

Better Buildings Summer Webinar Series

We'll be starting in just a few minutes....

Tell us...

What topics are you interested in for future webinars?

Please go to **slido.com** and use event code **#DOE** to submit your responses.



Energy-Saving Success Stories: 2021 Building Envelope Campaign Recognition

July 27, 2021

3:00 – 4:30 pm EDT



Hayley McLeod
Oak Ridge National Lab

Please go to www.slido.com

using your mobile device, or by opening a new window

Enter Event Code

#DOE

Thank you to our Organizers!



**The American
Institute
of Architects**



IFMATM

International Facility Management Association



IBEC

International Institute of
Building Enclosure Consultants

Poll 1

What is the Building Envelope Campaign?

- Current Better Buildings Technology Campaign
- Designed to help create more energy efficient buildings by improving envelope performance
- Introduces a new building envelope assessment metric *and* assessment tool: Building Envelope Performance (BEP) value



Building Envelope Campaign Goals

- **Motivate action and increase awareness** of the value of investing in high performance building envelope technologies for both new and existing commercial buildings
- **Recognize leaders** adopting and achieving high performing building envelope systems
- **Demonstrate and document** energy and cost savings with integrated design, construction, commissioning, and maintenance from implementation of high performing envelope systems

Year 1 Recap

**16 buildings were submitted,
14 were eligible for recognition,
1.5 million square feet of conditioned floor area, and
9 million kBTU and \$500k annual savings and based on envelope technologies alone.**

Buildings are a diverse group of new construction and retrofit projects from across the country representing multiple sectors: healthcare, education, commercial, and industrial.

Year 2 – A Look Ahead

Continued growth

More Participants and Supporters

Greater impact

Reach additional sectors

Hospitality

Retrofit projects

Introduced a CO₂ Reduction Estimator

Developed our “Successes” page


Participant Spotlights

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Filter:

Sort by (alphabetical):

BVSD EDUCATION CENTER



BEC Participant: Boulder Valley School District
Location: Colorado & **Sector:** K-12 Education

The BVSD Education Center comprises a series of buildings originally constructed in 1963, with the latest addition completed in 1983. BVSD conducted Owner's Project Requirements + Basis of Design and detailed energy and performance analyses for ... [READ MORE >](#)

INDUSTRIAL CENTER BUILDING ADDITION



BEC Participant: Fermi National Accelerator Laboratory
Location: Illinois & **Sector:** Government (DOE)

The Industrial Center Building Addition to Fermilab will directly connect the floor areas of two existing facilities, thus reducing the exterior envelope and presenting an opportunity to embrace the guiding principles of the 2015 Fermilab Campus Master Plan ... [READ MORE >](#)

1. ENTRY

2. BUILDING ENVELOPE PERFORMANCE TOOL

3. RESULTS

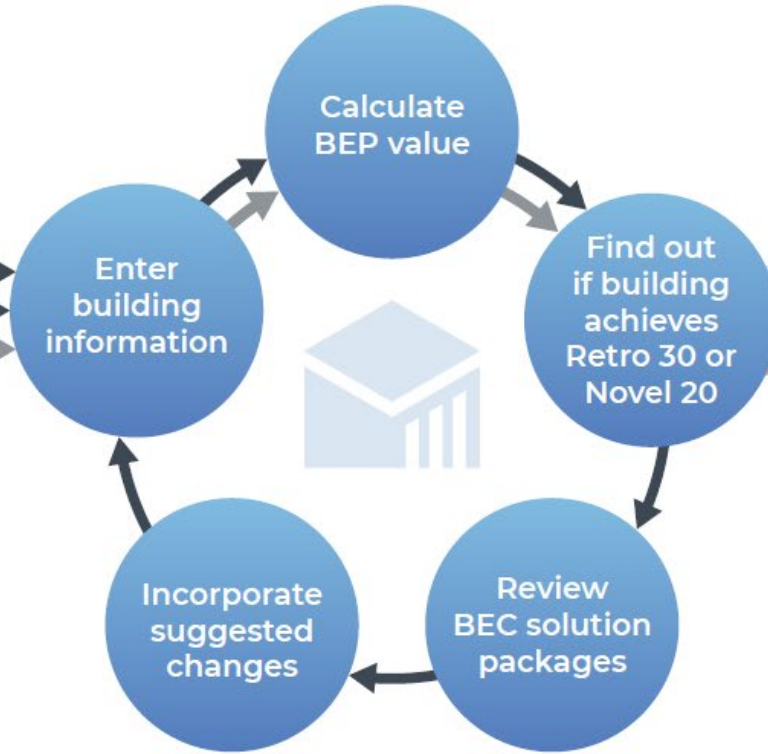
 Design

 Construction

 Post-construction

Join the Campaign at any stage of the construction process

Only projects in the design or construction phases will be able to use the solution packages to make changes and improve their BEP-value, but buildings may still apply for recognition in the post-construction phase.



Identify inefficiencies and areas for envelope improvement

- ✓ Wall performance
- ✓ Window performance
- ✓ Roof performance
- ✓ Airtightness

Document your savings and utilize BEC resources to improve your next envelope project

✗ Below recognition thresholds

✓ Eligible for recognition

Submit

Verify



Get recognized!

Eligible buildings will be recognized annually

2021 Building Envelope Campaign Recognition



EVERNORTH

Vergennes Community Housing

Vergennes Community Housing, Western View
Photo Credit: Ryan Bent

Poll 2

Better Buildings: Summer Webinar Series



ELECTRIFYING OUR BUILDINGS: CHALLENGES AND SOLUTIONS

June 8

WATCH RECORDING



BECOMING ESPC-READY

June 15

WATCH RECORDING



BOOSTING INDUSTRIAL AND MANUFACTURING EFFICIENCY AND RESILIENCY WITH CHP

June 17

WATCH RECORDING



FINANCING IN HIGHER EDUCATION

June 22

WATCH RECORDING



WHAT'S HOT WITH HEAT PUMPS

June 29

WATCH RECORDING



HOW TO IDENTIFY CHP PROJECTS THAT FIT YOUR GOALS

July 1

WATCH RECORDING



ESPC IN THE EXPRESS LANE: NEW PROJECT TRACKING TOOLS

July 13

WATCH RECORDING



WORKPLACE EVOLUTION: SUPPORTING OCCUPANT HEALTH WHILE ACHIEVING ENERGY EFFICIENCY

July 20

WATCH RECORDING



ENERGY-SAVING ENVELOPE SUCCESS STORIES

July 27



WASTE REDUCTION: LESSONS LEARNED AND WHAT COMES NEXT

August 3

REGISTER TODAY >



VISUALIZE YOUR ENERGY FUTURE WITH 'SLOPE': THE STATE AND LOCAL PLANNING FOR ENERGY PLATFORM

August 10

REGISTER TODAY >



WASTE REDUCTION:

LESSONS LEARNED AND WHAT COMES NEXT

Tue, August 3, 2021 | 3:00 - 4:00 PM ET

[REGISTER TODAY >](#)

For two years, DOE has worked with over 40 Better Buildings and Better Plants partners to identify and share waste reduction opportunities and strategies for multiple sectors. Join this webinar to hear about the lessons they learned and some of the resources developed as part of the Waste Reduction Pilot. Speakers will also take a look ahead at what comes next for waste reduction efforts in Better Buildings and beyond.

ON-DEMAND BETTER BUILDINGS WEBINARS



Through Better Buildings webinars, experts discuss a variety of topics from Air Management to Zero Energy. These webinars are helpful resources on key subject areas in energy efficiency, water efficiency, resilience, and more. Below are webinars we have held over previous years. For each webinar, you can watch the video recording and follow along with the slide deck. To sign up for an upcoming live webinar, [click here](#).

EXPLORE BY TOPIC

[Building Envelope](#) | [Communications & Engagement](#) | [Data Centers](#) | [Energy Data Management](#) | [Financing](#) | [Green Leasing](#) | [Health & Wellness](#) | [Industrial](#) | [K-12 Schools](#) | [Lighting](#) | [Multifamily](#) | [Plug & Process Loads](#) | [Refrigeration](#) | [Renewables Integration](#) | [Resilience](#) | [Smart Labs](#) | [Space Conditioning](#) | [Treasure Hunts](#) | [Waste Reduction](#) | [Water & Wastewater](#) | [Workforce Development](#) | [Working with National Labs](#) | [Zero Energy Buildings](#)

■ Indicates the session was a part of the 2020 Virtual Summit. To view a full list of the Summit Sessions, [click here](#).

BUILDING ENVELOPE

A building's envelope (walls, windows, roof, and foundation) accounts for approximately 30% of the primary energy consumed in residential and commercial buildings. Explore all previously recorded webinars on this topic by pressing MORE.



- [Unsealed: The Building Envelope Campaign](#) (2020) ■
- [Sneak Peek of the Building Envelope Campaign](#) (2020)
- [Addressing the Envelope: Recognizing Building Enclosure Improvements](#) (2020)
- [Innovative Wall Technologies for Commercial Buildings](#) (2019)
- [Energy Savings Impact of Airtightness in U.S. Commercial Buildings](#) (2019)
- [Building Envelope/Enclosure Commissioning and Retro-commissioning](#) (2017)

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Additional Questions?

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<https://betterbuildingsolutioncenter.energy.gov/>



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