NET ZERO EMERGING LEADERS:

Knowledge is Power

MADELAINE MURRAY | HENNEBERY EDDY ARCHITECTS
Hennebery Eddy
Background
Net-Positive Design Philosophy
AIA 2030 Commitment

Design Data Exchange (DDx)
Influence on Firm
Using DDx as an Archive
Tools Beyond DDx

Globalization of Data
Net Zero Emerging Leaders Internship
Net-Positive Design Philosophy

Healthy | Efficient | Adaptive

Provide design solutions for buildings that result in a positive impact through efficient energy use, water consumption, and adaptive structures. Net-positive approach is the foundation of design decisions. Knowledge of how to achieve net-positive results is the power.
Net-Positive Design Philosophy & Design Data Exchange:

- **2011**
  - Partners w/ Energy Trust Oregon New Buildings Trade Ally
- **2014**
  - 3 projects
- **2015**
  - Hennebery Eddy Signs AIA 2030 Commitment
  - 6 projects
- **2016**
  - 23 projects
- **2017**
  - 24 projects
- **2018**
  - NZEL Internship Platform to share data
  - 42 projects
Examples of Projects Meeting 2030 Target:

Yellowstone Youth Campus

108% Energy Use Intensity (EUI) reduction

Bend Science Station

100% Energy Use Intensity (EUI) reduction

Clackamas Fire Station 16

70% Energy Use Intensity (EUI) reduction
DDx as the Archive:

*Knowledge is Power*

Reporting and analyzing projects: highlighting progress and room for improvement.

By reporting basic information such as location, square footage, and Energy Use Intensity (EUI), the data is more accessible at a general level.

Design Data Exchange (DDx) has value with the firm, clients, and future generations.
Locating Our Firm:

Projects in the US 2014

Projects in the US 2018

2015 2018

Hennebery Eddy Architects
Net Positive Tools and the DDx:
Define project goals early for projects with a net positive focus: an eco-charrette to get the conversation started with clients.

DDx is a platform for documenting: encouraging energy modeling and a net-positive checklist throughout the design process.

Another resource: Energy Trust Oregon (ETO) offers incentive programs that offset costs to achieve design goals. This includes eco-charrettes, Path to Net Zero, & solar incentives.

How can historic preservation projects be recognized through DDx?
GLOBALIZATION OF DATA

Gathering & Sharing Data:
AIA 2030 By the Numbers:

Outcome of Sharing Data:
Where we are locally.
Where we are globally.

Conversation between firms:
Exchanging methods of energy modeling and documenting projects on DDx.
Net Zero Emerging Leaders: 
Extending the Conversation

Sustainability is not a race; 
Design Data Exchange is not a competition.

Encourages the philosophy of 
“knowledge is power”

Architects play a key role in combating climate change, nearly 40% of US energy is consumed by buildings (AIA).

Design Data Exchange is our way of 
“climate leadership” – how we can recognize where we are and where we are going.