



Brewery Blocks, Portland, OR
Photo: Gerding Edlen Development

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

nbi new buildings
institute

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.

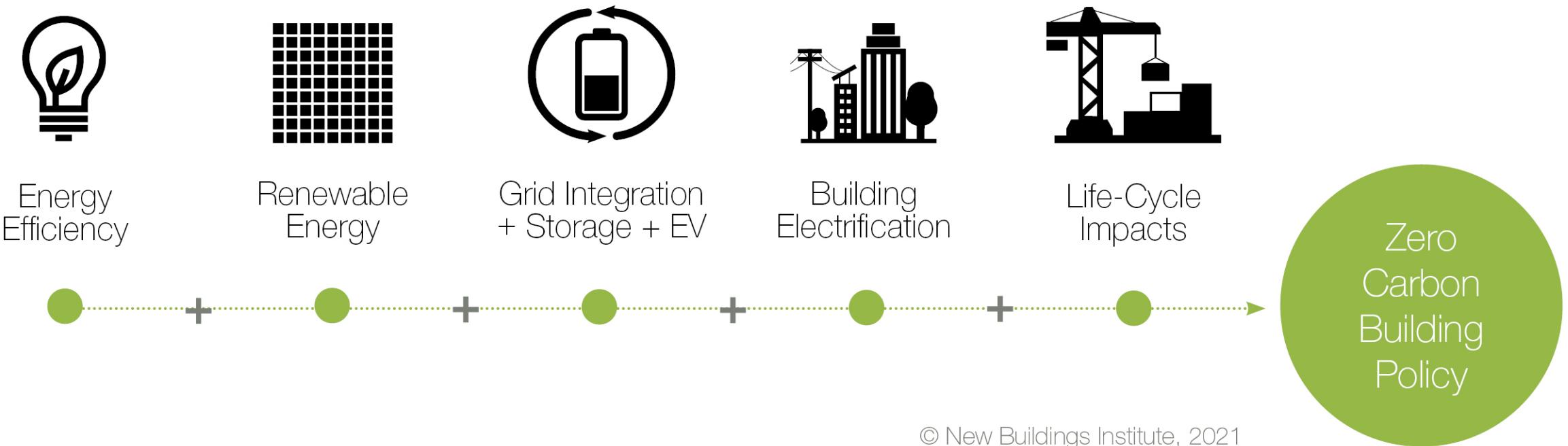
www.newbuildings.org



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



© New York Times / Redux / eyevine

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



GETTING TO
zero
FORUM 2023



Save the Date!

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

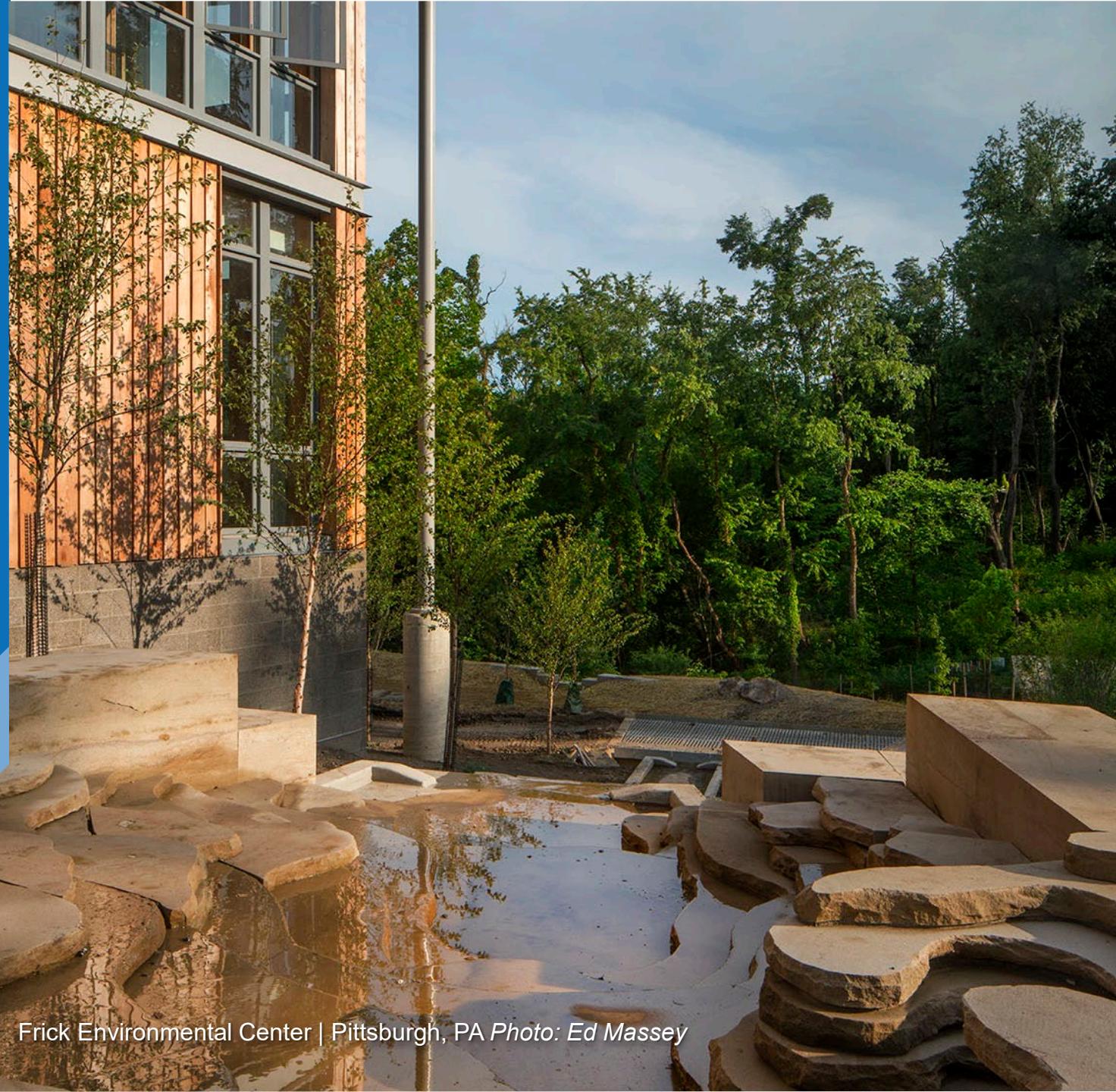
May 10-12, 2023
Live in Minneapolis + Virtual
gettingtozerothread.org

Thank you!

Ralph DiNola, CEO

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Frick Environmental Center | Pittsburgh, PA Photo: Ed Massey