

The Role of Buildings in the Sustainability Movement

Lindsay Baker, CEO
International Living Future Institute

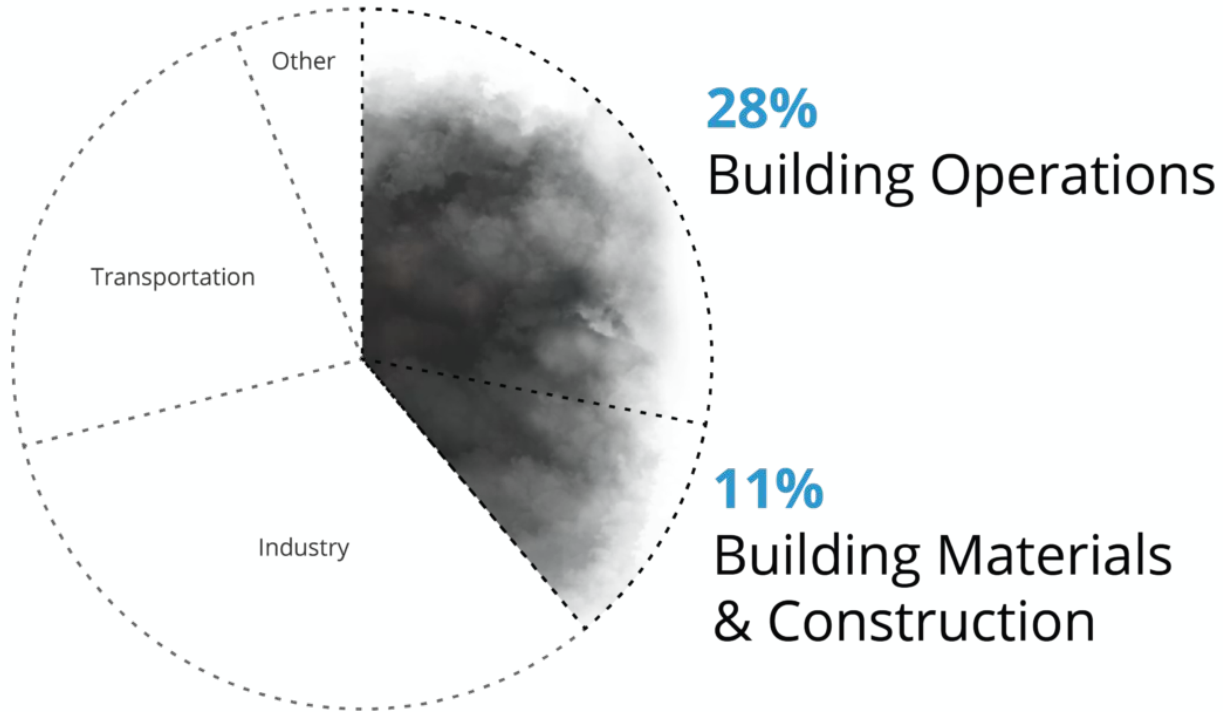


EnergyCap Catalyst
April 2023

**As of November 2022, over 140 countries
have aligned carbon commitments,
representing 90% of global emissions.**

**The US is committed to reducing GHGs by
at least 50% by 2030 (from 2005 levels).**

GLOBAL ANNUAL GLOBAL CO₂ EMISSIONS

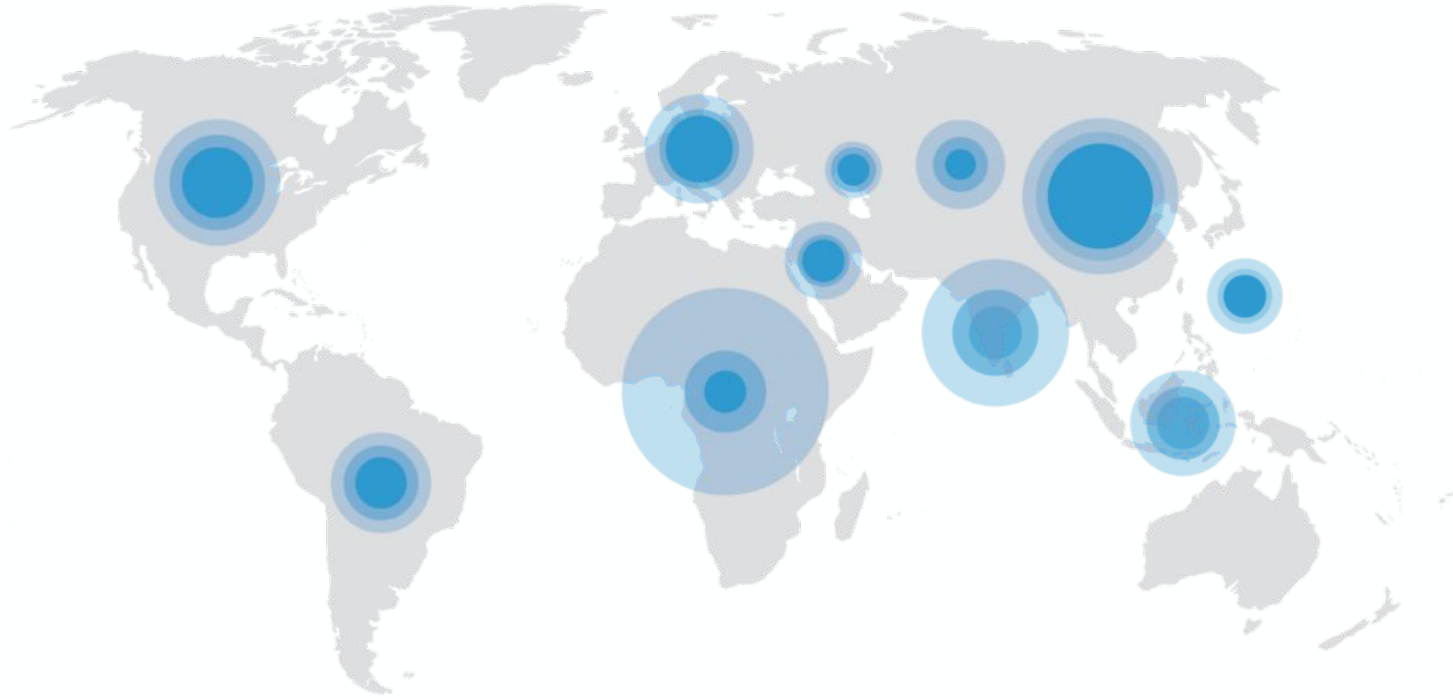


In 2040, $\frac{2}{3}$ of the
global building stock
will be buildings that
exist today.

Without
improvement, they
will still be emitting
greenhouse gasses.



Global building floor area is expected to **double** by 2060.

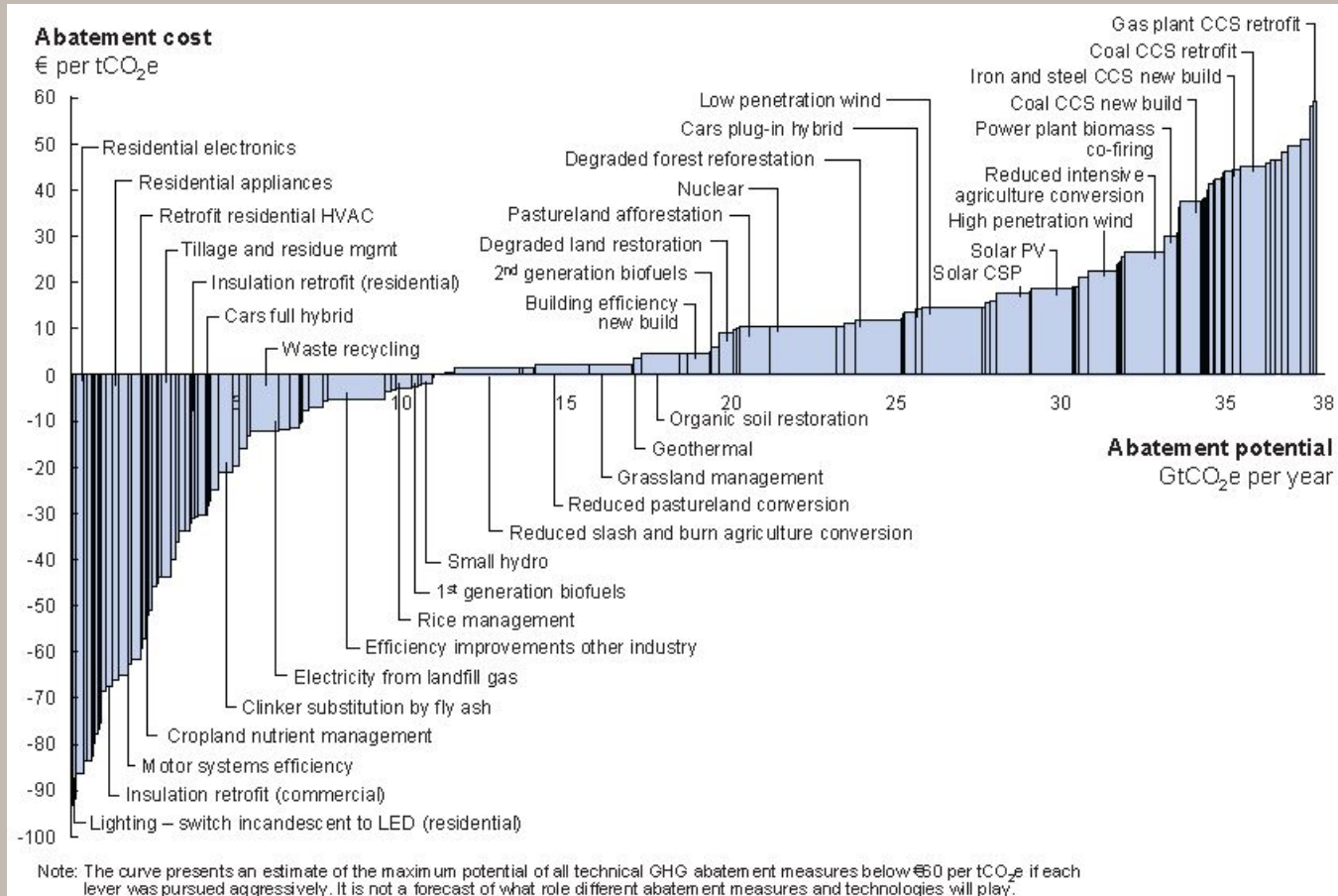


Currently in the US, we renovate buildings at roughly 1% per year (by square footage).

To be in line with a Paris Agreement aligned goal of less than 2°C of overall global warming,

We need to renovate at 3.2% per year.

ENERGY EFFICIENCY IS ONE OF OUR CHEAPEST OPTIONS



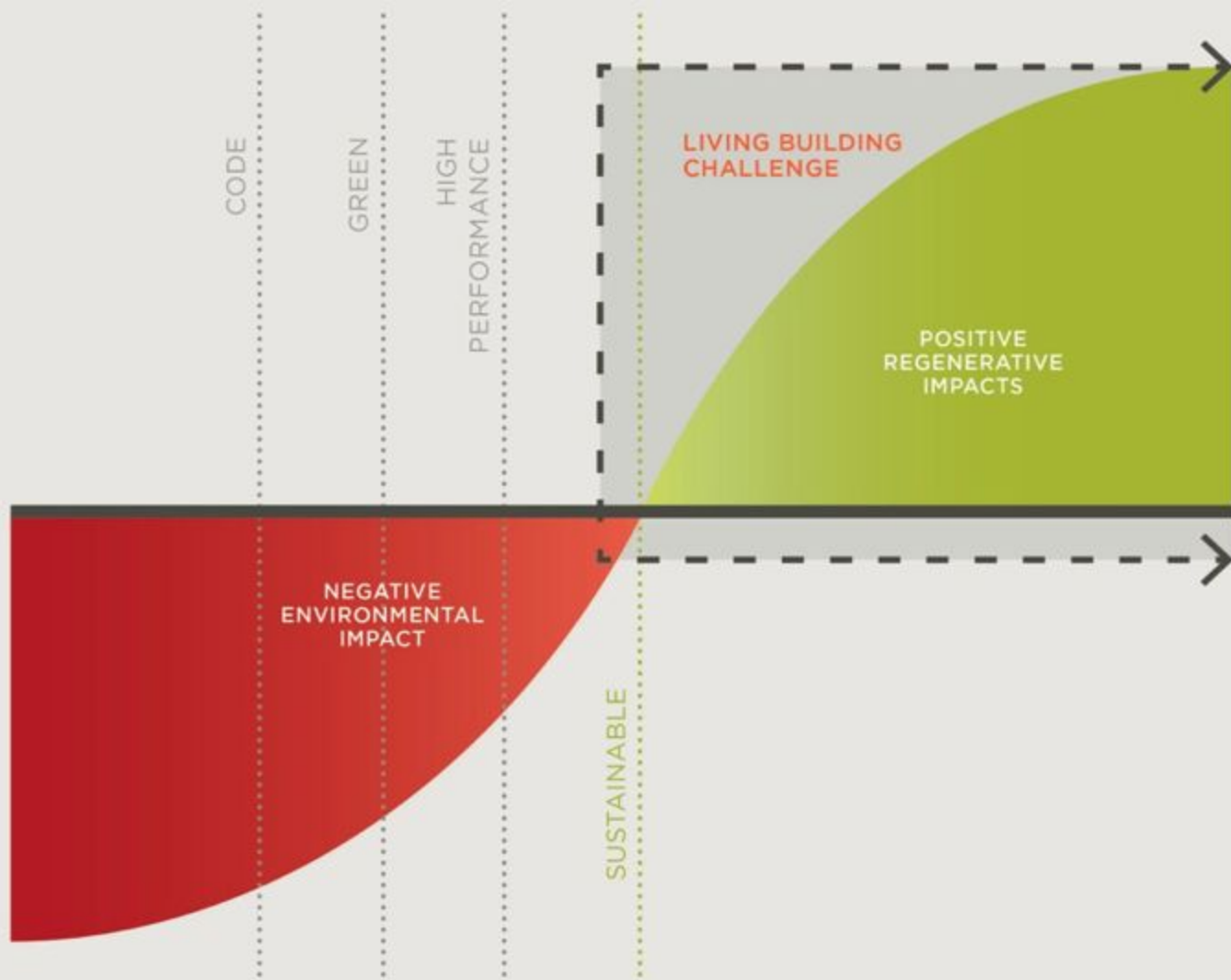


An aerial photograph of a city, likely San Francisco, with a large solar panel array in the foreground. The solar panels are arranged in a grid pattern and are partially covered by trees and other vegetation. In the background, a dense city skyline is visible, including various buildings and a tall tower. The text "WE NEED TO CHANGE HOW WE SEE THE WORLD... HOW WE SEE THE FUTURE" is overlaid on the image in a large, white, sans-serif font.

WE NEED TO
CHANGE HOW WE
SEE THE WORLD...
HOW WE SEE THE
FUTURE



INTERNATIONAL
LIVING FUTURE
INSTITUTE™



OUR PROGRAMS

CERTIFICATIONS



TRANSPARENCY LABELS

Just.

Declare.

Reveal.

EDUCATION

EVENTS

NETWORK





PETALS

PLACE

WATER

ENERGY

HEALTH &
HAPPINESS

MATERIALS

EQUITY

BEAUTY

A photograph of a modern office interior. The ceiling features exposed wooden beams and large, silver, cylindrical ductwork. In the foreground, a man in a blue shirt is seated at a wooden desk, working on a laptop. Other desks and office chairs are visible in the background. A large white circular graphic is overlaid on the right side of the image, containing the text 'OPERATIONAL CARBON' and two sub-points: 'Reduce' and 'Offset'.

OPERATIONAL CARBON

Reduce

site energy consumption
& eliminate combustion*

Offset

with installed or procured
renewable energy

Reduce* carbon in primary materials

Disclose reduction strategies & total embodied carbon

Offset* total embodied carbon

* new materials only

EMBODIED
CARBON





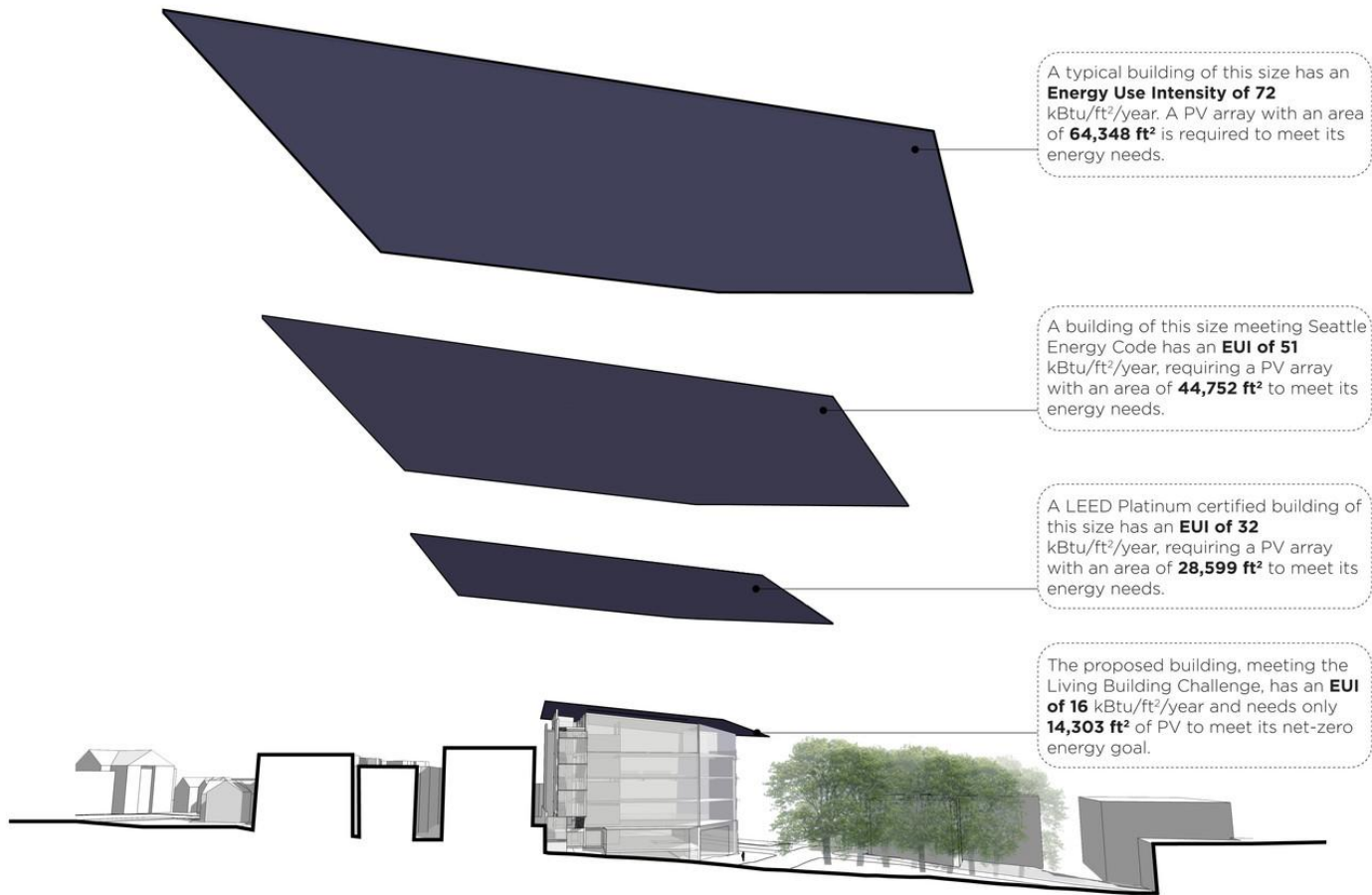
LIVING
BUILDING
CHALLENGE

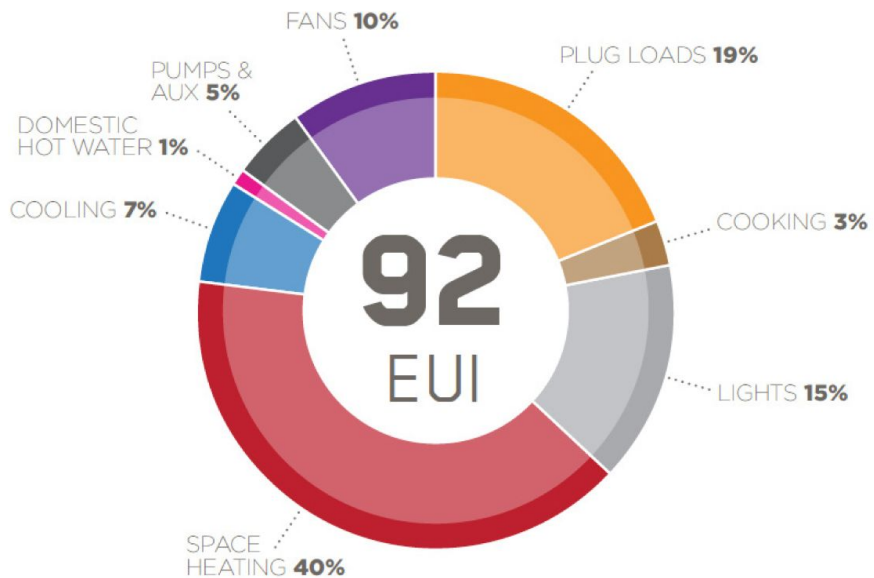
LIVING CERTIFIED

BULLITT
CENTER
SEATTLE, WA

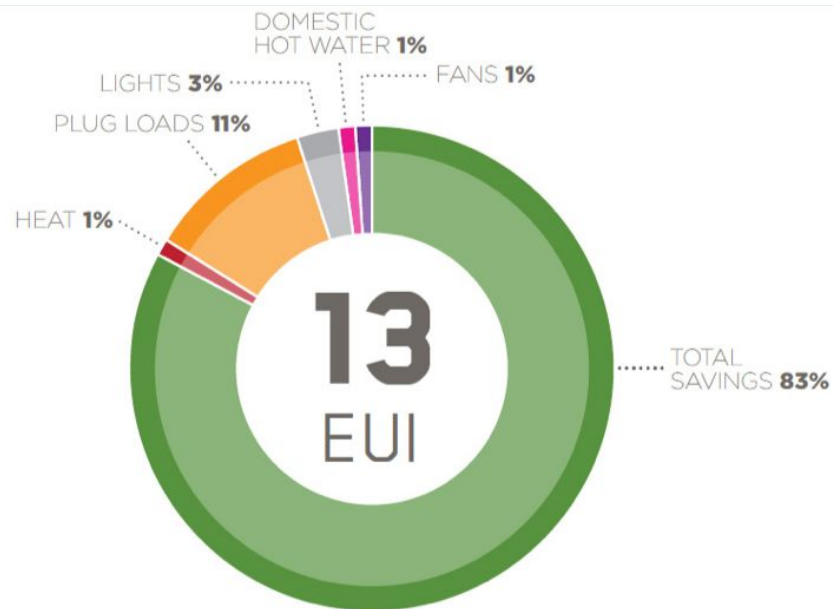
Photo credit, Nic Lehoux







TYPICAL BUILDING



BULLITT CENTER



KENDED A BUILDING FOR INNOVATIVE SUSTAINABLE DESIGN

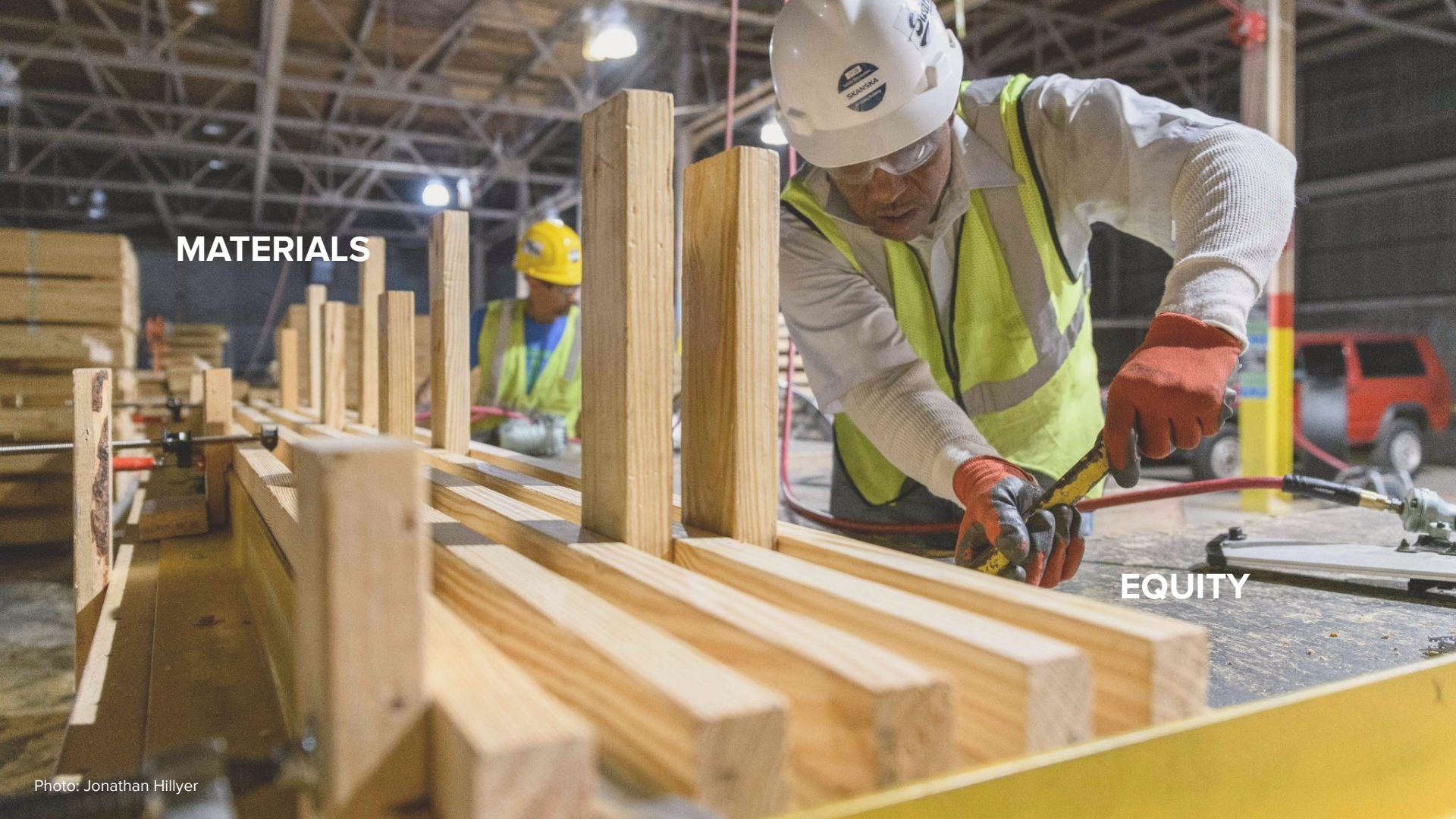
Photo: Tzu Chen



PLACE

KENEDA BUILDING FOR INNOVATIVE SUSTAINABLE DESIGN

Photos: Jonathan Hillyer



MATERIALS

EQUITY



BEAUTY















BUILDING OPERATORS, SMART BUILDINGS, AND THE FUTURE

KENDEDA BUILDING FOR INNOVATIVE SUSTAINABLE DESIGN

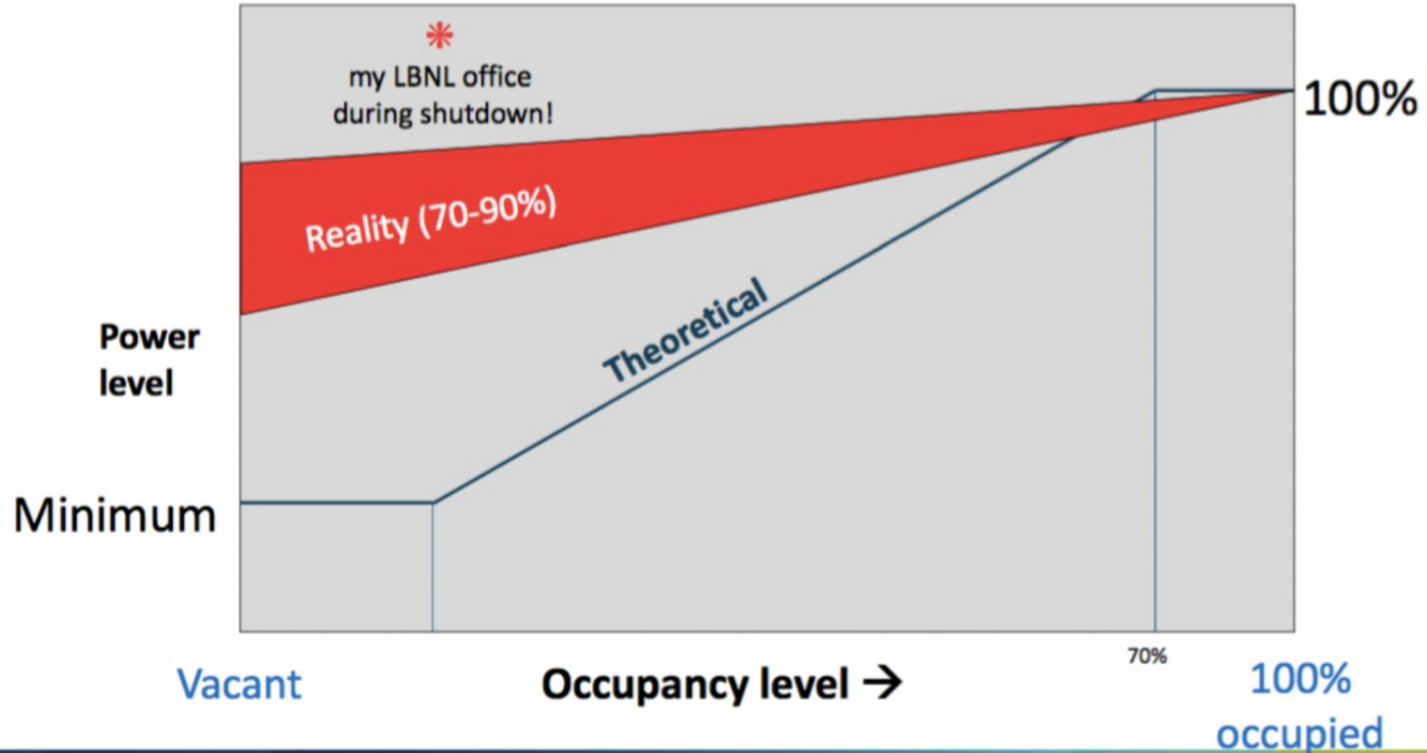
Photos: Jonathan Hillyer

**As of 2020, of the 3.3 million workers in the
'clean economy', 2.4 million of them work in
the building efficiency sector.**

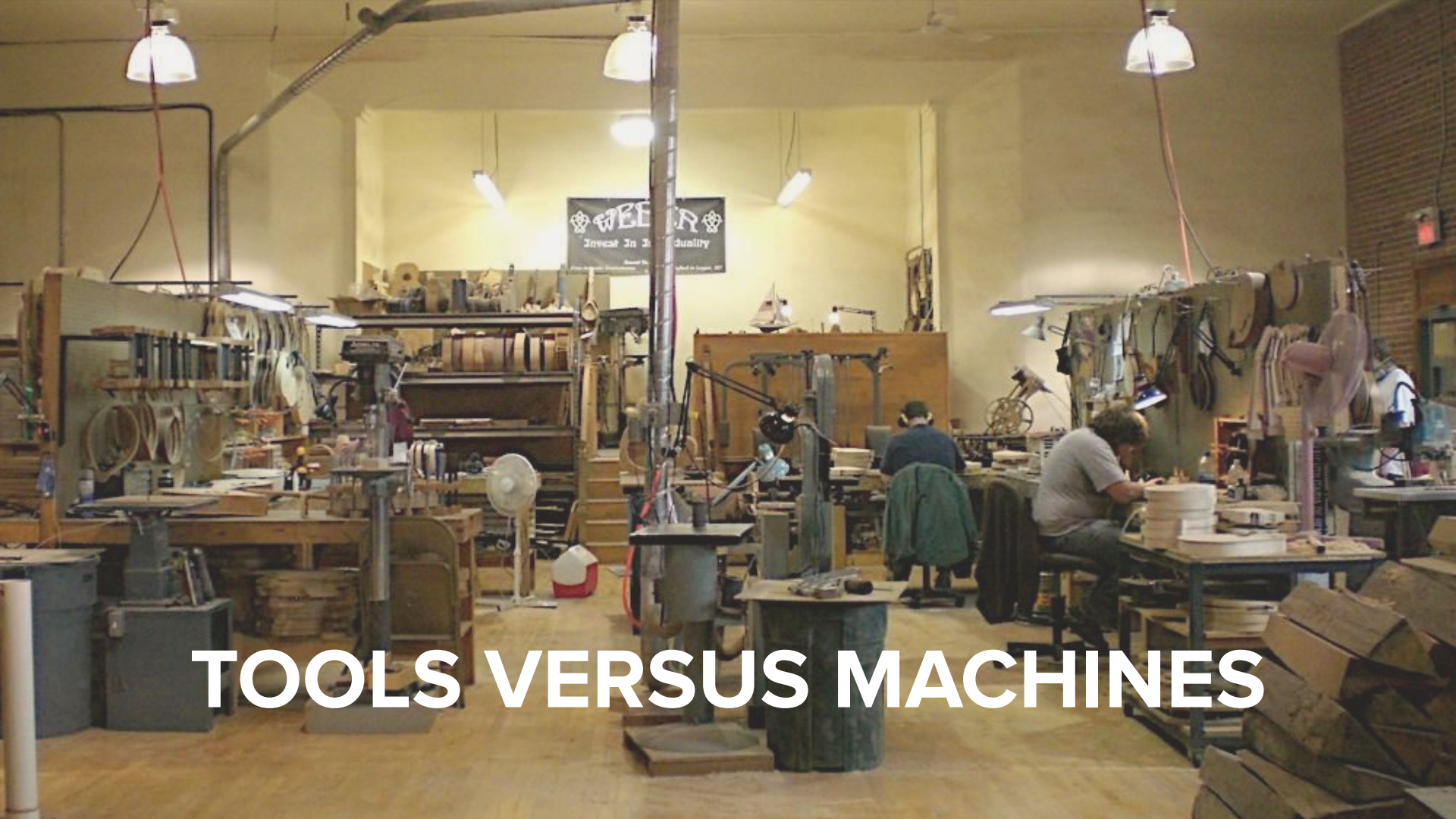
That is compared to just half a million in clean energy.



Relationship Between Occupancy Level and Electricity Use



“Putting Vacant Buildings to Sleep”, Webinar hosted by UC Davis Energy and Efficiency Institute, Dr. Alan Meier. May 2020. Presentation is available via their website.



TOOLS VERSUS MACHINES



CIVILIAN CONSERVATION CORPS, 1939



CUNY BUILDING OPERATORS PROGRAM



THANK YOU

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