



EMBODIED CARBON: THE ESSENTIALS

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020 7793 3030
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Embodied Carbon – what is it?

All Catering Equipment has it.

Has what?

The two Cs:

- Carbon at the Product Stage
- Carbon at the Construction Process Stage

Carbon at the Product Stage includes:

- Raw material supply (extraction – end of life)
- Data on anticipated lifetime repairs
- Transport during manufacture
- Manufacturing

Carbon at the Construction Process Stage includes:

- Transport to site
- Construction / installation



Why is **embodied carbon** so important, then?

Because everyone wants to know what yours is!

Everyone?

Well, lots of designers, consultants and foodservice operators do.

What for?

So they can specify equipment that helps them with their sustainability aspirations and commitments. At a corporate level this falls under the Corporate Sustainability Reporting Directive (CSRD). But let's not get hung up on technicalities....



What are my obligations?

Technically... none.

Explain!

As in, there's no law that says you have to have an embodied carbon figure for your equipment. BUT increasingly you will need one for tenders and projects. Without it, you may miss out.



How do I get an embodied carbon figure?

The best way? Create an EPD!

What's that?

An Environmental Product Declaration (EPD). A full EPD covers embodied carbon, storage and distribution carbon, operational carbon and end of life carbon, the full cradle to grave calculation.

How do I create one?

You need to know the PCR for your equipment and then create a LCA.



How do I get an embodied carbon figure?

What are they?

PCR = Product Category Rules

LCA = Life Cycle Assessment

You need to identify the correct PCR for the equipment, then carry out a LCA.

You then use that data to create your EPD.

But for now you may only want an embodied carbon figure.

OK... how do I get that?

Simple. TM65.

Beg your pardon?



TM65: **the tool** to help calculate your **Embodied Carbon** figure

TM65 will guide you through the data you need to calculate the embodied carbon of a product. It has been created by CIBSE (the Chartered Institution of Building Services Engineers) and provides step-by-step guidance on the calculation methods.

TM65 is a simpler approach than an EPD. While it isn't as comprehensive, it still has a reasonably high degree of accuracy.

Following so far?

I think so... but...



Do I need **third party verification** of my embodied carbon figure?

No, you don't. It's not a legal requirement to provide any embodied carbon data. That said, some consultancies are starting to ask or even require that your data is verified. CIBSE and other companies can provide you with an independent verification service if you want it.

CIBSE designed TM65 to help manufacturers self-declare product Embodied Carbon.

TM65 takes a 'one size fits all' approach, but there's a catch. It doesn't perfectly fit foodservice equipment.

Right....

Fear not! Using the tool plus some common sense will allow you to calculate an accurate figure for your product.

(NOTE! Manufacturers must add a disclaimer to the bottom of any carbon footprint calculations using this method).



What's next?

We now have the Embodied Carbon Hub on the FEA website. This contains everything you need to know to get started on Embodied Carbon, including our more detailed Embodied Carbon: Technical Guide.

The hub will also host recordings of relevant webinars and will regularly be updated as the situation continues to evolve. If you want to know about Embodied Carbon, this is the place to be.



What's next?

Woohoo!

Remember! Embodied Carbon data is increasingly being asked for by consultants working on large, high value, new build projects. If that's your market you're in the right place! If not, in time the need for this data across the market is likely to increase, so it's important to get ahead anyway.

Meanwhile CIBSE has various tools to help use TM65.



**FOR FURTHER INFORMATION
PLEASE VISIT
THE EMBODIED CARBON HUB**

