



Webinar: Life Cycle Analysis (LCA) tools and datasets

Thursday 14th May, 13:00-14:30

@asbp_uk

Agenda

- 13:00** **Welcome from the webinar chair** - Jane Anderson, ASBP board member and Director, ConstructionLCA
- 13:10** **eTool** - Adrian Giles, UK Business Development Manager and Marios Tsikos, Sustainability Consultant, eTool
- 13:30** **One Click LCA** - Johanna Jarvinen, Business Development Manager (UK & Ireland), Bionova
- 13:50** **BRE Impact Database** - Pat Hermon, Technical Lead, BRE
- 14:10** **Discussion**
- 14:30** **Close**

Who we are

**Not-for-profit, mission led,
membership organisation**



“To accelerate the transformation to a healthy, low carbon built environment by championing the use of demonstrably sustainable building products”

What we do

We organise events, participate in research projects, advocate product standards and inform policy across our three core themes:

Health and well-being

- Natural materials
- Indoor air quality
 - Source control, VOCs, off-gassing
- Moisture control

Resource efficiency

- Circular economy
 - Design for deconstruction
- Material re-use

Product sustainability

- Whole life carbon
 - Robust product standards/EPDs
- Decision making tools/product databases

Our members and partners



Over 70 members and partners from across the sector

Architects

Specifiers

Contractors

Product manufacturers

Housebuilders

Trade bodies

Academia and more

Upcoming events in this series

www.asbp.org.uk/upcomingevents

Introduction to Environmental Product Declarations (EPD)

28th May, 13:00-14:30

An introduction to EPD

Jane Anderson, ASBP board member and Director, ConstructionLCA

Reading an EPD – what do they tell you?

Pat Hermon, Technical Lead, BRE

Digitising EPD

Christian Donath, Managing Director, EcoPlatform

The graphic features a central computer monitor displaying the ASBP logo and the word 'WEBINAR'. To the right, a starburst graphic contains the text 'ECO PLATFORM EPD EN 15804 VERIFIED'. The background is a light beige color with a subtle pattern of small icons.

This is the cover of the ASBP briefing paper titled 'ENVIRONMENTAL PRODUCT DECLARATIONS (EPD) - AN INTRODUCTION'. It features the ASBP logo and a small graphic of a globe with interconnected nodes.

This is the cover of the ASBP briefing paper titled 'ENVIRONMENTAL PRODUCT DECLARATIONS (EPD) - HOW TO USE'. It features the ASBP logo and a small graphic of a globe with interconnected nodes.

This is the cover of the ASBP briefing paper titled 'ENVIRONMENTAL PRODUCT DECLARATIONS (EPD) - WHERE TO FIND'. It features the ASBP logo and a small graphic of a globe with interconnected nodes.

See ASBP briefing papers on EPD - <https://asbp.org.uk/all-resources>

Tutorial series – Healthy Buildings

www.asbp.org.uk/upcomingevents

A new Healthy Buildings tutorial series with guest industry experts, in collaboration with the ASBP Natural Fibre Insulation Group.

Thursday 11th June, 11:00-12:00

Designing Healthy Buildings with Carol Costello, Cullinan Studio

Thursday 25th June, 11:00-12:00

Measuring Healthy Buildings with Tim Robinson, Waverton Analytics



Thursday 9th July, 11:00-12:00

Indoor Air Quality and Healthy Buildings with Professor Stephen Holgate

Lead author of "The Inside Story – Health effects of indoor air quality on children and young people".

New Masterclass Series

www.asbp.org.uk/upcomingevents



**In-depth sessions (2 hours), limited to 25 attendees,
with interactive discussion and exercises.**

**REGISTRATION OPEN NOW!
DISCOUNTS WHEN BOOKING
BOTH MASTERCLASSES**

Thursday 2nd July, 13:00-15:00

Biogenic Carbon in EPD and Building LCA

with Jane Anderson and Mark Lynn

- An introduction to Biogenic Carbon
- How is sequestered carbon measured?
- What about carbon storage? • What happens at the end of life?
- How is biogenic carbon reported in EN 15804+A1 and EN 15978?
- What will be different in EN 15804+A2?

Thursday 24th September, 13:00-15:00

Common pitfalls in EPD generation – a

verifier's view with Jane Anderson

- What is a verifier looking for?
- Common problems and how to avoid them
- Mass balance issues
- Biogenic carbon
- Indicators
- Data quality
- Plausibility

Get involved with the ASBP

Join as a member – Standard (from £150) or Patron (from £1,000 per year)

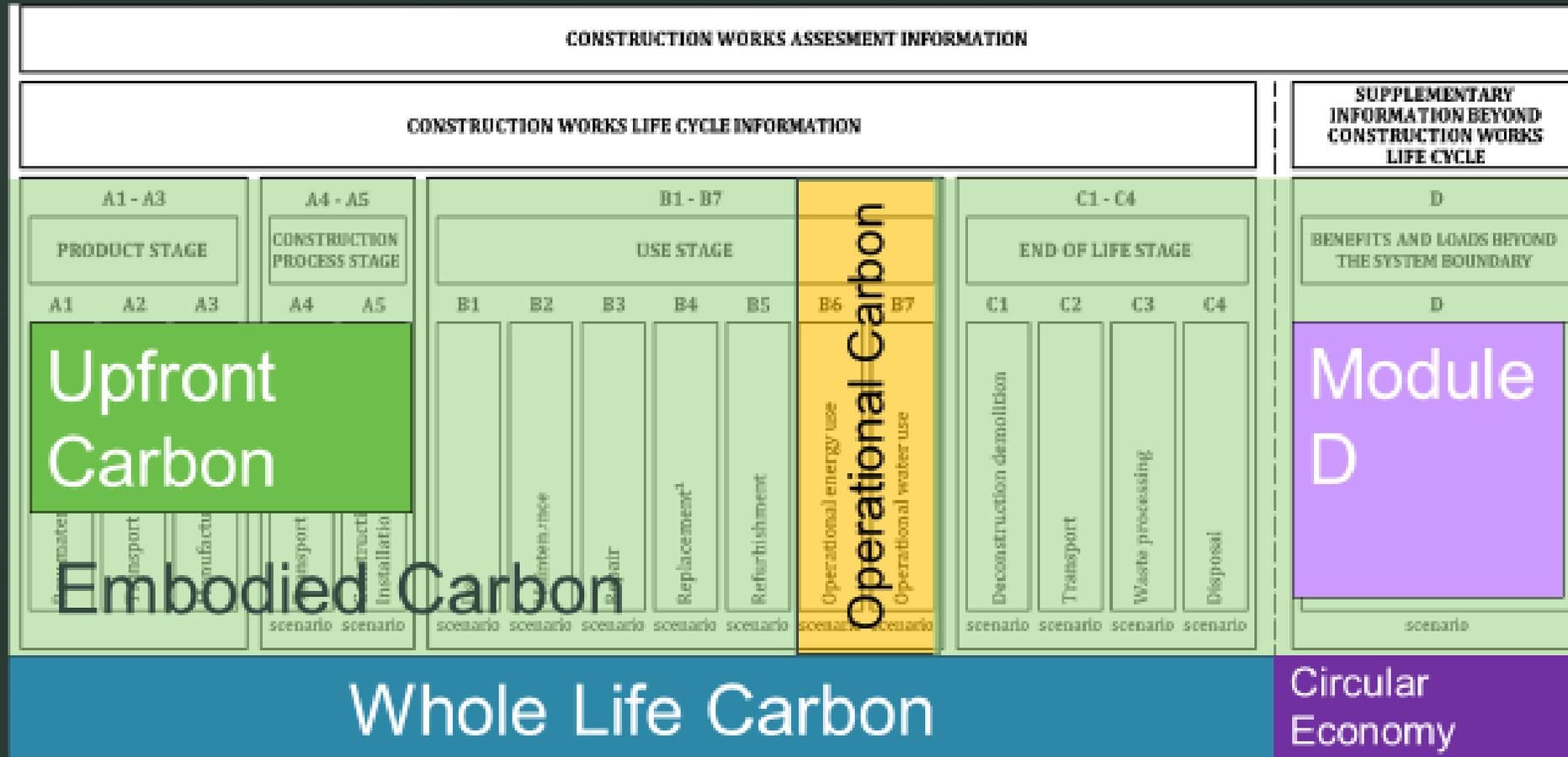
Sign up to our mailing list – <http://bit.ly/ASBPnewsletter>

Become a sponsor – Support the ASBP Awards or Healthy Buildings 2021

Join one of our specialist groups – Natural Fibre Insulation, Plastics in Construction, Paints & Finishes (coming soon!)

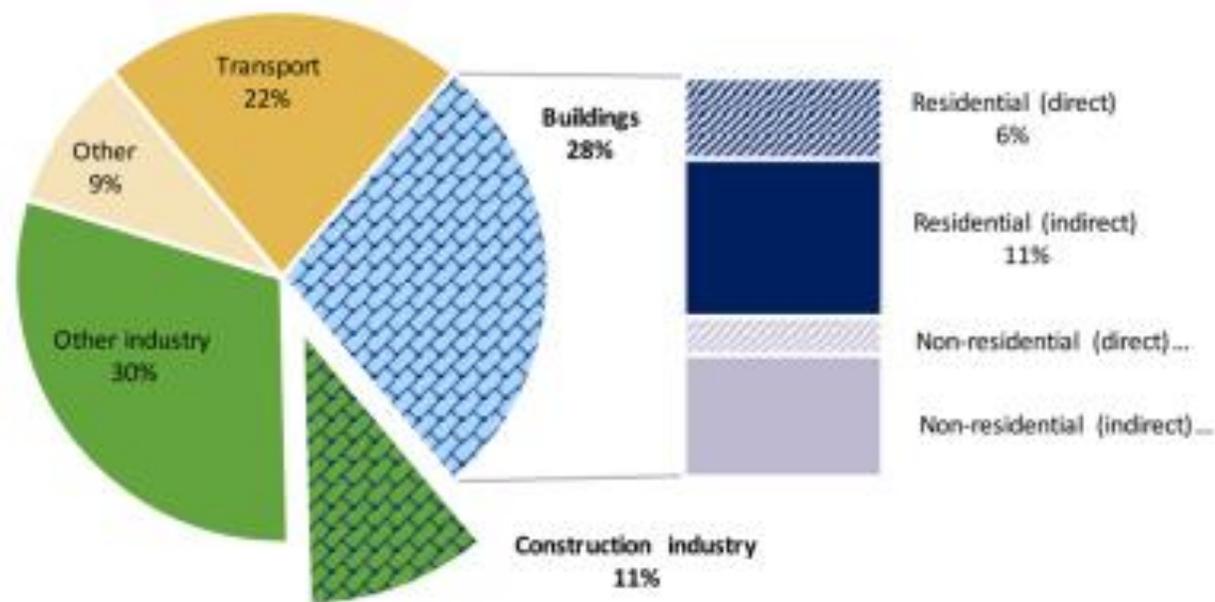
Register for one of our upcoming webinars – Intro to EPD (28th May), Circular Economy Week (2nd June), Healthy Buildings Tutorials (11th, 18th June, 9th July), Plastics in Construction (18th June), Biogenic Carbon Masterclass (2nd July) and more! - <https://asbp.org.uk/upcomingevents>

What is embodied carbon?



Embodied Carbon is 11% of global CO₂

FIGURE 7 Share of global energy-related CO₂ emissions by sector, 2015



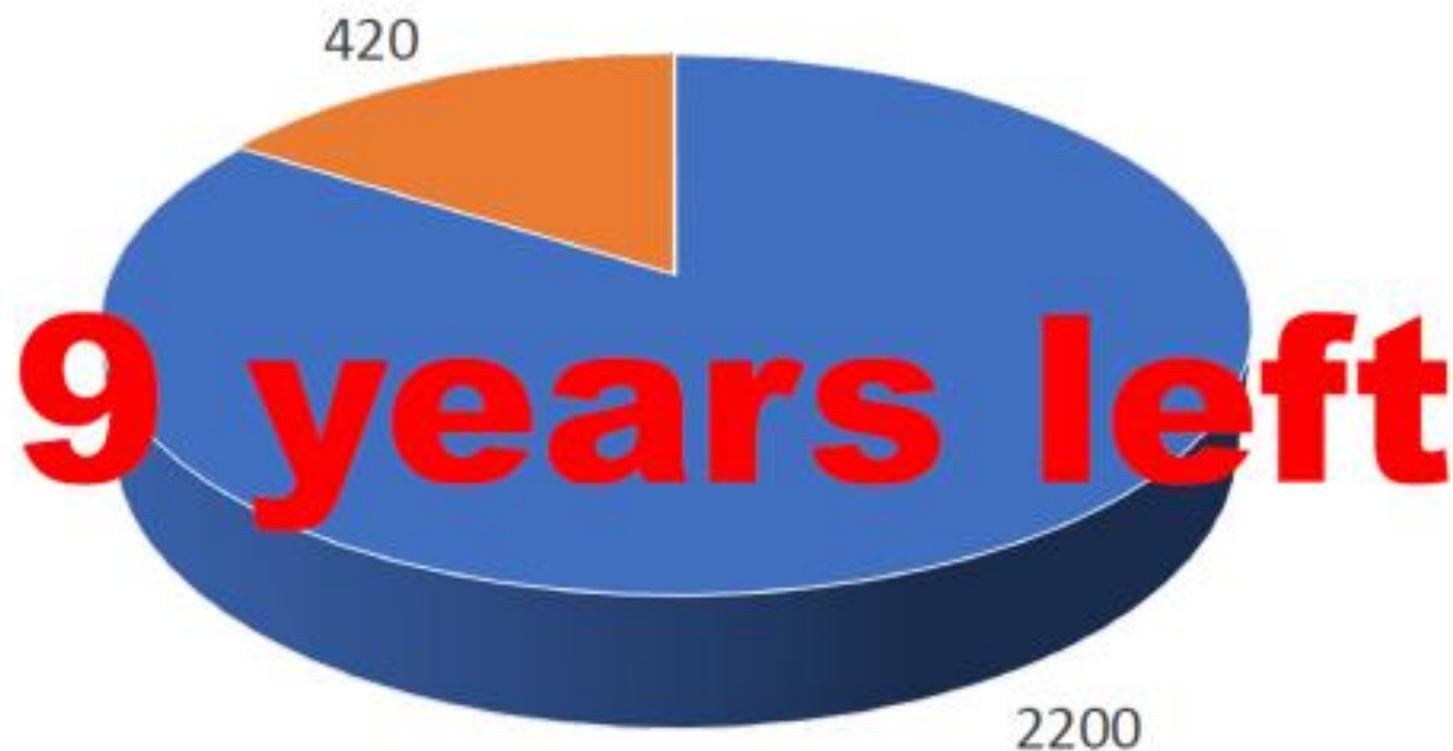
Note: The "construction industry" is an estimate of the portion of the overall industry sector that applies to the manufacturing of materials for building construction, such as steel, cement and glass.

Source: derived with IEA (2017), World Energy Statistics and Balances, IEA/OECD, Paris, www.iea.org/statistics

Source: UN Environment, and International Energy Agency. 2017. "Towards a Zero-Emission, Efficient, and Resilient Buildings and Construction Sector: Global Status Report 2017."

Spent and remaining carbon budget to 1.5C in 2018, GtCO₂

measured in surface air T, 66% probability to 1.5°C



■ Spent ■ Remaining



This paper has been authored by Jane Anderson, ASBP Board Member & Director of ConstructionLCA, and peer reviewed by the ASBP's Natural Fibre Insulation Group.

ASBP The Alliance
for Sustainable
Building Products

ENVIRONMENTAL PRODUCT DECLARATIONS (EPD) - AN INTRODUCTION

ASBP Briefing Paper | December 2019

This paper is the first in a series of ASBP industry briefing papers focussing on Environmental Product Declarations (EPD). The aim is to generate a greater understanding of sustainable construction products and the methods of assessing sustainability. In doing this, we hope to enable industry to deliver better buildings that utilize information provided by Environmental Product Declarations.

Introduction

What are Environmental Product Declarations (EPD)?

EPD provide a standard way of declaring the impacts of manufacturing and using products through Life Cycle Assessment (LCA). Construction products are assessed using a single set of Product Category Rules (PCR) ensuring consistent reporting for similar products. EPD should be independently verified by an expert familiar with the product category.

Governing standards

ISO 16025: 2006 sets out the overarching procedures and requirements for producing EPD for all product types. EN 15804:2012+A1:2013 sets out the Core PCR for the product category, construction products. There are additional standardized PCR for specific types of construction products that include timber, concrete, thermal insulation, cement and ceramic tiles.

EPD programmes

This is database of verified EPD's managed and updated by an EPD Programme Operator that is usually an independent operator and sometimes a manufacturing group or trade association. The governing standards determine General Programme Instructions, PCR, rules for appointing Verifiers and any EPD format that must be followed. A PCR that fairly reflects the product type and EPD verification that is fully independent are essential.

Verification

EN 15804 requires EPD to be verified by an expert in

LCA not associated with the owner of the EPD, and not involved in the EPD development. The verifier ensures that the EPD has been produced in accordance with the Governing Standards, the PCR and General Programme Instructions.

Mutual recognition

It is possible for an EPD to be listed in more than one EPD programme where the programmes follow the same rules. This avoids producing separate EPD for each programme. A number of EPD programmes for construction products now have mutual recognition agreements in place, shown in Figure 1.

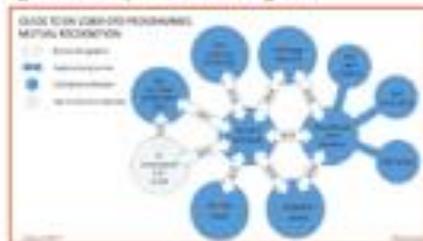


Figure 1. Mutual recognition agreements in 2017

Availability of EPD

The number of construction product EPD has grown steadily since 2012. In 2019 there were over 6000 downloadable EPD to EN 15804 within EPD Programmes. The largest number are in France (Gries, PEP ecopassport), Germany (IBU) and the USA (UL Environment). A small but growing number have been produced by UK companies.

The largest product groups in terms of published EPD include insulation, floor coverings, gypsum products, paints, precast concrete, ready mix concrete and mortars, metal products, windows and doors.

Many EPD programmes are now providing their EPD data digitally for use within BIM and building LCA tools. Some are providing this free whilst others charge and/or require the data use to be approved.

ASBP Briefing Papers

- EPD – An Introduction
- EPD – How to Use
- EPD – Where to Find Them
- ...



Jane Anderson

Gallery View

Recording...

ASBP



Mute

Start Video

Participants 2

Q&A

Polls

Chat

Share Screen

More

End Meeting

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