

EFFC / DFI Carbon Calculator

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10 april 2013



Agenda

- 1 Aanleiding voor een tool
- 2 Ontwikkelproces
- 3 Werking van de tool
- 4 Tot slot



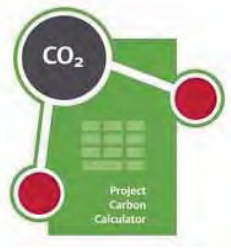
- Meetbaar maken van de impact van onze activiteiten op het milieu
- Inzicht kan ook leiden tot efficiëntie = €
- De klant meenemen in duurzame afwegingen
- Innovatie bevorderen
- Nog geen eenduidige rekenmethode die Europese/Wereldwijde projecten kan vergelijken

Doelen EFFC / DFI

- Maatregelen treffen om duurzaamheidsbewustzijn te vergroten
- De leden voorzien van een tool waarmee projecten en technieken vergeleken kan worden
- De tool moet simpel, transparant, volledig en eenduidig zijn

1

Aanleiding voor een tool



- Verschillende bestaande initiatieven
- 1 taal gewenst
- Gebruik maken van de huidige kennis

2

Ontwikkelproces



EFFC-DFI Carbon Calculator werkgroep

Name	Company	Representing
Martin Stanley	Bachy Soletanche UK	UK (FPS)
Tony Suckling	Balfour Beatty GE	UK (FPS), DFI
Colin Semrge	Balfour Beatty GE	UK (FPS)
Inge van Baardwijk	BAM Infraconsult bv	Netherlands (NVAF)
Luca Brenelli	Brenelli Costruzioni	Italy (AIF)
Anthony Fisher	Cementation - Skanska	UK (FPS)
Pedro Avellanosa	Geocisa	Spain
Vincent Joannes	JHC	DFI - Europe
Alexander Zohrer	Keller Holding GmbH	Germany
Luca Bruni	Servizi e Costruzioni	Italy (AIF)
Antoine Requin	Soletanche Bachy	France (SOFFONS)
Manne Lasne	Soletanche Freyssinet	France (SOFFONS)



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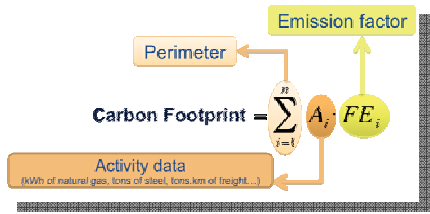


2

Lijst met technieken

2012	Bored piles
	Displacement piles
	Micropiles
	Diaphragm and slurry walls
	Sheet pile walls
	Soil Mixing
	Grouting

2013	Bored pile walls
	Soldier pile walls
	Anchors
	Soil Nails
	Dynamic compaction
	Vibro compaction
	Jet Grouting
	Stone Columns
	Vertical Drains
	Dewatering
	Underpinning
	Horizontal Drilling



Emissie factor in [kg CO2e / eenheid]

CO2-equivalenten = naast CO2 ook andere broeikasgassen Methaan, Stikstofdioxide, etc verantwoordelijk voor klimaatprobleem

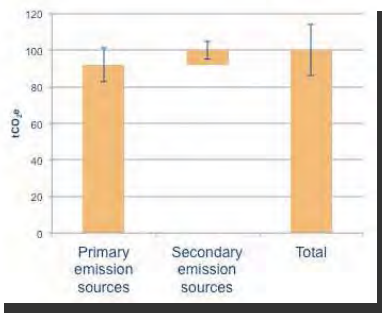
Waarom wordt CO2 veroorzaakt?

Primaire emissie bronnen

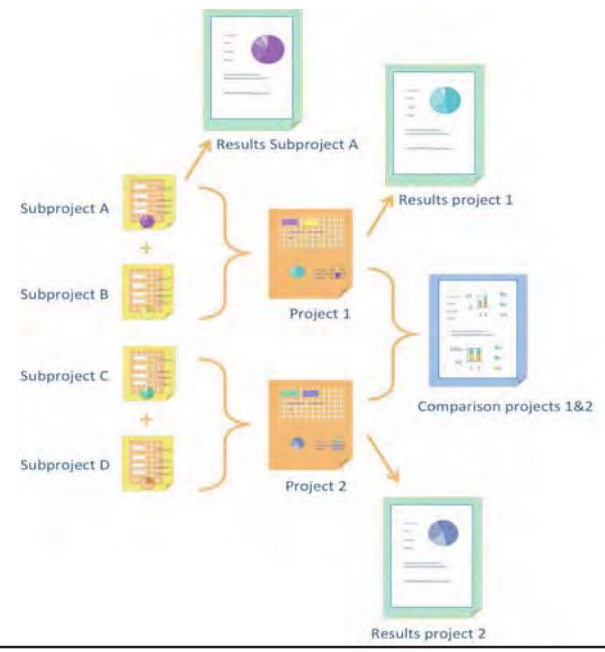
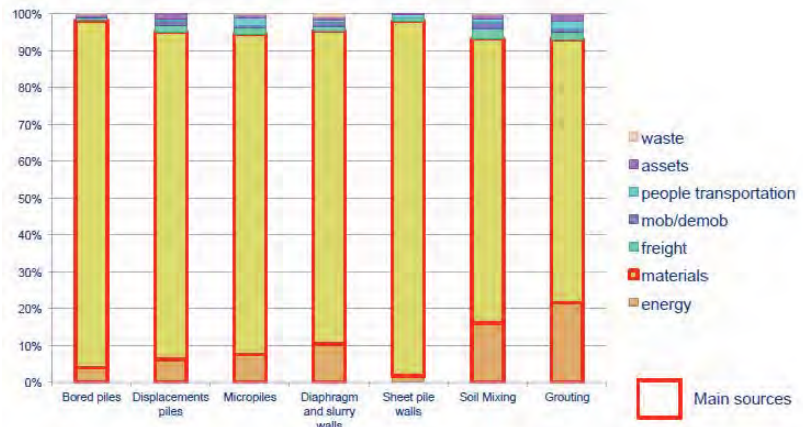
- Materialen (productie ervan)
- Transport materialen
- Energie op de bouwplaats (diesel, elektriciteit)

Secundaire emissie bronnen

- Aan en afvoer (hulp)materieel
- Transport personeel
- Levensduur materieel
- Transport afval



Vergelijking 7 technieken fase 1:



Oplevering tool

Juni 2013



EFFC Carbon Calculator [Log In/Register to Download!](#)

What is the Foundation CO₂ Calculator?

The EFFC and DFI have created a tool that will calculate the CO₂ emissions of foundation and geotechnical works. It is designed to allow contractors and commissioning organisations alike to assess the carbon footprint of their projects.

The Foundation CO₂ Calculator has been developed using verifiable, standardized data to enable accurate benchmarking of competing project proposals. Prior to its development there existed no single standardized tool for calculating CO₂ emissions for these types of ground works.

The tool also allows contractors to compare and contrast different technical approaches within the same project and see what the CO₂ emissions will be. Furthermore it can be used throughout a project's development to compare how it performed against expectations.

Uses of the Foundation CO₂ Calculator

The tool is easy to use and enables:

Foundation designers and contractors:-

- evaluate the carbon footprint of your designs
- compare the carbon footprint of alternative designs
- compare pre-project projections of carbon emissions with post-project measurements

Clients:-

- compare pre-project projections of carbon emissions, with post project measurements
- compare the carbon footprint of one proposal against another
- compare pre-project projections with post-project measurements

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The European Federation of Foundation Contractors (EFFC)
The Deep Foundations Institute (DFI)

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Bedankt, vragen?

