


WELCOME!

Please write your questions in the chat.



AIA
Austin

COTE

Introduction and Firm Roundtable
Thursday, January 21
12-1pm

Sustainability Action Plans and Goal Setting
Thursday, February 11
12-1pm

DDx and Tools Workshop
Thursday, March 11
12-1pm

Embodied Energy and Mentor Session
Thursday, April 8
12-1pm

aia
2030
commitment
subcommittee

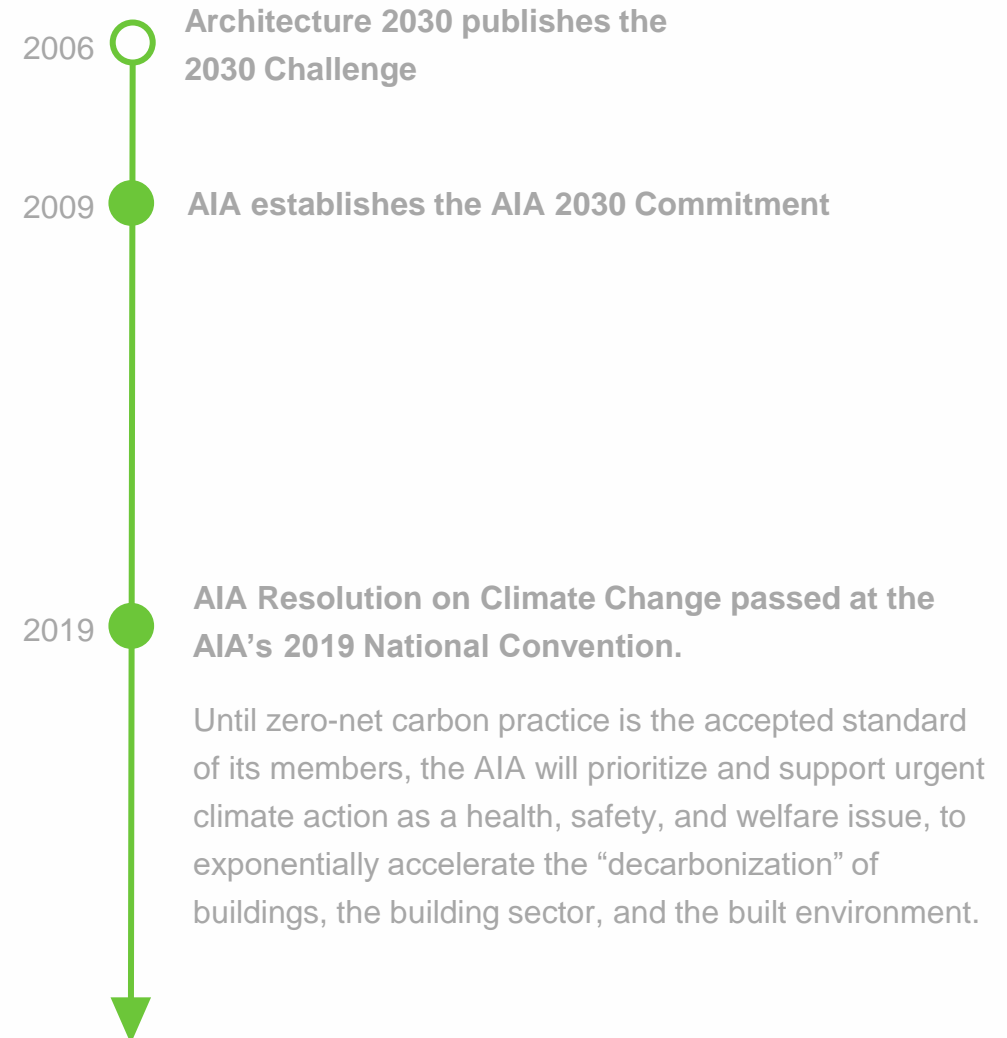
Learning Objectives:

- Participants will be able to describe the interface and features of the Design Data Exchange (DDx).
- Participants will be able to use the DDx for reporting project performance.
- Participants will be able to define project performance goals using the DDx.
- Participants will be able to evaluate portfolio performance using the DDx.

The consequences of climate change are alarming, but they are not inevitable.

As professionals continue to coalesce around shared values and common goals, the opportunities for meeting the challenge expand. In 2019, AIA member overwhelmingly passed a resolution for “urgent and sustained climate action.”

The time to start is now!



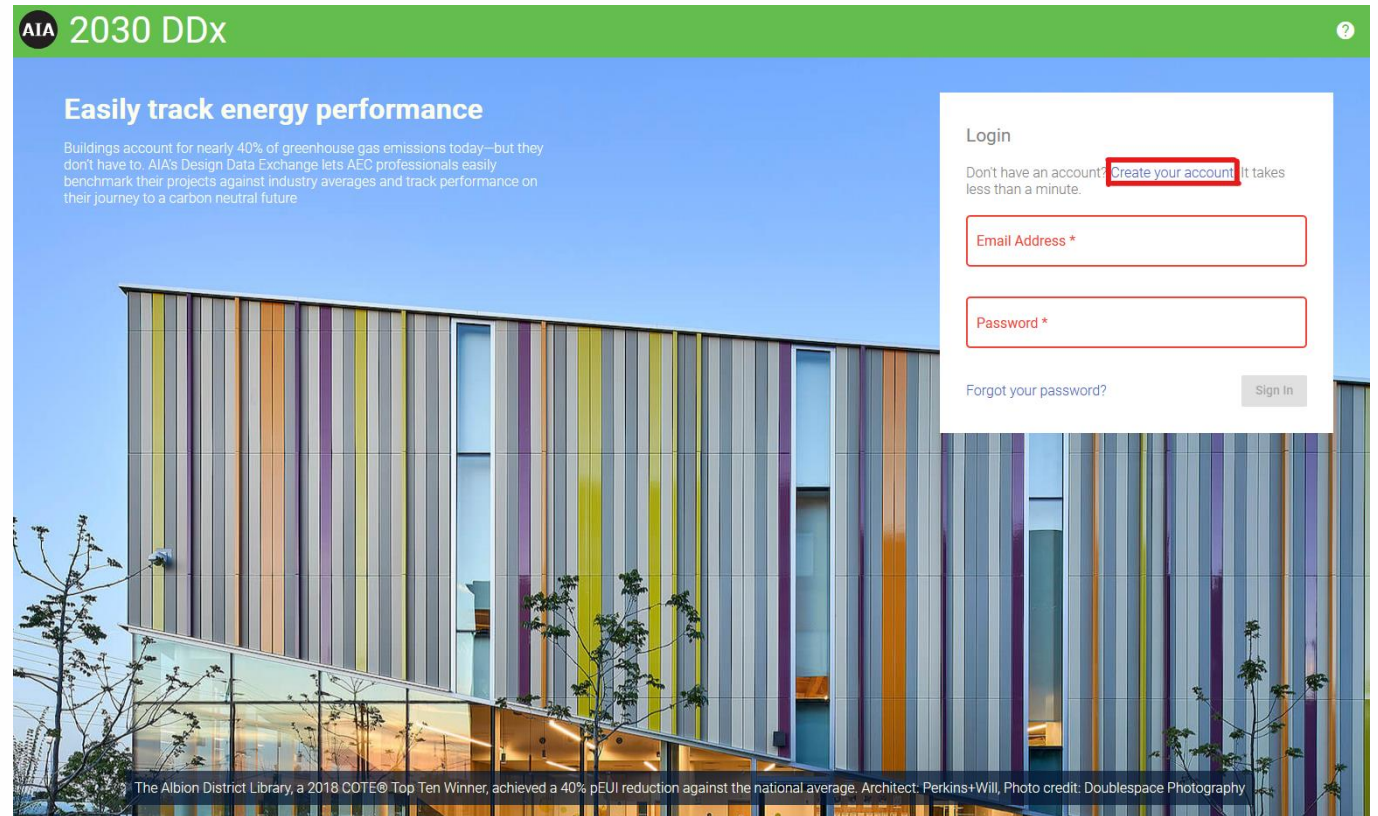
Joining the 2030 Commitment gives your firm access to the Design Data Exchange (DDx). <https://2030ddx.aia.org/account/login>

The DDx is used for submitting your:

- 2030 Commitment Letter
- Sustainability Action Plan
- Project Data

Multiple users can be added with various permission levels:

- Administrators
- Users
- Viewers



AIA 2030 DDx

Easily track energy performance

Buildings account for nearly 40% of greenhouse gas emissions today—but they don't have to. AIA's Design Data Exchange lets AEC professionals easily benchmark their projects against industry averages and track performance on their journey to a carbon neutral future

Login

Don't have an account? **Create your account** It takes less than a minute.

Email Address *

Password *

Forgot your password?

The Albion District Library, a 2018 COTE® Top Ten Winner, achieved a 40% pEUI reduction against the national average. Architect: Perkins+Will, Photo credit: Doublespace Photography

1

SIGN THE LETTER

2

CREATE AN SAP

3

ENDEAVOR TO MEET TARGETS

4

REPORT PROJECTS

5

UPDATE SAP

- The annual reporting deadline is **March 31st**.
- Report all projects in an **active design phase during the reporting year.**
- In joint-venture projects, both firms may report the project.
- Only report interior projects with lighting scope.

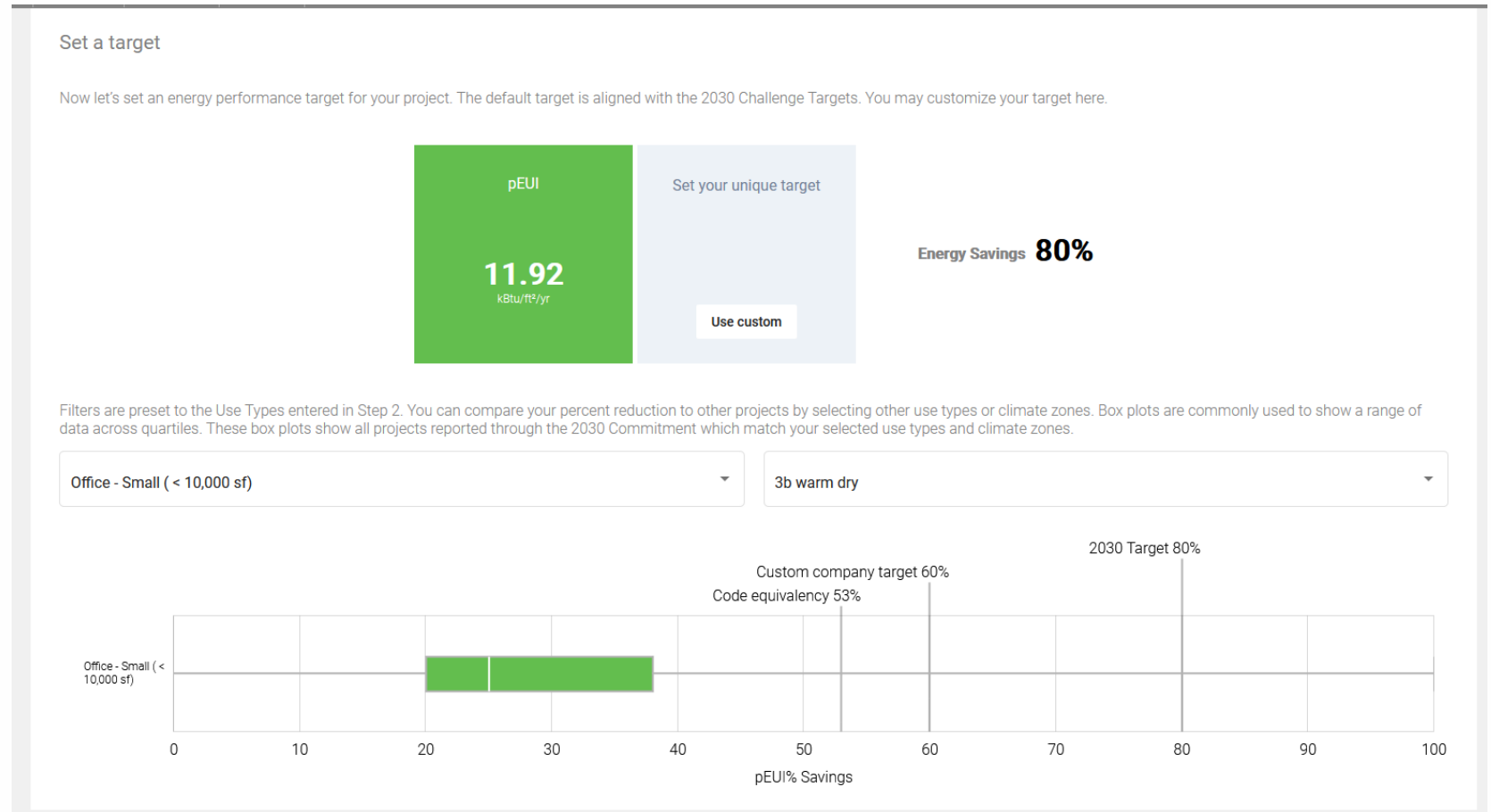
The screenshot displays the AIA 2030 DDx web application interface. At the top, there is a green header with the AIA logo and '2030 DDx' text. Below the header, there are navigation tabs for 'Portfolio', 'Company', and 'Reports'. The main content area is titled 'Josh's Portfolio' and is divided into two columns. The left column, 'Top Performers', contains a table with the following data:

Project	pEUI	Savings
DDx Tutorial 3	10.00	80%
DDx Tutorial 2	12.00	69%
DDx Tutorial 5	N/A	53%
DDx Tutorial 1	N/A	50%
TSD Early Learning Center and Central Services Center	N/A	49%

The right column, 'My Account', shows the user's name 'Josh Leger', a 'Change password' button, and contact information including the email 'jleger@mckinneyork.com' and the company 'McKinney York Architects'. Below these sections is a 'Manage Projects' section with an 'Export all' button, a '+ Create project' button, a search bar, and a dropdown menu for 'By name'. A table of projects is displayed below, with columns for Name, Type, Status, Baseline Energy Use, Predicted EUI, and Action. The table contains three rows of data:

Name	Type	Status	Baseline Energy Use	Predicted EUI	Action
DDx Tutorial 1	Residential	Active	41.50 kBtu/ft²/yr	N/A	Track data
DDx Tutorial 2	Residential	Active	38.80 kBtu/ft²/yr	12.00 kBtu/ft²/yr	Track data
DDx Tutorial 3	Residential	Active	49.50 kBtu/ft²/yr	10.00 kBtu/ft²/yr	Track data

The Design Data Exchange (DDx) is a cloud-based, confidential reporting tool created by the AIA that allows your firm to compare project by type, size, climate, and other attributes across your firm's portfolio and the entire 2030 portfolio.



Navigating the DDx

Tabs and Help

- Portfolio
- Company
- Reports

AIA 2030 DDx

Josh Leger

Portfolio Company Reports

Control Tabs

Help/Support/FAQs

Josh's Portfolio

Top Performers

Project	pEUI	Savings
DDx Tutorial 3	10.00	80%
DDx Tutorial 5	12.60	79%
DDx Tutorial 2	12.00	69%
DDx Tutorial 1	N/A	50%
TSD Early Learning Center and Central Services Center	N/A	49%

My Account

Josh Leger

Change password

Contact Info
jleger@mckinneyyork.com

Location

My Company
McKinney York Architects

Manage Projects

Export all + Create project

Search By name

Columns

Name	Type	Status	Baseline Energy Use	Predicted EUI	Action
DDx Tutorial 1	Residential	Active	41.50 kBtu/ft ² /yr	N/A	Track data
DDx Tutorial 2	Residential	Active	38.80 kBtu/ft ² /yr	12.00 kBtu/ft ² /yr	Track data
DDx Tutorial 3	Residential	Active	49.50 kBtu/ft ² /yr	10.00 kBtu/ft ² /yr	Track data

Navigating the DDx

Portfolio

- Top Performers
- My Account
- Manage Projects
 - Project Dashboard
 - Export to CSV

The screenshot shows the 'AIA 2030 DDx' dashboard for 'Josh Leger'. The 'Portfolio' tab is selected. The interface is divided into three main sections: 'Top Performers', 'My Account', and 'Manage Projects'.

Top Performers: A table listing projects with their pEUI and Savings percentages.

Project	pEUI	Savings
DDx Tutorial 3	10.00	80%
DDx Tutorial 5	12.60	79%
DDx Tutorial 2	12.00	69%
DDx Tutorial 1	N/A	50%
TSD Early Learning Center and Central Services Center	N/A	49%

My Account: A sidebar for user management, including a 'Change password' button and sections for 'Contact Info' (jleger@mckinneyork.com) and 'My Company' (McKinney York Architects).

Manage Projects: A section for project management with a search bar, 'Export as CSV' button, and a table of projects.

Name	Type	Status	Baseline Energy Use	Predicted EUI	Action
DDx Tutorial 1	Residential	Active	41.50 kBtu/ft²/yr	N/A	Track data
DDx Tutorial 2	Residential	Active	38.80 kBtu/ft²/yr	12.00 kBtu/ft²/yr	Track data
DDx Tutorial 3	Residential	Active	49.50 kBtu/ft²/yr	10.00 kBtu/ft²/yr	Track data

Callouts:

- Filter Top Performers by Project Type, Construction Type, or Phase:** Points to the filter icon above the Top Performers table.
- Admin update Company Information:** Points to the edit icon next to the My Company name.
- Update Personal Account Information:** Points to the edit icon next to the user name.
- Export as CSV:** Points to the 'Export all' button.
- Filter Projects:** Points to the filter icon above the Manage Projects table.
- Only includes projects you are a collaborator:** Points to the 'Manage Projects' header.

Navigating the DDx

Company

- Company Information
 - Submit Portfolio (Admin)
- Sustainability Action Plan
 - Edit/Delete (Admin)
- Manage Projects
 - Add Collaborators
- Office/Studios (Admin)
- Employees (Admin)

AIA 2030 DDx | Portfolio | **Company** | Reports | Josh Leger

Company Information

McKinney York Architects
 mckinneyork.com
 5124760201

Company Type
 Multi-disciplinary (architect led)
 20-49 employees

Admin POC
 Josh Leger
 jleger@mckinneyork.com
 N/A

Firm Key
 7KR5MQNDEW
 Submit portfolio

Signatory ✓
 Since 2020 (1 years)
 Target: 60%
 McKinney York Architects Commitment Letter.pdf

Sustainability Action Plan
 McKinney York Architects Sustainability Action Plan.pdf
 Last updated on 2/2/2021
 Edit Delete

Submit Portfolio. Admin only. April 30 Deadline.

SAP Controls. Admin Only.

More Options: Edit Project, Add Collaborator, Delete Project, etc.

Manage Projects ← All Projects in the Company.

Bulk Import → Import Export all + Create project

Search By name
 Edit column visibility. → Columns

Name	Type	Status	Baseline Energy Use	Predicted EUI	Action
DDx Tutorial 1	Residential	Active	41.50 kBtu/ft²/yr	N/A	Track data

Navigating the DDx

Company

- Company Information
 - Submit Portfolio (Admin)
- Sustainability Action Plan
 - Edit/Delete (Admin)
- Manage Projects
 - Add Collaborators
- Office/Studios (Admin)
- Employees (Admin)

Offices / Studios Admin Only + Add Office / Studio

Office/Studio Name	City	State	Postal Code	Country	Phone	
McKinney York Architects	Austin	TX	78702	US	5124760201	⋮

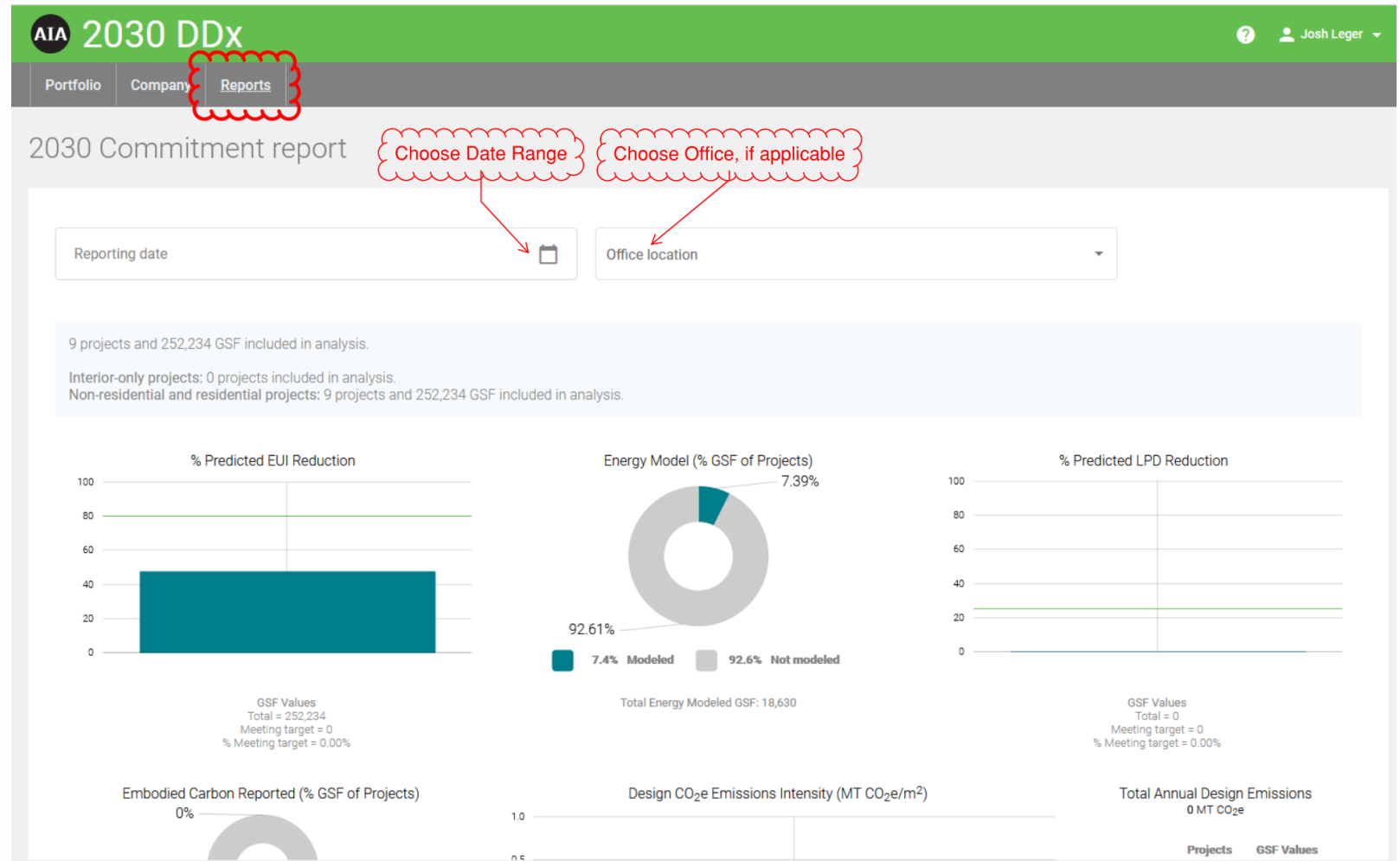
Employees Admin Only + Add Employee

First Name	Last Name	Email	Role	Actions
		[REDACTED]	Employee	⋮
		[REDACTED]	Employee	⋮
		[REDACTED]	Administrator	⋮
		[REDACTED]	Employee	⋮
		[REDACTED]	Employee	⋮
Panchajanya	Gudigar	[REDACTED]	Employee ▾	🗑️
Astrid	Santos	[REDACTED]	Employee ▾	🗑️
Josh	Leger	jleger@mckinneyork.com	Administrator ▾	🗑️

Navigating the DDx

Reports

- Filters
 - Date/Office
- Graphics
 - pEUI Reduction
 - Energy Model (gsf)
 - pLPD Reduction
 - Embodied Carbon
 - CO2 Emissions
 - Total Annual Emissions



Data Input

Direct Input

- Tutorial Today
- Great for smaller portfolios
- Higher Degree of Control
- Empower Project Teams.

Bulk Upload

- Import in-house database
- Inputs limited
- Quickly upload many projects

Energy Modeling Software

- Automatic upload from select energy modeling platforms
- Only applicable to firms that energy model regularly

Create Project

Portfolio or Company Tab

Step 1: Basic Information

Step 2: Extended Project Info

Step 3: Set EUI Targets

Step 4: Track Design Data

Step 8: Submit Portfolio

The screenshot shows the AIA 2030 DDX web application interface. At the top, the 'AIA 2030 DDX' header is visible, with the 'Portfolio' tab highlighted in a red box. Below the header, the user's name 'Josh Leger' is displayed. The main content area is titled 'Josh's Portfolio' and is divided into two columns. The left column, 'Top Performers', contains a table with the following data:

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DDx Tutorial 3	10.00	80%
DDx Tutorial 5	12.60	79%
DDx Tutorial 2	12.00	69%
DDx Tutorial 1	N/A	50%
DDx Tutorial 4	N/A	49%

The right column, 'My Account', displays user information for Josh Leger, including a 'Change password' button, contact info (jleger@mckinneyork.com), and company name (McKinney York Architects). Below this, the 'Manage Projects' section features a '+ Create project' button highlighted in a red box, a search bar, and a table of existing projects:

Name	Type	Status	Baseline Energy Use	Predicted EUI	Action
DDx Tutorial 1	Residential	Active	41.50 kBtu/ft ² /yr	N/A	Track data
DDx Tutorial 2	Residential	Active	38.80 kBtu/ft ² /yr	12.00 kBtu/ft ² /yr	Track data
DDx Tutorial 3	Residential	Active	49.50 kBtu/ft ² /yr	10.00 kBtu/ft ² /yr	Track data

Input Basic Information

- Project Name
- Project Status
- Project Number (not required)
- Project Type
- Construction Type
- Office/Studio
- Project Country
- Postal Code
 - Linked to Climate Zone
- Project City
- Project State
- Units (IP or SI)

AIA 2030 DDX ? Josh Leger

[Portfolio](#) [Company](#) [Reports](#)

Basic information: Step 1 of 3 Cancel ✓ Save and continue

Basic Information

<input type="text" value="Project Name *"/>	<input type="text" value="Project Status *"/>
<input type="text" value="My Firm's Project Number
1399-1615143959146"/>	<input type="text" value="Project Type *"/>
<input type="text" value="Construction Type *"/>	<input type="text" value="Office/Studio Name *"/>
<input type="text" value="Project Country *"/>	<input type="text" value="Project Postal Code"/>
<input type="text" value="Project City *"/>	<input type="text" value="Project State"/>
<input type="text" value="Climate Zone"/>	<input type="text" value="Units *"/>

Cancel ✓ Save and continue

Project Type

Residential or Non-Residential

- Predicted Energy Use Intensity (pEUI) is used for project performance
- The 2030 Commitment uses the 2003 CBECS database to define the baseline for each use type.
- For IP, pEUI is measured as kBTU/sf/yr.

Interiors Only

- Predicated Lighting Power Density (pLPD) is used for project performance.
- The 2030 Commitment uses ASHRAE 90.1 2007 as the pLPD baseline for each use type.
- pLPD is measured in watts/sf.

Input Extended Project Info

- Estimated Occupancy Year
- Energy Code
- Use Types
 - Use the “+” to add multiple uses.
- Optional
 - Daily Occupants
 - Building Costs
 - Sitework Costs
 - Total Construction Costs
- Depending on how sophisticated your firm is you can use the CBECS baseline or your own.

AIA 2030 DDx

Portfolio Company Reports

Extended project information: Step 2 of 3

Extended project data

Estimated occupancy year *
2021

Energy code used *

Daily average occupants

\$ Estimated building costs

\$ Estimated sitework costs

\$ Total estimated construction costs

Configure your use types

Use Type	Area ft ²	Baseline [Zero Tool] kBtu/ft ² /yr	2030 Target kBtu/ft ² /yr

Use this "+" to add multiple occupancies

Baseline Energy Use

This is a calculated default energy use baseline based on CBECS 2003 with regional adjustment. If you have a more accurate baseline, you may edit it here.

Energy Baseline

N/A

kBtu/ft²/yr

Zero Tool

Custom Baseline

Use custom

Energy Baseline will autofill once Use types are specified.

Set a Target

- **Goal**
 - Use Default Target (80%)
 - Use Custom (% Updates)
- **Compare**
 - Filter by use types and/or climate zones
 - Box and whiskers chart shows what other signatories have been reporting.

Note: If you hit “back” you will lose any project data previously entered. This is true of the interface in general.

Set a Target: Step 3 of 3 ◀ Back ✔ Save and view project

Set a target

Now let's set an energy performance target for your project. The default target is aligned with the 2030 Challenge Targets. You may customize your target here.

Set as default. It's recommended to keep this as target to meet reduction targets.

pEUI

15.07

kBtu/ft²/yr

Set your unique target

Use custom

Energy Savings **80%**

Filters are preset to the Use Types entered in Step 2. You can compare your percent reduction to other projects by selecting other use types or climate zones. Box plots are commonly used to show a range of data across quartiles. These box plots show all projects reported through the 2030 Commitment which match your selected use types and climate zones.

Current project use types

All climate zones

pEUI% Savings

◀ Back ✔ Save and view project

Project Dashboard

- Project Status
- How you Compare
- Progress towards Goal
- Savings From Baseline
- Project Information
- Project Use Types
- Target
- Design Phase Data
- Collaborators
- Project Notes

AIA 2030 DDX

Portfolio Company Reports

Track design progress is not complete

AIA Austin **Project Status**

Active On hold Complete Cancelled

Select Date Range to Compare

How you compare

Category	Savings
Similar projects in DDX	~35
Firm Avg	~45
This Project	0

Progress towards goal

Track design data to see how your portfolio is performing.

Line Chart after data is reported.

Savings from baseline

0%

Track data

Last reported on

2030 Target	Project Target	Predicted EUI
15.07 kBtu/ft ² /yr	15.07 kBtu/ft ² /yr	N/A kBtu/ft ² /yr

Project Information

Basic Information

Project name: AIA Austin

Firm project number: 1399-1615145153681

Extended Information

Occupancy year: 2021

Daily average occupants: N/A

Construction cost

Category	Value
Sitework	N/A
Building	N/A
Total	N/A

May cost data be used for research?

Track Design Data

By Code Compliance only needs

- Reporting Phase
- Reporting Date

Optional Inputs

- Predicted Energy Use
 - Energy Model and Info
- Renewable Energy
 - Onsite
 - Offsite
- Embodied Carbon
- Additional Inputs
 - Window Wall Ratio
 - Appendix G Baseline Model

AIA 2030 DDx

Portfolio Company Reports

Back Save & go to project dashboard

Track Design Data

Reporting phase * Concept Reporting date 3/7/2021

Predicted Energy Use

Energy modeling is the only way to accurately quantify the impact of design decisions on energy use and cost. Add fuel source information to more accurately understand the carbon footprint of your project. If your project has never been energy modeled, the estimated percent savings will be calculated using code equivalents provided by the New Building Institute.

Has energy modeling been done for this design phase? No Yes

Renewable Energy Sources

Going carbon-neutral requires renewable energy options. AIA encourages signatories to track the use of both on-site renewables, like photovoltaics, and off-site renewables, like Renewable Energy Certificates (RECs).

Are renewable energy sources included in this design phase? No Yes

Predicted Lighting Power Density

Lighting Power Density (LPD) is the electrical load of lighting per area lit. Getting LPD right is critical to resolving lighting challenges and designing more efficient spaces.

Has lighting power density been calculated for this design phase? No Yes

Embodied Carbon

Embodied carbon refers to carbon dioxide emitted during the manufacture, transport and construction of building materials, together with end of life emissions. AIA encourages whole building life-cycle analysis (LCA) in pursuit of carbon-neutral buildings.

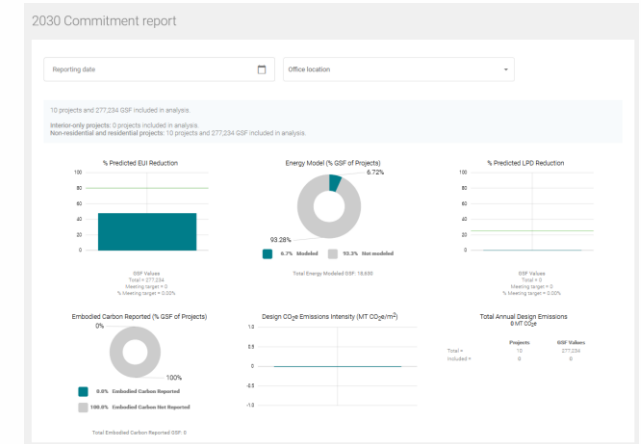
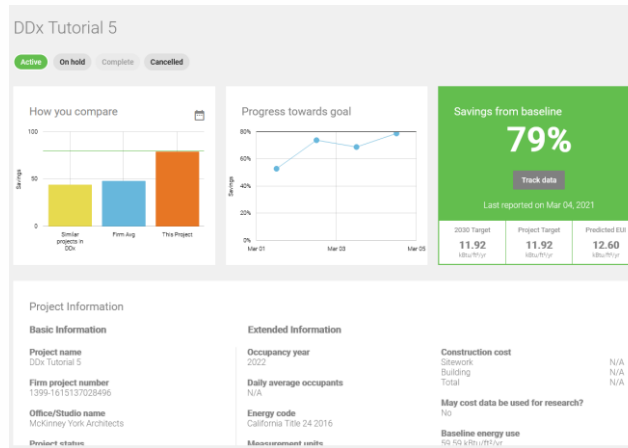
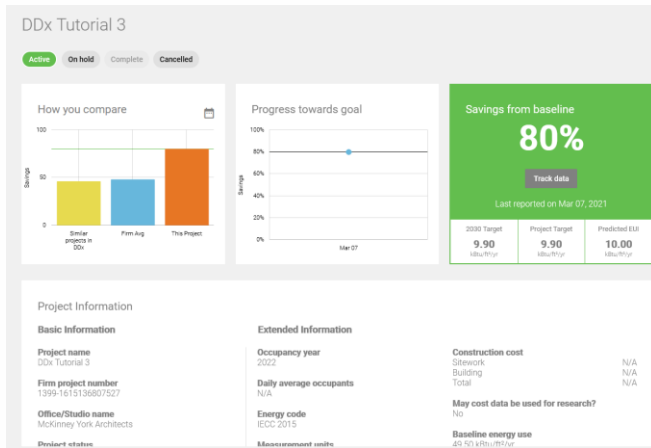
Has embodied carbon been calculated for this phase? No Yes

Additional Inputs

These optional fields enable you to save additional, relevant data about your project. Track window-to-wall ratio and your Appendix G Baseline Energy Model here.

Window/wall ratio % ASHRAE 90.1 appendix G baseline energy model kBtu/ft²

Process



Create Projects



Input Data



Track Progress



Submit Annually

Communication

Report to Project Teams

- Have regular check-ins with sustainability champions to keep project on track
- Share lessons learned and modeling best practices for similar projects

Report to Firm

- Reporting for 2030 Commitment
- Check progress against Sustainability Action Plan
- Investigate why projects are under-performing
- Fail Forward
- Celebrate

Marketing

- Website
- Social Media
- Email Blasts
- Proposals and RFQs

Energy Modeling Tools

- 30 AEDG AERG
 - 50 AEDG AERG
 - Autodesk Insight*
 - Climate Studio*
 - Cove.Tool*
 - DOE 2.2
 - DOE 2.1E Energy Pro
 - DOE 2.1E VisualDOE
 - DOE 2.2 Green Building Studio
 - DOE 2.2 eQuest
 - Energy Plus
 - Ladybug
 - HAP HEED
 - Home Energy Saver
 - IES – Virtual Environment*
 - NEO Net Energy Optimizer*
 - PlanITImpact*
 - REM Rate
 - Sefaira*
 - Trace 700
 - TRNSYS
- *Direct input through API.

Resources

AIA National

[AIA 2030 Commitment by the Numbers](#)

[AIA 2030 Firm Directory](#)

Graphics

[Data Viz Project](#)

[Project Stasio](#)

[Visual Display of Quantitative Information](#)

Questions?