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HigherEd Benchmarking Initiative

Second Round

Brendan Hall, Higher Education Lead, EPA ENERGY STAR Buildings

July 14th, 2022, 1-2pm ET

Agenda

1   About the Higher Education Benchmarking Initiative (HEBI)

2   How to Participate

3   Q&A

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About the HEBI

EPA ENERGY STAR

ENERGY STAR is a voluntary program at the U.S. Environmental Protection Agency that helps businesses and individuals save money and protect our climate through superior energy efficiency

- Is your organization…
  - An EPA ENERGY STAR partner?
  - Benchmarking buildings in ENERGY STAR Portfolio Manager?
  - Pursuing available ENERGY STAR recognition?

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HigherEd Benchmarking Initiative

We welcome all 2- and 4-year colleges and universities in the U.S. and Canada to participate!

- Created in 2020 to spark dialogue and action on improving efficiency and reducing GHG emissions in buildings, overcoming sector barriers

- Provides a way for colleges and universities to understand how the energy and water performance of their campus buildings compares to that of peer institutions

- Individualized scorecards, delivered at no cost

- Data is kept anonymous and not shared outside of EPA

- Pivot to other program goals, such as working with industry associations to develop and administer a survey for additional 1-100 ENERGY STAR Scores for the sector

HEBI: First Round

- 187 participating campuses from 101 institutions
- Calendar year 2019 data reported in 2020, scorecards delivered 2021
- [Summary Scorecard](#)

- Follow up survey
  - Input
    - Peer groups based on two or more variables
    - Data quality/accuracy follow-up
    - Site Energy Use Intensity (kBtu/ft2) in addition to Source EUI
    - Comparisons at smaller granularity than campus
  - Positive feedback

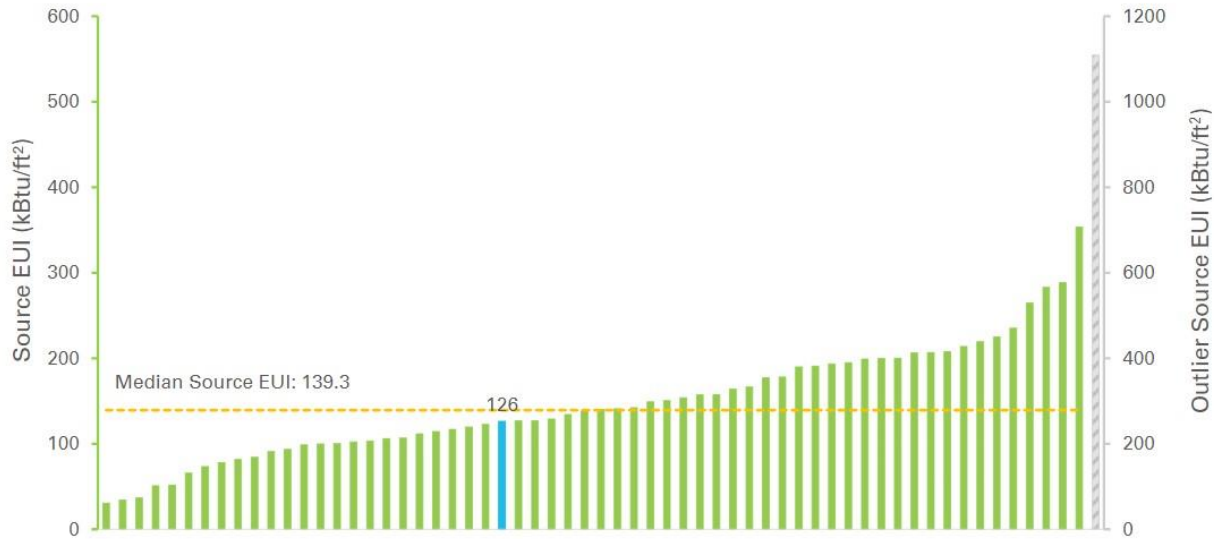# Example Scorecard Content: Hopkinsville Community College

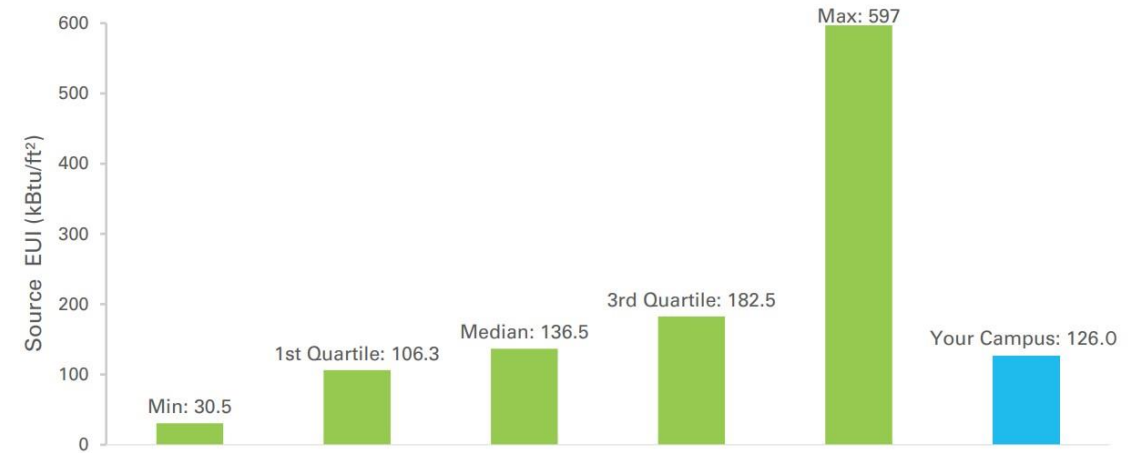|	
Institutional Control:	**Public**
Carnegie Classification:	**Associate's College/Special Focus Institution**
IECC Climate Zone*:	**Climate Zone 4: Mixed**
Campus Source Energy Use Intensity (kBtu/ft²):	**126**
Campus Water Use Intensity (gal/ft²):	**N/A**

IECC Climate Zone
25 / 61
Climate Zone 4: Mixed

2019 Fall Term Headcount of On-Campus Residents
37 / 108

Campuses With 0% of Residents Living On-Campus

Note: Accounts for residents (students, employees, other individuals) living in university-owned housing included within your campus boundary, including housing buildings that your institution fully leases.

Round 1 Survey Results

Overall, how much value did you get out of your HEBI scorecard(s)?

7.3 / 10

(1 = No Value & 10 = Significant Value)

If a second round of the HEBI is offered, how likely is it that your institution would participate?

74% very likely

26% somewhat likely

0% not very likely, not at all likely, or unsure

"I use a variety of items to track our progress for consumption reduction. So it is great being able to know where I am in comparison to other institutions. I will be adding the information into an annual report."

— HEBI participant

"The HEBI reinforced the need to benchmark against peers when considering performance. We are doing a great job but comparing ourselves to other institutions helped us realize that we still have savings opportunities."

— HEBI participant

"This was a wonderful first effort towards engaging the higher education community."

— HEBI participant

INAUGURAL HEBI PARTICIPANT LIST

American University
Arizona State University
Arkansas Tech University
Ashland Community & Technical College
Auraria Higher Education Center
Bellevue College
Big Sandy Community & Technical College
Bluegrass Community & Technical College
Boise State University
Boston University
Brandeis University
Bucknell University
California State University
Case Western Reserve University
Central Carolina Technical College
Central Washington University
Cleveland State University
College of Charleston
Colorado Mountain College
Colorado State University
Community College of Allegheny County
Concordia University
Cuyahoga Community College
Dalhousie University
Dominican University
Dallas College
Duquesne University
Elizabethtown Community & Technical College
Endicott College
Franklin W. Olin College of Engineering
Gallaudet University
Gateway Community & Technical College
Georgetown University
Hawai'i Pacific University
Henderson Community College
Hopkinsville Community College

Houston Community College
Husson University
Illinois Institute of Technology
Jefferson Community & Technical College
Lehigh University
Lenoir-Rhyne University
Macalester College
Madisonville College
Manhattan College
Maysville Community & Technical College
Milwaukee Area Technical College
Montclair State University
Montgomery College
Morehouse College
North Seattle College
Oakton Community College
Ohio University
Owensboro Community & Technical College
Portland Community College
Portland State University
Raritan Valley Community College
Red River College
Saint Peter's University
Salisbury University
Seattle Central College
Seminole State College of Florida
Saint Peter's University
Salisbury University
Seattle Central College
Seminole State College of Florida
Somerset Community College
South Seattle College
Southcentral KY Community & Technical College
Southeast KY Community & Technical College

Stanford University
State University of New York at Albany
The Catholic University of America
The College of New Jersey
The College of Saint Scholastica
The University of Chicago
The University of Cincinnati
The University of Tennessee
Towson University
University of Alberta
University of Arizona
University of California San Francisco
University of Connecticut
University of Kansas
University of Michigan
University of Minnesota
University of New Brunswick
University of North Carolina at Charlotte
University of Pittsburgh
University of Southern California
University of St. Thomas
University of the South
University of Utah
University of Virginia
Valencia College
The University of Texas at San Antonio
Washington and Lee University
Washington State University
Wells College
Wentworth Institute of Technology
West Kentucky Community & Technical College
Whitman College
Williams College
Yale University

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About HEBI Rd 2

- **Submission Deadline: September 1, 2022**
- Goal is to deliver scorecards late 2022 with peer groups based on 2+ variables
- **New:** Residential Building Data comparison
- **New:** Data quality standards and follow-up
- **New:** HEBI webpage
  - Instructions (note new Portfolio Manager data reporting method for Rd 2)
  - PDF copy of supplemental survey
  - Communications Toolkit (or look out for EPA social media posts you can echo)
  - FAQs
  - Recording of this webinar (once it's ready!)
  - Rd 1 Summary Scorecard

How to Participate in Round 2

HEBI Submission Checklist

1. **Prepare Your Campus-Level (and Residential Building) Data in ENERGY STAR Portfolio Manager**

   - Ensure alignment with the Instructions including property naming conventions

2. **Submit Your ENERGY STAR Portfolio Manager Data**

   - Run the Data Quality Checker to review your data for potential entry errors
   - Submit your data via the tool's property sharing function, per the instructions

3. **Complete the Supplemental Survey**

   - Complete the Supplemental Survey for each campus/submission

Step 1: ENERGY STAR Portfolio Manager Campus Data Benchmarking

- The main HEBI submission is at the campus level
- To benchmark your campus, you have two options:
    a) Submit a single property that represents the entire campus
    b) Submit a parent property that is associated with multiple individual child properties
- You will receive a scorecard for each campus you submit (requires filling out supplemental survey individually for each campus)
- Captures energy (and water) use and gross floor area

Option a)

Your Property Type

We'll get into the details later. For now, overall, what main purpose does your property serve?

College/University

Learn more about Property Types.

Your Property's Buildings

How many physical buildings do you consider part of your property?

○ **None**: My property is part of a building (e.g., a Tenant Space)
○ **One**: My property is a single building
● **More than One**: My property includes multiple buildings (Campus Guidance)

How many? 30

Option b)

- From the parent property's "Summary" tab, after individual child properties are benchmarked

Step 1: ENERGY STAR Portfolio Manager Residential Building Data Benchmarking

- **New this year:** You can submit a property representing one or more residential buildings
- To benchmark your residential buildings data, you have three options:
    a) Submit a single property that represents all residential buildings
    b) Submit a parent property that is associated with multiple individual child properties
    c) Submit individual residential building data
- Provided enough responses are received, participants will receive a scorecard for each submission that compares against other submitted residential building data
    - Requires filling out Supplemental Survey individually for each submission
    - If you intend to submit data for multiple residential buildings, please keep this in mind; submitting using options a) or b) above will make life easier for EPA and for you!
- Captures energy (and water) use and gross floor area

Option a)

Your Property Type

We'll get into the details later. For now, overall, what main purpose does your property serve?

College/University ⌄

Learn more about Property Types.

Your Property's Buildings

How many physical buildings do you consider part of your property?

○ **None**: My property is part of a building (e.g., a Tenant Space)
○ **One**: My property is a single building
◉ **More than One**: My property includes multiple buildings (Campus Guidance)

How many? 30

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Option b)

- From the parent property's "Summary" tab, after individual child properties are benchmarked

Option c)

- For individual residential buildings ONLY

Your Property Type

We'll get into the details later. For now, overall, what main purpose does your property serve?

College/University ▾

Learn more about Property Types.

Your Property's Buildings

How many physical buildings do you consider part of your property?

- ○ **None**: My property is part of a building (e.g., a Tenant Space)
- ● **One**: My property is a single building
- ○ **More than One**: My property includes multiple buildings (Campus Guidance)

How many? [   ]

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Step 2: Submitting Your Portfolio Manager Data

1. After logging into your Portfolio Manager account, click "Contacts" in the top right corner.
2. Click "Add Contact" and search for "jdmwebservices" in the Username field. Click "Connect." Wait for approval until moving to step 3.
3. From the main page, click the "Sharing" tab. Then click "Share with your Utility or Service Provider for exchanging data."
    1. Under the heading, "Select Webservices Provider (Account)," select "RE Tech Advisors Webservices (JDMWebservices)" from the drop-down menu.
    2. Under the heading "Select Properties," select all properties applicable to HEBI from drop-down menu.
    3. Under the heading "Choose Permissions," select "Bulk Sharing (Simple Option)" & "Exchange Data Read Only Access." Then click "Authorize Exchange."

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Step 3: Supplemental Survey

- **Submit Portfolio Manager data before filling out the survey**
- The survey captures characteristics that will be used to establish peer groups
- Three sections
  1. General Information
  2. Campus-Level Information
  3. Residential Building Data (optional)
- Can save and resume your responses at any time - **All responses must be submitted by September 1st**
- After submitting, a copy of your responses will be provided on the submission confirmation window and will be sent to the email provided in your response
- Institutions submitting multiple campuses will need to complete a separate survey response for each one

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HigherEd Benchmarking Initiative

The ENERGY STAR Higher Education Benchmarking Initiative (HEBI) Supplemental Survey

Introduction | Section 1: General Information | Section 2: Campus-Level Information | Section 3: Residential Building Data

Section 1: General Information

Name of Higher Education Institution *

Name

Main Point of Contact *

First | Last

Position Title *

Position Title

Email *

Email

Phone

Phone

Are you willing to be included in a public listing of institutions participating in the HEBI? *

Choose from Drop-Down

NOTE: Your data and performance results will remain completely anonymous, regardless of whether you choose to share your participation status. See *the final page of this document* for an example of how participation might be listed if you select "Yes".

What data did you submit via ENERGY STAR Portfolio Manager (or do you plan to submit)? *

Choose from Drop-Down

< Back | Next > | Save

22

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Overall Guidelines & Information

- Calendar year 2021 data
- Energy data is required, water data is optional
- Data accuracy and completeness is essential. The more accurate and complete your responses, the better and more useful your peer comparison results will be.
- Data that is not corrected will be excluded and a scorecard will not be created for that institution or campus.
- Residential Data:
  - This submission is separate from the campus data submission. The residential building(s) must be metered for all fuels used, either at an individual building level or as a group.
  - The corresponding survey questions are required only for those that complete the residential building data submission.

Q&A

FAQ: *How do I define the boundary of my campus?*

- For the purposes of this initiative, the EPA defines a campus boundary as a geographically contiguous collection of buildings that function as a single property and that include a variety of building types typical of a college or university

- The usage data and GFA you submit should meet the definition of a "College/University" and be as complete as possible in representing the total of your campus buildings

- Include all energy and water use on campus, e.g., streetlights, parking, and sprinklers

- DO include buildings that the institution leases where consumption data is available and that are located on campus, like auxiliary student housing

- DO NOT submit energy and water data for individual buildings that your institution owns but that are located outside of the campus boundary, such as an office building located in a downtown area when the rest of campus is rural and geographically separate

FAQ: *What are the benefits of participating?*

- Receiving one or more scorecards showing how you compare with peers

- Getting listed publicly as having participated in the Initiative

- Having the opportunity to use the effort as a springboard to benchmarking energy and water use, making improvements, and earning EPA recognition

- Contributing to EPA's efforts to advance building energy performance

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EPA ENERGY STAR Buildings for Colleges & Universities
energystar.gov/highered

Brendan Hall, Higher Education Lead
Hall.Brendan@EPA.gov

Help Desk:
energystar.gov/buildingshelp

Training resources:
energystar.gov/buildingstraining

HEBI Ask the Expert!
Tuesday July 27th
12:00pm EST
Register here