIVE MAINTENANCE

Your inkjet press tells us how many prints you've produced since the last service. Our service department plans your next appointment at the best time for your operation to avoid unexpected downtime.

Scheduling maintenance based on actual print volume avoids unnecessary service visits. This reduces service technician travel, minimising greenhouse gas emissions from transport.

PREDICTIVE MAINTENANCE

Data analysis algorithms detect if one of your printer subsystems is showing signs of wear. We can then replace the relevant part at a time that works for you, preventing premature component failures and downtime.

By replacing parts only when truly necessary, we minimise electronic waste and reduce the need for resource-intensive manufacturing of replacement parts. This approach also cuts emissions by streamlining deliveries of spare parts.

REMOTE MAINTENANCE

Remote servicing makes each in-person service visit more effective. Machine data helps our technicians prepare for their appointment with all the right parts and consumables and avoid emissions from a potential second visit.

Remote monitoring and diagnostics minimise the need for on-site servicing in general, significantly reducing travel distances and emissions.

IMPROVEMENTS

Printer service data increases the performance of your Canon inkjet press and helps us improve all generations of our digital presses.

Continuous data analysis and service data collection feeds into our printer design and manufacturing processes, leading to efficient and longer-lasting machines that reduce environmental impacts throughout the product lifecycle.

WHAT OUR CUSTOMERS SAY

DRIVING SUSTAINABILITY IN DOCUMENT PRODUCTION: DATAGRAPHIC UK

Datagraphic, a B Corp certified and carbon-neutral company, prioritises sustainable document automation.

- **Technologies:** ColorStream 8133 and varioPRINT iX3200.
- **Reduced paper waste:** ColorStream minimises paper waste with features like first-page printing, waste-free print pauses, and advanced drying systems.
- **High availability:** Both systems boast over 90% system availability, enabling continuous printing and reducing paper and ink waste.
- **Recyclability:** The output from both products is up to 100% deinkable, ensuring full recyclability.
- **Ozone-free operation:** Both presses produce no ozone, for a safer working environment.

"In a climate where organisations are feeling pressure to operate more cost-effectively, use smarter processes and reduce their environmental impact, our investment demonstrates Datagraphic's forward-thinking approach. The ColorStream 8133 is the second addition to the UK production centre this year, having already introduced the Canon varioPRINT iX3200 in summer 2024."

Sarah Butler
Managing Director at Datagraphic

REDUCE WASTE AND IMPROVE EFFICIENCY WITH INKJET PRINTING: EXAKTA SWEDEN

- **Technologies:** ColorStream 6700 Chroma, ProStream 1000, varioPRINT iX3200
- **Sustainability focus:** Exakta prioritises sustainability through efficient production and a print on demand approach.
- **Reduced waste:** Migrating from offset sheetfed to inkjet web-fed printing significantly reduces waste.
- **Short-run production:** Inkjet technology enables short-run production, eliminating the need for large, wasteful print runs.
- **Streamlined workflows:** Streamlined workflows and reduced turnaround times contribute to a more efficient operation.

"Quality has always been an essential driver for us – we can't afford for it not to be. We knew we needed a more agile digital print solution, but we weren't convinced we would be able to match the quality of offset print. But once we'd seen the Canon ProStream in action, we knew we could have the best of all worlds: flexibility, agility, performance and quality."

Patrick Andersson
Managing Director at Exakta Sweden

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