



ENVIRONMENTAL WHITE PAPER

Guidance for imageFORCE and imageRUNNER ADVANCE DX Devices

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1. Canon's Approach to Sustainability



Canon U.S.A. Headquarters in Melville, New York.

Since 1988, Canon has been striving to uphold our corporate philosophy of Kyosei (living and working together for the common good) to contribute to a society in which all people live and work together, respecting one another and coexisting happily. To help contribute to such a society, Canon creates value through the power of technology and innovation, providing amazing products and services while also taking steps to contribute in a positive way to society.

By providing value through our products while looking to see where we can use fewer resources throughout product life cycles, Canon aims to help protect the environment. Through our corporate activities, Canon proactively works toward participating in a sustainable society. In 1993, the Canon Inc. Environmental Charter was created, detailing the environmental vision for the Canon Group.

The goal of this charter is to promote

“maximizing resource efficiency” and to introduce Canon’s concept of “EQCD” (Environment, Quality, Cost, Delivery). Canon has put the E first to show that it places the greatest value on environmentally conscious efforts.



Canon U.S.A. Headquarters Showroom - Sustainability



CANON AMERICAS ENVIRONMENTAL CHARTER



CORPORATE PHILOSOPHY: KYOSEI

Achieve corporate growth and development while contributing to the prosperity of the world and the happiness of humankind through the corporate philosophy of *Kyosei*:
All people, regardless of race, religion, or culture, harmoniously living and working together into the future.

ENVIRONMENTAL ASSURANCE PHILOSOPHY

Pursue maximization of resource efficiency and contribute to the creation of a society that practices sustainable development.

FUNDAMENTAL POLICIES FOR CANON AMERICAS' ENVIRONMENTAL ASSURANCE

Canon Americas seeks to harmonize environmental, economic, and social interests in all business activities, products, and services; offer products with a lower environmental burden through innovative improvements in resource efficiency; and eliminate anti-social activities that threaten the health and safety of humankind and the environment.

1. Operate an environmental management system to continuously improve our environmental assurance and performance in all business activities of Canon Americas.

2. Comply with all applicable environmental laws and regulations across the Americas and other requirements agreed upon with stakeholders, while upholding Canon Group environmental assurance policies.

3. Pursue pollution prevention, energy, and resource conservation and focus on the elimination of hazardous substances in all Canon Americas' activities.

4. Increase the environmental awareness of Canon Americas' employees and encourage environmental protection initiatives on an individual level.

5. Explore methods to minimize the environmental burden of products throughout their life cycle and promote research and development achievements that contribute to environmental assurance.

6. Purchase products with a lower environmental burden.

7. Encourage collection and recycling of our products at the end of their lifetime.

8. Maintain close relationships with governments, communities and other interested parties, provide support and participation in environmental programs and actively disclose information on Canon's environmental performance.

<https://www.usa.canon.com/about-us/kyosei-our-corporate-philosophy/environment-and-sustainability>

President & CEO
Canon Americas Group
November 2022



2. Canon's Initiatives for Enterprise Printers and Multifunction Devices

Businesses face varying degrees of customer awareness regarding ecological issues in print and document management. Here are some examples:

1. Growing customer concern about energy efficiency.
2. Increased focus on proper disposal and recycling of consumable materials.
3. Awareness of the carbon footprint associated with printing practices.
4. Demand for multifunction printer (MFP) manufacturers to prioritize reducing raw material usage.

Consumers around the world are becoming more and more environmentally conscious. Canon offers sustainable efforts in a variety of stages of the product life cycle, such as R&D, Procurement, Production, Logistics, Sales and Marketing, Service Activities, and Recycling.

Canon is enhancing its products and services for both office and home environments, aiming to deliver highly productive and convenient solutions with security features that adapt seamlessly to any work location. The company is also expanding its product line-up and workflow software to promote efficiency, streamline operations, and provide added value for customers.

Environmentally Conscious Design Elements for Office MFPs and Printers

Canon's imageRUNNER ADVANCE DX C3900/4900 Series and the imageFORCE devices use low-temperature toner that offers improved fixing temperatures. Compared to previous models, the power consumption is reduced by up to approximately 15%,¹ achieving the industry's top typical energy consumption (TEC)² value. This toner controls the shape of the toner particles to increase transfer efficiency. There is little generation of residual toner that is collected at the end of printing. The number of sheets that can be printed before replacing the collected toner container is increased by about twice the number of sheets of the previous model. These models also feature environmentally conscious design elements that use certain replaceable parts³ with longer life, intended for less frequent need for replacement.

Additionally, the imageFORCE Series is designed with certain sustainability features in mind, with 20-30% of the resin⁴ material made with recycled plastic material.⁵



imageFORCE C7165 shown with optional accessories.

¹ Comparison to imageRUNNER ADVANCE DX C3800 Series.

² In the United States the typical energy consumption (TEC) is based on MFPs qualifying for the ENERGY STAR® Program. Program (digital color copiers with copy, fax and scan capabilities printing at 25–35 pages/min); data as of February 2025.

³ Replaceable parts are the Intermediate Transfer Belt and Secondary Transfer Outer Roller.

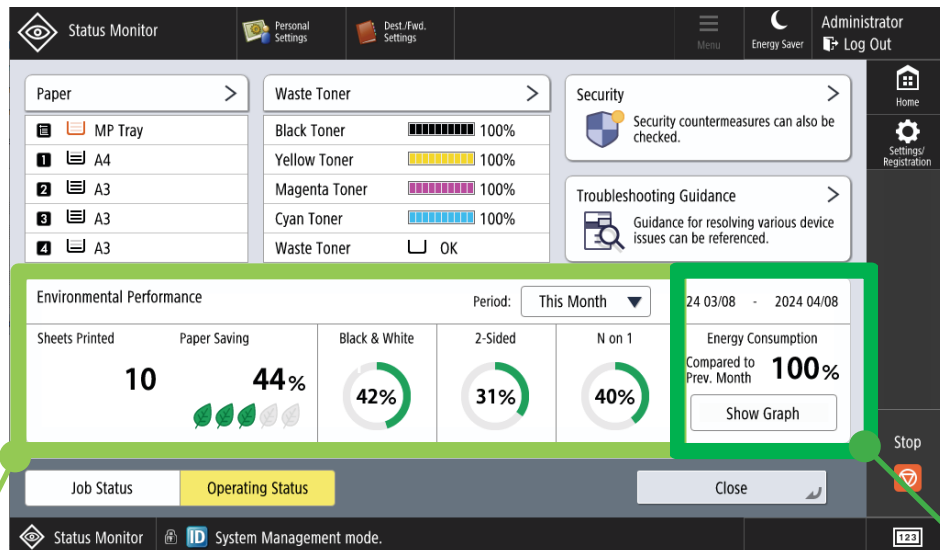
⁴ Resin materials are inclusive of device covers, cassettes, parts of the user interface, and other plastic parts.

⁵ Applies to select imageFORCE models.

Operating Status Monitor

Environmental Performance

The Environmental Performance screen provides access to real-time print status and specific environmental performance factors such as number of sheets printed, amount of paper saved by printing double sided or printing multiple pages on one sheet, and ratio of black-and-white prints from the local user interface. Easy access to these factors can help promote cost and energy saving efforts.



Tracks Paper Usage

- Number of Prints
- Amount of Paper Saved
- Black-and-white Print Ratio
- 2-Sided Print Ratio
- Page Layout Ratio (Multiple Pages Per Sheet – # of pages in 1)

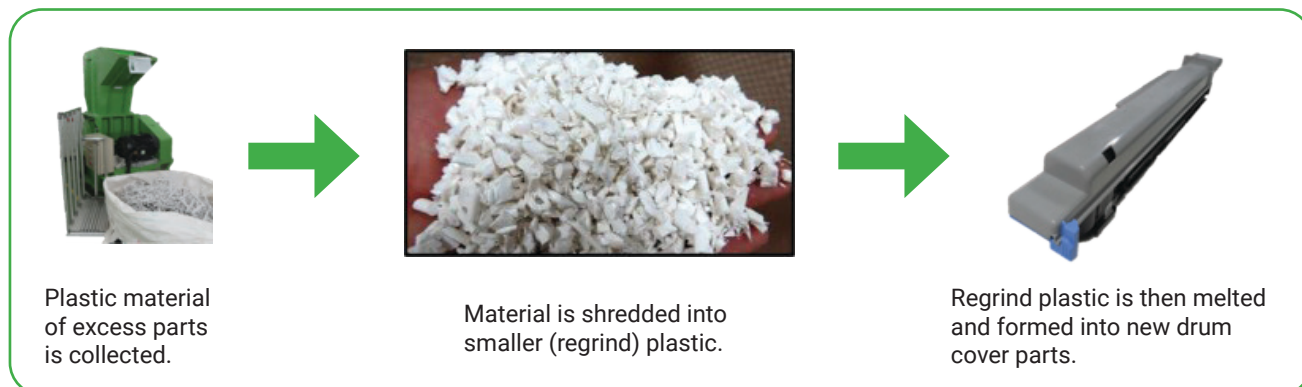
Tracks Energy Consumption

View Energy Consumption to compare to the previous time frame (month to month or week to week).

Note: This feature requires the latest available firmware and applies to select imageFORCE models.

Transforming Previously Discarded Plastics into New Drum Covers

Canon now manufactures drum covers with 100 percent regrind materials (excluding coloring tints) for select imageRUNNER ADVANCE DX models, imageFORCE C7165, imageFORCE 6100 Series, imageFORCE C5100 Series, and imageFORCE C3150. These plastics were previously discarded.



Chemical Substances

Canon thoroughly manages chemical substances in products and those used in the manufacturing processes.

Our basic approach to management involves confirming products do not contain regulated chemical substances that exceed the prescribed standard and production sites do not discharge regulated chemical substances that exceed the prescribed standard.

Canon utilizes the chemSHERPA® System for Information Sharing on Chemical Substances to manage chemical substances appropriately. It is important to share information on the chemical substances contained in materials, parts, and products accurately and efficiently along the supply chain from upstream to downstream, and to ensure compliance with applicable regulations. After adopting the IEC62474* international standard data scheme in 2017, Canon Inc. began utilizing the chemSHERPA data scheme for information sharing, standardized under the initiative of Japan's Ministry of Economy, Trade, and Industry.



Canon Inc. also upgraded its existing chemical substance integrated management system to be compatible with chemSHERPA. As of 2023, more than 99% of survey replies from suppliers have been made through chemSHERPA. This has led to increased workplace efficiency while helping alleviate the administrative burden on suppliers. Some suppliers have also adopted pre-filled survey replies that contain some of the required information. This shift to a more standardized approach contributes further to operational efficiency. Meanwhile, for suppliers who have difficulty with the reply process, guide manuals in Japanese, English, and Chinese have been prepared to promote the progressive global adoption of chemSHERPA.

[Safety Data Sheet](#)

* Material Declaration for Products of and for the Electrotechnical Industry. International standards issued by the IEC (International Electrotechnical Commission) in March 2012 aiming to streamline the material declarations on chemical substances and compositions contained in the products of the electrotechnical industry in the global supply chain.

Efforts to Improve Renewable Energy Usage Rates at Canon Sites

Canon Inc. is committed to transitioning to renewable energy for electricity used at its factory sites. Alongside generating solar power at select locations, Canon actively acquires renewable energy certificates so that the environmental benefits of renewable energy are recognized and utilized. One hundred percent renewable energy is achieved at Canon Suzhou, Canon Vietnam (Thang Long Factory and Tien Son Factory), Canon Hi-Tech Thailand (Ayutthaya Factory), Canon Prachinburi Thailand, and sales marketing companies such as Canon Deutschland and Canon (China).

Calculation and Disclosure of Carbon Footprint (CFP) of MFPs

Canon Inc. utilizes the LCA (Life Cycle Assessment) approach to help estimate the life cycle CO₂ emissions of Canon MFPs. The cycle is divided into five stages (procurement of materials, production, logistics, usage and maintenance, and disposal and recycling). Canon utilizes LCA to calculate GHG emissions for each stage, which are then converted into CO₂ equivalents.

The CFP is a visualization tool, helping to identify emissions-intensive processes to design Canon products that are more energy-efficient. Additionally, this enables customers to select products that offer lower CO₂ emissions. Canon works to disclose relevant information based on the Carbon Footprint of Products and EcoLeaf certification under the Sustainable Management Promotion Organization (SuMPO).

Reference:

Products registered for SuMPO Environmental Labeling Program <https://ecoleaf-label.jp/en>

CO₂ Reduction Efforts in Logistics

Canon Inc. is working to reduce our logistics-related CO₂ emissions at several stages of the product life cycle, from procurement to sales. To help minimize the environmental impact of transportation, we are transitioning from air to sea freight and from road transport to rail or ferry options.

Canon is making an active effort to improve transport loading efficiency by implementing “container round use,” reusing import containers for export use. Additionally, we look to find opportunities to work collaboratively with other companies to consolidate shipments, thereby increasing transportation efficiency.

Since 2020, CO₂ emissions related to international transportation have been reduced by 21% by shifting transport from air to sea.

Reducing Disposable Plastics

The main unit of all models in the imageRUNNER ADVANCE DX C3900/4900 Series and select imageFORCE models* include durable cardboard for most of the interior and exterior packaging.



Before

After

* Cardboard packaging is not available at launch for the imageFORCE C611 Series.

3. Environmental Awards and Certifications

Certifications		Models & Offices Certified
 EPEAT Silver	The Electronic Product Environmental Assessment Tool (EPEAT) is a method for purchasers (governments, institutions, consumers, etc.) to evaluate the effect of a product on the environment. It assesses various lifecycle environmental aspects of a device and ranks products as Gold, Silver, or Bronze based on a set of environmental performance criteria. Managed by Global Electronics Council (GEC).	EPEAT Silver: All imageCLASS X models and imageFORCE C1333 and 1440 series
 EPEAT Gold		EPEAT Gold: All imageRUNNER ADVANCE DX models and imageFORCE models*
 ENERGY STAR®	ENERGY STAR® is a voluntary labeling program jointly sponsored by the Environmental Protection Agency (EPA) and the Department of Energy (DOE).	All imageRUNNER ADVANCE DX models and imageFORCE models
 Leader Status - IDC MarketScape for Worldwide Sustainability Programs and Services Hardcopy 2023 Vendor Assessment	International Data Corporation (IDC) is a premier global market intelligence, data, and events provider for the information technology, telecommunications, and consumer technology markets. IDC examines consumer markets by devices, applications, networks, and services to provide complete solutions for succeeding in these expanding markets.	All imageRUNNER ADVANCE DX models
 LEED Program, Gold Certification Note: This logo is for Melville Headquarters.	LEED, or Leadership in Energy & Environmental Design, is the world's most widely used green building rating system, recognizing best-in-class building strategies and practices. The LEED program logo is a globally recognized symbol of excellence in green building.	Melville Headquarters - Canon U.S.A., Inc. Brampton Headquarters - Canon Canada Inc.

*Does not include imageFORCE C1333 Series and imageFORCE 1440 Series.

Certifications	Models & Offices Certified
 EcoVadis Platinum	EcoVadis assesses over 150,000 companies spanning 185 countries and 250 industries according to various criteria across the four themes of “Environment,” “Labor & Human Rights,” “Ethics” and “Sustainable Procurement.” As worldwide scrutiny of corporate sustainability efforts increases, companies around the world now take into consideration the EcoVadis rating of potential clients and partners. In the recent assessment, the Canon Group received high marks overall. The Canon Group has received seven Gold ratings since 2015, and its continued sustainability efforts led to its first Platinum rating. The Canon Group
 ISO CERTIFICATIONS ISO 14001 CERTIFICATION	ISO 14001: The standard specifies the requirements for an environmental management system that an organization can use to enhance its environmental performance. The intended outcomes of an environmental management system include enhancement of environmental performance, fulfillment of compliance obligations, and achievement of environmental objectives. ISO 9001: The standard specifies requirements for all products quality management system where an organization needs to demonstrate its ability to consistently provide products that meet customer and applicable statutory and regulatory requirements. Canon Virginia (located at 12000 Canon Boulevard, Newport News, VA 23606-4299) has been certified since June 1993. ISO 9001:2015 Scope Statement includes design and development of new products; manufacture of toner cartridges and toner; manufacture of plastic injection molds and injection molded parts; assembly, testing, and distribution of finished products; product returns, refurbishing, and distribution; and collection, segregation, processing, data destruction, dismantling, and remarketing of electronics. Excludes manufacture, assembly, test, and distribution of medical products and excludes manufacture, assembly, test, and distribution of food products. ISO 13485: The standard specifies requirements for medical products quality management system where an organization needs to demonstrate its ability to consistently provide products that meet customer and applicable statutory and regulatory requirements. Canon Virginia has been certified since February 2017. ISO 13485:2016 Scope Statement – Contract manufacturer and testing of electronic-based medical device components. Canon U.S.A. and more than 525 other Canon sites worldwide are certified to the ISO 14001 standard

4. Canon Laser Consumable Take-Back Program

In 1990, Canon became the first company to collect and recycle used copier toner cartridges. With the cooperation of our customers, Canon has collected more than **473,000 tons** around the world.

Toner containers are made mainly of plastic material, making them suitable for local recycling and local energy recovery in many areas of the country. When local recycling is utilized, the environmental impact associated with the transportation of containers is reduced.

[Canon Laser Consumable Take-Back Program](#)



5. Canon Virginia, Inc. (CVI) – Sustainable Practices

Canon Virginia, Inc. (CVI) brings more than 38 years of expertise in manufacturing consumables and service parts for multifunction printers and production printers.

The company operates under internationally recognized quality and environmental standards, maintaining certifications in ISO 14001, ISO 9001, and ISO 13485. Notably, CVI has upheld its ISO 14001 certification for environmental management since 1996.

CVI works to help implement consistent quality and evaluation standards across new, remanufactured, and refurbished parts. Currently, CVI is actively remanufacturing key components such as the Fixing Film Unit for Canon imageRUNNER ADVANCE C5500/C5700 series and refurbishing 23 parts for the Canon varioPRINT 6000 Series production printers.

CVI is proactively undertaking activities designed to help reduce environmental impact by developing initiatives throughout the entire product life cycle. The Recycled Toner Pellet (RTP) project was the result of an activity to find a use for waste toner by pelletizing the material and using it in asphalt for local roadways. Canon recycles more than 400 tons of toner annually.

These efforts highlight CVI's dedication to sustainability efforts while delivering high-quality solutions to help meet customer needs.



Solar panels at Canon Virginia location.



The Recycled Toner Pellet (RTP) Project.



6. Other Useful Resources and Links

[Canon's Commitment to Sustainability | Canon U.S.A., Inc.](#)

[Environment & Sustainability Initiatives | Canon U.S.A., Inc.](#)

[Safety Data Sheets](#)

[Sustainability Report](#)



usa.canon.com/business

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