Small Steps, Big Changes

How to Begin Championing Net-Zero Goals in your office
The urban built environment is responsible for **75%** of annual global GHG emissions: buildings alone account for **39%**.

Eliminating these emissions is the key to addressing climate change and meeting Paris Climate Agreement targets.

GAUGING WHERE YOUR FIRM IS AT:

QUICK SELF - CHECK

Are you using the AIA Design Data Exchange?

Do you keep a LEED Portfolio?

Do you have and use a Sustainability Action Plan?

Building codes are changing - are you ready?

What are your daily office practices for sustainability?

What are you wanting to learn more about?
INTERPRETING WHAT IS ALREADY BEING ACCOMPLISHED...

GBD Portfolio Data Over the Years

- 2020: GBD Architects Inc.
- NZEL Internship. Energy Trust of Oregon.

**Number of Active Projects**
- 2016: 24
- 2017: 35
- 2018: 18
- 2019: 31

**Number of Projects Energy Modeled**
- 2016: 6
- 2017: 9
- 2018: 7
- 2019: 21

**LEED Projects**
- 2016: 5
- 2017: 2
- 2018: 3
- 2019: 16

- **2016**: GBD Signed the 2030 Commitment
- **2019**: NZEL Internship. Hired Sustainability Manager
WHAT DOES THE DATA TELL US? CLOSING THE GAPS

Predicted EUI Reduction x GBD 2019 Portfolio

- 2030 Challenge Threshold for 2030
- 2030 Challenge Threshold for 2025
- Next Target: 2030 Challenge Threshold for 2020
- 2030 Challenge Threshold for 2015

AIA pEUI AVERAGE for 2018 at 46%

2019 Portfolio
WHAT DOES THE DATA TELL US? CLOSING THE GAPS

GBD Portfolio GSF% Modeled Over Years

AIA Energy Modeled Projects
at 50% Across Industry

% GSF Modeled

<table>
<thead>
<tr>
<th>Year</th>
<th>GBD % Modeled</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>43.6</td>
</tr>
<tr>
<td>2018</td>
<td>46.9</td>
</tr>
<tr>
<td>2019</td>
<td>74.5</td>
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<tr>
<td>2020</td>
<td></td>
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UTILIZE YOUR TOOLBOX
What tools do we have to succeed?

- **Design Data Exchange (DDX)**
  - Cross Industry Comparison
  - Open Source Resource

- **Energy Trust of Oregon**
  - Can provide funding for Energy Modeling
  - Early Design Assistance

- **Sustainability Action Plan**
  - Goal setting tool that fosters best practice
  - An educational tool to communicate with clients
  - Industry wide commitment

- **Energy Modeling**
  - eQuest (Quick + Free)
  - IES Virtual Environments (Most Popular)
  - TRACE 700 (Load Design + Energy)
  - Insight 360 (Autodesk, Revit Plug-in)
  - Climate Consultant (site analysis/conditions)
  - COMFEM (windows + daylighting analysis)
  - 2030 Palette - 2030 challenge precedent examples

- **Project Phase Report Card**

- **Sustainability Team**

- **LEED Archives**

- **Continuing Education + Certification opportunities for staff**
CULTIVATING PORTFOLIO TRANSPARENCY ACROSS FIRM + INTO DESIGN PROCESS

Tracking and reporting can not only bring transparency to a firm but also serve as a platform for friendly in-house competition.

Project teams can compete with one another to meet and exceed sustainability goals set by the office.

GOING BEYOND THE STATUS QUO

At the forefront of the National Resilient Cities’ trend, GBD pushed the boundary of what is possible with the design of the Lloyd Eco-District of Hassalo on 8th. The project was the first to globally achieve (LEED V4 ND) Platinum certification for neighborhood development.

59.5% Increase in Project Energy Modeling From 2018.
67.7% Of Active Projects In 2019 had been Energy Modeled.
3,448,720 GSF Is the total floor area Energy Modeled for Active Projects In 2019.
47.4% Average Predicted EUI Reduction for 2019. 46% is the AIA pEUI avg.
The DDX serves as both an in-house tool and an industry wide open-source resource that firms can use to gauge progress. CELEBRATE MILESTONES
PRACTICE, BEST PRACTICE.

NEXT STEPS + CONTINUED MOMENTUM

- Regularly review goals set with Sustainability Action Plan
- In depth project case study followed by deep analysis
- Educate clients and encourage/support staff certifications
- Engage Office in Sustainability Challenges
- Set a sustainability framework for each new project on Day 1
- Have office Sustainability Champion keep portfolio organized
- Conduct an office Sustainability P.O.E. or Waste Audit
THANK YOU. LET’S KEEP WORKING TOGETHER.