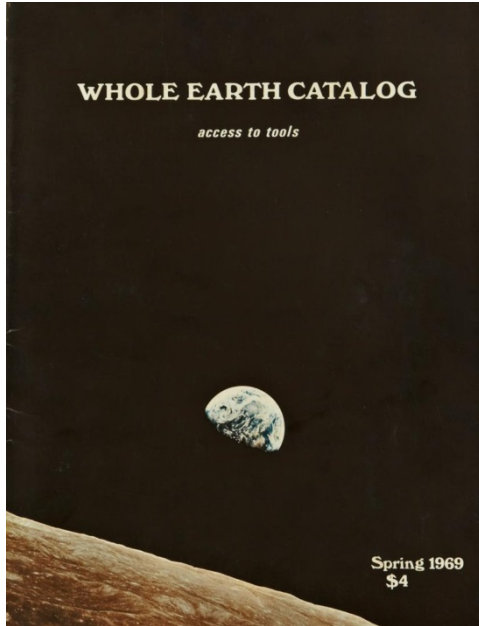


Designing Our Living Spaces: Green Buildings – Green Cities

Buzz Yudell

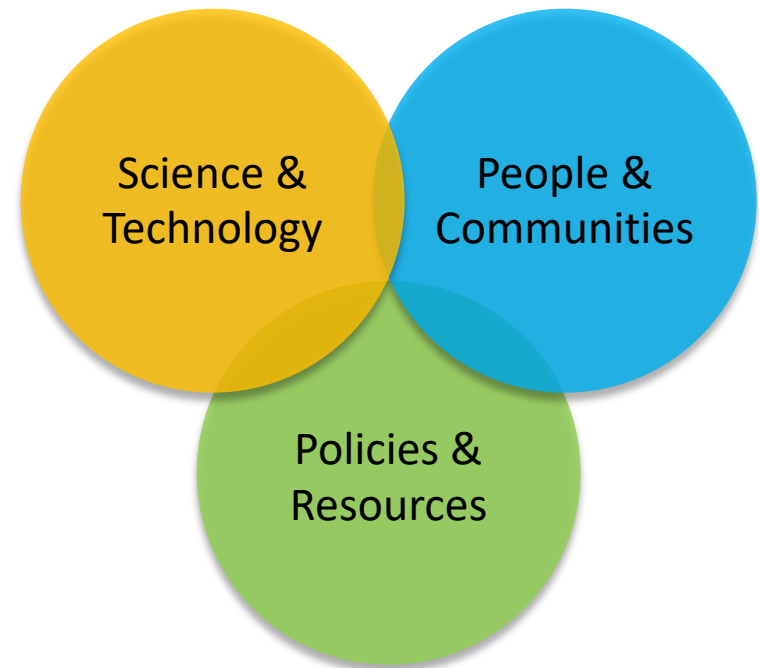
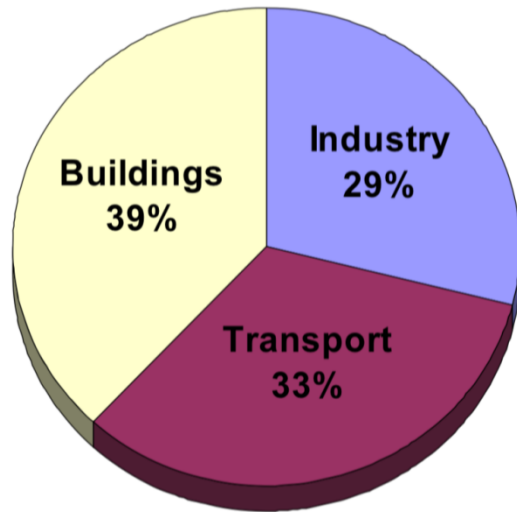
1969



Buzz Yudell, FAIA moore ruble yudell
architects & planners

2019

CO2 Emissions from Fossil Fuels



ENGAGEMENT

- Engage Communities
“Upstream”
- Incentivize Public-Private
Partnerships
- Empower Youth



Lower Sproul Redevelopment and Student Life Center
University of California Berkeley



Emissions reductions	Percent reduction
2,530 kg CO ₂	42%
1,255 g NOx	60%
15 g PM ₁₀	12.5%
<i>Mode share</i>	
Car	23%
Public transit	17%
Bicycle	31%
Walking	29%

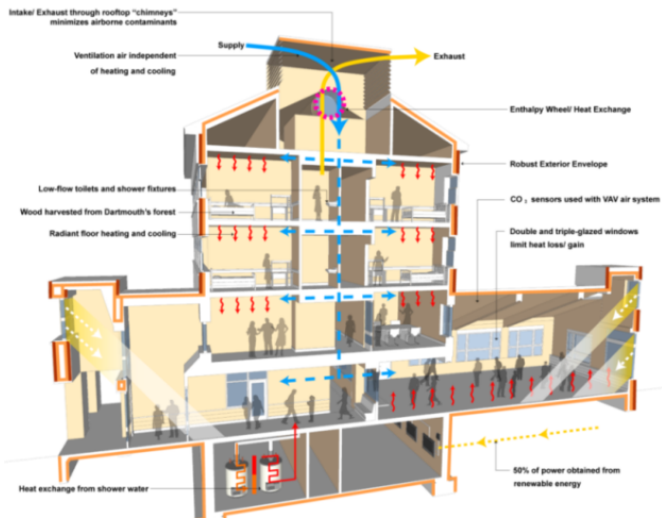
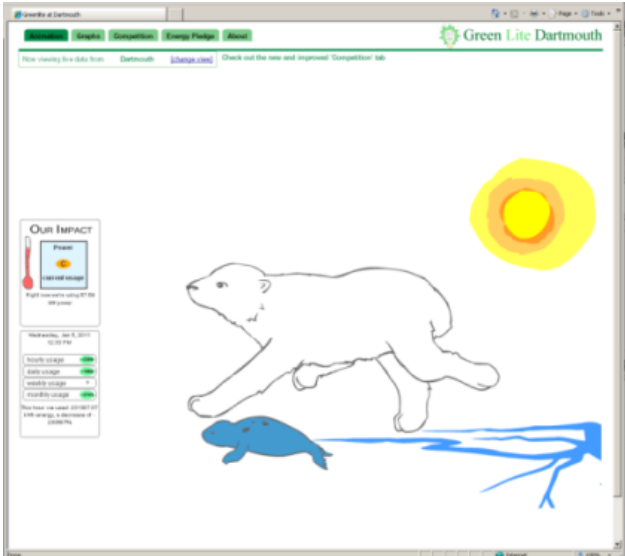
Create Eco-Communities

Tango Apartments
Malmö, Sweden



Shape Human-scaled Places & Sustainable Landscapes

Tango Apartments
Malmö, Sweden



Students as Champions

McLaughlin Cluster Housing
Dartmouth College, Hanover, New Hampshire



The Student Community Center is a:

***Home
Forum
Laboratory for Sustainability***

Lower Sproul Redevelopment and Student Life Center
University of California Berkeley

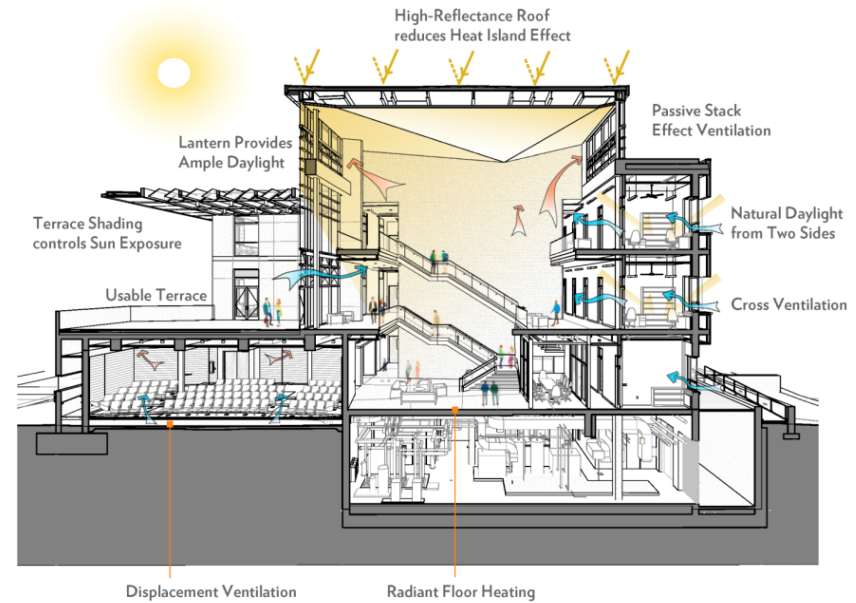


Adaptive Re-use and Resilience

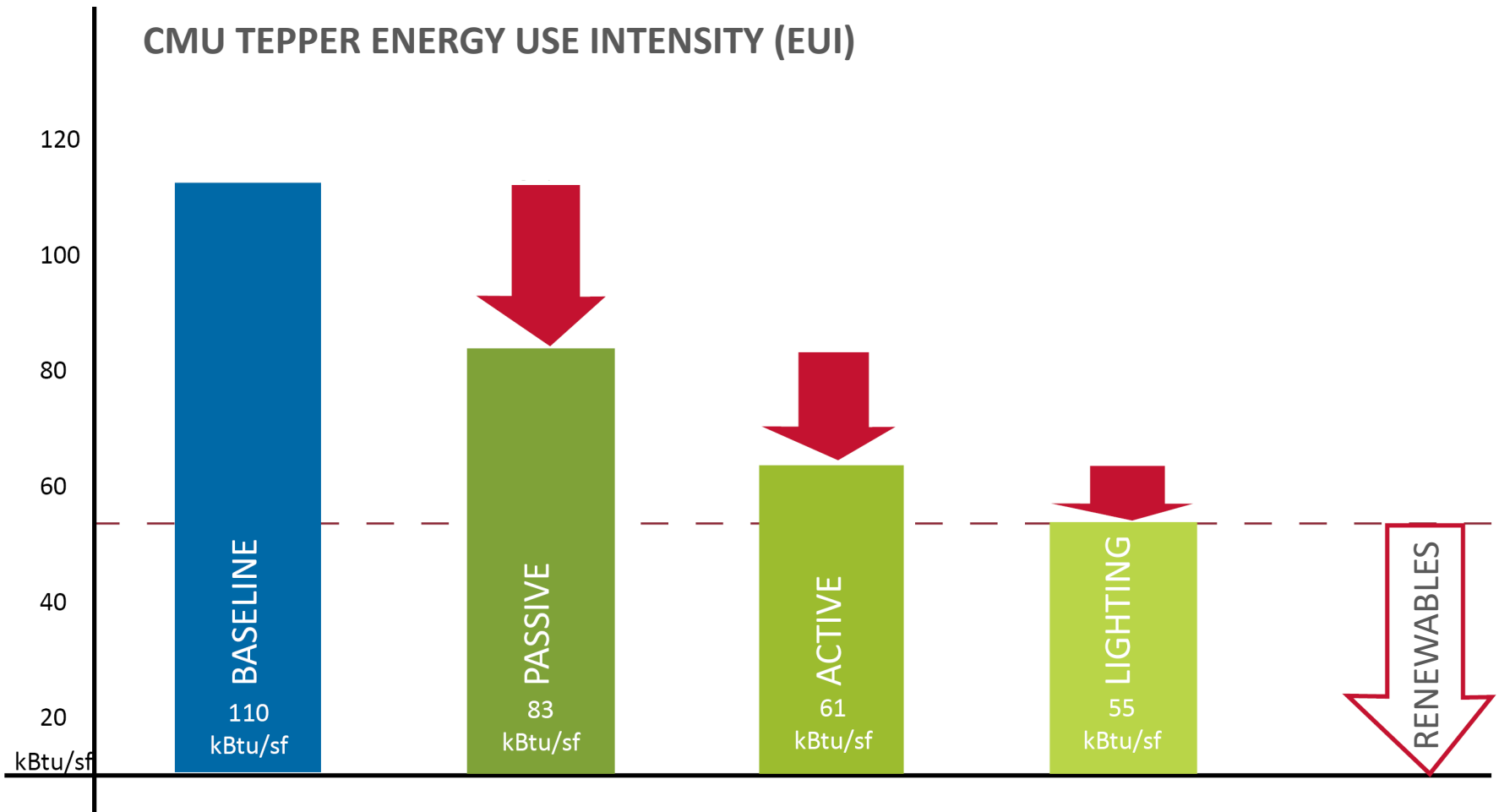
Lower Sproul Redevelopment and Student Life Center
University of California Berkeley

INTEGRATED DESIGN PROCESS

- Create multi-disciplinary teams
- Optimize resources with a tiered toolkit
- Analyze scenarios for life cycle impacts



CMU TEPPER ENERGY USE INTENSITY (EUI)



A Tiered Toolkit

Tepper School of Business and Quad
Carnegie Mellon University



A Hub for Collaboration & Innovation

Tepper School of Business and Quad
Carnegie Mellon University

The first *LEED Platinum Embassy worldwide



*Leadership in Energy and Environmental Design

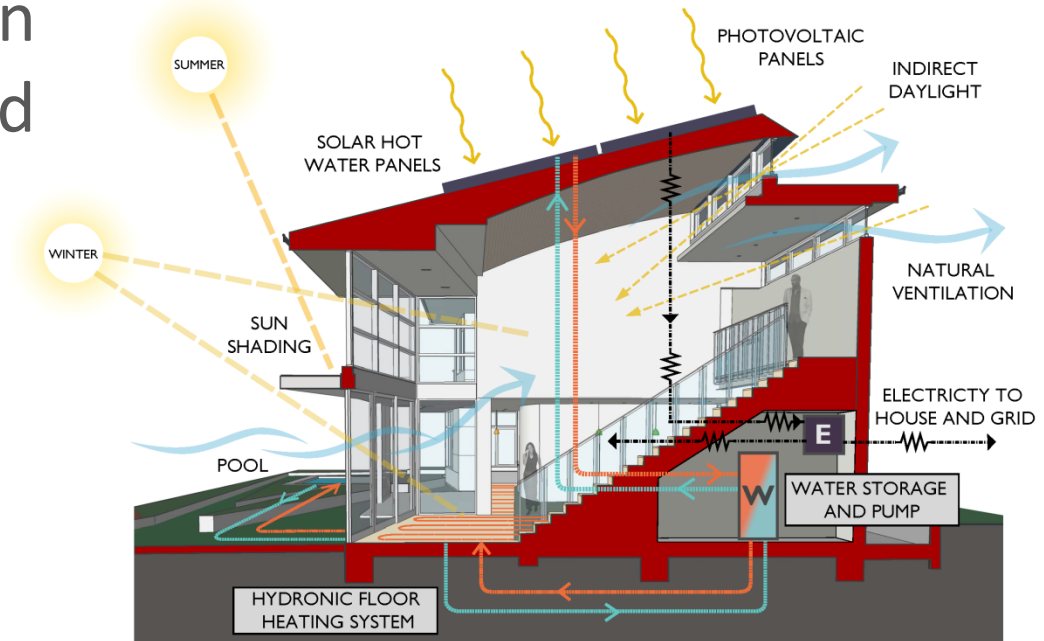
Government as Environmental Leader



US Embassy and Innovation Center
Helsinki, Finland

EMERGING DIRECTIONS

- Expand “Green” design to health, wellness and social equity
- Expand dialogue and education
- Build Net Zero Energy projects



23%

increase in hours standing

35%

increase in steps per week

19%

increase in “enhanced work with others”

48%

increase in social connections



Support Health & Wellness

Brown School of Social Work and Public Health
Washington University in St. Louis

Life Cycle Costs

10%

Construction Cost

15%

Operations Cost

75%

Personnel Cost



Maximize Social/Economic Benefit

Olin Business School
Washington University in St. Louis

2019

Science &
Technology



People &
Communities



Policies & Resources