



Brewery Blocks, Portland, OR
Photo: Gerding Edlen Development

New Buildings Institute

nbi new buildings
institute

Pushing for better buildings that achieve zero energy, zero carbon, and beyond

Priority Actions for the Built Environment and Building Technologies RD&D Needs: Non-Governmental Perspectives

Ralph DiNola, CEO

What is New Buildings Institute?

- 501(c)(3) nonprofit
- 25-year history
- **Mission:** to push for better buildings that achieve zero energy, zero carbon, and beyond – through research, policy, guidance, and market transformation – to protect people and the planet.

www.newbuildings.org

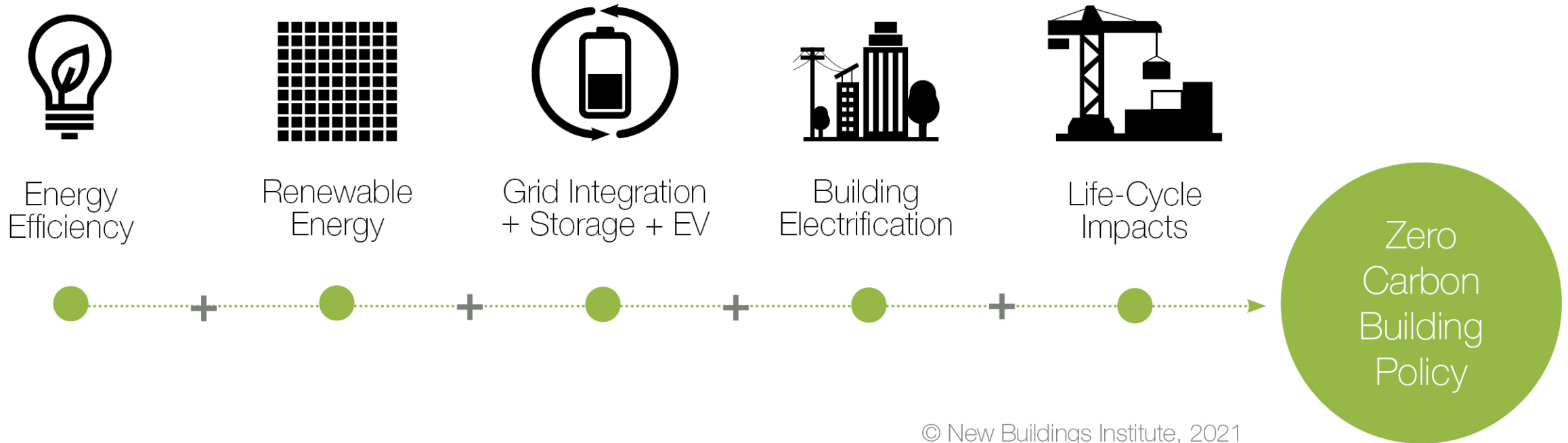


Buildings are
39% of our
carbon problem.
People are 100%
of the solution.

NBI headquarters office at PAE Living Building, Portland, OR Photo by Portland Drone

The Five Foundations of Zero Carbon Building Policy

Objectives: Equity, Affordability, and Health



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<https://newbuildings.org/making-the-transition-from-zero-energy-to-zero-carbon-building-policies/>

Five Challenges

1. We Have to Retrofit over 100 Million Buildings
2. We Have to Electrify 1 Billion Machines
3. Most Machines are NOT SMART
4. The Workforce is 100x Too Small
5. Policy Advances at a 20th Century pace

Five RD&D Concepts

1

How to Make Integrated Design for Climate, Resilience, Health, Adaptation Standard Practice



2

How to Get to 10x Cost Compression on Technologies (i.e., Heat Pumps) and Retrofits



\$275 US

3

How to Develop the Next Generation of Building Smart Technologies



4

How to Scale Workforce



5

How to Integrate Smart Policy with Building Innovation



A photograph of the Minneapolis skyline at dusk, with city lights reflecting on the water and a bridge in the foreground.

GETTING TO
zero
FORUM 2023

Save the Date!

Join us in defining a new
energy and carbon future
for the built environment.

May 10-12, 2023
Live in Minneapolis + Virtual
gettingtozeroforum.org

Thank you!

Ralph DiNola, CEO

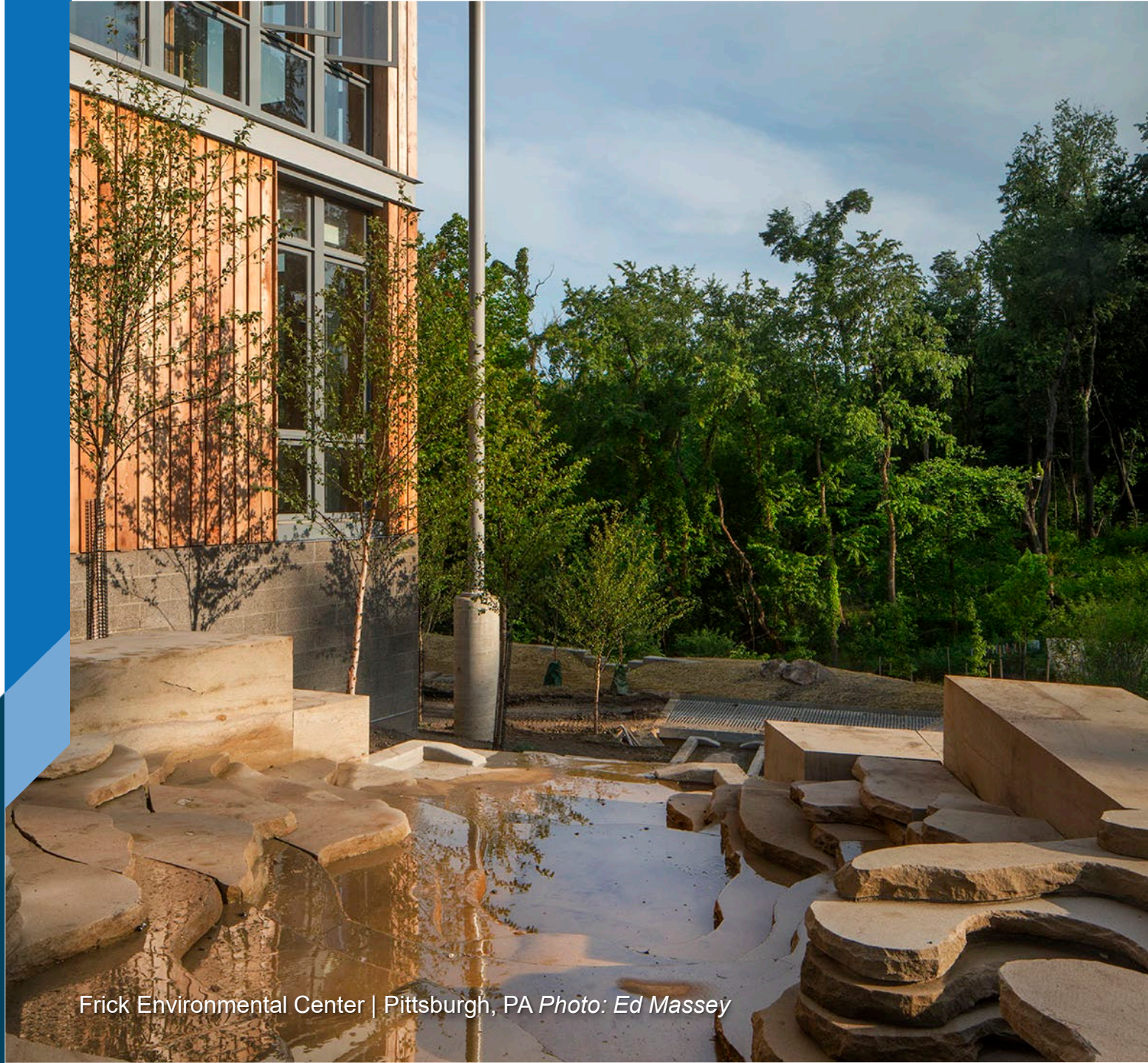
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Frick Environmental Center | Pittsburgh, PA Photo: Ed Massey