EPSON

Shaping the future of printing with Heat-Free Technology

Epson inkjet printers use
less power, saving electricity

Rising to the global electricity challenge

As electricity consumption accelerates around the world, it's time to think about what we can all do to reduce our use.

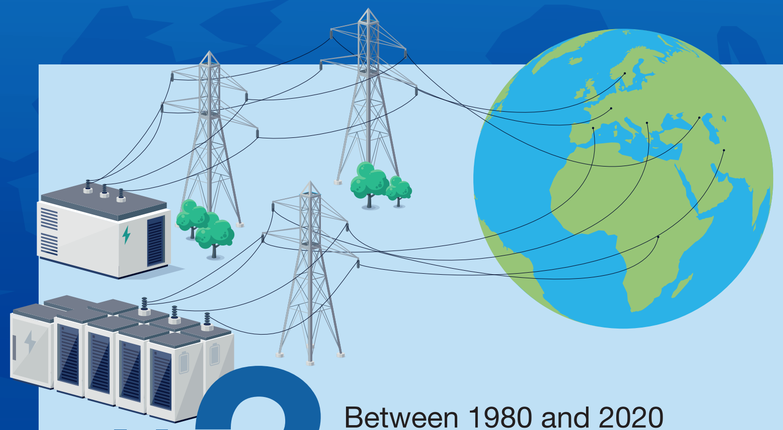
And switching to Heat-Free Technology is one way to play a part.

In a cross-section of some of the world's largest economies, every person used an average of

6,905 kWh

of electricity in 2020[1]

That's enough to power today's best-selling electric car around the entire planet.

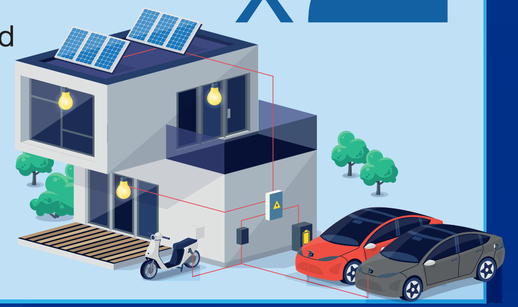


x3

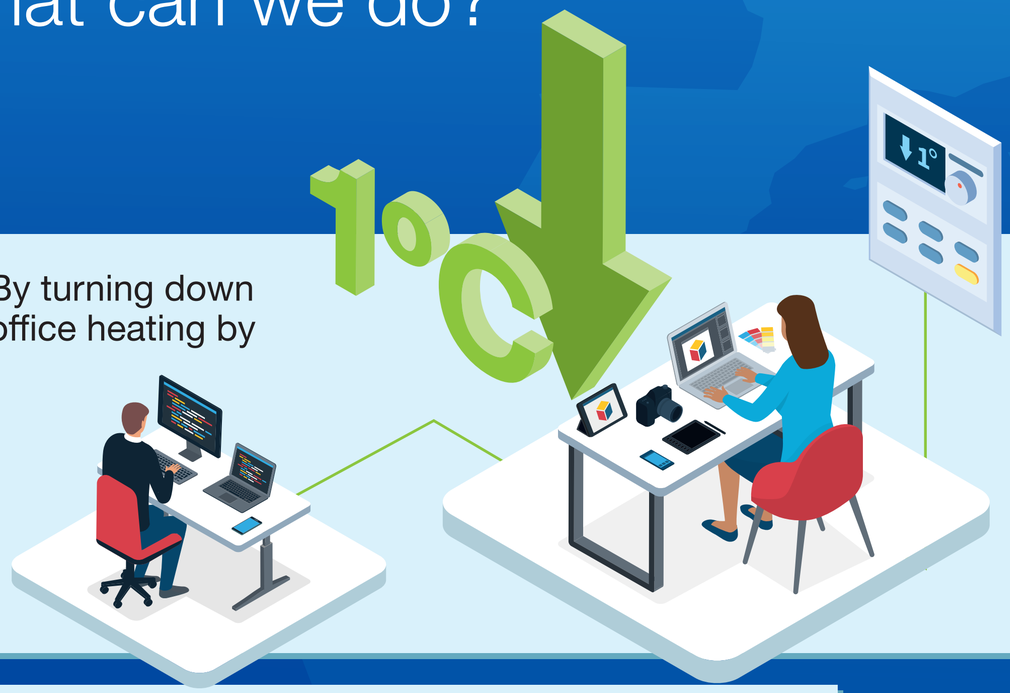
Between 1980 and 2020 global electricity consumption **more than tripled.**[2]

And electricity consumption is set to **double by 2050**[3] as electrification and **living standards grow.**

x2



What can we do?



By turning down office heating by

businesses can **cut** their energy costs by

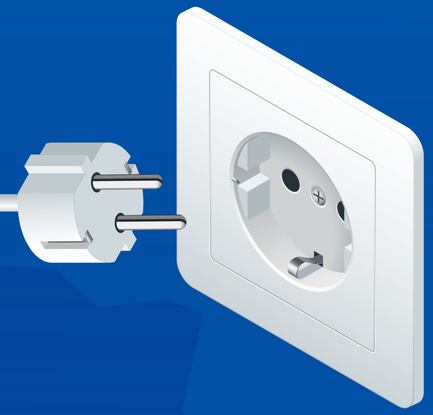
8%[4]

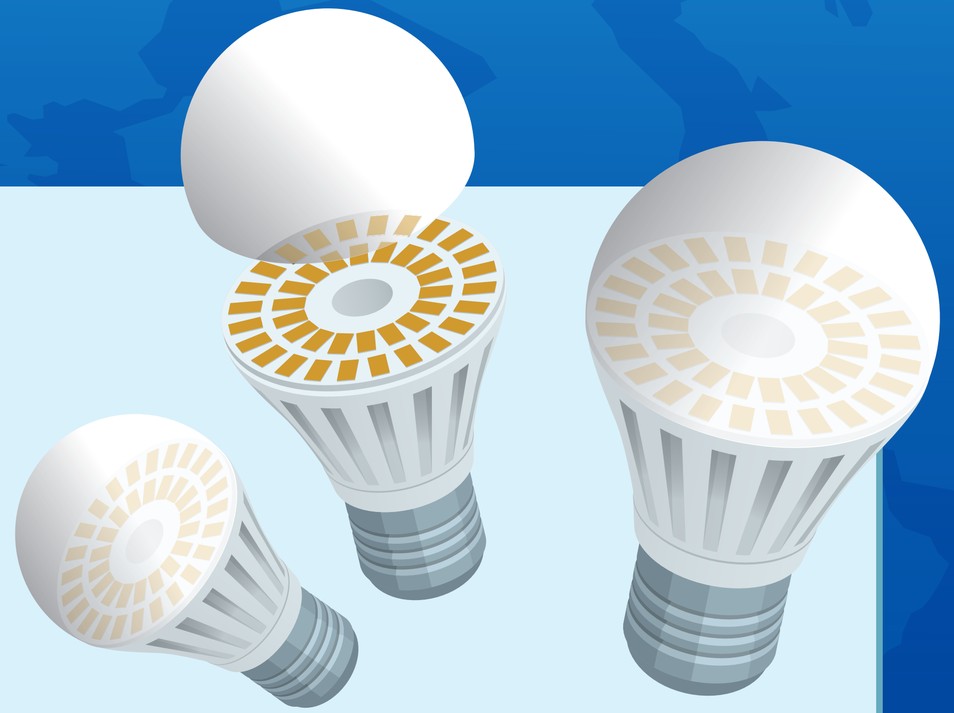
By switching off

non-essential office equipment during the day and out of hours,

businesses could save **5%**

of their energy costs and reduce heat build-up.[5]





Switching to LED lightbulbs reduces energy use by

75%

and they last up to

25 times longer.[6]

How can Epson Help?

The benefits of Heat-Free Technology

Switch to Heat-Free Technology
for low power consumption.

Every page you print can make a difference.

Less power consumption saves electricity and money

Heat-Free Technology uses less power because it doesn’t use heat to warm up. As inkjets have no fuser unit to heat, this results in significantly less electricity consumption.

Fewer replacement parts, lower environmental impact

Laser printers typically have more consumables and require periodic replacement of the drum, transfer belt and fuser in many cases. Thanks to Heat-Free Technology, our inkjet printers use fewer parts that need replacing.

Start printing quickly

As Heat-Free Technology requires no heat to warm up, printing starts immediately when the printer is switched on or woken from sleep.

Less intervention increases productivity

The Heat-Free structure of Epson inkjet printers means that there are fewer parts that can fail, which reduces the amount of intervention required.

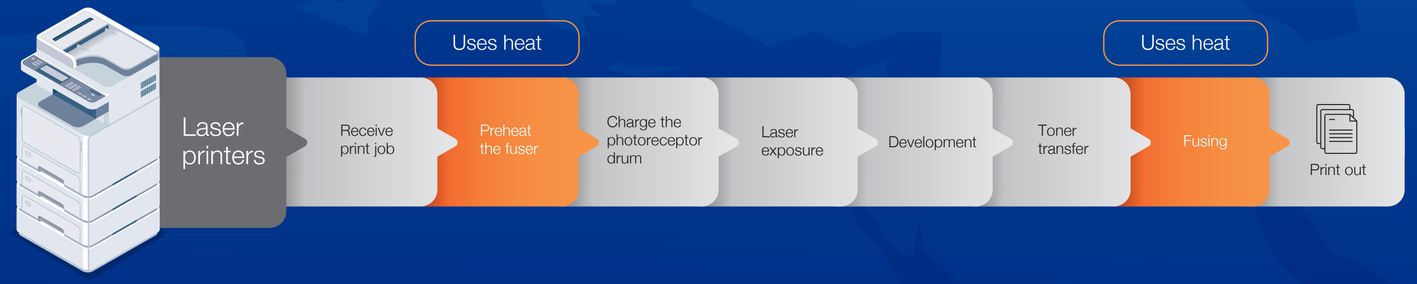
Why switch to Heat-Free Technology?

At Epson, we're focusing on changing the way we consume electricity. Switching to Heat-Free Technology, which uses no heat in the ink ejection process, delivers lower power consumption and improved performance.

That means every time you use one of our inkjet printers, you're taking a step in the right direction.

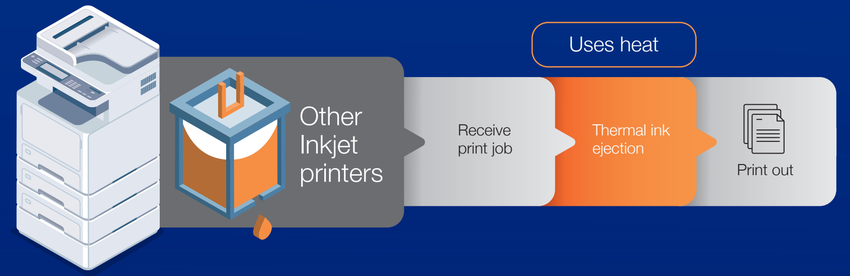
Laser printing process

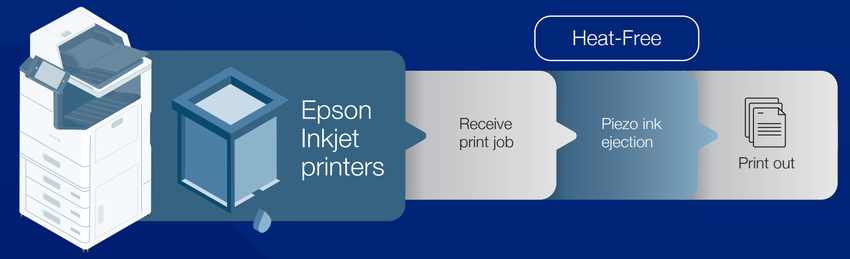
Typically this is a complex process involing separate stages. It requires preheating the fuser, and again uses heat to fuse the toner to the paper.



Inkjet printing process

This method is comprised of only three stages to achieve a printout.





1 (1) Total final consumption of electricity in OECD countries - 9,461,797 GWh in OECD countries. Population is 1,370,360,714. Total electricity per person is 6,905 kWh. Source: Total final consumption of electricity from IEA World Energy Balances Highlights 2022

(2) OECD population – 1,370,360,714 Source: UN population (3) The Tesla Model Y was the world's most popular plug-in electric vehicle with worldwide unit sales of roughly 771,300 in 2022. Source: statista.com Tesla Model Y fuel economy data source

2 Total final consumption of electricity from IEA World Energy Balances Highlights 2022

3 Total final consumption of electricity with NetZero scenario base from IEA World Energy Outlook 2022 Free Dataset

4 Carbon Trust: ctprodstorageaccountp.blob.core.windows.net/prod-drupal-files/documents/resource/public/CTV007_OfficeBased Companies-2021-update.pdf

5 Carbon Trust: ctprodstorageaccountp.blob.core.windows.net/prod-drupal-files/documents/resource/public/CTV007_OfficeBased Companies-2021-update.pdf

6 www.energy.gov/energysaver/led-lighting