

Net Zero Exchange Series: Energy Efficiency

KARA KOKERNAK, ULI & BECCA TIMMS, JAMESTOWN LP

FEBRUARY 23, 2023



Agenda

- Introduction to ULI Greenprint and Net Zero Exchange Series 5 min
- Guest Speaker Presentation: Becca Timms, Jamestown LP 30 min
- Q&A for Becca 10 min
- Breakout Groups 20 min
- Open Discussion 20 min
- Next Net Zero Exchange Date & Topic 5 min





ULI Decarbonization Program

Reduce Carbon, Build Value



Content on **climate mitigation**, making the **business case for green buildings** and the journey to net zero for the global real estate industry





Collaborative of 74+ real estate
owners committed to improving the
environmental performance of
buildings and achieving net zero by
2050



Convene public and private sector at the local level to overcome barriers to decarbonization and accelerate real estate's journey to net zero

ULI Net Zero Energy Exchange

Programming for all Members to engage on Net Zero in a meaningful way

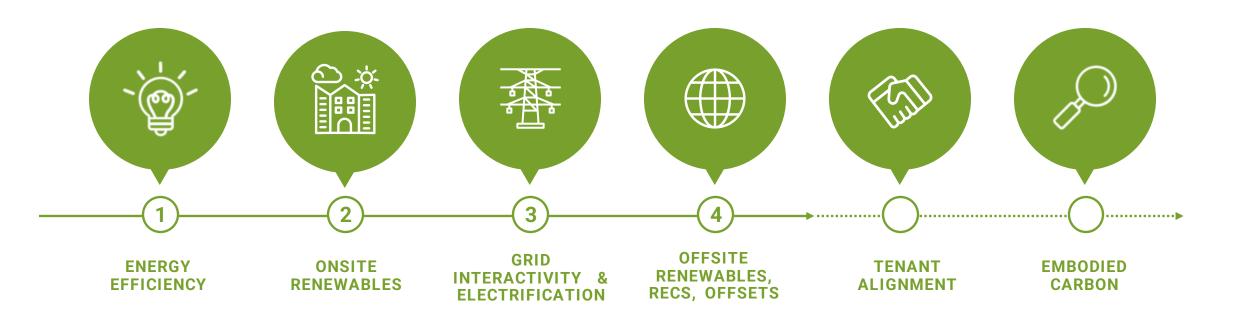
- Regularly scheduled series of meetings to facilitate conversations between ULI members, District Council staff, other global experts, and HQ staff
- Intended to help promote the most innovative and/or effective best practices for Net Zero
- Serve as an opportunity to share and exchange ideas with a presentation on a Net Zero topic, project/program updates from District Councils leadership, and a conversation between attendees
- Aims to foster increased ULI member collaboration, program and research ideas, and help facilitate the right types of Net Zero investment

Register for the series: https://americas.uli.org/ events/detail/76583669-8C9D-4087-BC9B-88447199A573/



Defining Net Zero

A net zero building portfolio is highly efficient and fully powered by on-site and off-site renewable energy sources and offsets





2023 Schedule – ULI Net Zero Exchange

Date, 1-2:30p ET	Topic	Suggested Speakers/District Council Projects
February 23 rd	Energy Efficiency	Becca Timms, Jamestown LP
April 20 th	Renewable Energy	Marina Badoian-Kriticos, HARC
June 22 nd	Grid Interactivity	TBD
August 24 th	Electrification	TBD
Oct 30 th – IN PERSON	Net Zero Exchange at ULI Fall Meeting	Open networking/engagement
Dec 14 th	Tenant Alignment	TBD



Becca Timms

Jamestown, LP



Becca Timms is the Director of ESG at Jamestown. She leads environmental, social and governance (ESG) initiatives through the Jamestown Green program and the Jamestown Charitable Foundation. Prior to joining Jamestown in 2012, Ms. Timms worked as a local government consultant for Clark Patterson Lee, where she served as Community Development Coordinator and Sustainability Commission Staff Liaison for the City of Dunwoody. She is a Certified Energy Manager (CEM) and holds a LEED AP O+M credential. Ms. Timms is an active volunteer with the ULI, the US Green Building Council, and Community Farmers Markets. She holds a Bachelor of Arts in Spanish and Environmental Policy from Sewanee: the University of the South and a Master of Science in Sustainable Development: Environmental Policy and Management from Utrecht University.





Firm Overview

40-year track record



Design-focused real estate firm



\$13.2 billion of assets under management¹

1. As of December 31, 2022

Transforming spaces into innovation hubs and community centers



Value creation driven by consistent focus on NOI growth



Value Creation

Jamestown possesses internal expertise beyond a traditional operator, applying its diversity of views to maximize value



Engaging Spaces

Site activation, tenant curation, and thoughtful public spaces are a hallmark of Jamestown



Inclusive Environments

Accessible and welcoming environments are designed to engage the people who use our properties



Food & Beverage

We work with local purveyors to create interesting food and beverage concepts and diverse offerings



Distinctive Assets

Our properties are designed for the communities in which they are built and feature digital engagement through property apps and social media



The value of physical space is created by the experiences people have in it. Spaces can elevate, transport, and inspire. Our goal is to create places that add value to people's lives on a daily basis and are relevant in a rapidly changing professional environment.

PORTFOLIO SUMMARY¹









Sustainability Highlights

Sustainability



Proprietary ESG program established in 2008



8 consecutive years of earning a 5 star rating for the Premier Property Fund



Earned "A" in 2019 & 2020 Assessments



14 buildings with 2021 ENERGY STAR ratings SUSTAINABLE GOALS

Targets in place to support all 17 goals



Premier Property Fund was the Recipient of the 2022 PREA ESG Momentum Award



- 1. Rating received on 9/01/2022 for the period of 1/1/2021 to 12/31/2021 by GRESB. Jamestown pays an annual fee to be a GRESB Member and participates in GRESBs' Annual Real Estate Assessment for certain Jamestown fund vehicles.
- 2. Rating received on 6/01/2021 for the period of 1/1/2020 to 12/31/2020 and 06/01/2020 for the period of 1/1/2019 to 12/31/2019 by PRI. Jamestown pays an annual fee to be a UNPRI signatory. There was not an assessment in 2022 (covering 2021) due to scoring modifications.
- 3. Given on 3/23/2022 for the period of 1/1/2021 to 12/15/2021 by the Pension Real Estate Association. Jamestown pays to be a member of PREA.

The above information is for the Jamestown Portfolio, which includes the Premier Property Fund.





Impact Areas and Targets

ESG Impact Areas

ESG GOALS & IMPACT AREAS

As an owner and operator of commercial real estate, Jamestown must help address environmental issues and improve sustainability in many interrelated areas. These efforts are a core part of our fiduciary responsibility, allowing Jamestown to minimize risk and capitalize on opportunities. Jamestown has memorialized short-, medium- and long-term targets, as well as more general objectives, to guide our strategy. Together, these targets support all 17 United Nations Sustainable Development Goals (SDGs).

Jamestown has organized Jamestown's impact areas and the corresponding targets by the ESG pillar to strengthen the consistency and transparency of our ESG reporting to our investors and the public. We are excited to share our progress and achievements of our short-term targets and anticipate additional revisions to our medium- and long-term targets over time to sustain and lead the industry's best practices.

ENVIRONMENTAL



Emissions



Energy Efficiency



Water Efficiency



Waste Management



Resilient Site Selection and Design



Materials and Supply Chain

SOCIAL

GOVERNANCE



Health and Wellbeing



Social and Community Impact



Transparency and Disclosure

U.N. Sustainable Development Goals





































SUSTAINABLE DEVELOPMENT GOALS

Stakeholders are increasingly demanding investments that drive financial returns through creating social and environmental value. To this end, the SDGs were established as a powerful framework to guide structured investments towards long-term financial value and social and environmental impact. The SDGs were established in 2015 under the United Nations adoption of the 2030 Agenda for Sustainable Development with the intention of ending all forms of poverty, inequalities, and negative climate impacts. While the SDGs are predominately focused on government entities, many commercial firms have also recognized their value and are promoting and aligning their operations with these goals.

In previous reports, Jamestown shared examples of how our business operations impact each SDG. In 2020, Jamestown formally adopted all 17 SDGs, and aligned our targets with the applicable UN SDG targets.

For a full list of how Jamestown's targets are aligned with the SDGs, please refer to section IX of the reference document.



ESG Impact Area: Energy Efficiency



ENERGY EFFICIENCY





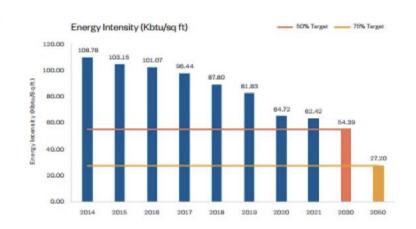




SHORT-TERM TARGETS (PRESENT-2024)	STATUS	PROGRESS
Drive energy efficiency improvements of approximately 3% per year	• • • •	3.56% reduction in energy use intensity (Kbtu/sf) from 2020- 2021
Pilot three energy-saving technologies for Jamestown's innovation program	• • • •	Piloted three energy-saving technologies for Jamestown's innovation program, with plans for expansion in 2022
Install building-level energy management software in 100% of eligible office properties	• • • •	Utilizing pilot results to identify opportunities to increase coverage across all office assets
Complete a portfolio-wide solar assessment and increase renewable energy production by 2% annually	• • • •	Partnered with Wunder Capital on first, on-site solar project at Levi's Plaza, followed by a portfolio wide assessment in 2022
Conduct energy audits for 100% of properties and establish an emissions/energy reduction plan for 100% of properties	• • • •	Strategically phased energy audits across the portfolio to ensure that 100% of properties will have an audit-informed emissions/energy reduction plan by 2024

EFFICIENCY INVESTMENT TO ALIGN WITH PERFORMANCE STANDARDS

In 2021, Jamestown conducted an energy audit of America's Square, its largest asset in Washington, D.C., to identify deep retrofit compliance pathways for the district's Building Energy Performance Standards (BEPS) requirement. This project heavily relied on ENERGY STAR Portfolio Manager to analyze historical performance, set targets, and ultimately determine if implementing the audit recommendations would generate enough savings to meet the BEPS target. Over \$2 million was invested to embark on a major VAV Box Replacement project to bring the property into BEPS compliance within the next 24 months. This was the largest projected energy savings measure and is estimated to save over 1 million kWh and \$130,000 on an annual basis, in addition to supporting occupant comfort through better controllability of individual offices.



ESG Impact Area: Energy Efficiency

JAMESTOWN INVESTS IN ENERGY EFFICIENCY

A number of Jamestown properties have undertaken projects to improve energy efficiency and reduce operating costs and GHG emissions. The following examples highlight some of our recent energy projects.

NEW YORK ASSETS REALIZE EFFICIENCY IMPROVEMENTS

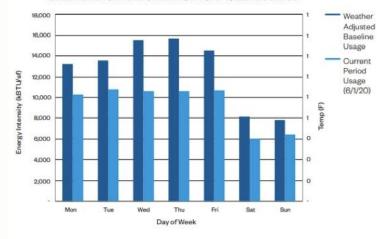
New York's aggressive energy use and emissions reduction policies are a motivator for landlords to prioritize investments in energy efficiency. Between 2018 and 2019, the 5.4 million sf Industry City Campus realized a 20% reduction in energy intensity. This improvement was a result of strategic energy efficiency projects including boiler upgrades and MEP operational adjustments, as well as upgrades and repairs to energy infrastructure. Additionally, One Times Square realized an 11% energy improvement during the same period as a result of upgrading the iconic north-facing building signage to a unified LED sign.

AQUICORE TRACKS COVID ENERGY IMPACTS

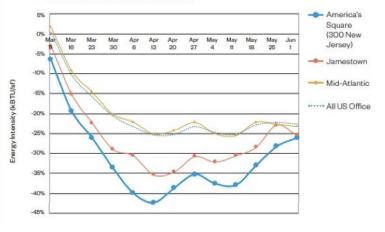
Jamestown utilizes real time energy management to inform operations at a number of properties. As COVID-19 began to impact property operations, Jamestown worked with Aquicore to analyze the impact that changes in occupancy had on energy performance. An analysis was completed for all properties that utilize the software, and an aggregated report demonstrated over \$232,000 in energy cost savings through the end of May.

The following sample charts from Jamestown's America's Square demonstrate the energy performance metrics that are tracked at a majority of Jamestown's office properties.

DAILY ENERGY PERFORMANCE VS. BASELINE PERIOD



WEEKLY PEER BENCHMARKING



88 LEONARD DEPLOYS ENERGY MANAGEMENT PLATFORM

In March of 2020, 88 Leonard, a multifamily property in Tribeca, deployed and onboarded an easy-to-use energy management software platform called SmartKit AI. The deployment was done 100% remotely with zero upfront costs during COVID-19, using breakthrough software built by Logical Buildings that is based on a secure cloud-to-cloud integration into the utility smart meter network. The platform quickly identified strategies to reduce electricity costs at 88 Leonard by ~10% (with simple actions – such as more efficient scheduling of the rooftop pool electric heater). In addition, the software also includes an app that creates transparency in energy usage and building operations. It uses predictive analytics to guide and reward building operators as they manage their properties more efficiently.

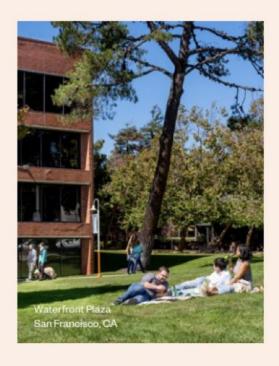
SAN FRANCISCO PROPERTIES LEVERAGE FREE RETRO-COMMISSIONING

In early 2020, Levi's Plaza, Waterfront Plaza, and 55 Francisco partnered with PG&E to take advantage of a free Retro-commissioning (Rx) program. The goal of the program is to provide property teams with a list of actionable energy efficiency measures that have quick returns. The studies consider both optimizing existing systems and identifying where equipment can be added to leverage more energy savings. In addition to the free energy efficiency study, the savings identified through the study can produce an incentive payment based on the achieved annual energy savings through the Commercial Custom Incentives Program, once implemented.

INNOVATION AND DESIGN BUILDING'S CLEAN ENERGY IMPACT

In 2019, over 651 mWh of electricity was produced from the solar array at the Innovation and Design Building. That is the equivalent of reducing the greenhouse gas emissions of 1,142,571 miles driven by an average passenger vehicle, over 45 trips around the world, or driving from Atlanta to San Francisco and back 230 times.

ESG Impact Area: Energy Efficiency







DATA + INSIGHTS

In 2021, Jamestown partnered with Prescriptive Data to implement their Nantum OS technology at Waterfront Plaza as a pilot. This technology uses data from IoT occupancy sensors to prescribe operational adjustments in real-time that improve building performance and tenant comfort. The pilot is modeled to payback in under 7 months with an ROI of 659% and an IRR of 167%. After the pilot, additional properties across the portfolio will be evaluated as part of Jamestown's commitment to reach net zero carbon operations by 2050.

TECHNOLOGY NETWORK

In 2021, Jamestown launched a new innovation partnership with Camber Creek, a leading venture capital firm focused on real estate technology. Jamestown's in-house Tech & Innovation team will work closely with the Camber team to evaluate new ideas and tackle key priorities in Jamestown's innovation pipeline, with a focus on ESG projects.

PILOTS + DEPLOYMENT

Jamestown is partnering with Carbon Lighthouse to pilot a program at LEED Gold certified One Metro Center in Washington, D.C. to reduce emissions by a projected 437 tons each year and save \$132,000 annually. Carbon Lighthouse's CLUES AI platform will assist Jamestown with profitable, data-backed carbon reductions.

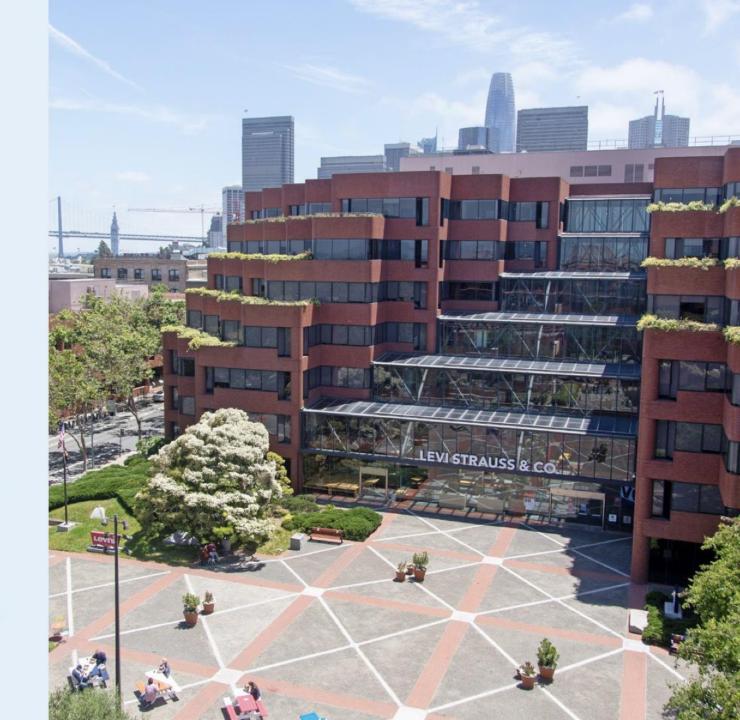


Property-level Leadership

Net Zero Carbon

Levi's Plaza is committed to becoming a net zero operational carbon campus by 2025, a first in the Jamestown portfolio:

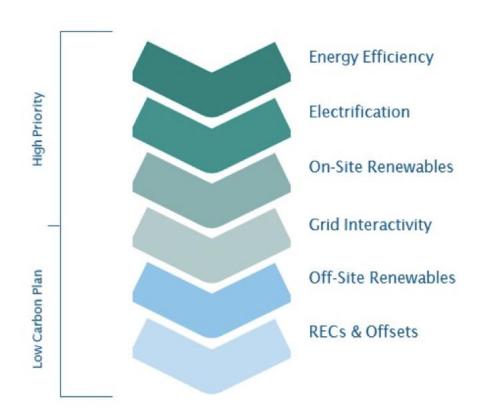
- Serving as a model for other existing buildings to reach Jamestown's portfolio-wide target of net zero operational carbon by 2050
- Meeting or exceeding the ESG requirements of large tenants in California
- Driving innovation through sourcing of materials and energy, waste, and water management
- Effectively eliminating the use of fossil fuels and utilizing on-site renewables and 100% clean power to meet remaining energy needs
- Executing green leases for shared alignment between
 Jamestown and tenants in achieving sustainability goals
- Pursuing LEED O+M Certifications and annual ENERGY STAR ratings



Strategic Decarbonization

As a Department of Energy Low Carbon Pilot participant, Jamestown's decarbonizations plans follow the net zero carbon priority waterfall:

- Energy Efficiency utilizing Aquicore as a real-time Energy Management Information System (EMIS) and partnered with PG&E to take advantage of a free Retro-commissioning (Rx) program
- Electrification converting central plant equipment from natural gas to all-electric
- On-site Renewables installing photovoltaic (PV) system on the 1160
 Battery rooftop
- Grid Interactivity participated in the CleanPowerSF's 2021 Peak
 Day Pricing Pilot, helping to curb carbon emissions and keep the lights
 on for all Californians
- Off-Site Renewables purchasing 100% carbon free electricity from the grid via the CleanPowerSF SuperGreen program
- Renewable Energy Credits (RECs) & Offsets considering RECs and offsets for any remaining energy consumption once renovations are completed





Scaling Efficiency

Advice for Portfolio Strategy

- Start early
 - ESG integration into due diligence
- Find your people and deepen your bench
 - Internal and external collaboration
- Use your data
 - You can't manage what you don't measure
- Find alignment
 - Energy/carbon performance standards, tenant/investor demands
- Connect the dots on cost
 - ESG reporting and financial reporting can be disconnected

- Embrace technology
 - Alternative financing models
- Get creative
 - Alternative financing models
- Positive peer pressure
 - Tap into our competitive nature
- Celebrate all wins and share widely
 - Who doesn't love positive recognition?
- Start with a home run
 - Begin where you have some momentum
- Stay resilient
 - If it were easy, everyone would be doing it ©



Breakout Room Questions

- Discussion #1
 - Introduce yourself and your experience with Net Zero in terms of current projects or programs
 - How are your tracking your energy use data?
 - What are your successful methods of increasing energy efficiency?
 - Are you familiar with your local net zero energy or carbon building code or reporting requirements?



From Energy Benchmarking to Carbon Caps & Beyond

Local climate policies are accelerating building decarbonization

Benchmarking Ordinances Tune-Ups, Audits, Equipment Upgrades Building Performance Grades Emissions Caps, Performance Standards All-Electric, Net Zero Building Code

Portfolio Reporting Regs

30+ localities, varying public/ private disclosures

Seattle & Philly
Tune-Ups, NYC
Audit & RCx
Mandates,
Lighting Upgrades
& Submeters

Chicago Energy Rating System, NYC Energy Letter Grades NYC LL97, DC &
St Louis&
Boston & White
House Coalition
Building
Performance
Standards,
Europe EPCs

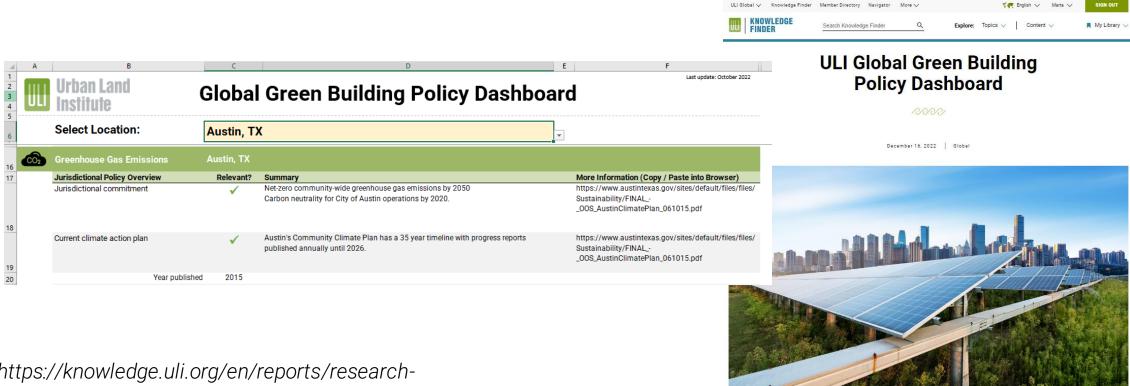
Colorado 2030, CA resi 2020 & comm 2030, DC comm 2026, Berkeley all-electric new construction, NYC LL154 in 2024

Europe SFDR, United States SEC



ULI Global Green Building Policy Dashboard

Serves as a quick reference allowing real estate practitioners to filter by location and see a summary of key requirements related to building certifications, greenhouse gas emissions, embodied carbon, energy, electric vehicles, renewable energy, and resilience



https://knowledge.uli.org/en/reports/research-reports/2022/uli-global-green-building-policy-dashboard



eport Summary: As global momentum builds for climate action, federal, state, and local governments have increasingly introduced building-sector requirements covering everything from energy and water use to green building certifications to climate resilience. The real estate industry is also doing its part to address the climate crisis through actions like selection lower-carbon materials, setting portfolio-wide net zero targets and

RESOURCES

Policy Dashboard

(Spreadsheet)

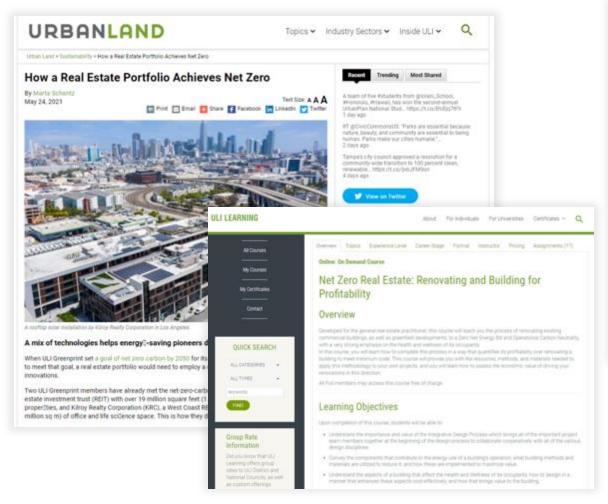
ULI Global Green Building

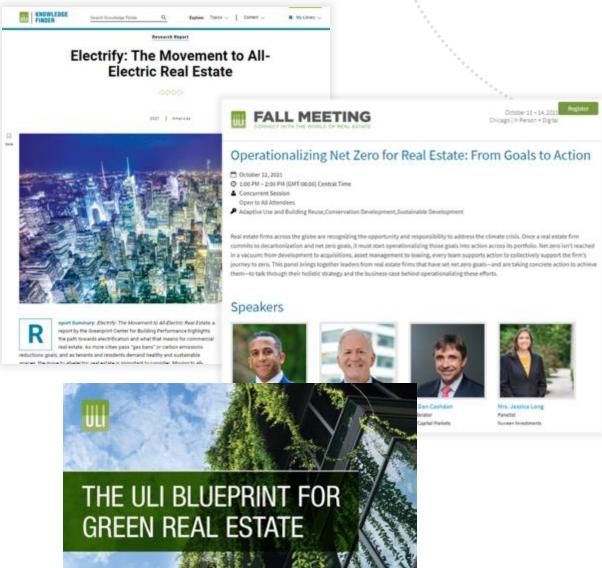
Breakout Room Questions

- Discussion #2
 - Are you facing any technical obstacles to achieving a net zero building or project?
 - What support do you need from the industry to achieve net zero on your projects?



Research, Tools and Training, Convenings and Cultivating Leaders









2023 Schedule – ULI Net Zero Exchange

Date, 1-2:30p ET	Topic	Suggested Speakers/District Council Projects
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