

# CARBON REPORTING WEBINAR

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CHRIS HARNAN AND LUKE DEAMER  
EFFC Sustainability Working Group



# THE SPEAKERS



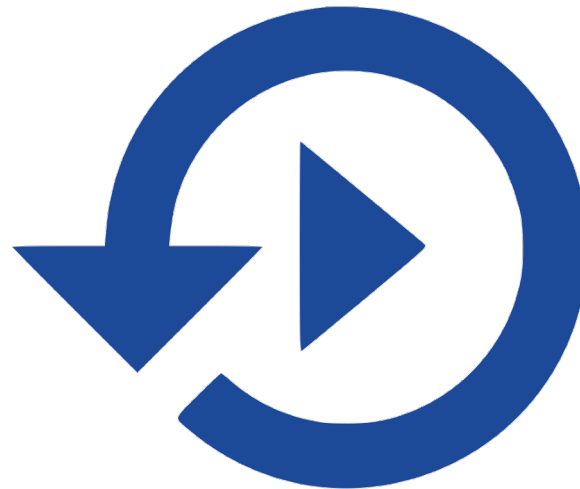
Chris Harnan  
*Managing Director at Ceecom Consult  
and EFFC Sustainability WG Chair*



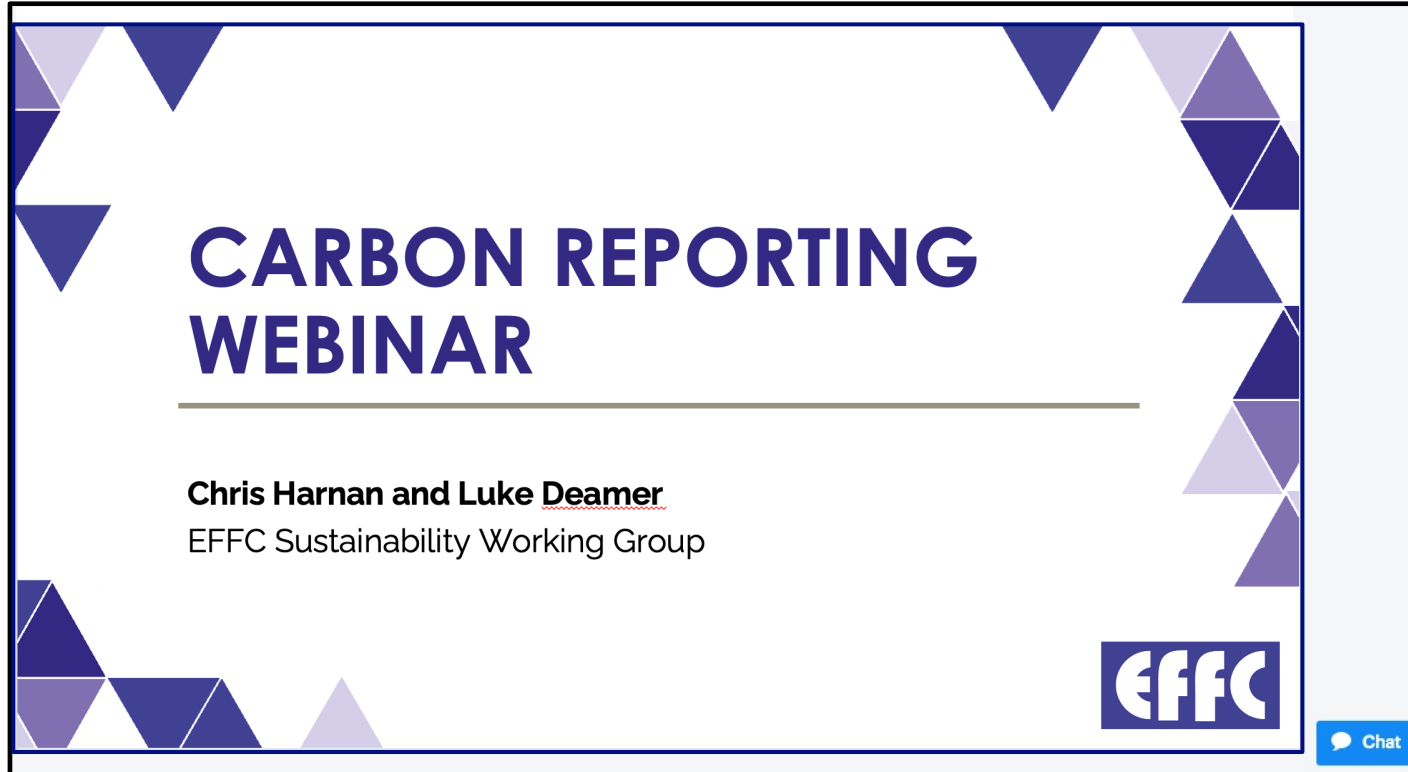
Luke Deamer  
*Group Sustainability Manager at Keller  
and EFFC Sustainability WG Member*

# HOUSEKEEPING

A replay of the webinar will be available on the Effic website and presentations will be available for download.



# BIG MARKER



**CARBON REPORTING  
WEBINAR**

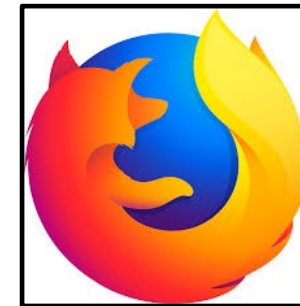
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**Chris Harnan and Luke Deamer**  
EFFC Sustainability Working Group

**EFFC**

Chat

The slide features a decorative border of dark blue and light purple triangles. The text is centered and uses a bold, sans-serif font. A horizontal line separates the title from the speakers' names. The EFFC logo is positioned in the bottom right corner of the slide area, and a small blue chat icon is located in the bottom right corner of the overall frame.



# Q&A

**CARBON REPORTING WEBINAR**

**Chris Harnan and Luke Deamer**  
EFFC Sustainability Working Group

**effc**

**Q&A** Polls Handouts

All Answered

Welcome to EFFC Carbon Reporting Training Webinar. If you have a question for Chris or Luke, please place it in the Q&A.

No questions.



# EFFC: WHAT WE DO & WHO WE ARE

The European Federation of Foundation Contractors represents 17 European National Federations and 8 Associate Members across Europe.

## **Mission Statement**

Our mission is to promote the common interest of Members in achieving the highest professional standing of special foundations work across Europe.

## **Objectives**

- Improve standards of workmanship, technical competence, safety and innovation
- Create and maintain an effective network amongst the Members of the Federation and with its Stakeholders
- Express the point of view of Members with the European Commission, Authorities, Professional Institutions and other Federations and Third Parties



# MEMBERS

**AUSTRIA**  
VOEBU: 44

**BELGIUM**  
ABEF: 12

**CZECH REP.**  
ADSZS: 16

**DENMARK**  
3

**FRANCE**  
SOFFONS: 28

**GERMANY**  
HDB: 41

**HUNGARY**  
AVS: 4

**ITALY**  
AIF: 44

**NETHERLANDS**  
NVAF: 77

**POLAND**  
PZWFS: 23

**PORTUGAL**  
5

**ROMANIA**  
ARCF, 5

**SPAIN**  
AETESS: 15

**SWEDEN**  
SAFE: 40

**SWITZERLAND**  
INFRA: 31

**TURKEY**  
6

**UK**  
FPS: 22

- TOTAL: 17 Federations
- APPROX. 416 Contractors
- 8 Associate Members across the supply chain

# COMPANY CARBON REPORTING



**What?**



**Why?**



**How?**





# What?

What is the carbon footprint of a geotechnical company?

# SUSTAINABLE DEVELOPMENT GOALS

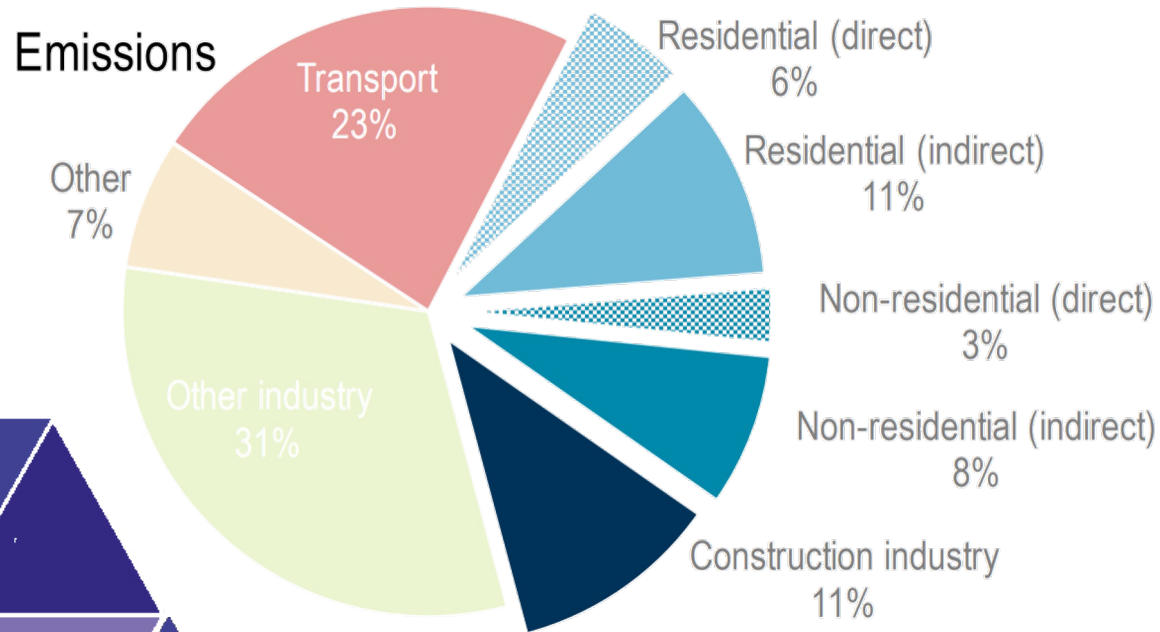


# SUSTAINABLE DEVELOPMENT GOALS



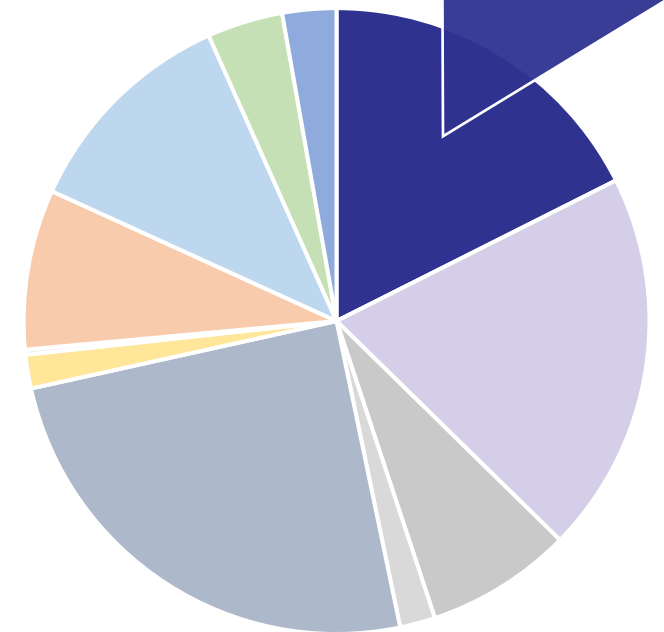
# OUR CARBON IMPACT

Construction accounts for 11% of global emissions (& impacts 62% indirectly)



[IEA, 2019](#)

Foundations account for 15-23% of the average building embodied carbon

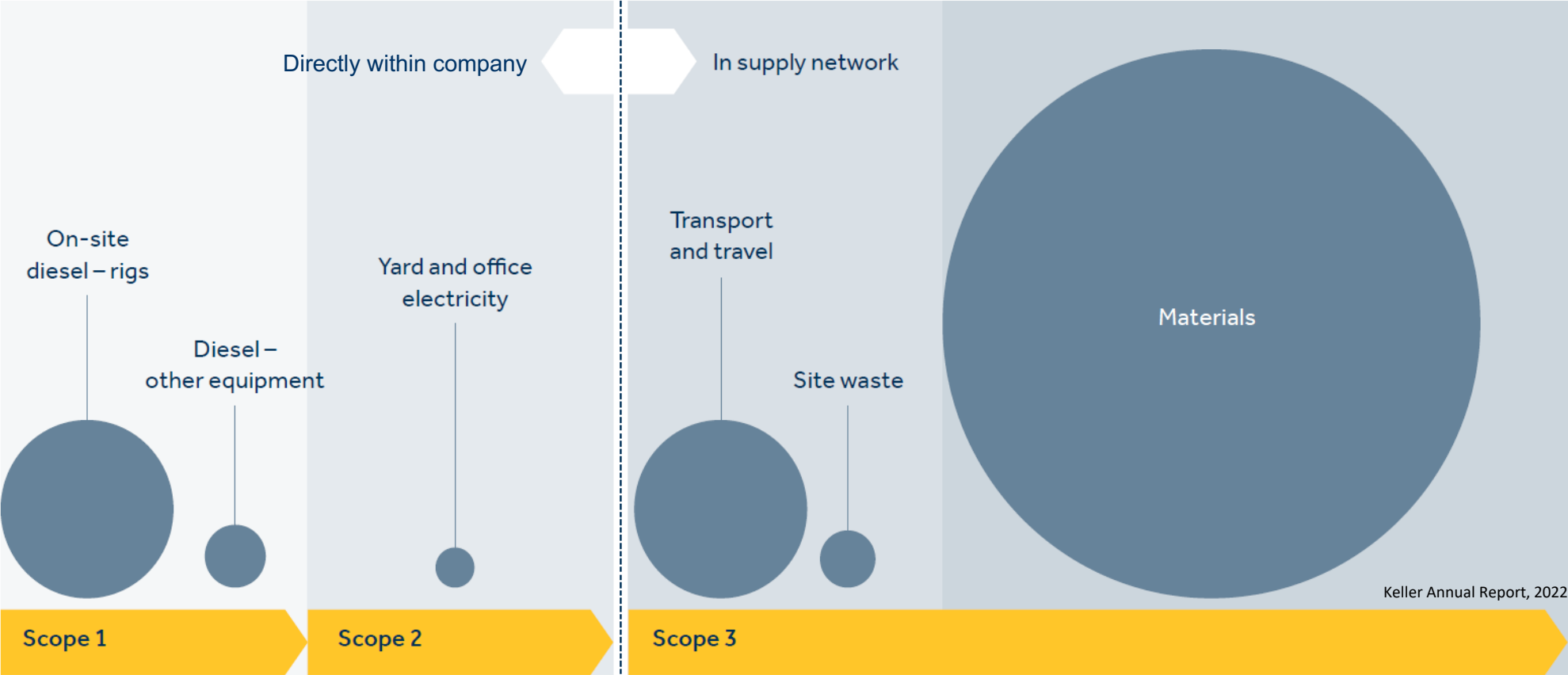


[Wrap, 2015](#)

- Foundations
- Frames
- Upper floors
- Roof
- Ext walls & windows
- Internal walls
- Doors
- Finishes
- M&E



# EMISSION SCOPES



Direct emissions e.g. fuel use

Indirect emissions from electricity use

Other indirect emissions e.g. material use

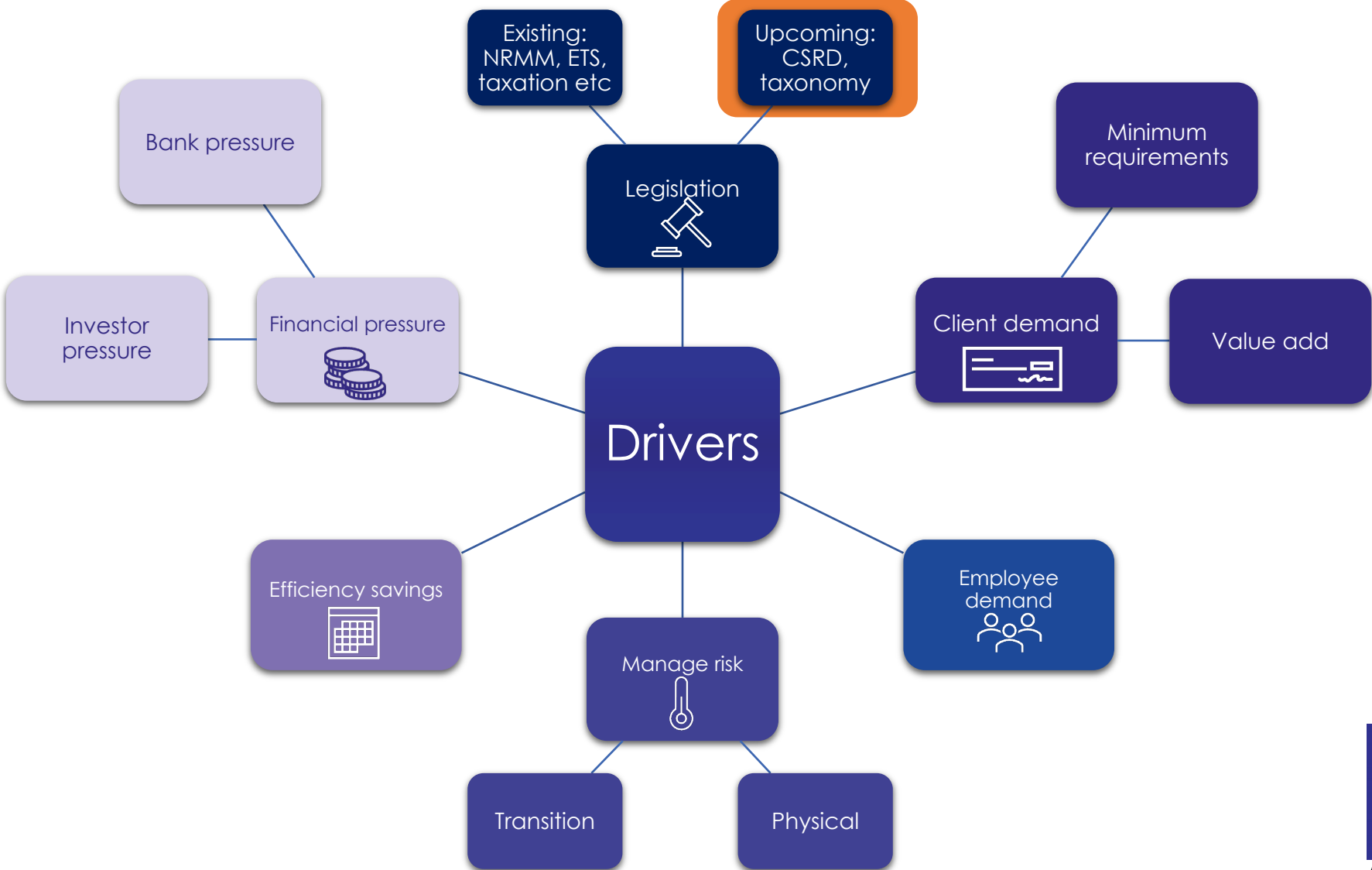




# Why?

Why should geotechnical companies measure their emissions?

# DRIVERS OF SUSTAINABILITY

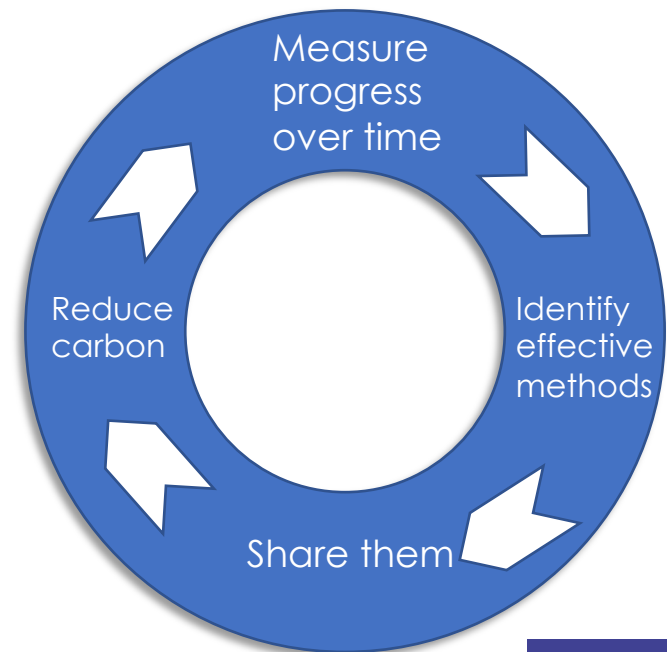


# “If you can’t measure it, you can’t manage it...”

Decarbonising our economies by 2050 is a legal requirement in the EU, UK and many other countries...

The first step is to measure and understand our carbon consumption

Set a baseline for our Scope 1/2/3 carbon emissions





# REPORTING ON CARBON IS NOT NEW...

The EU's European Green Deal and Sustainable Finance Agenda seek to embed sustainable business practice into how finance is awarded. The Corporate Sustainability Reporting Directive is a direct legally binding implementation of these policies.

- Larger listed companies have been reporting their emissions under the Non-Financial Reporting Directive (NFRD) for some years
- However, the new **Corporate Sustainability Reporting Directive (CSRD)** was approved by the EU Parliament in June and has just been passed by the EU Council.
- It will be implemented over the next 18 months
- **It brings onerous new reporting requirements directly and indirectly throughout the construction supply chain – including Scope 3**

# CSRD AND TAXONOMY



## Taxonomy

- Applies from 2024/2025 to companies with two or more of:
  - **Net turnover > €40 m**
  - **>250 employees**
  - Balance sheet total > €20 m
  - Proportional reporting for smaller companies
  - Our clients will have to report our emissions too
- Requires companies to report and be audited on:
  - **Climate change**; pollution; water and marine resources; biodiversity and ecosystems; Resource use and circular economy

- Applies already:
  - EU COVID recovery fund projects worth €750 billion
  - EU central bank and private banks committed to taxonomy compliance
- Requires companies to have a positive impact on one of:
  - **Climate change mitigation** & adaptation; water and marine resources; circular economy; pollution; biodiversity and ecosystems
  - Also requires no negative impacts on all others

# CSRD TIMETABLE

- **1st January 2024:** CSRD applies to companies currently subject to NFRD
- **1st January 2025:** CSRD applies to **large companies** not currently subject to NFRD

# CSRD IMPACT FOR CONTRACTORS

- NFRD covers 11,600 companies currently.
- CSRD will encompass 49,000
- Smaller companies outside of the scope will also have 'proportionate' requirements in time
- There is no escape!
  - Main contractors & clients will need emissions data from their supply-chain to comply
  - They will have audited carbon reduction plans and will drive this down the chain
  - Carbon savings and low/no carbon will be in your tenders because their finance requires it
- All data is required to be 3<sup>rd</sup> party audited and published on a single European Access Point website. This will be accessible to all.

# WHAT IS IT AND WHY'S IT IMPORTANT?

European Financial Reporting Advisory Group has prepared 12 **European Sustainable Reporting Standards** (ESRS). Numbers in brackets show the number of Disclosure Requirements in each Standard.

- ESRS 1 General principles
- ESRS 2 General, strategy, governance and materiality disclosure [9]
- ESRS E1 Climate change [11]
- ESRS E2 Pollution [6]
- ESRS E3 Water and marine resources [5]
- ESRS E4 Biodiversity and ecosystems [6]
- ESRS E5 Resource use and circular economy [6]
- ESRS S1 Own workforce [17]
- ESRS S2 Workers in the value chain [5]
- ESRS S3 Affected communities [5]
- ESRS S4 Consumers and end-users [5]
- ESRS G1 Governance, risk management and internal control [6]

Within ESRS E1, energy consumption and energy mix (the proportion of electricity from renewable vs non-renewable sources), as well as Scope 1, 2, and 3 emissions will all have to be declared, in both actual values and as intensities based on net revenue

Find them all [here](#)

# WHERE DOES THE EFFC COME IN?

Geotechnical contractors under NFRD will need to change their reporting practices. Those falling under the new CSRD will require major change to their recording regimes.

EFFC is here to help kick-start that change: via our reporting initiative we will help

1. Companies calculate their own emissions
2. Benchmark your performance by compiling the first geotechnical sector-wide carbon data

**CSRD emissions data is mandatory in the EU from 1 Jan 2024 (Public Companies) and 1 Jan 2025 (all companies with sales > €40m and 250 employees).**

EFFC will publish data quarterly in a totally anonymous format, all in accordance with the proposals agreed by the EFFC Executive Committee at the Budapest Meeting in April 2022.





# How?

How can we measure company emissions and reductions?

# PROJECTS: EFFC-DFI CARBON CALCULATOR

Breakdown project emissions by source (certified ISO 14067, GHG Protocol & PAS 2050)

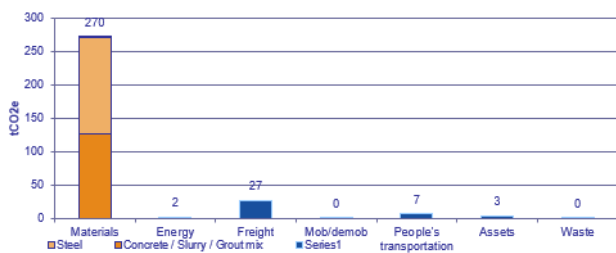



 Company logo

EFFC DFI Project Carbon Calculator

Company		<b>Emission factor database :</b> EFFC DFI methodology recommended emission factors 1 added emission factors
Project	Trial 2	
DATE	00/01/1900	
Author	00/01/1900	
Country	United Kingdom	<b>Total</b> <b>310 tCO2e</b>
Project value	0 £	

Materials	270 tCO2e
Concrete / Slurry / Grout mix	130 tCO2e
Steel	140 tCO2e
Other	1 tCO2e
Energy	2 tCO2e
Freight	27 tCO2e
Mob/demob	0 tCO2e
People's transportation	7 tCO2e
Assets	3 tCO2e
Waste	0 tCO2e



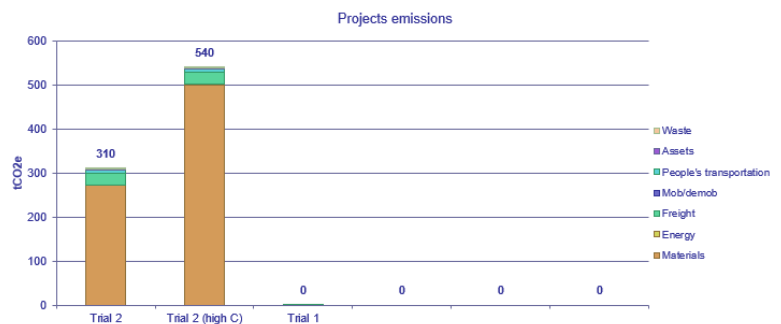
Compare the carbon intensity of different geotechnical solutions for a project (absolute & relative)




 Company logo

Comparison sheet (1/2)

	Trial 2	Trial 2 (high C)	Trial 1				
Materials	272	499	0				tCO2e
Energy	2	3	0				tCO2e
Freight	27	26	0				tCO2e
Mob/demob	0	0	0				tCO2e
People's transportation	7	7	0				tCO2e
Assets	3	3	0				tCO2e
Waste	0	0	0				tCO2e
<b>Total</b>	<b>310</b>	<b>540</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>tCO2e</b>
Working days	100	100	5				days
Workforce	10	10	2				Full-time equivalent
Project value	0	1,000,000	1,000				unit problem
Functional unit 1	value	1,000,000	value				unit problem
Functional unit 2	value	20,000	value				unit problem





# COMPANY: EFFC CARBON REPORTING

Helps companies calculate Scope 1 & 2 emissions, both absolute & relative to revenue

Helps baseline Scope 1, 2 and 3 emissions for entire sector

Helps companies anonymously compare their performance vs average in sector

## EFFC Carbon Calculations

 Daniel Ball <Daniel@forumcourt.co.uk>  
To Deamez, Luke  
This message was sent with Low importance.

Hi,  
Based on your recent submission to the EFFC Carbon Calculator Microsoft Form, your calculated emissions figures are as follows:

Total 1 Scope Emissions : 100 tCO2e  
Total 2 Scope Emissions : 100 tCO2e  
Total 3 Scope Emissions : 0 tCO2e  
Total 1 Scope Emissions/€million : tCO2e/€million  
Total 2 Scope Emissions/€million : tCO2e/€million  
Total 3 Scope Emissions/€million : tCO2e/€million

If you have any questions, please let us know.

Have a great day.

## Geotechnical Company Carbon Insights

### Carbon Reporting (Scopes 1 and 2) - Fuel and Electricity Use Figures

12. Gasoline or Petrol consumption for quarter (litres)

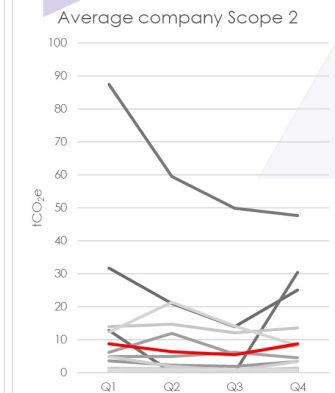
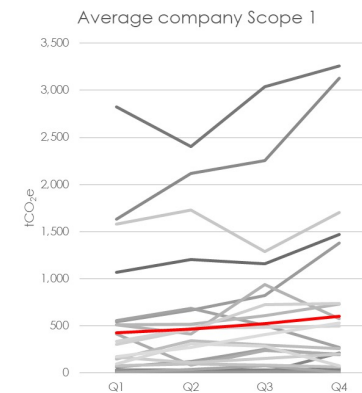
The value must be a number

13. Diesel consumption for quarter (litres)

The value must be a number

14. Natural Gas consumption for quarter (m3)

The value must be a number



# CARBON REPORTING WEBINAR – Q&A

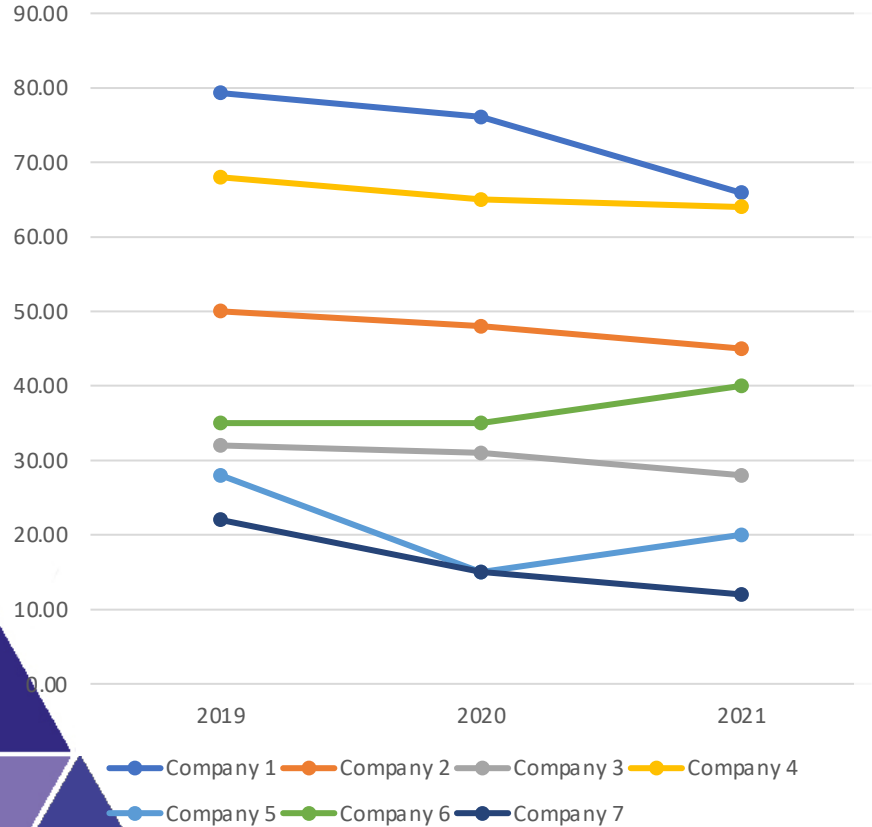
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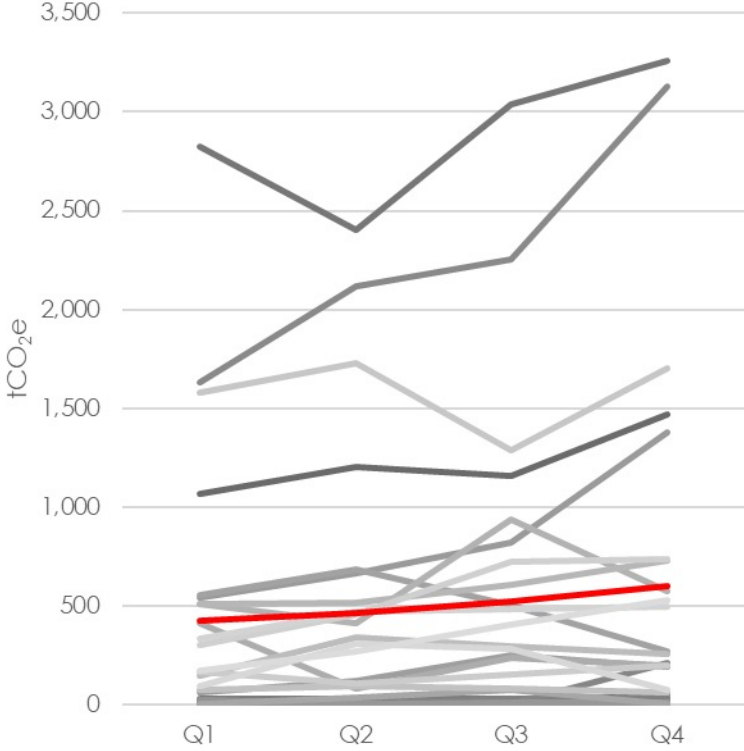


# EXAMPLE BASELINING IN ACTION

CO2e/€m revenue



Average company Scope 1



Average company Scope 2

