Goodbye Laser.
Hello Future.

With as much as 39% of U.S. CO_2 emissions coming from buildings,[1] improving sustainability in our work places is critically important. Improving the office print environment offers one of the biggest opportunities for reducing a company's impact. In the U.S. there are more than 170 million imaging equipment devices[2] that combined, annually:

- Consume 30B kWh of energy[2]
- Contribute to the 375 Million empty ink and toner cartridges that end up in landfills[3]
- Generate 10,000pp per employee—45% of which end up in the trash by the end of the day[4]

This data is not lost on Epson. When our engineers set out to develop their current generation of workgroup printers, the environment was a key consideration. To make a significant impact, they had to look beyond laser. The solution was found in our proprietary PrecisionCore heat-free technology.

Epson is committed to the SDGs.[5] We strive to design our business inkjet products to help create a more sustainable print environment–it's as easy as one, two, three...

One: Reduce Electricity Consumption

Laser vs. inkjet, it's no contest

- While most energy expended by office printers is consumed during active printing, devices also fritter away a fairly significant amount during warmup and while in standby mode. Laser printers are prime offenders, because they need to heat the toner drum to enable printing.
- Not so with Epson Business Inkjet Printers. Epson printers with PrecisionCore heat-free technology (see sidebar) don't require any heat to print, so there's no warm-up time. This helps to deliver fast FPOT (First Page Out Time) and reduce total energy consumption vs. laser.[6]

This WorkForce printer works to reduce electric consumption

- WorkForce Enterprise WF-C20590 A3 Color Multifunction Network Printer provides breakthrough speed with brilliant-quality output, and it does so while using up to 85% less energy than top selling A3 color laser office printers.[7]

PRECISIONCORE
Heat-Free Technology

The Next-Generation Print Head – A Heat-Free Technology

Improving environmental sustainability is key at Epson, but so is increasing a business' productivity. That's where PrecisionCore, our heat-free, high-density print chip, comes in.

- Proven technology, originally developed for Epson commercial printers
- A heat-free technology that eliminates the need for our printers to warm up, so less energy is used and documents print sooner
- Gives the Epson WF-C20590 the ability to print up to 100 ISO PPM[8]
- Our Business Inkjet Printers feature more durable components, keeping productivity high

Two: Reduce Waste

Office lasers deposit toner, a polyester-based powder that's electrostatically charged by an image drum. Once it's heated through a fuser unit, the toner melts to the paper, and any excess toner moves to a waste toner cartridge.

By contrast, Epson Business Inkjet Printers simplify printing by sending paper through a print head that precisely deposits fine, fast-drying droplets of ink at a rate of 50,000 times a second per nozzle.

At Epson, the "nays" have it—

- No need to heat the ink
- No need to fuse the ink
- No image drum to replace

Our high-yield ink cartridges reduce the number of consumables needed to print, as well as reducing interventions and downtime, which helps boost productivity even more.

These WorkForce printers work to reduce waste

- WorkForce Enterprise WF-C20590 prints up to 50,000 color pages and 100,000 black pages, all with a replacement high-capacity ink cartridge set.[9]
- WorkForce Pro WF-C869R A3 multifunction printer prints up to 84,000 color pages without changing ink packs.[9]
- WorkForce Pro C500R Series prints up to 50,000 black pages and 20,000 color pages without changing ink packs.[9]

Three: Reduce Paper Usage

Paper is a big part of the equation when it comes to printing. It can also be a big waste if you don't have the most efficient printers. No worries there, if you're using Epson printers.

- Epson's automatic double-sided printing feature[10] lets you print on both sides of a sheet of paper, cutting paper usage by 50 percent.

And, there are many software solutions available that help cut paper usage further by—

- Optimizing document workflow
- Enhancing device placement
- Reducing erroneous and unauthorized printing

Our Commitment to Environmental Sustainability Never Waivers

Epson continues to create innovative products that are reliable, recyclable and energy efficient. Better products that use fewer resources help ensure a better future for us all. If you would like to learn more about our commitment to environmental sustainability, please visit: **epson.com/environment**

Committed to Sustainability

We've made a commitment to reduce environmental impacts from our supply chain, and all the way through to manufacture, transport, service life and end of life of our many Business Inkjet Printers. Learn more at https://global.epson.com/SR/report/

1 https://www.eesi.org/files/climate.pdf
2 https://www.energystar.gov/products/office_equipment/ imaging_equipment
3 https://www.energystar.gov/products/office_equipment/ imaging_equipment
4 https://www.epa.gov/sites/production/files/2013-09/documents/fec_automatic_duplexing.pdf
5 The content of this publication has not been approved by the United Nations and does not reflect the views of the United Nations or its officials or Member States www.un.org/sustainabledevelopment
6 Source IDC, 2017 (Based on extrapolation from IDC Inkjet Forecast data, includes SOHO and SMB Market) — Consumer Unit Shipments: IDC Worldwide Single-Function Printer Forecast, 2016–2020, IDC Worldwide Multifunction Peripheral Forecast, 2016–2020; Wide-Format Unit Shipments: IDC North America Large-Format Printer Market Shares, 2015; Production Print Volume: IDC U.S. Production Page Volume Forecast 2016–2020; Office Unit Shipments: IDC Worldwide Single-Function Printer Forecast, 2016–2020, IDC Worldwide Multifunction Peripheral Forecast, 2016–202
7 Compared to similarly featured A3 color laser printers and copiers at 45 ppm or higher based on industry available data as of March 2019. Actual power savings will vary by product model and usage.
8 Black and color print speeds are measured in accordance with ISO/IEC 24734. Actual print times will vary based on system configuration, software, and page complexity. For more information, visit www.epson.com/printspeed
9 Replacement cartridge and ink pack yields are based on ISO/IEC 24711 tests in Default Mode printing continuously. Cartridge yields vary considerably for reasons including images printed, print settings, temperature and humidity. Yields may be lower when printing infrequently or predominantly with one ink color. All ink colors are used for printing and printer maintenance, and all colors have to be installed for printing. For print quality, part of the ink from the included cartridges is used for printer startup and a variable amount of ink remains in the cartridges after the "replace cartridge" signal. For more information, visit www.epson.com/inkinfo
10 Feature available in certain models