Embodied Carbon in Glazing and Fenestration: EC3 Demo and Q&A

Wednesday, August 24, 2022 | 2:00 pm – 3:00 pm (Eastern)

1. Intro to Building Transparency and the EC3 Tool
2. Overview of glazing/fenestration category development project for the EC3 tool
3. Demo
4. Q&A

Prepared by:
Phil Northcott and Mikaela DeRousseau
Phil.Northcott@c-change-labs.com
Mikaela.Derousseau@BuildingTransparency.org
ABOUT BUILDING TRANSPARENCY
Washington State 501c(3) nonprofit dedicated to sustainability in construction.

Building Transparency’s core mission is to provide open access data and tools necessary to enable broad and swift action across the building industry in addressing embodied carbon’s role in climate change.

Embodied Carbon in Construction Calculator
Free to use | Open access

Find & Compare Materials
Simple sorting and visualization of supply chain specific EPD data, with the ability to see material category baselines and set material category targets.

Plan & Compare Buildings
Simple visualization of a project’s potential and realized upfront embodied carbon emissions, with the ability to see conservative baselines and set achievable reduction targets.

EC3 PARTNERS

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Project Leadership
Growth of EPD Availability Over Time

WHERE IS EC3 USEFUL?... PROCUREMENT

Tools and workflows

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Tools and workflows
GLAZING/FENESTRATION CATEGORY DEVELOPMENT PROJECT

- Iterative process to decide category layout, correct nomenclature, critical specifications that affect embodied carbon
- 'Calculators' for quantifying embodied carbon of assembly products (IGU, curtain walls, windows)
- Participants from NGA, FGIA, company representatives
- 20 working group meetings from July 2021 to present

New EC3 Categories and Calculators

HELP AND GUIDANCE FROM:

Andrea Zani – Permasteelisa Group
Casey Anderson – ICD Coatings
Dan Parrish – Pella Corporation
Helen Sanders – Technoform
Ivan Zuniga – Kawneer
Jon Griggs – Guardian Glass
Jon Smieja – Andersen Corp
Jason Seals - FGIA
Kayla Natividad – NSG Pilkington
Kevin Seiling - VEKA
Karen Wegert – NGA

Mark Cody - AGC
Maure Creager – Saint Gobain
Mike Hammond - Vitro
Richard Braunstein – Oldcastle
Robert Grommesh – Cardinal Glass
Samantha Schneider – Saint Gobain
Stanley Yee – Dow
Tom Bougher – Oldcastle
Tony Vella – Vex Group
Urmilla Jokhu-Sowell – NGA
Yuwadee Senamontree – Guardian Glass

THANKS!
PROJECT DEMO

BuildingTransparency.org
- Video tutorials

FUTURE/ONGOING WORK

- Calculators for quantifying emissions for assemblies
  - E.g. Curtain Walls
- Refining keywords to ensure EPD information is captured correctly

FGIA Future Webinars *(Tentative)*

- ASCE/SEI 7 Overview
- Introduction to New Version of NAFS and Significant Revisions
- When to Use AAMA 508 vs. AAMA 509
- Testing High-Performance Gas Filled IG – Part 2
- Compliance Requirements of Energy Advisors

[fgiaonline.org/webinars](fgiaonline.org/webinars)

*Check our website for registration details.*
NGA Upcoming Webinars

Impacts and Opportunities of the Inflation Reduction Act
September 7, 2022 | webinar

Thirsty Thursday Webinar: The Glazing Industry’s Impact on Active Shooter Standard
September 15, 2022 | webinar

Visit glass.org/events/webinars to learn more!

GlassBuild America
October 18-20, 2022 | Las Vegas, NV

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THANK YOU!

Building Transparency EC3

with FGIA NGA