



**be
ex**

**building
energy
exchange**

program

April 23, 2018

6:00 pm Welcome Reception

7:00 pm Remarks

Donna De Costanzo
Vice Chair, Building Energy Exchange
Eastern Region Director, Climate & Energy
Program, Natural Resources Defense Council

Jonathan Flaherty
Chair, Building Energy Exchange
Senior Director of Sustainability, Tishman Speyer

Daniel A. Zarrilli
Senior Director of Climate Policy & Programs and
Chief Resilience Officer, NYC Office of the Mayor

Gil. C. Quiniones
President & CEO, New York Power Authority

Mark Chambers
Director, NYC Mayor's Office of Sustainability

Alicia Barton
President & CEO, New York State Energy
Research Development Authority

John B. Rhodes
Chair, New York State Public Service Commission

Richard C. Yancey
Executive Director, Building Energy Exchange

7:45 pm Reception continues

welcome

Today the **Building Energy Exchange (BE-Ex)** celebrates a significant expansion of our reach and impact, adding a 100-seat, 21st century classroom and new exhibit and technology demonstration spaces to our Manhattan resource center. Launched in 2015, our independent non-profit is focused on advancing energy efficiency in buildings, which are responsible for 70% of New York City's greenhouse gas emissions. Acting as the information hub for all industry decision-makers, BE-Ex has already attracted over 12,000 visitors to more than 500 programs. The expansion of our center confirms that we are just getting started.

The Exchange is both a place and an objective; a neutral setting for ideas and progressive discourse. Our education, exhibits, and critical tools have ensured that we play a central role in the climate action plans of both New York City and State. We've hosted the programs of more than 50 other organizations. Our virtual presence, be-exchange.org, showcases our research, case studies, videos, and a community calendar. Our new connected classroom will multiply all of these resources, allowing us to share them globally.

We are grateful to our dedicated board and enthusiastic supporters, including NYSERDA, NYPA, the City of New York, and our incredible Founders Circle, who have helped us to make BE-Ex such a success. Together we can transform New York into a cleaner and greener city, built to last.

Sincerely,



Richard C. Yancey
Executive Director



Yetsuh Frank
Managing Director
Programs & Strategy

about our expansion

Doubling our capacity and greatly extending our reach, the expanded Building Energy Exchange center will be the central hub advancing energy efficiency in the built environment, both locally and around the world.

Our expanded center includes:

Connected Classroom – Our events and programs were bursting at the seams. With our expanded 100+ seat classroom and cutting edge technology, we are able to make our educational programming available to more people in New York City and across the globe.

Technology Demonstration & Exhibits Space – Our larger and more advanced exhibit and tech demo spaces make it possible to showcase proof-of-concept projects that demystify energy efficiency, inspire action, and encourage widespread adoption of energy saving technologies and strategies.

A Model for Energy Efficiency – We have turned our space into a living model of our mission. By replacing our old steam radiators and window A/Cs with a hydronic fan coil system and by installing advanced lighting, shading, and controls, we will reduce energy use at BE-Ex by approximately 40%.



our founders circle

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about **Building Energy Exchange**

The Building Energy Exchange (BE-Ex) connects New York City's real estate and design communities to energy and lighting efficiency solutions through education, interactive exhibitions, technology demonstrations, and research. We identify opportunities, navigate barriers to adoption, broker relationships, and showcase best practices online and at our resource center in downtown Manhattan.

BE-Ex's resources include:

Education – We deliver highly regarded forums and trainings that educate the industry, drive action, and spur collaboration. This includes our **Women in Sustainability & Energy (WISE)** series featuring women leaders and our **Passive House Primer** on the fundamentals of the high performance Passive House building standard. We also accelerate change by engaging stakeholders, convening market actors, and hosting events of partner organizations.

Tools – We develop critical resources to motivate change, including successful case studies and in-depth analyses of significant energy efficiency opportunities. We publish reports such as **Retrofitting Affordability: Turning Data Into Action**, which identifies “retrofit packages” for different building typologies. Additionally, we issue calls to action through initiatives such as **Daylight Hour**, where we ask our community to turn the lights off for one hour to raise awareness about the availability of daylight.

Exhibits – From proof-of-concept demonstration projects to educational exhibits on best practices, our work showcases new technologies and provides innovative resources to enable widespread adoption of energy efficiency.

our founders circle

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celebrate nyc

building a sustainable city

New York City was one of the first communities to think critically about the way our built environment contributes to climate change. Buildings are responsible for 70% of New York City's greenhouse gas emissions. **Celebrate NYC: Building a Sustainable City** honors the leadership of the dedicated professionals who have embraced this challenge. Their hard work has placed this diverse and vibrant city on a path to meet New York's ambitious goal of reducing emissions 80% by 2050.

Celebrate NYC showcases energy efficiency retrofits of buildings large and small, from homes and office towers to hospitals and museums. Each project has been made possible by a diverse set of professionals and has been supported by many organizations and government agencies.

We offer this exhibit to celebrate achievements to date and to inspire future action that will ensure a sustainable future for all New Yorkers.

60 projects on display:

a variety of measures:



lighting



heating



envelope



DHW



cooling



ventilation



controls



other



passive house

in a diversity buildings:



large
residential



mid-sized
residential



1-4 unit
residential



very large
commercial



large
commercial



small
commercial

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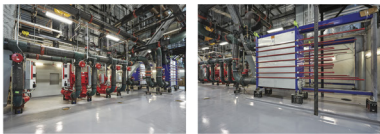
building a sustainable city

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4 Times Square



Manhattan

Recent mechanical and lobby upgrades turned this midtown centerpiece into a best-in-class tower, on par with today's new construction.



Very Large Commercial

built

1999

retrofit

2015–2017

heating fuel



gas

cooling fuel



electric

systems upgraded



public incentives

project team

The Durst Organization
HOK
Vidaris
Structure Tone
Severud Associates

EnviroNetics
Cerami & Associates
AKRF Inc.
Slanska
Siemens

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NYC Carbon Challenge program description

The **NYC Carbon Challenge** is New York City's long-standing voluntary leadership program that is working with more than 100 companies and organizations that have committed to 30 – 50 percent reductions in greenhouse gas emissions.

Last year, the Carbon Challenge celebrated its 10th anniversary and announced that all universities and hospitals in this program have now committed to at least a 40 percent reduction in greenhouse gas emissions.

Since 2015, the program has expanded into three new sectors: Hotels, Commercial Owners, and Retail. Participants have also deepened their greenhouse gas reduction targets, including 12 participants who have committed to cut their greenhouse gas emissions by 50 percent by 2025.



NYC Carbon Challenge Quarterly Partner Meeting



NYC Carbon Challenge program progress



510M square feet of real estate
9% of citywide built square footage



580k metric tons of CO2 equivalent reduced
58 million tons of particulate matter 2.5 removed



\$190M in energy cost savings



1600 direct jobs created



NYC Mayor's Office Presentation at BE-Ex



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