

## BE-Ex team

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**Regana Alicka** Associate, Projects

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We have rounded out 2020 with an impressive slate of educational content and resources that tackle some of the most critical issues facing the energy efficiency community, including programs on affordable housing, a global report on high-performance commercial towers, and technical assistance for improving ventilation in multifamily buildings.



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#### **November 12**

High Rise | Low Carbon Report Launch The High Rise | Low Carbon Report made its debut paneled by project collaborators, BE-Ex, NYSERDA, and Level Infrastructure with an overview of this compendium of diverse projects—the survey methodology, individual project profiles, and key findings—and the implications it holds for building stakeholders as local and State climate policies come into effect.





# December 2 The Future of Water

A discussion of the long and short term efficiency measures of one of our increasingly strained resources as water rates rise and management technology improves. Private sector, public works, and institutional portfolios were among the perspectives represented, moderated by Teghpal Sandhu, CEO of Live Building Systems.



https://be-exchange.org/the-futureof-water/

# **December 8, 2020** Better Ventilation: Solutions for Multifamily Buildings

BE-Ex and a panel of experts from both the private and public sector celebrated the launch of our latest playbook: "Better Ventilation: Solutions for Multifamily Buildings" and a new case study. An affordable co-op in Washington Heights leveraged a ventilation upgrade and simple air sealing measures to improve occupant health and comfort while reducing emissions, as well as touched on COVID-19's impacts on the future of ventilation.

https://be-exchange.org/betterventilation-solutions-for-multifamilybuildings/

# column: Preventative Efficiency

by Yetsuh Frank Managing Director, Strategy & Programs Building Energy Exchange

One of the less remarked on but kev takeaways from the COVID-19 pandemic has been the importance of general health in times of crisis. The primary focus during the pandemic. for understandable reasons, has been on immediate actions. How do we limit transmission of the virus? How do we treat those who contract it? But moving forward we must also focus on the general health of everyone in our communities. Limiting the transmission of any virus is important, of course, but it is also important to ensure those that do get it are as resilient as possible.

Consider that a Johns Hopkins and Fair Health study of COVID deaths found that more than 80% had at least one pre-existing comorbidity (such as lung cancer, chronic kidney or heart disease, etc). A similar New York State study found this figure to be 90%. In each study, as the number of a patient's comorbidities increased, so did their chance of dying from COVID-19. It is clear that even in the midst of an acute health crisis, preventative medicine is every bit as important as immediate action.

All of which has got me thinking about the parallels in our industry to the climate crisis and the need for preventative efficiency within our building stock.

Electrifying all the systems in all of our buildings is a monumental task. Like any project of this scale, we need to break it down into component parts and work our way through them over time because it would be impossible to do it all at once. There's not enough money, not enough tradespeople, and not enough technical expertise on hand to simply switch everything over in a couple of years. So we need to start now, and to the extent feasible we should make our buildings as efficient as possible before we introduce electricity-based heating and hot water systems. This is preventative efficiencyretrofitting our buildings so they demand less energy, so we need less electricity to satisfy that demand when

To compliment local efforts already underway, the Biden administration climate action plan includes a goal to halve emissions from buildings by 2035 through an aggressive program to upgrade 4 million buildings and weatherize 2 million homes over 4 years.

we make the switch from fossil fuels.

The COVID-19 pandemic made clear that the health of our neighbors is critical to our own well being. The same is true of electrifying buildings. in the sense that we must all do our part reducing demand through efficiency or there won't be enough electricity to go around. Many in the real estate sector wonder if they should just wait till the last possible moment to electrify their legacy systems, but doing so places you squarely in the bottleneck and there is no guarantee you'll squeeze through it unscathed. The risk involved in waiting is considerable. If you are subject to Local Law 97 carbon emissions limits. vou risk significant financial penalties. If you plan on purchasing renewable energy credits to offset your emissions, there is no guarantee they will be available or affordable. Finally, if you hope to market yourself as a leader in any real estate sector, you'll be hard pressed to do so if you rely on dirty

fossil fuels to drive your systems.

Despite the lessons in solidarity we should take away from the global pandemic, it is probably naive to expect everyone to simply do the right thing. But goodwill is not the only pressure the real estate sector will be feeling in the years to come. New buildings will be required to meet both stringent, performance-based energy codes. as well as carbon emissions limits. Existing buildings will be competing with them in the marketplace; in a world that is streaming high-res audio, vou don't want to be the one still selling 8-track tapes. Fortunately, we finally have Federal leadership that is determined to reduce the costs of converting our building stock to meet the needs of this century. Energy efficiency is already the most cost *effective* means of reducing carbon emissions across New York State. To compliment local efforts already underway, the Biden administration climate action plan includes a goal

to halve emissions from buildings by 2035 through an aggressive program to upgrade 4 million buildings and weatherize 2 million homes over 4 years. Central to this plan are funds to spur the deployment of retrofit technologies, new and existing.

Public health and the built environment have another thing in common: change typically happens slowly. As a result, it can often feel like the status quo has always been thus-that nothing ever changes. But incremental change has always been the rule in buildings, where modifications are capital intensive and require significant coordination. This pace of change is why we need as many buildings as possible to advance retrofits now. Over the previous year we have learned that it is useless for only one of us to wear a mask. To mitigate the most dire impacts of climate change, individual building owners can't go it alone. We are all in this together and need to act accordingly, for selfish as well as altruistic reasons.

## 2020 in review

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# 4501 attended 53 programs

offsite primers: 191 attended 23 Programs

# 4692 attended 76 Programs

We are thrilled by the number and diversity of events developed in Q4, which span a wide array of topics on energy efficiency in the built environment. Since pivoting to remote programming in mid-March we have continued to expand our traditional formats and increase our audience.



# **BE-Ex developed events**

#### diversity goals 1. No all male panels Q4 number: 1 2. 50% female speakers across BE-Ex events Q4: 41% average number of average attendance,

average number of days on calendar, BE-Ex events average attendance, BE-Ex events

# audience

BE-Ex continues to realize terrific audience growth, with our newsletter and social media audiences growing nearly 40% over the past year. Our online resources were downloaded nearly 7,000 times by over 46,000 users across 71,805 sessions in 2020.



#### meet the BE-Ex team



Richard Yancey Executive Director Richard returned to his native Brooklyn, in 2005, after practicing architecture

and starting a family in Seattle, Washington. Responsible for developing and delivering on BE-Ex's mission, Richard leads the organization, staff, and finances, liaises with the Board and BE-Ex members, while taking an active role in key projects, including: the Commerical Data into Action report; our BE-Ex Architect Advisory Council initiative; and the Decarbonizing New York City Offices project.



Yetsuh Frank Managing Director, Strategy and Programs Yetsuh originally hails from Seattle and leads our

programming and communications efforts. He often hosts our live programming, including our podcast, Radio BE-Ex, and is currently working on a series of Heat Pump Pattern Books, as well as a collection of five Multifamily Retrofit Playbooks.



#### Talia Kula Manager, Development and Operations

Talia Kula is originally from Manhattan. She leads

fundraising activities and contributes to outreach and engagement with BE-Ex's corporate and government partners. Talia spearheads WISE programming and manages special projects. She recently completed a project creating a visualization and market engagement strategy for NYSERDA's Real Time Energy Management program.



# Helen Chananie Manager, Projects

Helen is originally from Brooklyn, NY. She has been leading the effort to roll out

BE-Ex Ed, our new on demand learning platform, and is currently working on the next update to our Passive House Primer series. In Q4 she coordinated diversity, equity and inclusion workshops for the BE-Ex team and Board.



#### Katie Schwamb Manager, Projects

Joining the BE-Ex team in Q4, Katie, originally from

Texas and currently residing in Brooklyn, NY, has been managing the roll out of the Decarbonizing New York City Offices project, a two-year initiative focused on assessing resource gaps and creating practical tools to support commercial real estate stakeholders in carbon and energy reductions; a series of Heat Pump installation guides for 1-4 family residences; and a LL97 Roadmap aimed at providing NYC Housing Preservation and Development (HPD) data-based strategies for meeting high-performance and carbon emissions goals.



#### Jordana Vasquez Senior Associate, Projects

Joining the BE-Ex team in Q4, Jordana trained as an architect and sustainability consultant

in New York City. She is currently working on the NYSERDA Multifamily Typology Playbooks and a set of materials for the Multifamily Passive House Playbook for the NYC Accelerator. She is originally from Santo Domingo, Dominican Republic.



#### Will DiMaggio Senior Associate, Communications and Programs

Will grew up in New Jersey and lives in Queens, New York. He oversees the organization's communications efforts, advises on digital presence, and is central to the development and delivery of programs. He is currently working on the LL97 Carbon Emissions Calculator, the webification of our physical exhibits, and the launch of the Radio BE-Ex podcast series.

#### **Regana Alicka**



Regana is currently working on developing the Passive House Primer series for BE-Ex Ed, our new on demand

**Associate, Projects** 

learning platform, as well as additions to the High Performance Case Study database. The first Passive House Primer course is available on the platform and the others are rolling out at the end of Q1. She is originally from the Bronx.



#### Becky Kalish Associate, Programs

Becky was born in Newton, MA. In Q4, she took on a leading role in BE-Ex

programs including logistics, development and marketing. Becky was instrumental in helping to put together a series of five playbooks of different multifamily building typologies for NYSERDA. Before leaving BE-Ex, she was responsible for social media and the weekly newsletter, and contributed to WISE programs.



#### Sabrina Tenteromano Assistant, Programs

Sabrina is originally from and is currently residing in the Lower Hudson Valley.

Throughout Q4 Sabrina created social media content to highlight NYC's carbon reduction goals and BE-Ex's current exhibits and projects, assisted in the development of BE-Ex Ed, supported BE-Ex online programming pre and post event, contributed to WISE program development, and consolidated the accomplishments of the BE-Ex team into the Q4 Zine. She is currently persuing her MS in Sustainability at the City College of New York.



#### Noor ul Ain Assistant, Projects

Noor is from Sialkot, Punjab but grew up in Brooklyn where she currently resides. She has

been working as Project Assistant at BE-Ex while studying architecture at the City College of New York. For the past few months, she has been working on continuing to identify and log buildings for BE-Ex's high performance building database, assisting the Projects team on the Passive House Primer modules, and helping with WISE programming.

## January 13, 2021

**Passive House Primer** 

Our popular one-hour Passive House Primer, refeshed in 2020, will be the first program offering of BE-Ex in 2021. Delivered by John Rockwell, trained architect and now Technical Sales Engineer with Zehnder America, it will cover Passive House fundamentals and their application in the real estate market today.



https://be-exchange.org/passive-house-primer-jan-13/

# January 26, 2021 February 17, 2021 Climate Mobilization Act Primer

Designed for key stakeholders and responding to updates in the legislation, the CMA Primer is a one-hour seminar that examines the basic principles of the Climate Mobilization Act, with a focus on Local Law 97, and offers actionable guidance for building decision makers. The January session will be delivered by George Kontaroudis, Senior Project Manager, Morris Adjmi Architects; the February, Pournamasi Rath, Sustainability Program Manager, Etinger Engineering Associates. Our CMA Primers are a part of our ongoing CMA Series.

- https://be-exchange.org/climate-mobilization-act-primer-jan-26/
- https://be-exchange.org/climate-mobilization-act-primer-feb-17/

# January 28 Radio BE-Ex

#### **Financing Deep Retrofits**

The first 2021 episode of Radio BE-Ex will feature Sadie McKeown of CPC discussing the financing of highperformance retrofits at scale in a growing market that includes affordable and market rate properties.

https://be-exchange.org/radio-beex-financing-deep-retrofits/

# February 23 WISE Media Club

#### **Biden's Climate Policy**

This interactive forum will facilitate discussion around President Biden's climate goals and challenges through conversation based on two podcasts.



#### completed

BE-Ex/NYSERDA

12/30/20

NYSERDA's Real Time Energy Management Program: Visualization & Market Engagement

# presentation RTEM Visualization

This project created concepts for a future visualization initiative—a side by side comparison of scenarios with and without RTEM—to clearly and directly communicate the benefits of RTEM systems to key market actors, such that they can better understand the enormous potential of these systems.

# playbook Better Ventilation

This playbook offers an overview of common ventilation system types, typical ventilation system problems, and solutions for better ventilation. It comes at an especially relevant time when COVID-19 work-from-home policies are being lifted and interest in ventilation system performance enhancements increases.

#### laybook

Better Ventilation Solutions for multifamily buildings

Improve indoor air quality, enhance resident health and comfort, and save energy by balancing and maintaining your ventilation system.



#### upcoming



report Architect Advisory Council

The Architect's Advisory Council provides actionable recommendations to catalyze the design and construction of predicted energy use code compliant buildings, as well as the integration of high performance building practices in architecture.



exhibit Envelope Showcase Online Exhibit

This deeper dive into the building envelope's role in energy efficiency expands on the envelope system as showcased in the Anatomy of an Energy Efficient Building Exhibit which provides a behind-the-scenes look at major building systems within New York City commercial and multifamily buildings.

While it has been an extremely challenging year, we remain heartened by what feels like renewed momentum behind mitigating climate change at the city, state and-finally-federal level. The critical role that buildings will play in climate action across the U.S. is now a regular talking point in mainstream media, which we hope bodes well for the quality of the places we live, work, and play.

#### programs (online)

ASHRAE Global HQ: Energy Modeling for Net Zero (Pt. 2) October 1st . . . . . . . . . . . . . Will Carlin: The Secrets to Pitching Online October 8th **Passive House Primers** October 13th, November 17th, December 9th ..... **Climate Mobilization Act Primers** October 14th, November 18th, December 15th What's My Penalty? LL97 Calculator Demo WISE Media Club: Food is Good, Let's Not Waste It ..... Climate Mobilization Act Series: Raising the Bar for Affordable Housing October 28th . . . . . . . . . . . . . . High Rise | Low Carbon Report Launch November 12th ..... WISE Ask Me Anything with Pfizer's Liz Girardi Schoen November 13th ..... The Future of Water ..... Better Ventilation: Solutions for Multifamily Buildings December 8th NYCHA'S Climate Mitigation Roadmap December 10th ..... WISE Trivia Night: Goodbye 2020! **December 16th** 

#### project status

#### Q4 2020

	BE-Ex Ed E-learning Platform
	Ventilation Playbook
	RTEM Visualization
Q1 2021	
	NYSERDA Multifamily Retrofit Playbooks
	Heat Pump Pattern Books
3	Brochure: Buildings of Excellence Awards
3	Passive House Technical Modules
3	Passive House Contractor Training
	Underwriting Passive House Playbook
3	Architect Advisory Council Report
3	Envelope Showcase Online Exhibit
3	Carbon Calculator 2.0
3	CTP Decarbonization Resources and Training

#### Ongoing

- Report: Data Into Action, Commercial
- HPD LL97 Affordable Guidance
- .....
- BE-Ex Ed Course Development



Target number days for event on calendar