

Q2

April – June 2022

be
ex

building
energy
exchange

● BE-Ex team

Richard Yancey
Executive Director

Yetsuh Frank
Managing Director,
Strategy and Programs

Katie Schwamb
Senior Manager, Projects

Helen Chananie
Manager, Projects

Will DiMaggio
Senior Associate,
Communications and
Programs

Nina Prescott
Senior Associate, Programs &
Partnerships

Grennan Milliken
Associate, Projects

August McEachern
Associate, Programs

Noor Ain
Assistant, Projects

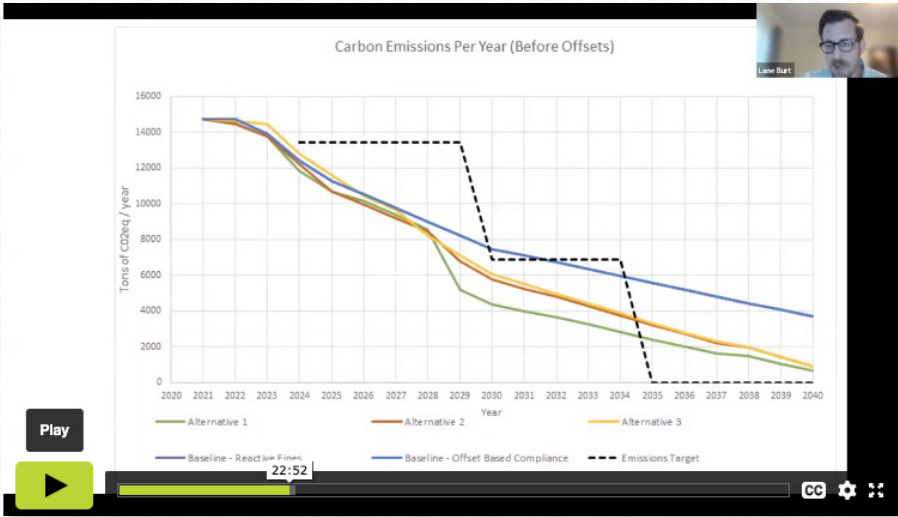
Lila Blank
Intern

This quarter, BE-Ex was pleased to deliver a successful annual daylighting campaign, significant hosted and developed programs, and future-focused resources.

May 4, 2022

High Rise / Low Carbon:
Financing Deep Retrofits

As part of the Empire Building Challenge educational series with NYSERDA, High Rise / Low Carbon, BE-Ex was pleased to host a discussion about long-term capital planning and financing for deep retrofit work. Following a presentation of strategic decarbonization assessment strategies, panelists emphasized the importance of moving beyond simple payback analysis to achieve efficient investment and phasing of building improvements.

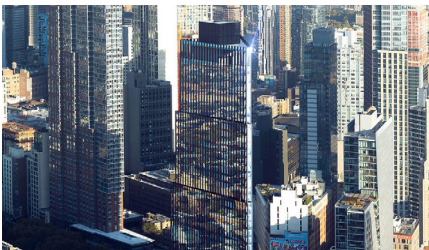




April 5, 2022

Climate Mobilization Act Series: All-Electric NYC Buildings

With attention to New York City's all-electric new buildings mandate under Local Law 154 of 2021, a panel of experts showcased successful all-electric buildings and the impact of systems on the electric construction process, policy compliance, environmental justice and public health.



► <https://be-exchange.org/climate-mobilization-act-series-all-electric-nyc-buildings/>

April 28, 2022

Beyond Zero Series: Industrializing Construction

During this Beyond Zero Series program with NYSERDA, design and construction experts showcased replicable and scalable strategies for accelerating the construction of carbon neutral buildings. Panelists highlighted how these industrialized methods of construction help to accelerate building decarbonization and the expansion of carbon neutral communities.

► <https://be-exchange.org/beyond-zero-series-industrializing-construction/>

insight:

In Review: Daylight Hour 2022

by August McEachern

Associate, Programs & Communications

Building Energy Exchange

On June 22nd, Building Energy Exchange hosted its annual Daylight Hour campaign in partnership with Fitwel®, inviting participants across the world to turn off their lights from 12-1pm local time and post their involvement using the hashtag #daylighthour.

Since its inception in 2014, the campaign has drawn on the collective action of turning off non-essential lighting for one hour to reduce energy use, save money, and cut carbon emissions.

The 2022 campaign sought to build upon this message and bring to light the connection between well-being and sustainability. While daylit spaces save energy, they also host a myriad of health benefits. Studies show that daylight exposure benefits productivity, circadian cycles, sleep quality, and job satisfaction, while lessening eye strain, headaches, stress, and depressed mood.¹ In schools,

daylight improves attendance and achievement. In healthcare settings, patients exhibit improved recovery time.² The evidence is clear; daylighting is good for our health and our planet.

On June 21st, BE-Ex and Fitwel® hosted “Daylight Hour: Redesigning Daylight”, a panel event highlighting projects that were designed with daylight in mind. Over 100 registrants signed up to hear from lighting experts and witnessed material examples of daylighting improving our built environment.

On June 22nd, an overwhelming number of individuals participated in our social media campaign. With 634 registrants, 377 organizations, and an estimated 30,000 individuals participating in 304 cities, 41 states, and 23 countries, we demonstrated the collective power to improve sustainability and well-being in our work environment. ■

1 An, M., Colarelli, S.M., O'Brien, K., & Boyajian, M.E. (2016). Why We Need More Nature at Work: Effects of Natural Elements and Sunlight on Employee Mental Health and Work Attitudes. PLOS One, 11(5).

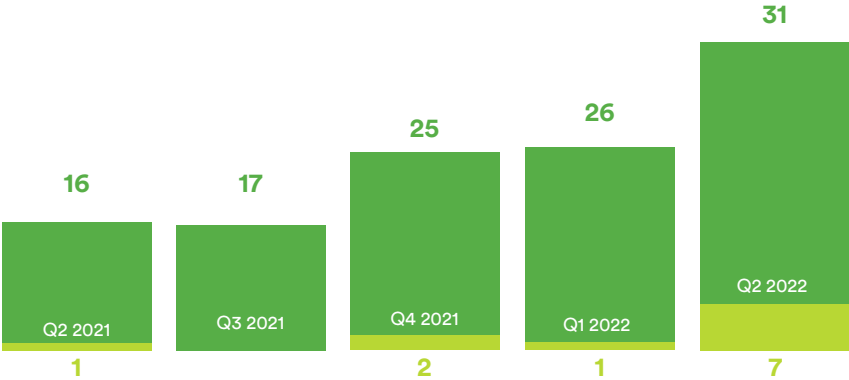
2 Edwards, L. & Torcellini, P. (2002). A Literature Review of the Effects of Natural Light on Building Occupants. National Renewable Energy Laboratory. Retrieved from: <https://www.nrel.gov/docs/fy02osti/30769.pdf>.

● **programs**

BE-Ex delivered over thirty events in Q2 of 2022, a significant increase highlighting the expansion of Passive House educational offerings. Panel events for our Climate Mobilization Act, High Rise / Low Carbon, and Beyond Zero Series attracted sizable audiences—207 attendees on average.

BE-Ex hosted events

Q1-Q2 2021 events took place virtually due to Covid-19 restrictions. Beginning in Q3, both online and hybrid (in person and online) programs have been offered.



BE-Ex developed events

diversity goals

- 1. No all male panels
Q2 number: 0
- 2. 50% female speakers across BE-Ex events
Q1: 51%



average number of days on calendar, BE-Ex events

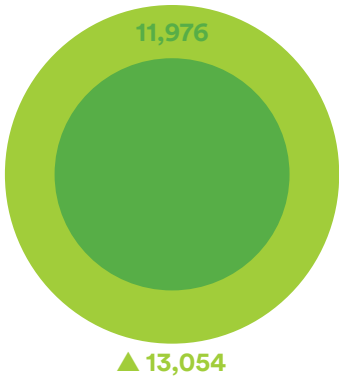


average attendance, BE-Ex events

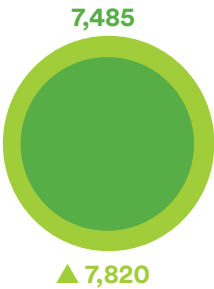
● audience

BE-Ex enjoyed sustained growth in audience during Q2, adding over one thousand individuals to our newsletter list, and passing a milestone of 13,000 subscribers.

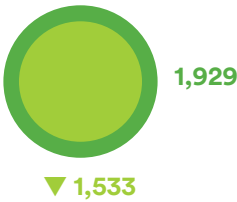
newsletter subscribers



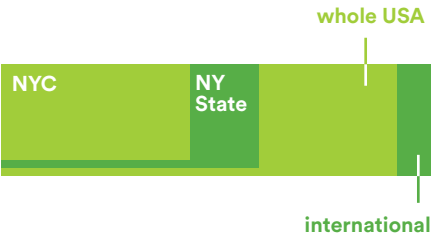
social media followers



resource downloads



program audience
geographic distribution



23,684

unique website sessions in
Q2 2022

Women in Sustainability & Energy Series: Returning to In-Person Programming



On April 19th, 2022, the Women in Sustainability & Energy Series hosted a networking lunch event, signaling a welcomed return to convening the WISE community at the Exchange for in-person programming.

In collaboration with Columbia University's Women & Sustainability group, WISE paired seasoned professionals in the energy & sustainability industry with graduate students for an informal networking session over lunch.

upcoming events

The WISE series is looking forward to maintaining our successful online programs and welcoming our community back to the Exchange in 2022 with a number of upcoming programs, including:

- **July 7 - WISE Media Club: Counting Carbon from Farm to Table**

Take part in an online community conversation about the climate impacts of food, taking a deeper look at climate-friendly diets and the surprising impacts of cooking methods and appliances on the carbon footprint of our meals.

- **September 27 - WISE: Leadership in Climate Tech**

Hear from women pioneering efforts to create and implement climate solutions in the tech industry as they discuss their professional trajectories, innovative approaches for addressing climate change, and outlook on the future of climate tech.



Daylight Hour

recap of the 2022 campaign

On June 6, 2022, Building Energy Exchange and Fitwel ran Daylight Hour, a social media campaign aimed at reducing energy use by turning off nonessential lighting from 12-1pm local time.

For one hour, participating organizations relied on daylight and learned about the benefits to efficiency, energy savings, occupant health and comfort.

Fitwel sponsored this year's campaign and partnered with BE-Ex on *Redesigning Daylight*, an event exploring case studies and measurable benefits of daylighting to improve work and home environments.

Over 28,900 registrants, from 370+ organizations, spanning 300+ cities, 42 US States, and 23 countries participated in the 2022 campaign.

Explore the details of the 2022 campaign at daylighthour.org.



August 9, 2022

**A Conversation with NYC
Council Member Jim
Gennaro**

Jim Gennaro, NYC Council Member and Chair of the Committee on Environmental Protection, has written over 50 environmental and public health-related local laws in his impactful career. During this special program for BE-Ex Industry Leadership Council members, CM Gennaro will speak with Donna De Costanzo of NRDC about his longstanding impact on NYC environmental policy and outlook on today's most important climate and sustainability issues.



September 14, 2022

High Rise / Low Carbon: Sharing Heat

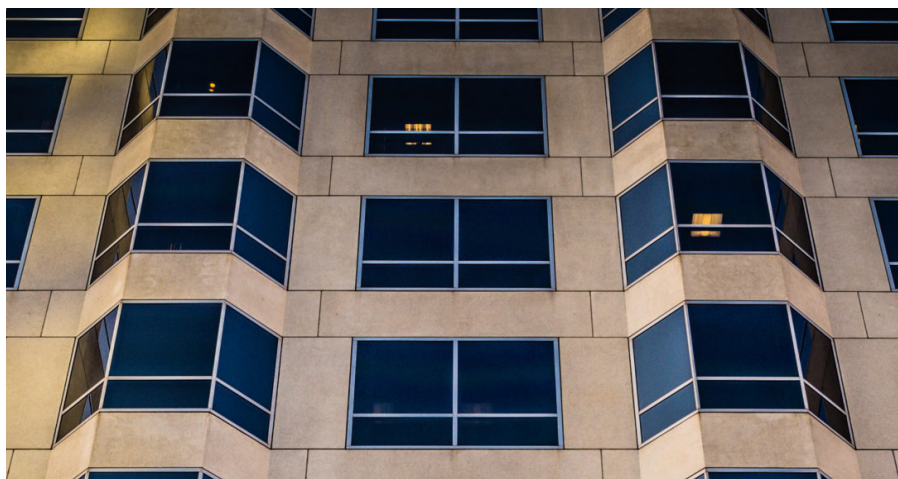
Developed in support of the Empire Building Challenge (EBC), this High Rise / Low Carbon series event from BE-Ex and NYSEERDA focuses on sharing heat across building occupancies to improve building performance and energy efficiency. EBC partners will showcase the thermal network components of their projects and speak to the importance of these strategies in achieving high performance retrofits of large buildings.

► <https://be-exchange.org/high-rise-low-carbon-sharing-heat/>

July 26, 2022

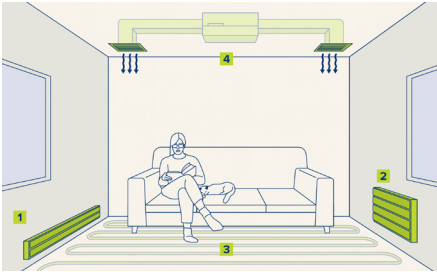
Pathways for Achieving Zero Energy – Small to Medium Office Buildings

With ASHRAE NY, BE-Ex will host a conversation about highly efficient, 'zero energy' office spaces that generate as much energy as they use, with direction from ASHRAE's Advanced Energy Design Guide. Referencing this resource, experts will talk strategy for how to achieve these improved outcomes for energy use, occupant wellbeing, and climate readiness.



► <https://be-exchange.org/pathways-for-achieving-zero-energy-small-to-medium-office-buildings/>

completed



resource

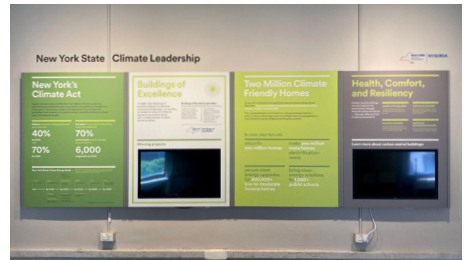
Heat Pump Planner: Ground Source Hydronic Patterns

Following the published Heat Pump Planner, BE-Ex and Steven Winter Associates are creating additional resources with support from NYSERDA, for residential consumers seeking information about purchasing, installing, and operating heat pumps in the home. Two ground source hydronic heat pump patterns have been developed that provide information for 1- and 2-story homes in the next published resource.

exhibit

Buildings of Excellence Exhibit Update

With support from NYSERDA, BE-Ex developed and installed four new panels to refresh the existing Buildings of Excellence (BoE) exhibit at the Exchange. The updated installation includes latest BoE program developments and policies of Governor Hochul's administration, along with a new slideshow of BoE award-winning projects.

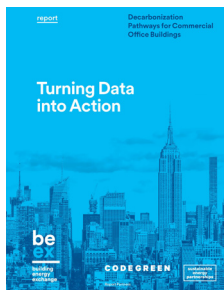


upcoming



course Climate-Ready Buildings Training

This educational course will focus on the integration of climate resilient and high performance strategies into building design, specifically for affordable housing projects. Supported by the NYC Mayor's Office of Climate & Environmental Justice, this training is intended for HPD-financed affordable housing project team members seeking Enterprise Green Communities certification.



tear sheets Commercial Data Into Action Tearsheets

These tearsheets will provide guidance on potential building retrofit pathways to achieve compliance with New York City's Local Law 97, as part of a larger set of resources designed to determine the greenhouse gas emission reduction potential of energy efficiency and electrification measures.

Our resources help building industry professionals understand the best efficiency and performance improvement options, with award-winning examples, digestible courses, and carefully analyzed pathways to guide decision making.

programs

Climate Mobilization Act Primer
April 21st, May 19th, June 9th

Passive House Primer
April 12th, May 17th, June 7th

Passive House Fundamentals Series
April 13th-14th, May 11th-12th, June 7th-28th

Climate Mobilization Act Series: All-Electric NYC Buildings
April 5th

Beyond Zero Series: Climate-Friendly Campuses
April 6th

WISE Media Club: Climate Tech Innovation Fueled by Women Founders
April 7th

50 Years of Sustainability – Looking Backward, Looking Forward
April 14th

Women in Sustainability & Energy Networking Lunch
April 19th

The Fundamentals of the Climate Mobilization Act and Passive House Design
April 26th

Beyond Zero Series: Industrializing Construction
April 28th

High Rise / Low Carbon: Financing Deep Retrofits
May 4th

Buildings of Excellence Competition – Round 3 Informational Session
May 5th

Sustainable Real Estate: Shaping Our Future
June 8th

programs (cont.)

High Rise / Low Carbon: Keep the Outside Out
June 14th

Beyond Zero Series: Designing Healthy Buildings
June 16th

Daylight Hour: Redesigning Daylight
June 21st

Inclusive Design and Building Performance: Exploring Synergies with Equity, Sustainability, and Health in the Built Environment
June 21st

project status

Q2 2022

- Buildings of Excellence Exhibit Update
- High Rise / Low Carbon Series Partner Profile
- Commercial Data Into Action - Report
- Commercial Data Into Action - Office Decarbonization Pathway Tearsheets
- EGC Training: High Performance and Climate Resilient Building Design

Ongoing

- Decarbonizing New York City Offices: Resources & Training
- HPD Local Law 97 Affordable Multifamily Roadmap – Case Studies & Best Practices Manual
- Heat Pump Planner Round 2
- BE-Ex Midwest Hubs Support