

BUILDINGENERGY BOSTON

Carbon Storing Buildings: A Gateway to Justice and Belonging

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Curated by Stephen Stuart

**Northeast Sustainable Energy Association (NESEA)
March 29, 2023**

Learning objectives

- Participants will discover and appraise the development of both organizations to identify the ways in which theoretical goals can be translated into improved, scalable practice.
- Participants will evaluate the manner in which both organizations incorporated their values into building projects and products and can make associations with their own practices.
- Participants will identify strategies used by the presenters that have resonance and applicability to their own practices, and how lessons learned can be useful to the industry.
- Participants will engage in discussion about the ways in which such goals and ideals can be further embedded in their own practices and scaled into our industry as a whole.

Why Climate Justice in Buildings: Stakes & Opportunities



Eve, Elio, Marina, José, and Nacho at the Gryphon Straw Panel fabrication shop at New Frameworks

Trans and
non-binary
folks and
women

Black &
Indigenous
& people
of color

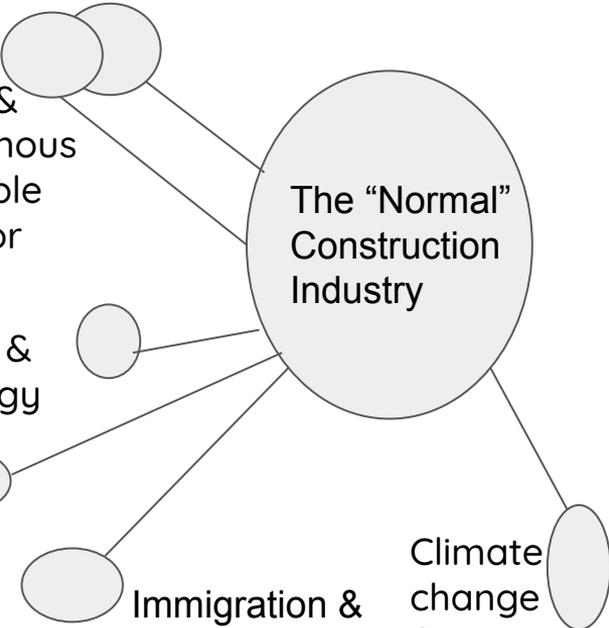
Earth &
Ecology

Natural
materials

Immigration &
migration

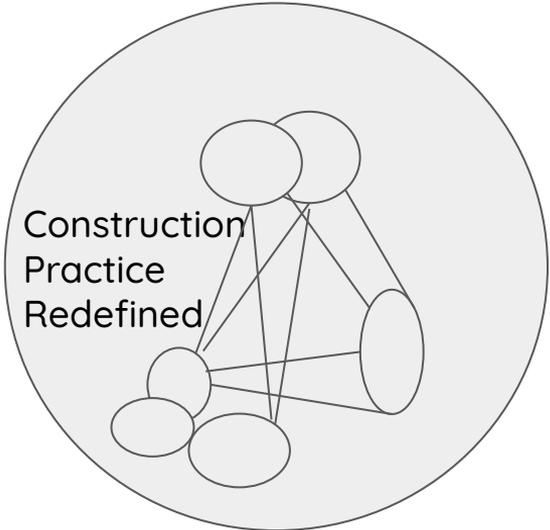
Climate
change
&
healing

The "Normal"
Construction
Industry



Redraw, now:

Construction
Practice
Redefined



Why Carbon Storing Buildings: Stakes & Opportunities



Carbon Storing, Climate Just Buildings: Opportunities

Round 1: Building the Team



Round 2: Relationship with Earth



Round 3: Scale



**BUILDING EMISSIONS
ACCOUNTING** FOR MATERIALS

BEAM : A Tool For Climate Action!

Round 1: Building the Team for Climate Justice



Deirdre McGahern, Strawworks, Inc.



Gryphon by New Frameworks & Migrant Justice



**Organizing for
Immigrant Rights
& Agricultural
Justice**

migrantjustice.net



Dave
Kenyon,
Nitty Gritty
Grain
Company,
Charlotte



Eve, Nacho, Eliana, José, and Marina at the
Gryphon by New Frameworks Shop

Reflection/Discussion - In The Next 6 months:

- Opportunities to grow my team or partnerships include...
- Some skills I need to develop to successfully build a diverse team are...
- Resources I can use to support myself and/or my team are...
- Local or regional groups I can build relationships with to help me grow my team could be...

Round 2: Centering Human Relationship with Earth

Zero House,
Endeavour Centre



“Humans can make Earth
better where we stand” -
Leah Penniman, founder,
Soul Fire Farm



Zero House, Peterborough, ON - Endeavour Centre



Net zero energy
Net zero embodied carbon
Zero toxins
Zero waste

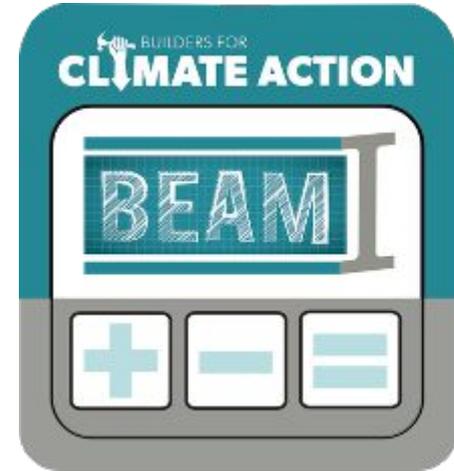
Soul Fire Farm Institute, Mohican Nation (Petersburgh, NY) - New Frameworks



Reflection/Discussion - In The Next 6 months:

- The opportunities I see in my next project to center Earth wellness are...
- The stacked benefits I can see for my project or my work are....
- Metrics I can use to evaluate my projects based on Earth care include...

Round 3: Scale



**BUILDING EMISSIONS
ACCOUNTING** FOR MATERIALS

BEAM : *A Tool For Climate Action!*

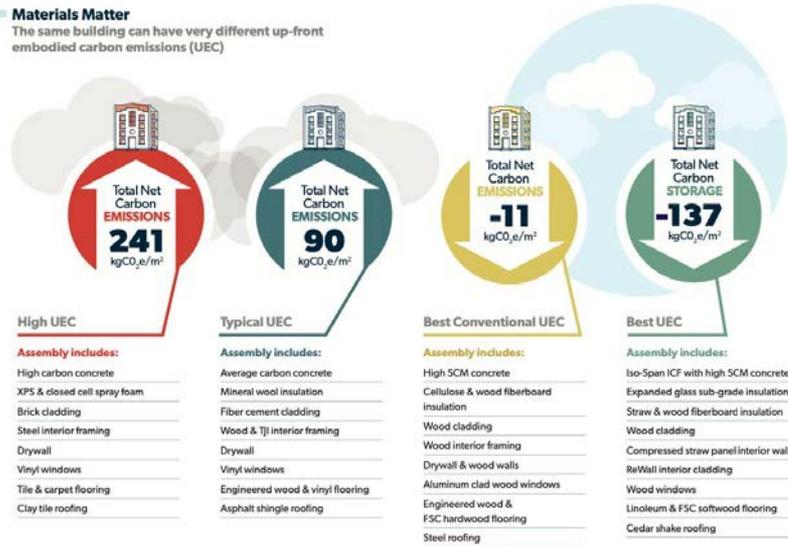
BEAM - Builders for Climate Action

Tool for one project...

Becomes a free tool for all

Materials Matter

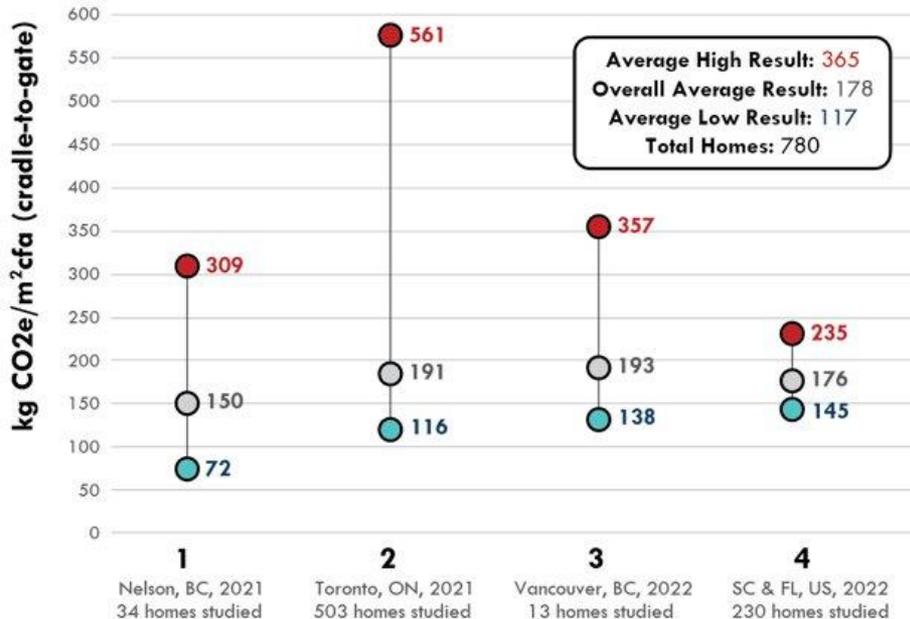
The same building can have very different up-front embodied carbon emissions (UEC)



BEAM - Builders for Climate Action

Studies using tool...

High, Average and Low Embodied Carbon Emissions Results of As-Built Homes 2021-2022



Become incentive program

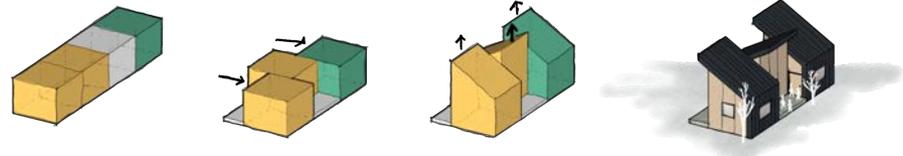
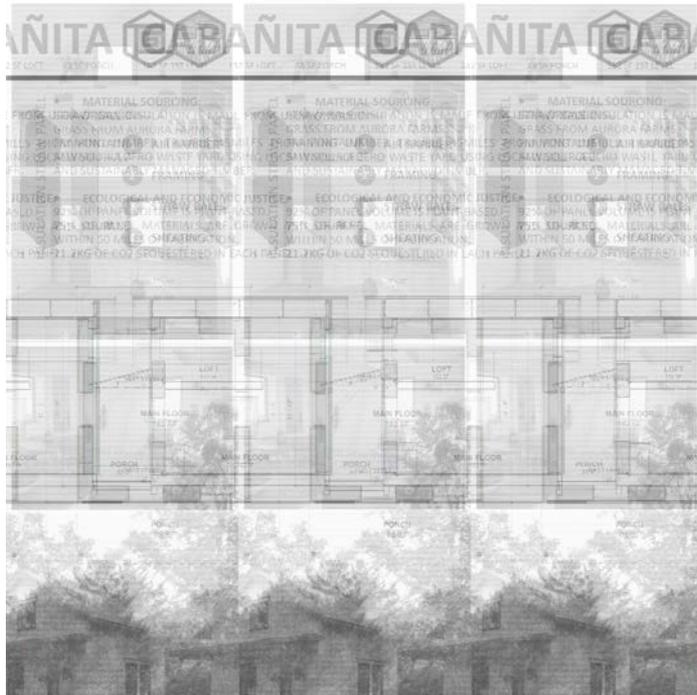


Carbon Reductions	Financial Compensation
30 - 39% [121-140 kgCO2e/m2]	\$5,000
40 - 59% [81 - 120 kgCO2e/m2]	up to \$15,000
60 - 69% [61 - 80 kgCO2e/m2]	up to \$20,000
70 - 79% [41 - 60 kgCO2e/m2]	up to \$30,000
80 - 100% [<40 kgCO2e/m2]	up to \$40,000

Gryphon Straw Panels - Gryphon by New Frameworks

One Cabañita....

Becomes Cabavillas....



Reflection/Discussion - In The Next 6 months:

- The opportunities I see to increase the scale & impact of my work include...
- Resources I can use to increase my potential and reach are...
- Steps I can take to more intentionally align with the climate justice movement include...

Wrap Up & Out

Share out a few things you are committed to doing in the next few months as a result of the work in this session.

Goodbye and thank you!



New Frameworks

www.newframeworks.com



www.buildersforclimateaction.org

Resources

- [“In Vermont, a new model emerges to improve migrant farmworker housing”](#), Energy News Network, May 3 2021
- HELM Construction Solutions’ Breaking Down Gender Bias Toolkit: <https://buildhelm.com/blog/toolkit>, HELM’s [“Building Healthy Culture: Men Dismantling Patriarchy”](#) training, Bootcamp
- Soul Fire Farm: <https://www.soulfirefarm.org/> , Migrant Justice: <https://migrantjustice.net/>
- BEAM Tool: <https://www.buildersforclimateaction.org/beam-estimator.html>
- Gryphon Panels: <https://newframeworks.com/blog/2021/2/12/gryphon-panels-info-amp-impact>
- Zero House: <https://endeavourcentre.org/>, search “Zero House”
- Straworks, LLC: <https://straworks.ca/>
- Carbon Leadership Forum: <https://carbonleadershipforum.org/>
- Pretty Good House: <https://www.prettygoodhouse.org/>