Sustainable, reliable document management solutions.

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Environmental impact has become a key consideration and motivator in every aspect of business, society and life. Today, more and more organisations are publicly seeking to reduce their environmental impact through more sustainable business practices, supply chains and procurement.

While print may seem a comparatively trivial consideration, research shows that print and document management can have a significant impact on a typical organisation's environmental footprint.

According to the Cool Climate Network based at UC Berkeley, paper and print products account for around 1% of all carbon emissions, while the ICT (information and communications technology) sector contributes another 6%. These may not sound significant, but add up in real terms to millions of tonnes of carbon per year. Taking the UK government's conversion factors for carbon emissions, just 100,000 sheets of A4 paper has a carbon footprint of 6,000kg and requires eight trees and 2,000kWh of energy. The same paper recycled seven times produces 3,200kg of carbon over its lifetime.

What's important to recognise is that these are metrics that organisations can control through better choice of print and document management technology.

The KYOCERA Way

The founding principles of Kyocera are committed to environmental management and aimed squarely at achieving sustainable corporate development (its motto is 'Respect the Divine and Love People'). In 1991, it established the 'Kyocera Environmental Charter' to reduce the company's impact on the environment throughout the entire value chain.

All Kyocera operations are now focused on a vision for 2020 divided into three main areas: Green Products, Green Factories and Green Communication.

Within Kyocera Document Solutions, innovation has intensified to focus upon longevity, 3R design (reduction, reuse and recycling of components) and low power consumption.

- All new Kyocera print devices are compliant with the new Energy Star 3.0 standard
- 99% of Kyocera products are officially designated 'Green Products'
- Kyocera has held the ISO 14001 environment certification for over 20 years
- Kyocera Group is part of the United Nations Global Compact, the world's largest corporate sustainability initiative
- The company has won the Japanese Environment Ministry's 'Commendation for Global Warming Prevention' for each of the last 8 years.

All Kyocera devices are designed with the environment in mind. We aim to minimise the impact of our products on the planet by reducing the quantity of raw materials contained within them. Kyocera's long life ceramic imaging drum technology reduces the number of components in the toner system by more than 85% on average, consequently reducing the manufacturing and recycling impact of the device.

KYOCERA has held the ISO 14001 environment certification for over twenty years

ECOSYS: A 25+ year legacy of environmental sustainability.

Kyocera's commitment to sustainable practices and products is exemplified by the innovation surrounding its ECOSYS product range. 'ECOSYS' means 'Economy, Ecology, Systems' and represents minimised environmental impact, optimised workflow efficiency and effortless system/process integration.

Eco-friendly toner

Kyocera has developed its own eco-friendly toner (i-toner) utilising advanced production methods that use no organic solvents and very little water to minimise its environmental impact.

Its unique structure enables low-temperature fusing and long-term stability. Toner fusing accounts for around 70% of the total power consumption of a print device, but because i-toner can fuse at 30 °C cooler than conventional toner, total energy usage is cut by up to half.
Low energy consumption.

The peak power use of a print device happens when the fusing unit is working at full temperature. However, most of the time it sits idle in power save or sleep mode — which is when it is most crucial to minimise power consumption. For its ECOSYS range, Kyocera has developed energy-saving controllers to optimise power management and operate as low as 0.5 Watts in sleep mode; one-tenth of the energy used by a smartphone charger.

Ultra-durable photosensitive image drum

All laser print devices employ a photosensitive image drum that allows letters and images to be written electronically and reproduced in toner, before being transferred and fused onto paper using heat and pressure. Typically, repeated use erodes the drum's special charge/discharge properties, necessitating replacement.

Kyocera's expertise in ceramics and advanced production techniques has vastly improved image drum durability, while drastically reducing cartridge build complexity.

- Kyocera's PSLP (Positive-charged Single Layer Photoconductor) drum technology delivers over 10 times the lifespan of a standard drum and requires one-third of the manufacturing energy to produce
- Amorphous Silicon (a-Si) multilayer technology to produce drums with a serviceable life of more than 600,000 pages
- Toner cartridges are now made from as few as eight parts, all plastic, all recyclable.

Considered 'ahead of its time' when launched in 1992, Kyocera's use of long-life components and drums delivers a toner only concept for most users - drastically reducing waste, user interventions and CO_2 emissions.
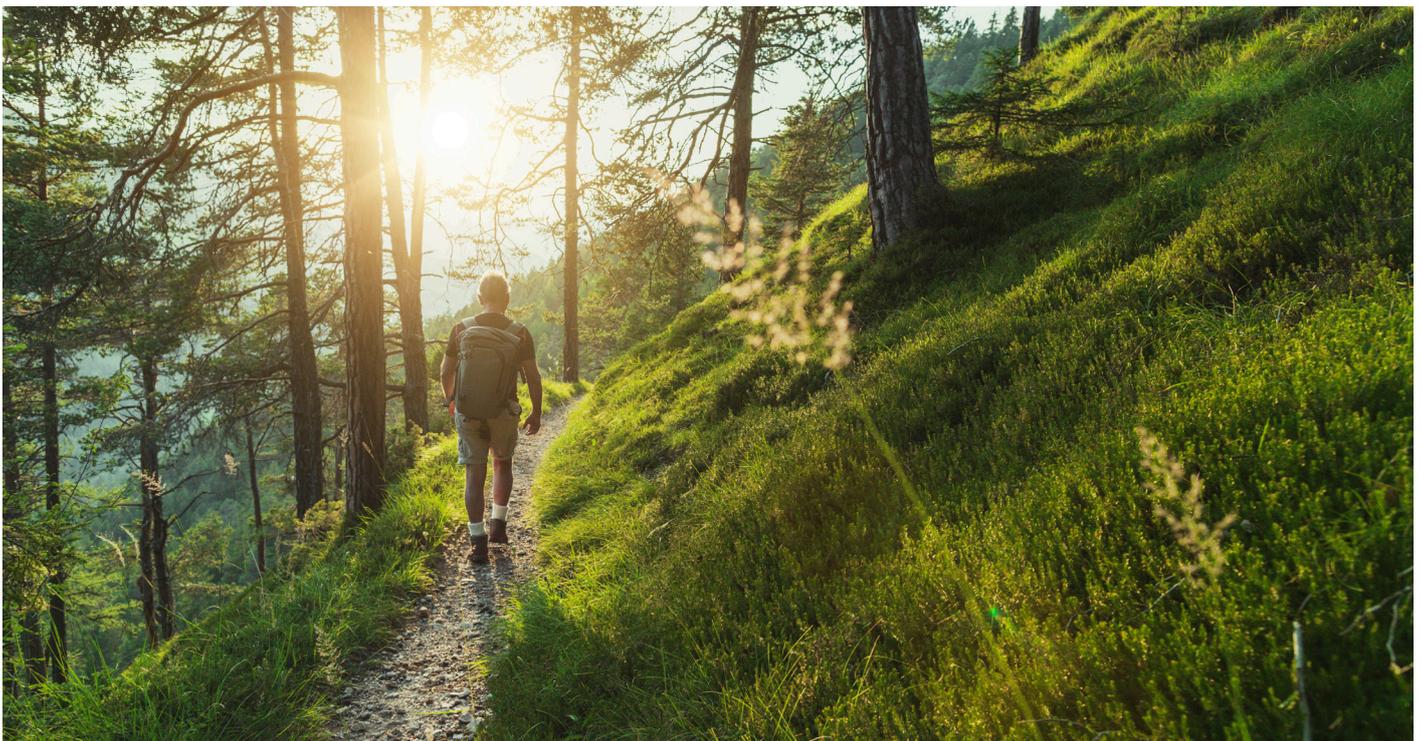
Kyocera Document Solutions has championed innovative technology for more than 60 years. We enable our customers to turn information into knowledge, excel at learning and surpass others.

With professional expertise and a culture of empathetic partnership, we help organisations put knowledge to work to drive change.

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