

Embodied Carbon in Glazing and Fenestration

EC3 Demo and Q&A

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



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

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



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ABOUT BUILDING TRANSPARENCY

Washington State 501(c)(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.

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EC3 PARTNERS



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Methodology Partners



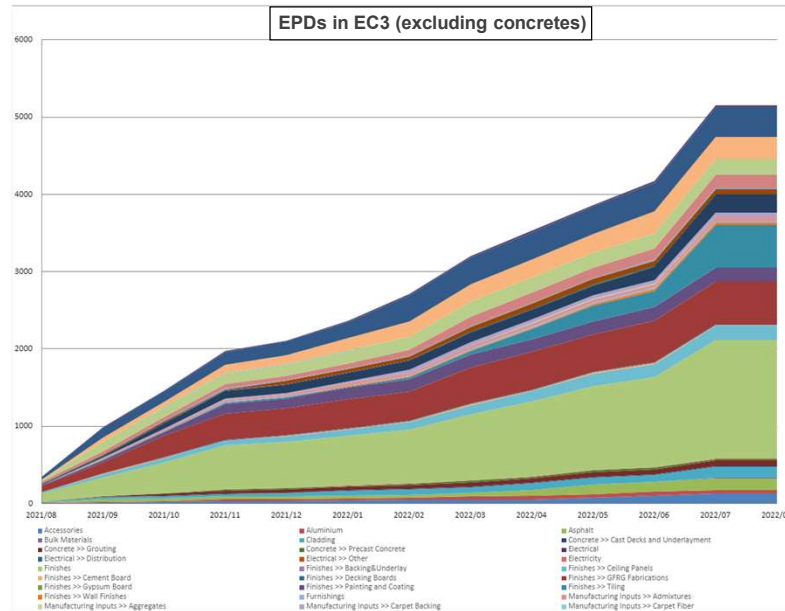
Project Leadership



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Growth of EPD Availability Over Time



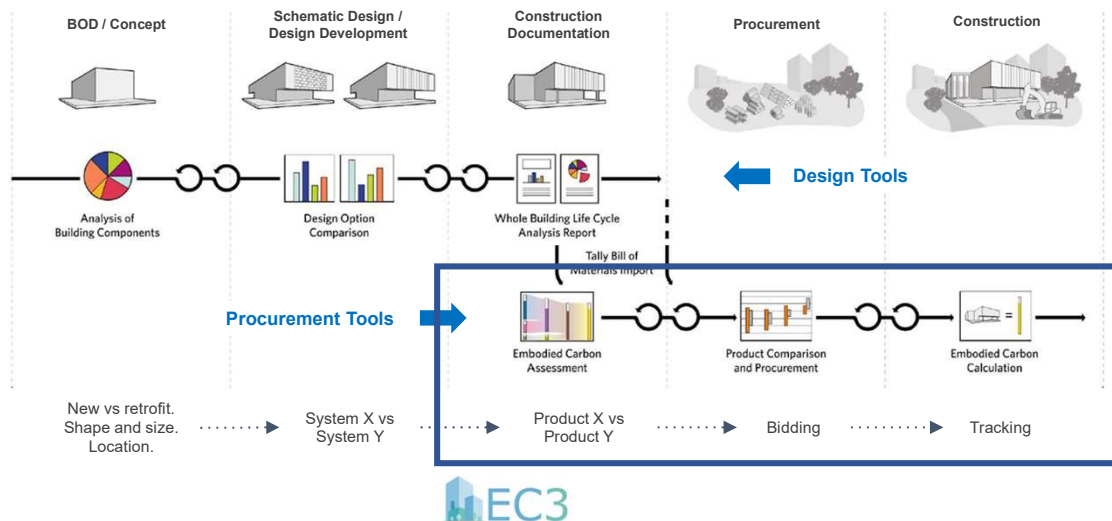
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WHERE IS EC3 USEFUL?... PROCUREMENT



Tools and workflows



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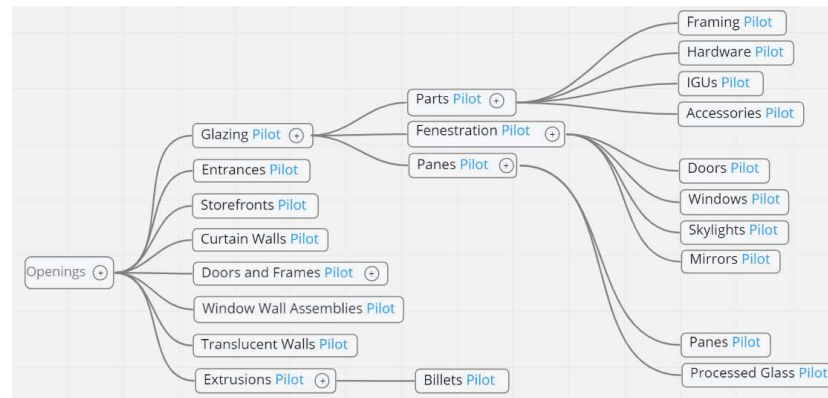
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GLAZING/FENESTRATION CATEGORY DEVELOPMENT PROJECT



- 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



*Does not show all child categories

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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!

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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



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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

Check our website for registration details.



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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!



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GlassBuild America

October 18-20, 2022 | Las Vegas, NV

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THANK YOU!

