SICOM

FREE GUIDE

The SICOM guide to sustainability.

Sustainability is in every conversation now. There's **more you can do** than you'd think — some of it not obvious. Read on.

SICOM CONNECTIVITY SICOM.UK/SUSTAINABILITY FREE GUIDE

WHERE TO START

Four things a company can actually do

Larger companies have reported their emissions under government legislation for years, and must have a plan to reduce them. We've got our own sustainability policy — but here's the practical list.

1 **Measure and record your emissions**

You can't reduce what you don't track — and the reporting is only getting more detailed.

2 **Make your buildings smarter**

Smart lighting, sensors and controls cut energy with a fast payback.

3 **Re-use your waste heat**

IT kit throws off heat. Immersion cooling lets you capture it instead of pumping it outside.

4 **Reduce waste by good design**

Plan connectivity properly up front and you avoid digging the same hole twice.

SICOM is part of the **Smart Places** consortium — a group of like-minded companies that can help with your sustainability goals across all four.

SMART PLACES

What does a Smart Place look like?

Well designed

Built for today and future-proofed for what the tenants will need next.

Efficient

Considerably lower running costs — the building works harder so you spend less.

Well connected

WiredScore accreditation and more, so connectivity is a selling point not an afterthought.

Giving you SMARTer — and happier people.

- Overall consistent control
- Connectivity
- Monitoring & tracking
- Heating & lighting
- ESG reporting
- Decision making
- Data centres
- Adaptability
- Return on investment

ACTION 01

Measuring and recording your emissions

Larger companies must, by law, measure and report emissions annually, and have a plan to reduce them over time. Most aren't there yet:

4%

of FTSE 250 companies had set Science Based Targets initiative (SBTi) approved goals.

37%

have set no emissions targets at all.

SCOPE 1

Direct

Emissions a company makes directly — for example running boilers and vehicles.

SCOPE 2

Indirect — energy

Made indirectly — for example when the electricity or energy you buy to heat and cool buildings is produced.

SCOPE 3

Indirect — value chain

Everything you're indirectly responsible for, up and down the value chain — suppliers, and your products in use by customers.

Need help with the reports and the reduction plan? We can guide you — or complete the whole thing for you. It's getting more complex as the scope of reporting extends.

ACTION 02

Making your buildings smarter

Smart buildings can greatly cut energy use. The simplest win is **smart lighting** — it turns lights off when no one's in the room, and varies the level to match the daylight coming through the windows.

The sensors run on their own **mesh network**, so they don't touch your WiFi and present no security risk through unauthorised access.

The same sensors do more than lighting — **air-quality monitoring**, for instance, linked to your heating and ventilation (HVAC) through the existing Building Management System.

Up to 25% off your electricity bill

… with a pay-back period of **less than 2 years**. This kind of investment pays for itself, then keeps paying.

ACTION 03

Re-using waste heat

IT equipment is extremely good at turning electricity into heat — **almost 99% efficient**, in fact. In a comms room that's a problem: the heat has to be pulled out by air conditioning, which burns more electricity, and the warm air just gets pumped outside. Not green, and wasteful.

With **immersion cooling**, the IT kit sits in a bath of non-conducting liquid. The hot liquid is far better at moving heat through a simple exchanger — which can then heat your hot water, or even part of the building, depending on how much kit you have.

~99% of electricity becomes heat

So instead of paying to remove it and throw it away, you **re-use it** — cutting other heating and feeding straight into your emissions-reduction plan.

ACTION 04

Reducing waste by good design

Scope 3 includes the things you might not have thought of. Here's an example — and yes, this still happens every day.

WHAT USUALLY HAPPENS

Designed without connectivity in mind

Openreach and other ducts enter the building at a single point. Then the first tenants need two fully diverse links — because everything's internet, data-centre or cloud-based. Oops. Now you dig up the car park and drill holes in the nice new building. Five years on, a new tenant wants a different carrier and the whole thing repeats.

WITH A BIT OF PLANNING

Designed for diversity from day one

At least two separate entry points, each with multiple ducts, so multiple carriers can come in. Local carriers design their network to connect at the design stage. No dug-up car parks, no repeated civils — minimal waste and emissions.

Every dig has a carbon cost — contractors travelling to site, roads opened and resurfaced, new chambers, new cable runs. Good design up front avoids doing it twice.

THE SMART PLACES APPROACH

Four parts to a Smart Place

Smart Design

- Intelligent, future-proof connectivity inside the building, around the curtilage, car parks and boundaries.
- Digital-twin design to explore operations before building.
- An interactive as-built model to simplify maintenance.
- IoT blueprint for energy savings, ESG compliance, smart access & booking.

Smart Operation

- Management of WiFi networks and reacting to faults.
- Proactive response to leaks, poor air and water quality.
- Trend analysis to deal with faults before they happen.
- Smart-lighting analysis reporting on energy savings and ESG.
- Connection to BMS systems and sharing data.

Smart Connection

- Fast connection in days, not months.
- Choice, flexibility and speed — multiple options pre-planned.
- Local, national and international.
- Diversity and resilience; leverage the dark fibre in the ground.
- Cellular connectivity for tenants and backup.

Smart Services

- Cloud-based voice (VoIP).
- MS Teams connections.
- Network-based firewalls.
- Virtual data centres.
- Internet access in a variety of bandwidths and costs.

TALK TO SICOM

Now you know what you can do.

Measure your emissions. Make your buildings smarter. Re-use your waste heat. Design out the waste. We can help with any of it — or all of it.

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