



Canon

**SUSTAINABILITY
FOR PRODUCTION
CUTSHEET TONER**

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 CO₂ EMISSIONS

- We are working toward a 3% average annual improvement in the index of lifecycle CO₂ emissions (per product unit), realising a cumulative improvement of **50% by 2030** compared to 2008.
- We aim to achieve **net-zero CO₂ 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.



RESOURCE EFFICIENCY

- Products are designed and created using as much **recycled material** as possible.
- We are reducing the amount of **waste** originating from operations sites.
- Reducing the **weight** of our products and streamlining the packaging. We achieved the highest possible score when tested in 2024.



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.



CIRCULAR ECONOMY APPROACH

- We design products with **longevity** and **recyclability** in mind.
- We **reuse parts** from previous models thus reducing waste and resource consumption.
- **Recycling programmes** for consumables and products.
- Canon's Digital Printing business has set targets for a resource recycling rate of **20% for 2025** and **50% for 2030**.

Source: <https://global.canon/en/news/2025/20250117.html>

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:



ISO14001

As of 2023, ISO 14001 consolidated certification covers Canon Inc. as well as 120 Group companies in 40 countries (553 operational sites) and regions around the world.



GLOBAL ISO 9001 ACCREDITED QUALITY MANAGEMENT SYSTEM

Canon adheres to 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 Headquarters divisions implement tailored QA systems based on this framework, ensuring compliance with global regulations.



INGEDE METHOD 11

In accordance with Method 11, INGEDE has assessed the Canon toner presses as ‘good’, the highest possible rating.



EcoVadis

Canon has been recognised with the EcoVadis Gold Rating for its sustainability efforts, which places Canon within the top 5% of companies assessed globally, with an overall score in the 98th percentile.

The EcoVadis recognition and achievement highlights Canon’s strong sustainability commitment and action throughout its global business across crucial areas covering environmental, social and governance criteria.

CANON TONER PRESSES: SUSTAINABILITY OVERVIEW

Our digital toner presses are designed to operate using less power, and waste less toner over their lifecycles.

They share some features that offer sustainability benefits:



Carbon reduction:



LOWER ENERGY CONSUMPTION

Our toner cutsheet presses feature on-demand and lower temperature fixing, which use less energy.



REDUCED TRANSPORTATION

On-demand printing and shorter print runs reduce the need for storage and transportation of printed materials, lowering carbon emissions from print production.

Resource efficiency:



REDUCED WASTE

Digital printing with toner cutsheet presses minimises waste compared to traditional analogue methods. Shorter print runs and on-demand printing reduce overproduction.



PAPER EFFICIENCY

All our Canon toner presses feature precise registration and accurate colour control, helping to minimise paper waste from reprints due to errors.

Responsible business:



REDUCED CHEMICAL USE

Our toner presses use fewer chemicals compared to other print methods, reducing the environmental impact of waste disposal and emissions. Our toner is free of MOAH and MOSH.



EXTENDED EQUIPMENT LIFESPAN

Durable design and readily available parts contribute to a longer lifespan for Canon cutsheet toner presses, reducing the need for frequent replacements.

INTRODUCING THE CANON PRODUCTION CUTSHEET TONER PORTFOLIO

Our cutsheet toner portfolio spans the full range of production print volumes and speeds. Each press has been designed with sustainability in mind from day one, considering the full product lifecycle.

imagePRESS V900 AND V1000

Compact and reliable digital printing presses designed for the requirements of print service providers, both commercial and in-house.

- **Reduced power consumption:** The V900 and V1000 have energy-saving features, including on-demand fixing and double-feed detection in the paper deck, which minimises paper waste and the energy used for reprints.
- **Reduced waste:** Hot swap consumables can be replaced while the press is operational, reducing toner and paper waste.
- **eMaintenance:** Our cloud-based eMaintenance service uses automation to reduce the need for service engineer visits and associated emissions.

imagePRESS V1350

A fast, durable, high-quality, and high-volume digital colour press with innovative technology for high levels of automation.

- **Reduced power consumption:** The integrated POD-SURF unit offers lower power draw than its previous model, while sleep mode reduces energy use further.
- **Reduced emissions from transport:** The press is 11% lighter than the previous model, with a 9% reduction in footprint. That means more space in shipping containers and less fuel burnt by lorries.
- **Contributes to the circular economy:** Designed for maximum durability, the imagePRESS V1350 lasts 267% longer than its predecessor.

varioPRINT 6000 series TITAN

Ultra-reliable, energy efficient and super productive, the varioPRINT 6000 series TITAN helps high-volume print operations deliver quality applications, reduced production time and increased uptime.

- **Energy efficient:** The varioPRINT 6000 series TITAN has approximately 40% lower energy consumption than its closest competitor by market share.
- **Low emissions:** Produces over 90% lower ozone emissions than comparable printers.
- **Low waste:** No waste toner – extra toner is captured and reused.

varioPRINT 140 series QUARTZ

Achieve high-quality performance with sustainable and reliable mono printer designed for production environments.

- **Zero ozone emissions:** The press uses an imaging process with no electrical charging (DirectPress technology), which produces no ozone.
- **Energy efficient:** DirectPress technology uses low fusing temperatures, saving energy. HeatXchange technology reuses energy to warm incoming sheets.
- **Minimised waste:** DirectPress technology also means there's no need for developer, fuser oil, or selenium, while the toner can be used repeatedly.

TONER SUSTAINABILITY WITH THE PRISMA SUITE

PRISMA is Canon's distinctive technology brand for production workflow solutions. PRISMA helps you automate and simplify your print operations, and implement more sustainable print operations by minimising waste, maximising efficiency, enhancing accuracy, and optimising resource utilisation.

▶ **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.





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, toner, 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 production press, optimise service visits, and extend component life.

PROACTIVE MAINTENANCE

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

Scheduling maintenance based on actual print volume avoids unnecessary service visits. This reduces service technician visits, 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 visit 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 visits in general, significantly reducing travel distances and emissions.

IMPROVEMENTS

Printer service data increases the performance of your Canon toner 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.

ENHANCED CONSUMABLES MANAGEMENT (FOR imagePRESS)

Less waste from overstocking or emergency orders. Getting the right amount of toner at the right time is more efficient and reduces the need for storage (and potential spoilage).



WHAT OUR CUSTOMERS SAY

MINIMISING WASTE THROUGH ON-DEMAND, DECENTRALISED BOOK PRINTING: PODIPRINT SPAIN

Technologies: ColorStream 6700 and 6900 Chroma, two varioPRINT iX3200, two varioPRINT 6000 TITAN, PRISMAproduction

- **Print on demand model:** Minimises waste by printing books only after they are sold, eliminating overproduction.
- **Decentralised network:** Reduces transportation distances and associated emissions by using a global and decentralised production network.
- **Optimised print runs:** Aligns production with real-time market demand, further reducing waste.
- **Short runs / single copy printing:** Caters to niche markets and individual readers, minimising the environmental impact of mass production.



Our partnership with Canon has existed for many years and our company has continued to grow during this time. With their expertise in book production, the Canon team not only delivered the right printing solutions at different stages of the Podiprint's growth, but also plays a key role in optimising our workflow to become more automated, faster and efficient."

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