#### UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, DC 20549

FORM 8-K

#### CURRENT REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

Date of Report (Date of earliest event reported): April 9, 2024

#### VORNADO REALTY TRUST

(Exact Name of Registrant as Specified in Charter)

Maryland	No. 001-11954	No. 22-1657560					
(State or Other	(Commission	(IRS Employer					
Jurisdiction of Incorporation)	File Number)	Identification No.)					
VORNADO REALTY L.P. (Exact Name of Registrant as Specified in Charter)							
Delaware	No. 001-34482	No. 13-3925979					
(State or Other	(Commission	(IRS Employer					
Jurisdiction of Incorporation)	File Number)	Identification No.)					
New	Seventh Avenue York, New York	10019					
(Address of I	Principal Executive offices)	(Zip Code)					

Registrant's telephone number, including area code: (212) 894-7000 Former name or former address, if changed since last report: N/A

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (see General Instructions A.2.):

Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

□ Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common Shares of beneficial interest, \$.04 par value per share	VNO	New York Stock Exchange
Cumulative Redeemable Preferred Shares of beneficial interest, liquidation preference \$25.00 per share:		
5.40% Series L	VNO/PL	New York Stock Exchange
5.25% Series M	VNO/PM	New York Stock Exchange
5.25% Series N	VNO/PN	New York Stock Exchange
4.45% Series O	VNO/PO	New York Stock Exchange
	Common Shares of beneficial interest, \$.04 par value per share Cumulative Redeemable Preferred Shares of beneficial interest, liquidation preference \$25.00 per share: 5.40% Series L 5.25% Series M 5.25% Series N	Common Shares of beneficial interest, \$.04 par value per share

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 ( $\S230.405$  of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 ( $\S240.12b-2$  of this chapter). Emerging growth company  $\square$ 

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

#### Item 7.01. Regulation FD Disclosure.

On April 10, 2024, Vornado Realty Trust (the "Company"), the general partner of Vornado Realty L.P., issued a press release announcing that the Company released its 2023 Sustainability Report. The Sustainability Report was posted on the Company's website on April 9, 2024.

The press release and the Sustainability Report are attached as Exhibit 99.1 and 99.2, respectively, to this Current Report on Form 8-K and are incorporated herein by reference solely for purposes of this Item 7.01 disclosure.

Exhibit 99.1 and 99.2 hereto shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the Exchange Act), or otherwise subject to the liabilities under that Section and shall not be deemed to be incorporated by reference into any filing of the Company or Vornado Realty L.P. under the Securities Act of 1933, as amended, or the Exchange Act.

#### Item 9.01. Financial Statements and Exhibits.

(d) Exhibits

The following exhibits are being furnished as part of this Current Report on Form 8-K:

- 99.1 Vornado Realty Trust press release dated April 10, 2024
- 99.2 2023 Sustainability Report
- Cover Page Interactive Data File (embedded within the Inline XBRL document)

#### SIGNATURE

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

#### VORNADO REALTY TRUST

(Registrant)

/s/ Deirdre Maddock

Deirdre Maddock Name

Title: Chief Accounting Officer (duly authorized officer and principal accounting officer)

Date: April 10, 2024

#### SIGNATURE

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

#### VORNADO REALTY L.P.

(Registrant) By: VORNADO REALTY TRUST,

By: Name: /s/ Deirdre Maddock

Deirdre Maddock
Deirdre Maddock
Chief Accounting Officer of Vornado Realty Trust, sole General Partner of Vornado Realty L.P. (duly authorized officer and principal accounting officer) Title:

Date: April 10, 2024



PRESSRELEASE

### Vornado Releases 2023 Sustainability Report

New York City | April 10, 2024

Vornado Realty Trust (NYSE: VNO) announced today that it released its 2023 Sustainability Report

This Sustainability Report is Vornado's 15<sup>th</sup> consecutive annual report which highlights the Company's industry-leading accomplishments in sustainability and provides key metrics on the Company's sustainability priorities. Key sustainability achievements for 2023 include:

- Procured 100% renewable energy credits (RECs) for electricity directly managed by Vornado in the key markets in which we operate. These RECs include those sourced from hydroelectric, solar and wind facilities located in the states of New York and California.
- Achieved a 32% reduction in overall energy consumption across our in-service office portfolio, compared to our 2009 baseline
- Reached a 65% waste diversion rate across our in-service office portfolio, making significant progress towards our long-term target of 75%.
- Received multiple awards recognizing our continued industry leadership in sustainability including (i) the 13th NAREIT Leader in the Light Award, (ii) Energy Star Partner of the Year with Sustained Excellence, and (iii) ranked #1 amongst peers in the USA, Diversified Office/Retail in the Global Real Estate Sustainability Benchmark (GRESB).

Our report, along with expanded information on Vornado's sustainability programs, can be found on the Company's website located at www.vno.com. Vornado Realty Trust is a fully-integrated equity real estate investment trust.

#### Contac

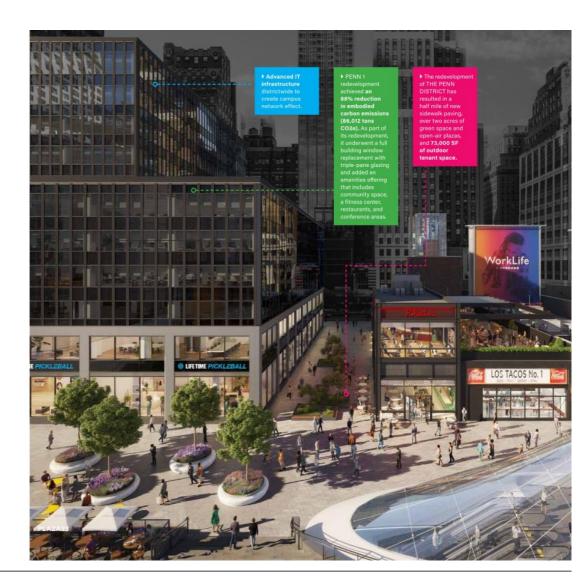
Thomas J. Sanelli

(212) 894-7000

Certain statements contained herein may constitute "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995. Forward-looking statements are not guarantees of performance. They represent our intentions, plans, expectations and beliefs and are subject to numerous assumptions, risks and uncertainties. Our future results, financial condition and business may differ materially from those expressed in these forward-looking statements. You can find many of these statements by looking for words such as "approximates," "believes," "expects," "anticipates," "extends," "plans," "would," "may" or other similar expressions in this press release. For a discussion of factors that could materially affect the outcome of our forward-looking statements and our future results and financial and local common local statements. The properties of the factors are the increased interest rates and inflation on our businesses, financial condition, results of operations, cash flows, operating performance and the real estate market in general.

NYSE: VNO | WWW.VNO.COM





#### Vornado Realty Trust Is a Preeminent Owner, Manager, and Developer of Office and Retail Assets

VORNADO'S PORTFOLIO is concentrated in the nation's key market — New York City — along with premier assets in both Chicago and San Francisco. Vornado's portfolio is concentrated on premier office and high street retail properties in New York City, which has a long history of strong real estate fundamentals and is now leading the urbanization trend in the United States. Together with THE MART in Chicago and 555 California Street in San Francisco, the focused collection of assets in these most important cities uniquely positions Vornado to help shape the way Americans live, work, play, and shop.

# Table of Contents

- 08 2023: Another Year of Excellence
- 09 Key Achievements
- 10 Sustainability Governance
- 12 THE PENN DISTRICT

4 Sustainability Report 2023



# 14 Introduction 24 32 50 56 Nature 58 60 Water

Vision 2030

Goals & Progress

Building Management Systems Upgrade

Energy Management System (EMS)

Energy Efficiency Programs

Energy Progress

Sustainable Development

Path to Zero Waste

Results by Region

Environmental Results 2023

Renewable Energy

71 BMS & Green Cleaning 72 Community Development 75 Learning & Development 76 Engagement at Vornado 78 Vornado Volunteers

Partnerships and Participation 70 Occupational Health & Safety 92 74 Human Capital Management Vornado Honors

Health & Wellness

82 Introduction 84 Governance 85 Supply Chain Climate-Related Strategy & Analysis 90 Materiality Assessment 116 Risk Management 94 Technology and Cybersecurity 97 Board Planning 126

# From Our Chairman



#### OUR BOARD AND SENIOR MANAGEMENT

are proud of Vornado's continued national leadership in sustainability, improving our communities, our buildings, and our tenant experiences. We continue to build upon our Vision 2030 and Science Based Target commitment through our robust sustainability program. Our complete plan can be found on our website at www.vno.com/sustainability.

#### KEY ACHIEVEMENTS INCLUDE:

- Procured 100% renewable energy credits (RECs) for electricity directly managed by Vornado in the key markets in which we operate. These RECs include those sourced from hydroelectric, solar and wind facilities located in the states of New York and California.
- Achieved a 32% reduction in overall energy consumption across our in-service office portfolio, compared to our 2009 baseline
- Reached a 65% waste diversion rate across our in-service office portfolio, making significant progress towards our long-term target of 75%
- Received multiple awards recognizing our continued industry leadership in sustainability including (i) the 13th NAREIT Leader in the Light Award, (ii) Energy Star Partner of the Year with Sustained Excellence, and (iii) ranked ≇1 amongst peers in the USA, Diversified – Office/Retail in the Global Real Estate Sustainability Benchmark (GRESB)

We continue using data to measure progress against our goals, align our goals with our tenants, plan for our longer-term projects and engage with our stakeholders in meaningful ways. This past year we focused on operational optimization and how data can improve the performance of our buildings, benefiting our tenants, our shareholders, and our building teams. We are proud of the savings that we saw across

our portfolio, even as occupancy recovered.

We constantly seek to enhance the health and well-being of our best-in-class employees with continuing education and career development. Through our Vornado Volunteers program, our employees supported local organizations including Habitat for Humanity, Breaking Ground, the Central Park Conservancy and Project Cicero. We expanded WorkLife, Vornado's amenity ecosystem that allows our tenants, employees, and communities to focus on work and self-care, into Chicago and San Francisco.

Our Board, and particularly our

Our Board, and particularly our Corporate Governance and Nominating Committee, is assigned with oversight of sustainability, which includes climate change risk. In 2023, our Executive Compensation program once again included sustainability performance metrics. Our discussion of corporate governance is included in our proxy statement, which can be viewed at <a href="https://www.vno.com/proxy">www.vno.com/proxy</a> and the governance section of our website at <a href="https://www.vno.com/governance">www.vno.com/governance</a>. In 2024, we will continue to monitor regulatory requirements. Our sustainability narrative is told with transparency and supported by data. All can be found at <a href="https://www.vno.com/sustainability">www.vno.com/sustainability</a>.

Thanks to SVP Lauren Moss and her team, who lead our sustainability efforts.

> Steven Roth Chairman of the Board and Chief Executive Officer



# 2023: Another Year of Excellence

# Key Achievements



#### GRESS MEMBER

#### S&P Global

S&P GLOBAL CORPORATE SUSTAINABILITY ASSESSMENT (CSA)



#### SCIENCE BASED TARGETS

▶ #1 in the USA among our peers for Diversified Office/ Retail REITs.

- ▶ "Green Star" distinction
- for the 11th time and a 5-star rating.

  Score an "A "for its ESG public reporting.
- ▶ 9th time awarded this distinction, demonstrating our long-term partnership with ENERGY STAR.
- ➤ Vornado performed in the top quintile for the Real Estate Industry in the S&P Global Corporate Sustainability Assessment (CSA),
- As of 2023, we have reduced our Scope 1 and Scope 2 location-based and market-based emissions by 4% and 61% respectively over our 2019 baseline.



13th time.

#### LEADER IN THE LIGHT Awarded National

➤ Awarded National Association of Real Estate Investment Trusts (NAREIT) respected Leader in the Light Award for sustainability for diversified REITs for the



#### EMPIRE BUILDING CHALLENGE

PENN 1 was awarded

a \$1 million incentive from NYSERDA toward the implementation of condenser water heat recovery.

CLIMATE GROUP EP100

#### EP100 MEMBER

50001 Program.

 Vornado is 75% of the way Vornado is 75% of the way to its EP100 goal, achieving a 50% increase in Energy Productivity in 2023 while continuing to align its energy management with the Department of Energy's ISO 50001 Program

Carbon Disclosure Project (CDP) response score of "B" with improvement in disclosure acumen, progress on our goals, assessment of risk and opportunities, and regulation preparedness

CARBON DISCLOSURE PROJECT

CDP





#### Progress on Vision 2030

As of 2023, our Scope 1 and Scope 2 emissions are 70,154 MTCO2e or l reduced 66% over our 2019 baseline, leveraging both market-based carb and reduced emissions from carbon offsets.

#### Operational Optimization

• Across the Vornado portfolio, building engineering teams focused continuous improvement of operations and successfully reduced 3,0 kWh of electricity.

#### Pinnacle Award

PENN 11 was awarded this year's BOMA Pinnacle Award for Best Building of the Year. Renowned for its vaulted lobby and ornate cei PENN 11 recently underwent a lobby ceiling refurbishment to resto original splendor.

#### **ActiveScore**

• Achieved the first ActiveScore Gold-certified commercial project United States at the historic Farley Building, ActiveScore is a build program centered on active travel for building occupants.

#### **Organics** Collection

In September 2023, while celebrating Climate Week NYC, Vornado ex organics collection program into 100% of our in-service office portfolio. Vaccess to food waste diversion programs to all office tenants across our N Chicago, and San Francisco regions, representing over 27 million SF.

# Sustainability Governance

focus on sustainability, inclusive of environmental, people, and places, is responsible management of our business and important to our tenants, investors, employees, and communities. It has been central to Vornado's business strategy for over 15 years. The Corporate Governance and Nominating Committee of Vornado's Board of Trustees is assigned the responsibility for oversight of sustainability matters while our Corporate Sustainability Team oversees our day-to-day strategy and goal development. Our sustainability initiatives are carried out by a dedicated

team of professionals that work directly with our business units to integrate sustainability into all areas of our company. Our Corporate Sustainability Team is comprised of our senior decision makers on corporate strategy as well as our pertinent divisional heads and subject matter experts. The team includes the following roles:

- President and Chief Financial
- Officer
   EVP, Finance and Chief
- Administrative Officer

   EVP, Corporation Counsel

   SVP, Chief Sustainability Officer
- · SVP, Human Resources

Our leadership is to evaluating and d climate-related risk to our business. We a top-down approa the ongoing assessi management of cli risks, which includ execution of tasks t all levels and divisi our business, and t receives regular up sustainability topic Vornado Executive Board's Lead Trust Corporate Governa Nominating Commoversees environme including climate-r and opportunities.

#### Corporate Governance and Nominating Committee The Board of Trustees oversees Sustainability matters including climate change risk, goal-setting, and human capital management. The Board receives quarterly updates from Vornado's Executive Team on Sustainability and an annual presentation from the SVP, Chief Sustainability Officer. The Corporate Governance and Nominating Committee oversees our ongoing Sustainability program and initiatives. **Board of** Board of **Trustees** The Vornado Executive Team is responsible for overall execution and goal-setting for the organization. Sustainability is an integral component. Sustainability metrics are included in our 2023 Long-term Performance Plan (LTPP), which generally raised the required achievement levels in 2023 Sustainability metrics versus 2022 when measuring GHG emissions reductions, GRESB score, and LEED achievements. Executive Team Executive Team Corporate Sustainab Team The Corporate Sustainability Team is responsible for stakeholder engagement, investor communication and outreach, and execution of Sustainability strategy. The team has a formal schedule of annual investor engagement on Sustainability and frequent meetings Corporate Sustainability and communication among members Team The Sustainability Team is responsible for Sustainability strategy implementation within various areas of focus. This includes daily discussions and active collaboration on specific projects as well as operations and maintenance. The Sustainability Team reports to the Sustainability Sustainability Team Team Vornado Executive Team and the Corporate Sustainability Team Sustainability strategy is integrated across the entire spectrum of business units and stakeholder groups. There is frequent communication with respective heads of mana-Sustainability Strategy Tenants, Acquisition Capital Markets, Information Technology, Employees, Legal, Leasing, Sustainability Marketing, Development and Construction, Finance, Risk Management, Property Management/Engineering, Human Resources Strategy .

### THE PENN DISTRICT

THE PENN DISTRICT, New York City's most accessible neighborhood in the heart of Manhattan, has been recently transformed into a sustainable campus of best-in-class office, retail, food and beverage, and open spaces. Vornado is in the process of completing a \$2.4 billion transformation of the neighborhood to include over a half mile of new sidewalk paving, over two acres of green space and open-air plazas, and 73,000 SF of outdoor tenant space.

FARLEY, PENN 1, and PENN 2 have undergone significant renovations resulting in a cohesive and collaborative destination focused on health, wellness. hospitality, and accessibility. The entire district has 100% zero-carbon electricity, supplied by in-state renewable resources. and PENN 2 is being delivered as a carbon-neutral asset. PENN 1 underwent a full building window replacement with triple-pane glazing and a new amenities offering to include community space, a fitness center, restaurants, and conference areas, while PENN 2 was completely reclad with a high-efficiency modern curtain wall and new mechanical equipment, as well as new tenant amenities to be shared in concert with PENN 1.

PENN 1.

Vornado is executing a master plan
to revolutionize THE PENN DISTRICT
into the future sustainable epicenter of
New York, which includes:

Transforming 9M SF of existing

- properties
- 10+ acres of new public plazas and sidewalks

  New landscaping and green space
- throughout
- 1.1M+ SF of new retail offerings
   Vornado's WorkLife campus amenity
- program

Vornado completed the new
Moynihan Train Hall, a modern sky-lit
grand train hall within The Farley
Building, the former 1912 James A.
Farley Post Office, that services Amtrak
and will serve as the new home for
the Long Island Rail Road. Additionally, Vornado has completed the new
entrance into the Long Island Rail
Road main concourse at Penn Station Road main concourse at Penn Station located at Seventh Avenue and 33rd Street. Vornado is currently developing and re-tenanting the expanded LIRR

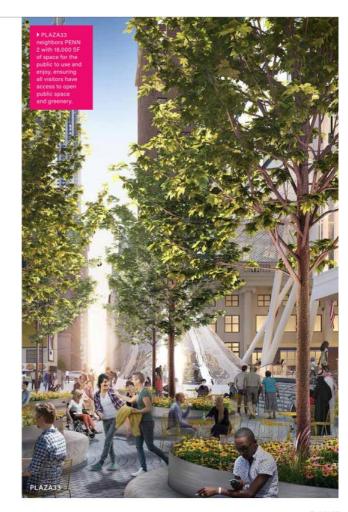
and re-tenanting the expanded LIKK Concourse that will connect Seventh Avenue to Moynihan Train Hall. Vornado is changing the landscape from Seventh to Ninth Avenues, with new stone-paved plazas, sidewalks, and planting new trees and vegetation throughout the district.

New street trees located on Seventh Avenue at PENN 2 and PENN 15

- The pedestrianization of 33rd Street between Seventh and Eighth

#### 33rd Street Plaza

Recently pedestrianized, the stretch of 33rd Street at Seventh Avenue has been transformed into an open and versatile courtyard for the entire PENN DISTRICT, Lush green space, flexible seating, and proximity and proximity to new food and beverage options at PENN 1, PENN 1 East, and PENN 2 define the space as an ideal place to meet, relax, shop, and dine al fresco.



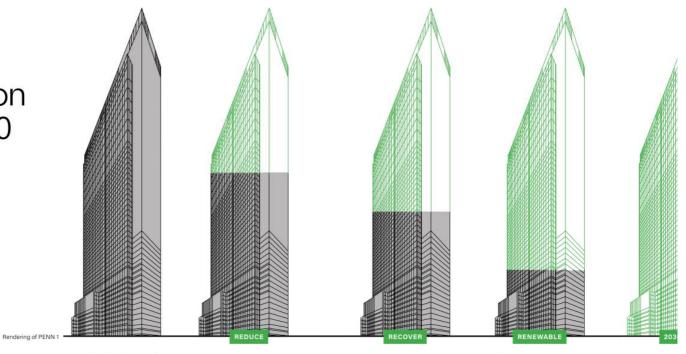
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# Environmental

18. Vision 2030-18. Gooks & Process: 24. Environmental Secults 2022-30. Renewable Fnerov. 31. Buildin Management Systems Ungrade - 32. Energy Management System (EMS) - 34. Results by Region - 44. Energy Efficiency Programs - 47. Energy Process: 40. Sustainable Revolument - 46. Nature - 46. P.

14 Sustainability Report 2023 Sustainability Report 2023

# Vision 2030



Vornado's Commitment to Carbon Neutrality

16 Sustainability Report 2023

VISION 2030 is Vornado's VISION 2030 is Vornado's commitment to reach carbon neutrality by 2030. We rely on meaningful stakeholder collaboration with our employees and our tenants to optimize operations and eliminate excessive usage. In 2021, we made an SBTi commitment to reduce our an Sb I comminent to require our Scope I and 2 emissions intensity by 64% per square foot by 2030 below a 2019 base year. Our commitment is 1.5 degrees C-aligned, the most ambitious designation offered.

Reduce
We prioritize energy
efficiency through
building upgrades
and retrofits to
more efficient
equipment and
systems, making
operational
changes to permanently reduce peak
demands, and

providing high-performance guidelines for future tenant build-outs. We continue outread and engagement with our tenants to identify oppor-tunities to reduce tenant metered electricity usage.

2

Recover
As usage is reduced, we identify opportunities to recover waste energy. This is accomplished by recapturing heat that would otherwise be discarded and reintroducing it to make hot water. We also

retire fossil-fuel-based heating and cooling equipment and convert steam chiller plants to ultra-high-efficiency electric chillers as existing equipment reaches the end of useful life.

3

Renewable
There are limited opportunities to install on-site renewables in our existing portfolio. We incorporate renewables into development projects whenever feasible. By reducing usage,

recovering wasted energy, and deploying on-site renewables as the electric and steam grids go green, we will minimize the amount of purchased RECs and carbon offsets required to meet Vision 2030.

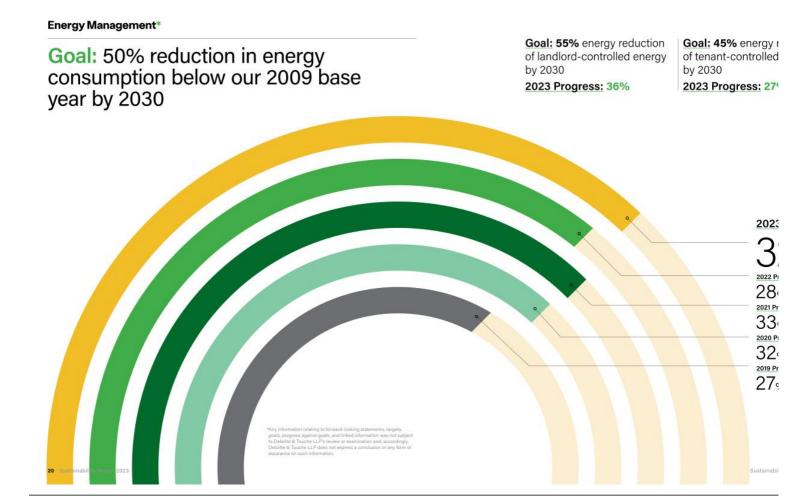
# Goals & Progress

GRI 2-24, 3-2, 3-3

METRICS & TARGETS Meaningful metrics and targets help us to evaluate our climate-related risks and opportunities, as defined in our Risk Management assessment detailed further on pages 94-95 of this report. We have a third-party firm provide assurance on certain metrics. See further discussion at the Independent Accountant's Reports on 116-117 and pages 126-127 of this report.

Based on our 2023 progress, we continue to implement a sustained model of how operations and utilities are used in our buildings. We expect to see continued energy management progress with the reduction of our reliance on fossil fuels, implementation of energy efficiency projects, and active tenant engagement. We continue onboarding tenants into our organics diversion program and have our annual tenant recycling education programming, incorporating in-person and virtual methods. We will see continued water reduction progress with retrofitting plumbing fixtures, HVAC efficiency projects, and water reuse efforts, adhering to ongoing best practice maintenance and cleaning programs.





#### Waste Management\*

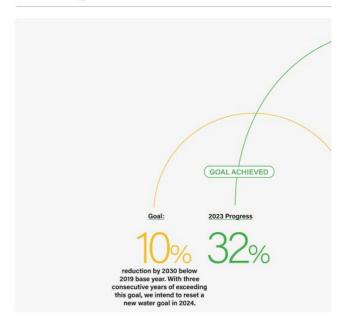






\*Any information relating to forward-looking statements, targets, goals, progress against goals, and linked information was not subject to Deloitte & Touche LLP's review examination and, accordingly, Deloitte & Touche LLP does not express a conclusion or any form of assurance on such information.

#### Water Management\*



#### Procurement and Responsible Contracting\*

<u>Goal:</u> Purchase 75% of cleaning supplies that meet sustainability criteria, including certifications designated by UL ECOLOGO, Green Seal, and EPA's Safer Choice Standard.



Sustainabi

# Environmental Results 2023

GRI 2-24, 3-2, 3-3, SASB IF-RE-130a,5



- Beginning in 2021, our location-based Scope 2 emissions differed significantly from our market-based Scope 2 emissions due to our investment in renewable energy certificates in 2023. We will continue to report our Scope 2 emissions on both a location and market basis, as per our SBTI commitment.
  - Because the market-based approach reflects progress on our Vision 2030 carbon neutrality commitment, we will rely on the market-based approach for reporting on our emissions-related goals and targets, including those tied to green debt instruments and executive compensation.
- Our Scope 2 emissions inventory includes emissions from tenant electricity that is submetered downstream from our building electricity accounts. We consider these emissions to be within our financial control. If the emissions from submeter tenant electricity were instead to be considered Scope 3 emissions, we estimate our Scope 2 emissions for 2023 to be 70,749 MTCO2e and our Scope 1 and 2 location-based emissions intensity to be 0.0030 MTCO2e/SF.

VORNADO'S Scope 1 and Scope 2 emissions come entirely from the operation of our buildings, including our submetered tenants. Energy costs of a property are often among the largest controllable expense.

In 2019, Vornado committed

In 2019, Vornado committed to making its buildings carbon neutral by the year 2030. This plan, known as Vision 2030, combines various methods to reduce or offset all Scope 1 and Scope 2 emissions. Energy efficiency is the prioritized component of Vision 2030 with a goal of reducing 50% below a 2009 base year by the year 2030. Further information on this plan can be found in the Vision 2030 section of this report. Our energy reduction measured 32% at the end of 2023. As business activity returns to our buildings with tenants and building operators motivated to operate efficiently, we are observing stable progress toward our energy efficiency goal. We continue to measure our energy consumption and evaluate our targets and goals.\*

 If Category 5: Waste generated in operations were included in our Scope 3 emission inventory the subtotals would be 54,862, 45,376, 43,338, 47,223, 48,173 MTCO2e from 2019 through 2023 respectively, marking a total reduction of 12% over the 2019 base year.\*\*\*\*

#### Greenhouse Gas (GHG) emissions inventory\*\*

Emissions data is presented on an absolute basis. Location-based reflects emissions for our properties based on the grid average emission market-based reflects emissions that we are responsible for due to our purchasing decisions. Our Scope it emissions include on-enteror natural gas. Scope 2 emissions include our district steam consumption and electricity consumption, including electricity consumed by o Scope 3 emissions include other utility consumption within the direct control of our tenanty.

Fina GHG emissions

	2019	2020	2021	2022	2023	2022
Scope 1	28,577	29,190	29,864	31,311	30,231	-3%
Scope 2						
Location-based	177,977	133,997	131,405	166,129	159,056	-4%
Subtotal emissions (Scope 1+ 2 location-based)	206,554	163,187	161,269	197,441	189,287	-4%
Market-based	177,977	133,997	83,295	61,472	46,665	-24%
Subtotal emissions (Scope 1+ 2 market-based)	206,554	163,187	113,159	92,784	76,896	-17%
Carbon Offsets***	0	0	0	0	(6,742)	
Subtotal emissions (Scope 1 + 2 market-based, and inclusive of carbon offset reductions)	206,554	163,187	113,159	92,784	70,154	-24%
Scope 3						
Category 13: Downstream leased assets	49,760	42,997	39,633	43,871	44,506	1%
Total emissions (Scope 1+ 2 location-based + 3)	256,314	206,184	200,902	241,311	233,793	-3%
Total emissions (Scope 1+ 2 market-based + 3)	256,314	206,184	152,792	136,654	121,402	-11%
Total emissions (Scope 1+ 2 market-based + 3, and inclusive of carbon offset reductions)*	256,314	206,184	152,792	136,654	114,660	-16%

#### Alexander's Inc. GHG emissions inventory (breakout, included in inventory above)

	2019	2020	2021	2022	2023	% Cha 2022-1
Scope 1	1,688	1,826	1,948	1,838	1,631	-11%
Scope 2						
Location-based	9,886	9,154	10,840	13,011	13,327	2%
Subtotal emissions (Scope 1 + 2 location-based)	11,574	10,980	12,788	14,849	14,958	1%
Market-based	9,886	9,154	8,281	4,699	1,750	-63%
Subtotal emissions (Scope 1 + 2 market-based)	11,574	10,980	10,229	6,537	3,381	-48%
Scope 3						
Category 13 - Downstream leased assets	15,752	13,313	13,347	18,763	17,946	-4%
Total emissions (Scope 1 + 2 location-based + 3)	27,326	24,293	26,135	33,612	32,904	-2%
Total emissions (Scope 1 + 2 market-based + 3)	27,326	24,293	23,576	25,300	21,327	-16%

\*Any information relating to forward-looking statements, targets, goals, progress against goals, and fished information was not subject to Defoitte & Touexamination and, accordingly, Deloitte & Touche LLP does not express a conclusion or any form of assurance on such information.

"\*We have chosen to report our emissions based on financial control from the World Resource Institute's Ginenhouse Gas Protocol: A Corporate Accountable of the Company of t

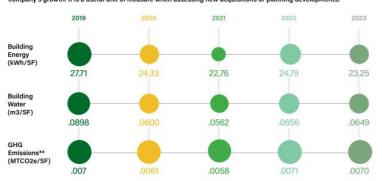
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\*\*\*The quantity of offsets purchased, 6,142 Emission Reduction Tonnes from American Carbon Registry (\*ACR\*) US-622-2020-1544-64-9303 to Amania Foram Biowing Apent Project DOST, focusted in Winchester, Virginia, and is an Industrial Process Emissions project type. This disclosure Deloitte & Touche LLP's review and, accordingly, Deloitte & Touche LLP does not express a conclusion, opinion, or any form of assurance on su \*\*\*\*This disclosure was not subject to Deloitte & Touche LLP does not express a conclusion, opinion, or any form of assurance on such information.

24 Sustainability Report 2023 Sustainabil

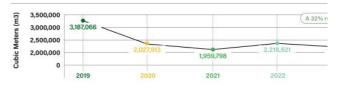
#### Intensity Measures\*

Vornado uses intensity measures to benchmark our portfolio's energy, water, and emissions progress with our company's growth. It is a useful unit of measure when assessing new acquisitions or planning developments.





#### Water Withdrawal\*



#### Nonhazardous Waste (Metric Tons)\*

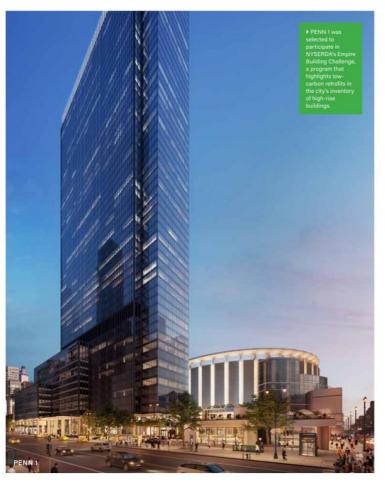
	2019	2020	2021	2022	_
Recycled	11,242	3,403	3,457	4,685	134
Energy Recovery	6,583	2,761	3,979	3,994	
Composting	2,621	935	694	1,692	
Landfill	2,123	698	91	1,117	
Total	22,569	7,796	8,221	11,488	1

An additional 108 METRIC TONS of hazardous waste was recycled in 2023.

26 Sustainability Report 2023 Sustain

<sup>\*</sup>For reporting boundaries, see note on p. 115.

GHG Emissions Intensity includes location-based emissions from Scopes 1, 2 location-based, & 3. The reported sharp increase in 2022 emissions is



GRI 302-1, 302-2

#### Energy Consumption (MWh)\*

#### **Energy by Type**

	2019	2020	2021	2022	2023
Chilled Water	12,702	9,220	11,540	10,384	10,264
District Steam	259,472	186,163	178,230	191,294	164,230
Electricity	556,572	440,095	416,020	435,101	409,055
Fuels	182,586	186,127	187,256	201,890	197,841
Cogenerated Fuels*	38,894	55,391	54,337	61,907	70,089
Total	1,011,332	821,605	793,046	838,669	781,390

#### **Energy by Scope**

Scope 1: 164,638 MWh	
Oil & Natural Gas Heating and Cooling	
Cogenerated Fuels	
Scope 2: 481,987 MWh	
District Steam	
Base Building Electricity	
Submetered Tenant Utilities	
TOTAL: 646,625 MWh	
Scope 3: 134,765 MWh	
Direct Metered Topast Hillities	

## Cumulative ! Since 2012\*\*

We have been investir energy efficiency sinc realized significant uti and permanent emiss Vornado has allocatec towards capital expen energy efficiency proje



# Renewable Energy

#### **VORNADO PROCURES**

renewable energy certificates (RECs) to demonstrate our commitment to renewable energy and the environment. In June 2021, Vornado contracted to procure RECs sourced from hydro energy facilities located throughout New York State. In 2022, we transitioned our San Francisco buildings to 100% clean in-state off-site energy. Vornado selected these products as a localized solution that supports investment in both NY and CA State renewable infrastructure, furthering state-wide goals, and increasing and providing clean energy to all communities. In Chicago, where our largest asset resides, we procured RECs offsetting 100% of its electricity load.

Vornado regularly evaluates opportunities to invest in renewable energy. We believe that on-site renewable energy is the most impactful in reducing carbon emissions. The local grids in which we operate have decarbonization goals that will, in turn, enable

our electricity and district steam operations to be carbon free by 2050. As a supplemental strategy until regional grids meet their goals, off-site renewable energy provides a virtual carbon offset to our Scope 1 and Scope 2 emissions.
As our electricity consumption

decreases through efficiency efforts, the regional grids become cleaner over time, our procurement of RECs will decrease. With eGRID factors changing in recent years, it is clear that location-based emissions will initially intensify before renewable sources are added to respective regional electricity grids. This is the balance of emissions that has not been reduced by energy efficiency, energy demand optimization, or renewable energy procurement. Carbon offsets, like renewable power, should bear localized benefit if possible and wherever possible should align with those which are defined in the Climate Leadership and Community Protection Act (CLCPA) passed in New York State in 2019.

In 2023, our total consumption. The wable purchases are:

37.64% of our New York energy

53.87%

of our California energy

46.16%

# Case Study: Building Management Systems Upgrade\*

▶ Between 2019 and 2023, Vornado upgrade of building management sy across five of our largest office build 1290 Avenue of the Americas, PEN1 Avenue, and 888 Seventh Avenue. The savings potential and increase a tives, the building controls work wa combined with other necessary buil such as the upgrade of outside air di installation of variable frequency driest the control ventilation, whereby real-tit tions of air contaminants inform the closing of dampers to introduce fres buildings. These five projects are ex \$1.4 million annually in both electricosts, and eliminate 2,500 tons of costs, and eliminate 2,500 tons of costs, and eliminate 2,500 tons of costs, and eliminate 2,500 tons of costs. costs, and eliminate 2,500 tons of ceach year. The projects were also eli \$3.5 million in incentives from the 1 down the overall ROI to just over on

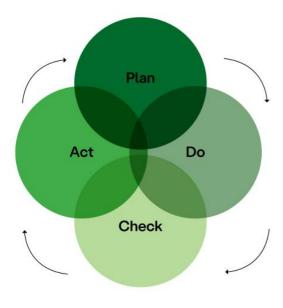


Demand Response\*

30 Sustainability Report 2023

Vornado remains dedicated to participating in demand response events. We voluntarily shed electric load without impacting tenan comfort when the regional utility grids experience distress. Our NYC buildings contributed 6 MW of curtailment and the MART committed 4 MW in 2023, 555 California shed 18,000 kWh throughout the year and received special recognition from the San Francisco Public Utilities Commission for being the largest contributor in the City in their effort to shift peak loads.

# Energy Management System (EMS)



#### VORNADO STRIVES

to improve upon our environmental objectives and minimize our environmental footprint by applying the Plan-Do-Check-Act principles of (2015) ISO 14001/15001 Environmental Management System (EMS) across our organization. Following a cyclical pattern of continuous improvement, we identify topics and develop/ modify company-wide Environmental Commitments & Policies that are material to our business; plan and implement initiatives; evaluate and correct actions; and ultimately communicate material results throughout the organization, both to management and external stakeholders

#### Plan

Org Level: The Board, Executive Team, Corporate Sustainability Team

- ➤ Leveraging outcomes from Act stage, stake-holder feedback, regulation, and market trends to develop our commitments and policies.

  Materiality assessment
- Steering committee and Board presenta-
- Involvement/leadership in industryrelevant organizations, speaking engagements, educational events
- Regulation
   Stakeholder feedback (investors, tenants, employees)

#### Do

Org Level: Sustainability Team and Sustainability Strategy Business Units

- Implementation of Plan stage deliverables are established, championed, and infused throughout the company.
- Establish and update policies and process including EMS
- Audits and retro commissioning reports
- Assess and pilot technologies
- Submetering
   Green leasing
   Budgets
- Energy and Water Efficiency projects, bot operating and capital driven

- Tenant engagement
   EV charging installations
   Building certifications and energy ratings
- Renewable procurement strategy
   Workforce development training

#### Check

Org Level: Executive Team, Corporate Sustainability Team, Sustainability Team & ESG Strategy Business Units

- ${\color{blue} \bullet}$  Assessment of  ${\bf Do}$  stage deliverables are completed, communicated, and reviewed. Feedback is iterated and integrated.
- Benchmark operational performance
- · Measurement and verification for efficiency projects
- Annual asset-level sustainability meetings Annual asset-level sustainability meetings with asset management and engineering
   Corrective/preventive action is incorporated
   Financial returns are assessed
   External assurance engagement and

- internal audit
- Data collection, reporting, disclosure
- · Presentations to investors

#### Act

Org Level: The Board, Executive Team, Corporate Sustainability Team

- Management reviews and communication of  $\boldsymbol{Check}$  stage, and the iterative process
- Steering committee meetings
- · Presentations to the Board



# Results by Region

VORNADO REALTY TRUST (NYSE: fully integrated real estate investment In New York, we have 57 Manhattan o

properties consisting of: 20,4 MILLION square feet of office space in 30 properties

2,4 MILLION square feet of street retail space in 50 prope

1,662

We also have multiple development: 350 Park Avenue, Sunset Pier 94 Studi Hotel Pennsylvania. THE PENN DIST campus-like development currently con million square feet in over a dozen buil land sites surrounding New York's Pen Station, the busiest transportation hub America. We have a 32.4% interest in 1 Inc. (NYSE: ALX), which owns five pr New York metropolitan area, including Avenue, the 1.1 million square foot Blocheadquarters building; signage throug Square and THE PENN DISTRICT; at wholly owned subsidiary, which provid security services for our buildings and We have one property in Chicago, the THE MART; and in San Francisco, we controlling interest in 555 California S building office campus in San Francisc district aggregating 1.8 million SF.

# Certifications and Ratings

**LEED-Certified** 

Vornado's In-Service Office Portfolio is LEED-Certified

Vornado's In-Service Office Portfolio is LEED Gold or higher

Totaling over 24 million SF of LEED Gold or Platinum

Vornado's In-Service Office Portfolio is ENERGY STAR rated

The total SF of ES rated office properties is 33.5 million and the total SF of ES certified office properties is 6.6 million

Properties\*

96%

▶ Vornado upholds energy ratings, benchmarking, and certifications as an important recognition tool and performance indicator. We understand that our tenants prefer buildings that have earned green building certifications and demonstrate competitive energy ratings such as a high ENERGY STAR soore. Because our core business is the maintenance and operation of existing assets, we believe that certifications based on ongoing performance are more relevant to us than those based on performance—modeled design objectives. These efforts are further demonstrated through our programs and commitments.

#### New York City\*

O Fitwel

ActiveScore

ENERGY STAR Certified

#### # Building

- 1. 100 West 33rd Street 2. 1290 Avenue of the Americas 3. 150 East 58th Street 4. 770 Broadway 5. 909 Third Avenue
- 6. PENN 11 7. One Park Avenue
- 8. 330 West 34th Street
- 9. 650 Madison Avenue 10. 731 Lexington Avenue
- 11. 888 Seventh Avenue 12. 90 Park Avenue
- 13. PENN 1
- 14. 350 Park Avenue
- 15. 595 Madison Avenue
- 16. 640 Fifth Avenue 17. 689 Fifth Avenue
- 18. 7 West 34th Street
- 19. Paramus 20. 50 West 57th Street
- 21. FARLEY 22. PENN 2
- 23. 512 West 22nd Street 24. 61 Ninth Avenue
- 25. 280 Park Avenue
- 26. 140 Crosby Street
- 27. 260 Eleventh Avenue
- 28. 825 Seventh Avenue
- 29. 85 Tenth Avenue

Chicago\* 1. THE MART

#### San Francisco\*

















1. 315 Montgomery Street 555 California Street
 Campus

36 Sustainability Report 2023









Legend

O LEED Silver

O LEED Gold

O BOMA 360

LEED Platinum

Sustainabil

## Certifications



### BOMA 360

▶ The bulk of our in-service office properties were certified through the BOMA 360 program. This performance program sets global standards for operational and management practices in the CRE industry.



#### LEED

Vornado owns and operates
25 million square feet of LEED
(Leadership in Energy and
Environmental Design) certified
buildings, representing 36% of
our in-service office portfolio,
with 24 million square feet
earning LEED Gold or Platinum.
Vornado continually retains these
LEED certifications, which have
become an industry standard
synonymous with sustainability
and performance.



#### ActiveScore

Achieved the first ActiveScore Gold-certified commercial project in the United States at the historie Farley Building. ActiveScore is a building certification program centered on active travel for building occupants. Active travel is crucial in creating satisfaction among occupants as well as helping meet overall decarbonization goals.



#### Fitwel

▶ Our flagship property, PENN
1, has earned a 2-star MTBB
Fitwel certification. Fitwel
focuses on occupant health and
well-being, a central theme of
Vornado's operations. We work
very closely with our tenants
to ensure that they understand
the benefits of sustainability.
Providing tenants with Fitwelcertified spaces enhances
satisfaction, thus improving
our ability to work toward our
sustainability goals.



#### Green Building Institute (GBI)

Notrado has begun working with the GBI to join the Green Globes Net Zero Pilot Program. This is a certification that enhances decarbonization in the built environment by requiring commercial landowners to conduct a comprehensive review of performance and evaluate potential for impactful change. We are actively working to meet this certification, which is carned once a 100% reduction is met in either site EUI or CO2e.



#### LEED v5

▶ In addition to our Existing
Buildings Certification within
LEED, Vornado was one of a
select few companies selected
to join the LEED v5 Beta
Program. We hope that our
participation in this Beta will
help guide USGBC in their
efforts to refine language and
functionality. LEED v5 seeks
to incorporate operational,
transportation, and embodied
carbon in its program along
with equity and resilience being
key themes. Vornado is proud to
be on the forefront of this new
LEED version.



#### Fitwel Certified Metrics

▶ Lastly, Vornado has also participated in the Fitwel Certified Metrics Program. This new program presents a way to assess an entire fund/portfolio against evidence-based industry standards. After submitting information pertaining to multiple previously Fitwel-certified properties, the program will provide a report with information and data visualization to show how our portfolio stacks up against research-based industry standards.



Sustainab





#### **New York City**



his disclosure was not subject to Deloitte & Touche LLP's review and, accordingly, Deloitte & Touche LLP

#### Chicago

42 Sustainability Report 2023

#### Waste by Region (metric tons) Grid Electricity Mix (% of energy supply) Natural Gas: 44% 33% Coal-Fired Po 16% Wind Power: Transportation Survey Results (percentage of tenants)\* 4% Hydro Power: 1‰ Solar Power: 1% Other Resources: 1‰ ce: Com Edison Environmental Disclosure Report, 12 months ending September 30, 2023 2023 GHG Emissions (MTCO2e) Scope 3 Direct Metered, Tenant Utilities **Total** + 14,177 = 18,053 3,810 + 66

#### San Francisco



8

# Case Study: Energy Efficiency Programs

**ENERGY MANAGEMENT** is incorporated into our investment due diligence process across all our property subsectors. We tour the properties and review capital and operating budgets, including utility bills, to determine opportunities to reduce energy consumption and decarbonize. We assess energy performance through quantifiable methods of consumption and cost on a per square foot basis, and we consider energy labels and benchmark values provided through ENERGY STAR. We gain an understanding of the building's energy inventory and current energy initiatives

implemented at the property.

Our programs are a phased hybrid of both data-driven and qualitative analyses, wherein we prioritize energy efficiency through building upgrades and retrofits, recover discarded waste heat when possible, and integrate renewable energy sources to support grid modernization.

Our building managers and operators in all our property subsectors are trained and supported by our centralized energy management team to employ sound and responsible energy management across the portfolio. Building Chief Engineers perform in-house technical assessments. akin to a walkthrough energy audit, per guidance from the American Society of

Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE), as part of ongoing preventative maintenance. We employ third-party engineering firms to complete technical assessments such as ASHRAE Level II Energy Audits and Retro-commissioning at all NYC, Chicago, and San Francisco properties over 50,000 square feet, and aim to update these assessments every five years.

In our NYC market, the Audits and Retro-commissioning reports are part of Local Law 87 and are subject to City review to ensure that all landlord-controlled inventory is included, all low- and no-cost recommended repairs are completed, and that the assessments were completed by licensed professionals. Such technical assessments are the basis for our energy efficiency capital work. Vornado staff aim to complete all low- and no-cost repairs and recommended measures, and considers more capital-intensive measures, in each annual budget cycle, if they help us to achieve our carbon neutrality goals or coincide with a building need to replace equipment that has reached the end of its useful life.





#### **Tenant Engagement\***

▶ 2023 was another year of prioritizing tenant engagement, wherein Vornado focused on disseminating and clarifying critical information related to waste management, energy efficiency, community involvement, and greenhouse gas emissions reduction legislation. Property management (PM) teams are an invaluable conduit between tenants and Vornado's Sustainability Team. The Sustainability Team is focused on acting as an effective

resource to assist tenants in meeting their respective sustainability goals, and in strategizing compliance with upcoming decarbonization legislation. Following introductions by PMs, the Sustainability introductions by PMs, the Sustainability Team met one-on-one with tenants, hosted tenant roundtables and town halls, as well as virtual and in-person sort-a-thons representing over 15 million square feet of occupied space, to identify energy-saving opportunities, Notable interventions include mi of tenant lighting and su air-conditioning unitsop the clock. By aligning HV schedules with actual oc thoughtfully implementi fully utilize base building realize direct savings on electricity, while the buil from lower energy consu. from lower energy consu decreased emissions.



#### Operational Optimization\*

Throughout 2023, the Sustainability
Team worked closely with each building's
engineering and facilities teams to identify
operational optimization opportunities tha
would facilitate permanent, portfolio-wide
energy use reductions.

The below four measures were broadly
adopted in combination with a bespoke
menu of interventions throughout the
portfolio, contributing to an overall
reduction of base building energy
consumption.

- Limiting chiller demand
   Staging headered pumps
   Scheduling equipment startup
   Reducing fan and pump speeds

One building re-staged pumps to start every five minutes instead of every minute, which yielded a reduction of 123,000 kWh

in base building energy consumption in a single month, or a 17% decrease. Another building utilized a condenser water wet bulb reset for the building cooling tower, completed a perimeter air system optimization, and lowered flan speeds.

While prioritizing occupant comfort, other strategies instituted by our Chief Engineers included resetting air handling unit setpoints based on return air emperatures, installing VFDs, installing bi-level lighting and controls in stairwells, and replacing outside air dampers with and replacing outside air dampers with leak-free models.

Additionally, NYSERDA has awarded Vornado a Building Operations and Maintenance Training grant to be used toward team training focused on short- and long-term optimization and decarbonization strategies.

#### Data Mana

Nover the pa-has worked w by Tango on c sustainability reporting, an strategies. We energy data r to include rea monitoring, v compliance w frameworks, legislation an the SEC clim as well as inc. from both ter The platform to Vornado p the Sustainal Operations, I Accounting of that our build This compler tenant subm



#### One Park Avenue\*\*

Through time, One Park Avenue has ) Inrough time, One Park Avenue has benefited from pragmatic systems adjustments, while always prioritizing tenant comfort. Three times daily, the four-engineer building operations team does rounds, checking the building BMS and equipment rooms and looking for preventative maintenance opportunities Throughout the year, Vornado's Chief Engineer worked closely with a tenant's

facilities manager, exemplifying Vornado's building and tenant coordination. They optimized BMS settings and began the process of AC unit maintenance and condenser cleaning. In another 55,600 square feet of tenant space, the facilities team saw beyond metal enclosures and identified radiators in need of TRVs (thermostatic radiator valves). The building team also installed Danfoss Control Valves

to avoid simultaneous space heating and cooling and encouraged the tenant to work with their BMS vendor to develop an AC unit schedule. Base building optimizations saw a 25% decrease in electric consumption between July and December.



#### Local Law 97\*

46 Sustainability Report 2023

Nince NYC's adoption of the Climate Mobilization Act (CMA) in 2019, Vornado has focused on complying with Local Law 97 (LL97), the centerpiece of the CMA. We have comprehensively assessed our compliance against stringent local law requirements, ensuring that necessary re-tuning or equipment replacement occurs to assure that each property continues to offer best-in-class spaces. By staying up to date with the evolving knowledge of LL97 requirements as NYC Department of Buildings issues additional guidance and rulemaking, and managing our buildings effectively. Vornado does not anticipate a material financial impact from the fines on our portfolio in the first compliance period between 2024 and 2029.



#### Thalo Labs Partnership: **PENN 1\*\***

▶ In 2023, Vornado began working with technology provider Thalo Labs to accelerate our energy reduction goals. Thalo Labs is a next-generation building decarbonization platform that helps operators directly reduce Scope 1 emissions through real-time emissions measurement, predictive modeling, fault detection, and on-site carbon capture. Thalo sadvanced continuous emissions monitoring equipment is installed on existing assets to provide real-time measurement of CO2, methane, and a variety of other greenhouse gases. Insights derived from this high-fidelity data empower on-site teams to proactively tune systems to improve efficiency and combat fugitive methane.

# **Energy Progress**

Decarbonization\*\* Vornado continued its uniquely comprehensive approach to decarbonization throughout 2023. Benefiting from years of consistent improvements that include innovative building management systems (BMS) upgrades and equipment re-tuning, we took a centrifugal approach to building analysis, focusing on Whole-Building

enhancements that incorporated best practices for operations, design, and programming to facilitate integrated — and reduced — energy use consumption. We achieved this by providing tenants with the necessary resources to make informed operational changes to facilitate energy savings, in addition to working hand in hand

with our Ope actions have with distillent complex info to mandated reductions re enabling us t building's ch-opportunitie decarbonized decarbonized detailed and

#### **NYSERDA Empire Building** Challenge\*\*

▶ In the 2021 Phase 1 Empire
BuildingChallenge award,
we developed aroadmap to
100% carbon neutrality by
2030 at PENN1, a 2.5 million
square footcommercial
building. In 2023, we were
awarded a Phase 2 award
for the cornerstone project.
This deepcarbon retrofit
design thatdetails advanced
watersidehear recovery,
wherein wasteheat from the
building's soondenser water building's condenser water loop willbe recaptured and reused toreduce heating loads insteadof rejecting waste heat into the atmosphere This measureis predicted to

reduce steamusage by 20% and carbonemissions by 8%. Imple-menting advanced watersideheat recovery at PENN Iwill showcase the thermaldispatch model, which high-lights how carbon-free energysources can be optimallydeployed to meet largecommercial buildings heatingand cooling loads. By utilizingavailable technologies ininnovative ways, this projectsets a replicable decarboniza-tion precedent we hope willbe seen precedent we hope willbe seen throughout the NewYork City building sector andbeyond in years to come.

Vornado is fo frontier of su through tech in performa tenant health our commitn carbon neutr at PENN 1. T partnership v allows us to n our goals and same solution 25 million sa assets, ampli and furtheri throughout N - MICHAEL I PRESIDENT FINANCIAL

#### **Empire** Technology Prize\*\*

The Empire Technology Prize was created to help tackle New York's biggest climate challenge: buildings. Heating is the largest single source of buildings. GHG emissions — over 30%. Heat pumps are a great solution for decarbonizing building heat; however, existing technologies can be difficult to integrate into New York's buildings. New York needs new solutions: a new class of heat pumps that work with the existing steam or high-temperature hot water infrastructure, and new distribution solutions that make it easier to adopt existing centralized low-temperature heat pumps.

Vornado is thrilled to be a Demonstr in the Empire Technology Prize, work with NYSERDA, The Clean Fight, am providers to dear-how is buildings til portfolio/Vornado's commitment to co-includes implementing new solutions reduction goals along with the transi-we appreciate the opportunity to be a developing new solutions focused on I buildings that will further support on goal and maintain our first-class bui-LAUREN MOSS, SVP, CHIEF SUSTAINABILITY OFFICER



#### **Better Buildings** Challenge\*

- Vornado joined this initiative in 2023 with a 2019 base year and will leverage its extensive resources in technology, engineering, and consulting experience to further decarbonize the portfolio.
- \*Leading businesses, manufacturers, cities, states, universities, and school districts commit to improving energy efficiency throughout their building portfolio by at least 20% over 10 years and share their strategies and results."
- BETTER BUILDINGS CHALLENGE

#### **ENERGY STAR Tenant Space** Recognition\*

▶ Through the Vornado-hosted tenant roundtable presentations, we champion and present ENERGY STAR engagement programs. One of our largest tenants, over 400,000 square feet, approached us about

pursuing ENERGY STAR
Tenant Space Recognition,
aligning their office space to be
energy efficient and sustainably
operated, including separately
submetered electricity with
online access to their real-time

data through a dynamic platform, efficient lighting and equipment, and establishment of their office procurement protocol to ensure sustainable attributes in their purchasing decisions.

#### EP100\*

▶ As a member of EP100, Vornado has committed to implementing an energy management system (EnMS) aligned with ISO 30001 standards across all in-service office operations by 2029 and to improving energy productivity by 50% by 2030 relative to a 2009 baseline.

96% Current **Facilities** Managed by an EnMS

Improvement of Energy Productivity

#### SBTi/GHG **Emissions**

GRI 305-4

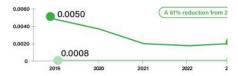
Vornado's commitment to carbon neutrality and associated emissions reductions targets have been approved by the Science Based Targets Initiative as consistent with a 1.5°C climate

based rangers innurative as consistent with a 1.5°C climate scenario. As of 2023, we have achieved reductions of 61% in our market-based emissions and 4% in our location-based emissions. Vornado evaluates its carbon emissions from both location-and market-based approaches. Location-based carbon reflects portfolio emissions based on relative grid average emission factors; market-based carbon reflects emissions that we are responsible for due to our purchasing decisions.

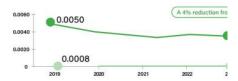
On January 30, 2024, the EPA released the updated 2022 eGRID factors which we have applied to our GHG emissions reporting. In the NYC region, the largest region Vornado operates within, the regional grid's dependence on non-renewable energy sources has escalated, resulting in a significant coefficient in a significant coefficient increase as compared to the 2020 eGRID factors, when 2020 eGRID factors, when our Vision 2030 baseline was established. Although this reliance is temporary, these large-scale changes will continue to impact our location-based emission progress until the regional grid implements

long-term rei We will conti practicable o strategies an adjustments existing build performance design will b new developi

#### Market-Based Emissions (MTCO2e per square foot)



#### Location-Based Emissions (MTCO2e per square foot)





# Sustainable Development

At Vornado, sustainability and resilience are important lenses through which we view all development projects at any scale. Our strategy focuses on sustainable development inclusive of carbon neutrality, operational efficiencies, human health, minimizing material resources, and climate change adaptation.

#### **Embodied Carbon**

▶Vornado has recently committed to a target to reduce embodied carbon intensity for our new development projects by 10%. We will continue to evaluate every project for additional targets and lower carbon opportunities, depending upon the project scope, project type, and construction approach. To support our commitment, we will complete a life cycle assessment on each new development and redevelopment project to determine how best to meet and/or exceed our target. We will use the LEED ∿4 guidance and methodology for MRe Building Lifecycle Impact Reduction as our starting point to evaluate opportunities to incorporate reductions in our design and construction.

Vornado has committed to developing and managing environmentally healthy buildings, and is seeking to improve the decarbonization of its new construction and existing real estate portfolio. Our Embodied Carbon Framework, released in April 2024,

was created to establish embodied carbon tracking, create embodied carbon reduction goals, and implement Whole Building Life Cycle Assessments (WBLCA) for new development projects.

Vornado, in partnership with Atelier Ten, developed a Framework for establishing embodied carbon performance on future development projects. The Framework is intended to be a "living document" that is updated periodically to best fit the needs of current projects and future goals. The Framework is intended to shape Vornado's design strategy and will be used on a project by project basis.

The effort was initiated after Atelier Ten completed WBLCA reports for FARLEY Moynihan Train Hall, PENN 1, and PENN 2 redevelopment projects. These embodied carbon studies facilitated discussions about overall embodied carbon goals for Vornado and how to establish embodied reporting for Vornado developments in the

future. The embodied ca divided into four section implementation, tools fo and assessment method. This Framework will the portfolio, define goal embodied carbon assess and develop a pathway to carbon reductions for ne and the entire developm. The Framework identific carbon policy tools to sh procurement strategy fo carbon materials and he for tracking the results t goals and across project format. The Framework best practices in carbon features to inform new c projects, major renovati fit-out projects to meet c carbon reduction ambiti

#### Greenhouse Gas (GHG) emissions

GHG emissions for properties Under Development	GHG emission	
	20	
Scope 1	69	
Scope 2		
Location-based	44	
Scope 3		
Category 13 - Downstream leased assets	15	
Total emissions (Scope 1 + 2 + 3)	1,15	

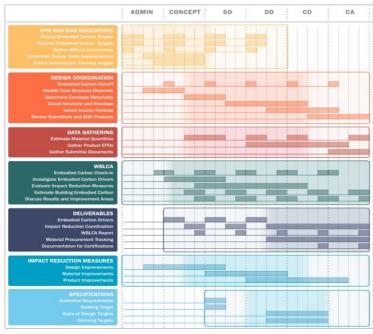
52 Sustainability Report 2023

#### Embodied Carbon Framework: Project Timeline and Approach

▶ To ensure that embodied carbon is discussed, opportunities are realized, and goals are achieved, each phase of the design and construction process should include a review of the embodied carbon goals and progress. Each design phase should follow the same general format for project meetings, analysis, and deliverables. Each phase will begin with a kickoff meeting to discuss embodied carbon goals, opportunities, reduction strategies, and plan for the design phase.

After the kickoff meeting, embodied carbon studies can be carried out in conjunction with the design work so that embodied carbon assessments are used as an iterative tool to refine the design and maximize embodied carbon reductions.

At the end of each phase, life cycle assessment deliverables should be completed to quantify the project embodied carbon performance and identify core features that need to be carried into the next phase.



Embodied Carbon Framework, produced by Atelier 10 for Vornado, April 2024 (Contact sustainability@vno.com for a copy)



#### Pier 94\*

▶ The Sunset Pier 94 Studios, currently under construction, will be the first purpose-built studio in Manhattan. It is being constructed in partnership with Hudson Pacific Properties, Blackstone, Inc., the City of New York, and the New York City Economic Development Corporation. The 266,000 SF project will include six soundstages with production control room facilities, support space, and offices. Some of the notable sustainable attributes are that the studio will be all-electric and will include a 650 kW rooftop solar array, which will reduce the strise reliance on grid power during peak times of the day, and that the parking garage will house electrivehicle charging stations. The studio is also targeting LEED Gold and Fitwel Two Star certifications.

#### Tenant Fit-outs\*

In 2023, Vornado implinigh-performance fit-oensure that tenant offic but exceed minimum et o drive efficiency and costs. The requirement systems, HVAC equipm IT, and occupant healt improvements to the te Some of the requirement lighting power density! while maximizing the u and lighting controls; et HVAC units incorporat controlled ventilation tindoor air-quality sensoutdoor airflow; and the fautomatically control management for 120-ve are deemed non-critica need to be on at all tim the energy savings recomodeled to reduce ener



#### PENN 2\*

PENN 2 is opening in 2024 with brand-new facade, lobby, and amenity center. The renovation saved 60.3 million kg CO2e of embodied carbon, a 75% reduction. The largest embodied carbon reduction was from the reuse of the reduction was from the reuse of the existing building foundation and structure, which avoided 53 million kg CO2e of embodied carbon compared to a newly constructed baseline, a 66% reduction.The building was completely reclad with a high-efficiency modern curtain wall and new mechanical equipment as well as new tenant amenities to be shared in concert with PENN as weil as new tenant amenities to be shared in concert with PENN 1.This is also our first carbon neutral building with 100% matched renewable electricity. The road to neutrality included:

#### Reduce

- Efficient electric chillers.
   Smart building technology that leverages occupancy data and optimizes HVAC
- High-performance triple glazed windows.
   Destination dispatch elevator innovation.
   Low-carbon tenant fit-out design.

#### Renew

- 100% of the building's electricity is sourced from hydroelectric facilities in upstate New York.
   Carbon offsets purchased for residual district steam energy consumed at the building.

#### Resilience and Adaptatic

SASB IF-RE-130a.5

#### Mechanical Equipment

When a new building is in a flood zone or when all critical mechanical equipment and electrical grade to avoid flood damage.

#### **Green Roofs & Stormwater Retention**

Our new roof landscape systems are designed to retain stormwater and to slow runoff into the url surrounding infrastructure. Green and white roo our buildings; reduce current and future deman cooling; and contribute to heat island reduction, local relief to surface temperature.

#### Glazing & Envelope

• Our new glazing and envelope systems are desipheavy wind and ice conditions. They also are desipheat gains and improve insulation values to and cooling demand.

#### Flood Barriers

When a new building is located in a flood zone, we walls and venting systems inside our building lobbic storm surges and floods and their associated wat buildup without damaging the building. At our e we install temporary exterior barriers to prevent touching the building emelope.

#### **Backup Generation**

➤ We install backup generation to support, at minim safety systems, as well as critical infrastructure.

Energy Management & Smart Buildin

Our buildings have the ability to reduce demand
events that cause the local grids to operate close to
continuing to provide comfortable conditions at bui

#### On-Site Renewables

➤ We assess opportunities to install on-site renewab that have the appropriate layout. This positions the t accommodate on-site renewables, equipping it to op-continue to operate if the local grid experiences inte

### **Nature**

Vornado's portfolio is concentrated in dense urban cores: New York City, Chicago, and San Francisco. Within these highly developed surroundings, informal green and open spaces offer a connection to nature for residents and visitors.

#### **Tenant Green** Space

Although research into the human-nature connection within the context of working life is relatively new, there is emerging evidence pointing toward the importance of the human-nature connection within these spaces. This list includes stress reduction, improved health and well-being, fostering creativity, and attention restoration. The Vornado portfolio offers tenants various opportunities to connect with outdoor spaces during their workday.

their workday.

At our 330 West 34th Street office, Structure Tone is fortunate enough to have a terrace on the 11th floor that allows our occupants to take a breath of fresh air during the workday without having to leave the effice. During the warmer months, employees often utilize this outdoor space to enjoy their hunch while getting some sunlight or your take a personal call while guzing at the downtown city skyline. In addition to the employee well-being benefits, our bechive is also housed on the terace and the honeybee colony is thriving. The ability to connect our people with nature is truly a volutable experience and we are grateful for this building amenity and the tremendous value it offers.

— RNAN HUGHES STRUCTURE TONE.

- RYAN HUGHES, STRUCTURE TONE, SUSTAINABILITY MANAGER

#### Vornado Open Space

Green Terrace or Roof 599,255 SF

289,847 SF

6,960 SF

Total Tenant Outdoor Space 896,062 SF



#### **Public Green** Space

▶ Vornado's portfolio contains nine privately owned public spaces (POPs), over 180,000 square feet of zoned public space, throughout New York City. These privately owned and maintained spaces are declicated to public use and enjoyment in the densest areas of the city. They allow our community to sit, relax, people watch, eat, and connect with nature.

Other instances of green space can be found throughout Vornado's portfolio. THE PENN DISTRICT offers 10 acres of granite pedestrian walkways and public plazas, along with newly planted trees. The seven public plazas found within the district were created with unique layouts to provide ample space for outdoor activities and events, or a quite place to meet a colleague. PENN 2 offers distinctive corner loggias on every floor in addition to a rooftop terrace. The redevelopment of

THE PENN DISTRICT has res

THE PENN DISTRICT has rev for new sidewalk paving, over tw space and open-air plazas, and of outdoor tenant spaces.

The FARLEY's fifth floor or 70,000 square feet of outdoor park space in Midtown Manhs North Passageway of Grand C entrances and plaza areas dad Avenue guide visitors through space to an interior atrium coun-quality reflecting pool. In District, pocket parks are prog 16 Ninth Avenue, creating an indoor-outdoor environment. In Chicago, THE MART he annual events in its 13,000 sq space, including ART on THE

#### Central Park Conservancy **Partnership**

▶ Central Park is an essential natural space, and the Central Park Conservancy is responsible for its day-to-day care and ensuring this green space is accessible to all. Twice annually, Vornado participates in

"Day in the Dirt," providing 15 to 20 volunteers dedicated to painting benches, planting ground cover, raking leaves, and clearing plant beds. These services help maintain a welcoming space for both wildlife and New Yorkers.

# Path to Zero Waste\*

VORNADO IS DRIVING waste diversion and best practices among our tenant base by adopting organics collection in 100% of our in-service office portfolio, resulting in a 65% diversion rate with 1,988 metric tons of food waste diverted and 13,598 MTCO2e avoided.\*\*
In addition to wide adoption of the food waste

In addition to wide adoption of the food waste diversion program among our tenant base, we are also changing company culture. Our corporate offices in all three regions of operations — New York, Chicago, and San Francisco — have set up composting programs internally and participate in annual zero-waste training alongside our tenants.

#### Zero-Waste Resources & Events for **Tenants**

Vornado recognizes the importance of in-person engagement and discussion. The Vornado Sustainability Team hosts annual tenant roundtables sharing zero-waste metries, progress, and best practice strategies.

We also offer "sort-a-thons," alunchtime in-person waste

We also offer sort-a-thons, a lunchtime in-person waste sorting event within tenant spaces upon implementation of an organics program. Attended by Vornado Sustainability and

our zero-waste consultants, the event offers hands-on waste sorting guidance utilizing products and items commonly disposed of by the tenant. It provides real-life examples of each waste stream from the tenant space itself.

The team also provides tenant onboarding during the movel-norces, equipping each new tenant with the guidance and resources to set up their space for optimal waste diversion.

In 2023, we designed brand-new waste signage and labels inclusive of the organics stream. Our updated signage features helpful imagery of accepted materials in each stream and details the waste stream's path from our buildings to its end destination facility, whether that be a windrow farm for food scraps or an energy recovery facility for the trash stream.

#### The Janitorial Role

▶ By engaging the janitorial teams with additional training and understanding their integral role in waste diversion, we have empowered the cleaners to take pride in their part. Our training focuses not only on operational procedures but what happens to each waste stream

once it leaves our building and the positive environmental impacts of properly sorting waste and diverting materials from landfills and incineration. In 2023, BMS completed 73 hours of zero-waste training. Our jaintiorial partner in the San Francisco region has

received extensive training on material types to conduct nightly on-site waste sorting. Their efforts and the best practices adopted by our California tenants have resulted in the highest diversion rate in the portfolio at 555 California Street.

#### Data Tracking\*\*

▶ Vornado collects detailed data on our waste reduction efforts, including annual waste audits for all commercial properties and monthly diversion reports. These data points lead to targeted programs designed to effect continuous improvement toward our waste reduction goals.

Access to our organics collection program, representing 27.1 million SF of our in-service office portfolio.

98%







### Water\*

GRI 2-24, 3-2, 3-3, 303-1, 303-3, SASB IF-RE-140a.4

VORNADO UNDERSTANDS the importance of conserving water and commits to reducing water consumption wherever possible. Our primary method of mitigating water risk is to reduce our water

withdrawals and consumption. In 2020 Vornado committed to a 10% reduction by 2030 below a 2019 baseline year and for the year ending 2023 measured a 32% reduction. Through advancing efficiency efforts, we have exceeded the goal every year starting in 2020. We will continue to measure our water consumption, and plan to refresh our water targets and goals in the upcoming year.

#### Water Use

▶ Vornado's portfolio is concentrated in the urban cores of New York City, Chicago, and San Francisco. Primary water consumption includes potable water for drinking across our portfolio; plumbing use; water used for specific business purposes, such as food service or showers in exercise facilities; and water use attributed to heating, ventilation, and air-conditioning (HVAC). We do not consider water consumpti used for agricultural purposes to be significant and therefore do not include this consumption in our reporting boundary. Our sources for water

are exclusively municipal water systems, and our discharge destinations are exclusively municipal sewer systems.

Our primary risk of achieving our water consumption reduction target is our lack of control over end users. Increases in occupancy, operating hours, or densification of existing spaces will cause consumption to increase. Diversity of water use — such as retail uses in food service or health and exercise facilities — could also evue an increase in consumption. could also cause an increase in consumption, despite our efforts to reduce it.

#### **Leak Detection**

▶ Leaks in water supply systems result in inefficient resource allocation and can have significant impacts on water supply and sustainability.

To mitigate water waste, leak detection

systems are implemented within each of Systems are implemented within each of Vornado's tenant spaces. These systems can be found in working pantries, cold water supply lines to hot water tanks, all local controls, engine rooms, and every sprinkler system.

#### Water Stress

▶ We face water-related environmental constraints and risks that are characteristic of urban places, and risks that are characteristic of urban places, and use publicly available maps, resources, and tools to gain insights into the risks inherent to our properties, including FEMA'S Flood Map Service Center and WRI's Aqueduct Water Risk Atlas.

Approximately 15% of our total properties operate in some regions with high or extremely high

baseline water stress. The World Resource Institute baseline water stress. The World Resource Institute categorizes high and extremely high stress based on the level of available water withdrawn annually to support agricultural, domestic, and industrial users. Our New York and San Francisco regions experience medium to high levels of interannual variability. Our San Francisco locations are subject to medium to high seasonal variability.

#### Lease-Driven **Provisions**

> We believe that our lease fosters a sustainably • We believe that our lease fosters a sustainably designed tenant space and an ongoing environment that both encourages the tenant to actively manage and measure their own footprint. Where there is an economic or environmental benefit, Vornado prioritizes sustainability requirements in tenant fit-outs.

Our revised tenant fit-out guidelines include enhanced requirements for water-efficient plumbing fixtures. These high-performance design requirements are also outlined in our rules design requirements are also outlined and regulations included in the lease.

\*Any information relating to forward-looking statements, targets, goals, progress against goals, and line examination and, accordingly, Deloitte & Touche LLP does not express a conclusion or any form of as

#### Water Regulation

▶ Vornado faces water-related regulatory constraints. Our water costs increase regularly to pay for developing and maintaining the infrastructure that supports our municipal water and sewer systems. We incur sewer costs to pay for the treatment of water that is discharged from our buildings. We incur additional costs to reduce

the temperature of the water w the sewer system. We may incu to comply with future stormwa regulation in our regions. We e water to continue to rise into th future, which will increase our

#### Low-Flow Fixtures/ Retrofitting Plumbing **Fixtures**

▶ We reduce our water consumption through retrofitting our plumbing fixtures and modernizing our HVAC systems. Our restroom plumbing fixtures are retrofit as part of renovation efforts, which occur annually as part of a recurring capital

improvement process.
Our HVAC water efficiency program includes water reduction and water reuse efforts such as redirecting excess steam condensate to our cooling

towers, to reduce sewer dischar our cooling towers with more et systems; and ensuring our chill serviced and maintained on an

In new construction or rede we also mitigate our stormwate stormwater retention tanks tha for irrigation and cooling tower roofs and terraces to capture st



As an employer, building ow landlord to thousands of busi we are responsible for maints and improving the health of o environments, as well as con the value of our health and we programs with consistency a to our stakeholders. Healthy contribute to a healthy societ to be an important criterion in tenants. We believe that conhealth programming and conprotocols create a responsib framework for our employee and our visitors to consider e their daily lives.

# People & Places

64 Tenant Engagement 68 Health & Wellness 69 Partnerships and Participation 70 Occupational Health & Safety 71 BMS & Green Cleaning 72 Community Development 74 Human Capital Management 75 Learning & Development 76 Engagement at Vornado 78 Vornado Volunteers 80 Vornado

# Tenant Engagement

AT VORNADO, we believe that a building's sustainability is grounded in meaningful stakeholder collaboration with our tenants, employees, and communities. Our policies and elite standards — from energy efficiency to green cleaning — are implemented across our entire portfolio.

Our approach with our tenants involves forging relationships and partnerships that lead to transformative projects, improving the health and wellness of our community

APRIL 25, 2023

Tenant Sustainability Roundtable

13.4 Million

ENERGY STAR programs

Fitwel Metrics\*

23% of buildings are cert Fitwel programs

6,002,734 sr

2,504,260 sf

1,339,563 sf

### **Tenant Programming\***

Town Halls

> Hosted both virtually and in-person, these forums allow the Vornado Sustainability Team and tenants to connect, discussing topics concentrated on waste diversion and recycling, in addition to broader corporate ESG trends, regulatory updates, and best practices.

### **Annual Waste**

Annual Waste
Audits
By auditing a building's
waste stream, we aim
to identify key areas
for waste diversion
improvement. The
results of the audit
exercise are shared with
our building managers
and janitorial teams to
drive positive change at
the building level.

#### Sort-a-thons

Vornado Sustainability and our zero-waste partners host interactive on-site demonstrations to help tenants properly sort their waste and answer questions about zero-waste initiatives.

#### Energy Reduction

Reduction Workshops
• Supported through the ENERGY STAR
Treasure Hunt Program, workshops are used to identify tenant Energy Conservation Measures (ECMs) to reduce long-term energy use.

Meet to require to ream potent solution was areas to the

64 Sustainability Report 2023

Tenant Sustainability Roundtable

#### **Tenant Outreach**

#### LIVE. WORK. DO. App

LIVE. WORK. DO. App

Yornado's App and Tenant Portal provide
Sustainability contact information,
updated information on ENERGY STAR
scores, organics collection, energy savings
tips, and upcoming events like Climate
Week for participation and engagement.
In-building tenant outreach via elevator
screens, emails, and lobby events; monthly
submeter reports; and tenant surveys are
also in the App and portal.

#### **Tenant Fit-Out Guidelines**

Tenant Fit-Out Guidelines

Where there is an economic or
environmental benefit, Vornado prioritizes
sustainability requirements in the tenant
fit-out guidelines. The guidelines include
enhanced requirements for energyefficient lighting and controls, HVAC
equipment, and water-efficient fixtures.
We believe this fosters a sustainably
designed tenant space and an ongoing
environment that encourages the tenant
to actively manage and measure their own
carbon footprint.

#### **Tenant Energy Competitions**

Ienant Energy Competitions
Vornado Sustainability hosts challenges
at properties in NYC and San Francisco
throughout the year. We communicate
to tenants responsible and efficient best
practices during a time when climate is
top of mind in those regions, and then a
multi-day competition commences for
tenants to reduce their energy consumption
against each other. against each other.

#### **Earth Hour**

Annual event used to raise awareness about energy consumption and its impact on the environment.

Daylight Hour
Annual event aimed at reducing energy use, improving occupant health, and encouraging everyone to turn off nonessential lighting and use daylight from "None I timp." 12 to 1 pm local time.

### America Recycles Day

America Recycles Day (ARD):

This Keep America Beautiful national initiative takes place annually on November 15 and aims to promote and celebrate recycling in the United States. Vornado leverages this event to motivate and educate our tenant base to recycle more and better. We mark this occasion with tenant-facing zero-waste messaging in our public spaces and elevators and in-person education events.

Earth Day
To celebrate Earth Day, Vornado provides information relevant to our tenants' carbon footprint both in the office and at home. Topics include ENERGY STAR saving tips, Vornado energy-efficiency targets, and waste diversion strategies.

#### Climate Week

Climate Week

Launched in 2009, Climate Week is a key
summit with a mission to showcase the
momentum of global climate action. Taking
place right in our own backyard, Vornado
dovetails on this important initiative by
partnering with tenants to bring energy,
climate, and waste education directly to
their smallers.

#### Submetering

Submetering

Across our office portfolio, Vornado requires or promotes submetered or separately metered electricity consumption for all tenants over 5,000 square feet. We also require submetered or separately metered water consumption for all tenants whose predicted use is expected to exceed normal business practice. The submeter arrangement enables Vornado to share energy and water consumption with our tenants monthly through the generation of the submeter Bill. Tenants are billed transparently based on their actual and exclusive consumption as recorded on the submeter.

Surveys

> Tenant surveys create a direct dialogue between Vornado and our tenants. As part of the LEED Certification program, Vornado conducts annual Tenant Comfort Surveys to ensure building performance and quality are up to the tenant's standards. Areas of focus include thermal comfort and air quality among other comfort indicators.





## Health & Wellness



IN ADDITION to individual building certifications under Fitwel, Vornado implemented the Fitwel Viral Respon Module (VRM) as a response to the COVID-19 pandemic and has since maintained the certification and procedures for the health and wellness of our tenants.

Additionally, we conduct annual surveys to gauge tenant transportation and satisfaction as we constantly look to improve the health and happiness of our tenants. We also offer numerous wellness activities for the occupants of our properties. Yoga, Happy Hours, Subsidized Fitness, proximity to amenities, walking groups, etc., are just some of the activities provided

throughout the portfolio. Indoor Air Quality (IAQ) testing is conducted biannually throughout the portfolio to measure Carbon Dioxide, Carbon Monoxide, Volatile Organic Compounds

68 Sustainability Report 2023

(VOCs), Particulate Matter, Temperature and Relative Humidity. If any of these contaminants are above acceptable levels, our specialists will analyze and provide solutions for bringing them down. The property then takes steps to correct the issues, and specialists will revisit the property to test and confirm all potential contaminants are within an acceptable range. Beyond testing, Vornado has beeninstalling IAQ monitors in various buildings,
Vornado provides the occupants of its

buildings with air-quality protection from MERV 13 or higher filtration systems, entryway control systems, and walk-off mats. Green cleaning is done solely with products that have been certified/assured as safe. We are smoke- and tobacco-free across the entire portfolio and conduct annual Legionella and Domestic Water Testing through our Comprehensive Water Management Plan.

# **Partnerships** and **Participation**

Our employee as members of hold board pos in organization we make mear contributions t sustainability is estate.Our par strategically ac topics that incl and water effic climate policy, building certifi building electr zero-waste str and recycling, frameworks, a sustainable op and maintenan

#### Office Portfolio Accessibility Metrics\*

Average Transit Score

100

98.63

#### **National**

- Better Climate Challenge
- EPA Energy Star Partner
   U.S. Green Building Council's LEED Existing Building
   Consensus Committee
- Urban Land Institute, Greenprint Center for Building Performance and Product Council NAREIT Real Estate Sustainability Council
- Real Estate Re Committee

#### Regional

- New York Energy Consumer Council (Co-President of the Board of Directors and member of the Board of Directors)
  Real Estate Board of New York Sustainability Committee
  Building Energy Exchange
  Board of Directors

- · Urban Green Council
- Urban Green Council (Program Committee) Retrofit Chicago Building Owners and Managers Association (BOMA) New York (Board of Directors), Chicago, and San Francisco
- Regional Plan (Board)
   Young Men's/ Estate Associa
   AIA Committee
- **Environment** Waste Design Advisory Boar

# Occupational Health & Safety

2-24, 3-2, 3-3, 303-1, 306-1, 404-1, 413-1, 416-1

BMS AND VORNADO maintain a robust and multi-pronged health and safety program targeted to identify and control potentially hazardous situations in the workplace. Vornado recognizes that preventing accidents and increasing safety awareness leads to healthy employees, reduced absenteeism, and improved productivity.

Safety Training
BMS provides monthly accident and incident prevention training. The training follows OSHA guidelines and covers numerous situations, such as slips, trips and falls, back safety, chemical safety, electrical and fire safety, handling sharp objects, hot and cold stress, first aid, and more.

#### Personal Protective Equipment (PPE)

BMS and Vornado frontline team members are provided the necessary PPE for all types of scenarios, from chemical handling to prevention of exposure to bloodborne pathogens and viruses such as COVID-19. Training is conducted annually on the proper ways of donning and doffing PPE.

#### Safety Stations

ed safety stations that provide one central-We have created safety stations that provide one central; ized location for all staff to access personal protective equipment, a Safety Data Sheet (SDS) binder for all products used on-site, general safety procedures, an eye wash station, the bloodborne pathogens kit, and the regulation-compliant sharps container.

#### **Pathogen Safety**

We take every precaution to prevent or minimize staff exposure to pathogens. BMS staff is provided with pathogen training, including (but not limited to) epidemiology, symptoms, how pathogens may be transmitted, how to prevent exposure under various scenarios, PPE, and how to handle situations of

#### Job Hazard Analysis (JHA)

Vornado and BMS complete JH/IA/s to assess potential hazards associated with each task for our engineering and jaintorial teams, considering engineering, workplace, and administrative controls to eliminate or reduce risks and determine what PPE is required to conduct the job safely.

# Case Study: BMS & Green Cleaning

BMS. Vornado's cle is committed to pro sustainability, incre efficiency and use of resources and decre both in BMS's opera of its suppliers. At B a healthy indoor en tenants through our leading green clean which has maintain GB with honors and certifications since : In 2023, BMS and

janitorial partners ac sustainable purchase



#### Certification **Highlight: Green** Seal

➤ Since 2014, BMS has consistently met or exceeded the rigorous requirements o Green Seal's cleaning services standard (GS-42),which includes criteria for (GS-42), which includes criteria for effective cleaning operations, staff training, clear communication, and the use of better equipment and safer products, GS-42 signifies safer indoor air quality, reduced environmental impact, outstanding professionalism, and uncompromising cleaning performance. BMSs compliance is verified through comprehensive documentation, interviews, and site inspections. ▶ BMS follows enhanced disinfection, and mainte while prioritizing wellne disinfectants with Green safer active ingredients I peroxide and using vacur HEPA filtration. peroxide and usin HEPA filtration.



### 2023 Supply **Purchase Impact**

► Chemical Use Reduction = 2,236 Gal

Water Use Reduction = 540,680

Packaging Reduction = 125 Tons from

Janitorial Products = 100% are assessed for health and safety improvement

products, including 80 of recycled paper prod represents 1,333 cubic

▶ By purchasing liners of consumer recycled conreduced emissions by in 2023.

BMS Employee Health & Safety Program

76 BMS supervisors and senior level staff trained in GS-42 green cleaning standards.

100%

of active BMS employee trained monthly in compliance with OSHA

Hours of training, per

Hours of safety checks in 2023.

# Community Development

Sustainability as a Key Driver

#### THE MART

#### ART on THE MART -Illuminating Public Art

▶ Founded in 2018, the program is a result of a 30-year commitment by THE MART owner Vornado Realty Trust, in close collaboration with the City of Chicago, with a shared goal to provide public access to innovative contemporary art to the thousands of visitors traversing the Riverwalk each day. ART on THE MART brings cutting-

ART on THE MART brings cutting-edge video mapping techniques to Chicago's Riverwalk, displaying projections of contemporary art across the 2.5-acre facade of THE MART, the largest privately held commercial building in the United States, internationally recognized as a global innovator in culture, design, and technology. ART on THE MART presents pioneering moving image work by renowned local, national, and international interdisciplinary artists. The program has commissioned work by celebrated names like Derrick

Adams, Charles Atlas, Nick Cave, Barbara Kruger, and more, alongside projections by Chicago-based artists and local partner organizations, from the Art Institute of Chicago and The Adder Planetarium to the Chicago Black Dance Legacy Project and Chicago Public Schools. ART on THE MART amplifies the expressions of the broadest range of artists and partners to realize the power of public art and inspire positive community engagement along the river, throughout Chicago, and beyond. Projections are visible from Wacker Drive and along the Riverwalk. The platform is free and open to the public nightly, nine months per year, from April through December. Adams, Charles Atlas, Nick Cave, Barbara

#### **River Park**

▶THE MART's River Park is the first phase of a building-wide transformation, including interior and exterior renovation. The lush green space along the riverfront offers plentiful all fresco seating. The adjacent drive, with THE MART as a towering backdrop, can accommodate tented galas. There is also the option of using THE MART's boat dock for guest arrival/departures. The River Park is a completely unique riverside venue.



#### THE PENN DISTRICT

#### A Vibrant Campus\*

THE PENN DISTRICT, the most accessible New York City neighborhood in the heart of Manhattan, has been transformed into a sustainable campus of best-in-class office, retail, food and beverage, and open spaces. Vornado has completed a \$2.4 billion transformation of the neighborhood to include over a half mile of new sidewalk paving, over two acres of green space and open-air plazas, and 73,000 SF of outdoor tenant space. FARLEY, PENN 1, and PENN 2 have undergone significant renovations resulting. undergone significant renovations resultir in a cohesive and collaborative destination ns resulting in a cohesive and collaborative destination focused on health, wellness, hospitality, and accessibility. The entire district has 100% zero-carbon electricity, supplied by in-state renewable resources. PENN 1 underwent a full building window replacement with triple-pane glazing and a new amenities offering to include community space, a fitness center, restaurants, and conference areas, while PENN 2 was completely reclad with a high-efficiency modern curtain wall and new mechanical equipment, as well as new tenant amenities to be shared in concert with PENN 1.

as new tenant amenities to be shared in concert with PENN 1. PENN 2 was delivered as a carbon-neutral property. Efficiency improvements from the PENN 2 repositioning that contribute to this distinction include:

Tenants seek community, amenities, culture, and flexibility in their workspaces. Vornado has a distinct advantage to share in THE PENN DISTRICT alongside in THE PENN DISTRICT alongside the infrastructure and technology advancements that will exceed these evolving expectations. A robust curriculum of engaging rogramming across physical and digital spaces alike provide access to topics in health and welli-entertainment, and culin We engage audiences to p collaborate through cura activations and encourag stivations and encourag stations and encourag stations and our retai opportunities for tenants special events.

- Advertising Week New
   TED Talks at the PEN?
- LIFETIME Classes in
- · The Irish Exit Opening Food Hall
- Moleskine and Artist is opening at the Moynih
   Sandow Arts & Interior
- Programming

# Human Capital Management

#### Workforce



401(k) and Employer Match
 Tuition Reimbursement
 Employee Referral Bonus

 Dependent Care Flexible Spending Account

Maternity and Parental

Maternity and Parental
 Leave
 Adoption/Surrogacy/IVF
 Stipend

Work/Life Balance Employee Assistance Program

Commuter Benefits
 Cellular Discounts

• Paid Time Off & Elective

Summer Fridays
 Vornado Day of Service
 Flexibility to encourage employees to find better balance while supporting the critical need for in-person collaboration in the office.

Medical, Dental, and Vision Coverage including Telemedicine
 Health Savings Account

Life Insurance
 Short-Term and Long-Term

Holiday

• Summer Fridays

the office

**OUR EMPLOYEES** are the foundation of our business. We provide training and education, promote career and personal development, and encourage innovation and engagement to foster their talent and growth. Vornado upholds strict policies against bribery and corruption, child labor, and forced or compulsory labor. Any trustee, officer, or employee who becomes aware of any existing or potential violation of Vornado's Code of Ethics is required to notify their Code of Ethics contact person promptly. Violations may be reported anonymously, and all communications will be kept confidential. Our Code of Business Conduct and Ethics is found on our website at www.vno.com/governance/conduct-and-ethics. Our policies, including our Grievance policy, are found in our employee handbook, which our employees must review and acknowledge

Disability Insurance • Healthcare Flexible

Spending Account

Subsidized Gym

· Workplace Walking

Subsidized Gym Memberships
 Health and Wellness Fairs
 In-Workplace Vaccinations
 CPR Trainings
 Wellness Incentives

Challenge Program via WalkingSpree

#### **Employee** Training

- Cybersecurity
- Excel Training
   Continuing Education
  Through Building Owners
  and Managers Association
  (BOMA). IUGE Local 94,
  Local 32BJ, and the NYU
  Schack School of Real
  Estate
   Green Professionals
  (GPRO) Training, Administered by Urban Green
  Council

#### **Events**

- School Supply Drive
- · Food Drive
- . Toys for Tots

- Anti-Harassment
- Excel Training

- JP Morgan Corporate Challenge
   Various Employee Appre-ciation Gatherings and
- Holiday Parties
   Climate Week
- Earth Day
- Al A Stair Climb Career Day

### Learning & Development

#### Continuing Education

▶ Vornado has a strong commit to creating an environment in employees can develop their st potential. Employees are encou opportunities - both inside and organization - that provide exp allow them to build on existing explore new job-related areas c includes attending conferences seminars and meetings and pa professional associations. Emp eligible for yearly tuition reimb pursue studies related to their

#### Mentoring & Internships

As a business leader in one o diverse markets in the world, a responsibility to enhance op within our organization and is representation in the real esta Every year, we work with the l New York City to host high scl at PENN 1 for Career Discove This program provides the stu meaningful exposure to both career opportunities available and the skills and knowledge prepare for them.

Along with offering robust:

internship opportunities to str partners with The Departmen and Community Development Ladders for Leaders Program a unique opportunity to explo and educational interests.

74 Sustainability Report 2023

**Employee** 

Health &

**Benefits** 

# Engagement at Vornado

Our employees are our greatest asset. In their own words, here's what they had to say about their journeys working at Vornado.



Jiten Gajera
AVP, Property Accounting



Yilka Gashi VP, Operations 10-Year Tenure



Jose Meneses
VP, Financial Reporting &
Technical Accounting
9-Year Tenure



Doe highlight of my job at Vornado is being able to work closely with our Controller to assist with the annual Chairman's Letter to our shareholders. This process has given me a deeper understanding of how the CEO/Chairman views Vornado's business, the real estate industry, and the economy. The process provides deeper insight into senior managements view of the business that I otherwise would not have in my day-to-day role with the company.



Betty Sobers AVP, Cash Application 23-Year Tenure



Manuel Soto AVP, Network Operations 23-Year Tenure



Audrey Wilson
Development As
4-Year Tenure

Vornado is like a home for me; I look forward to coming to work every day. When I have needed personal time, it has been a priority of my managers. I have also been supported to grow professionally and run my department with pride. I have spent my career here growing professionally as well as in my personal relationships. • My best memory working for Vornado was a few years ago during COVID. The IT team had to come together and stand up an environment that allowed our employees to work remotely from their homes. We were able to keep everyone connected and the business running. IT was recognized as "Employee of the Year" shortly after. I felt very proud of our IT staff and myself. It was a great accomplishment for us.

▶ I have had the privilege real estate career at Vorr by industry leaders who in my success. It has bee see our hard work pay of THE PENN DISTRICT, impact New Yorkers on a proud to be a part of a co commitment to excellen

# Vornado Volunteers

**Breaking** 

**Jersey Cares** 

**Project Cicero** 

Fight for

Ground

Vornado supports volunteerism that enhances and serves the communities in which we live and work. Through employee engagement and social impact assessment, Vornado Volunteers identifies local community organizations focused on economically and socially disadvantaged populations, environmental restoration and protection, and health and wellness. Some of those efforts include:

▶ We have partnered with Breaking Ground to provide intervention and support

services for the homeless population around THE PENN DISTRICT. Michael Franco, Vornado's President and CFO, has been a Breaking Ground Director since

Breaking Ground professionals work on-site to provide those in need with access to benefits, medical care, mental health care, substance abuse support, and other

• We continue to support Jersey Cares, a nonprofit that partners with local organizations

to address community needs. This year our employees volunteered at a community food bank, packing meal kits for families in need, led a cleanup effort at Branch Brook Park,

 $\blacktriangleright$  Project Cicero is a nonprofit annual book drive to help under-resourced New York

City public schools create and enhance classroom and school libraries. We store the donated books at PENN 11 throughout the year and work the book fair with

▶ Annually, Vornado hosts the American Lung Association's Fight for Air Climb. Climbing 55 floors at PENN 1, we join our community of tenants, Vornado employees, FDNY, friends and family, and fellow New Yorkers to fight for a world free of lung disease.

and put together "giggle bags" for children admitted for long-term hospital stays.

2012 and its Chairman since June 2015.

employee volunteers.

resources to bring them onto a path toward stability.



#### Sharebite

Vornado has partnered with Sharebite, a minority-founded and -owned acts as a meal benefit platform. For each meal purchased, Sharebite don through organizations such as Feeding America and City Harvest. Since meals have been donated based on meals purchased by Vornado employ

#### 34th Street **Partnership**

▶ Vornado is an active member of the 34th Street Partnership, which is tl management company that serves as the Business Improvement District DISTRICT, whose mission is to convene business and civic stakeholders the district's public safety and promote cultural vibrance and economic v

Silva, Vornado's Chief Operating Officer, is the Partnership's current cha
Vornado also directly engages its employee base in THE PENN DI
community. Through our partnership with the New York City Police!
our employees volunteer to remove graffiti and restore storefronts the our employees volu PENN DISTRICT.

#### Charitable Contributions

- ► Vornado generously supports charities with financial contributions. Our beneficiaries Diabetes Research Instit enCourage Kids Foundat represent a broad range of worthy causes, with an emphasis on community development, education and youth services, cultural institutions, and medical research. Below is a selection of recipients of Vornado's charitable giving in 2023; • American Red Cross
- Big Brothers Big Sisters of New York City
   BOMA New York
- Citizens Budget Commission Center for Architecture

- enCourage Kids Foundat
   Greater Chicago Food De
   Northwell Health Found
- Project Lyme
   REBNY Foundation
- · Regional Plan Association
- Schools That Can
   WX Inc. (NY Women Ex
- Estate)
   Young Men's/Young Won
- Association

Air Climb New York City

## Vornado Honors



Carol Lamberg Visionary Award

**Judy Kessler** 

▶ Judy Kessler, Vornado's Development Consultant, was awarded the 2023 Carol Lamberg Visionary Award for her work with the Settlement Housing Fund in New York City.

The Settlement Housing Fund seeks to bring new and rehabilitated affordable housing to Manhattan, Brooklym, and the Bronx with amenities, programs, and services that promote strong neighborhoods and housing stability for families leaving shelters.



REBNY's Project of the Year Award

Vornado Retail

▶ New this year is the REBNY Retail Development/Project of the Year Award, which recognizes developers, architects, general contractors, and consultants who facilitated development of the most impactful and unique retail-focused development in New York City. Nominated by past chairs of the Retail Committee and voted on by the entire REBNY membership, this awards first winners are Haim Chera, Edward Hogan, Jason Morrison, and Jenniel Davis of Vornado for the transformation of the 10-year-old Farley Post Office building into Moyniban Train Hall has now become the dynamic link between the emerging PENN DISTRICT to the east and the newly constructed Hudson Yards to the west.



Commercial Observer Top Young Professionals Nathan Marcus

Nathan Marcus, Vornado's Retail Leasing Analyst, was included in Commercial Observer's annual 2023 Young Professionals list of the top commercial real estate professionals. This list honors Young Professional architecture, engineering, and construction sectors of the industry. Since joining Vornado's retail team full-time, Marcus's main focus has been PENN 1, PENN 2, and the Moynihan Train Hall.



PENN 11 Historical Building of the Year вома

PENN 11 is the historic 1,150,000 square foot, 26-floor former Equitable Life Assurance Building, which was designed by Starrett & Van Vleck and completed in 1923. The PENN DISTRICT building is LEED Gold certified and renowned for its incredibly vanited lobby and ornate ceiling. PENN 11 recently underwent a lobby ceiling refurbishment to restore it to its original splendor and installed a towering 560-square-foot, 25.6M-pisel lobby screen. The lobby features custom art and tenant designs, in addition to an exterior crown lighting element by award-winning Cline Bettridge Bernstein Lighting Design.



Commercial Observer Power PropTech 30 Robert Entin

▶ Robert Entin, Vornado's Executive VP, Chief Information Officer, was named one of the Commercial Observer Power PropTich 30 in 2023. Entin has combined his technical engineering expertise and his accounting and property management experience to create the Integrated Business System (1BS), becoming one of the acknowledged industry leaders.

# Governance

82 Introduction 84 Governance 85 Supply Chain 86 Climate-Related Strategy & Analysis 90 Materiality Assessment 92 Risk Management 94 Technology and Cybersecurity 97 Board Planning

82 Sustainability Report 2023 Sustainability Report 2023

## Governance

OUR LEADERSHIP IS COMMITTED to

evaluating and disclosing climate-related risks material to our business. We institute a top-down approach for the ongoing assessment and management of climate-related risks, which includes the execution of tasks throughout all levels and divisions of our business. Our Board receives regular updates on ESG topics from the Vornado Executive team. Our Corporate Governance and Nominating Committee oversees environmental matters, including climaterelated risks and opportunities.

The Corporate Sustainability Team helps

to set company-wide priorities and serves as the liaison to the Board on climaterelated risks and opportunities. While responsibilities are integrated throughout the company, the Chief Sustainability Officer and team oversee the management of climate risks along our properties' acquisition, development, operation, and disposition stages. Through direct interaction within various divisions, the Sustainability Team continually evaluates transitional, physical, financial, and legal risks and opportunities.



# Supply Chain

AS A COMPANY that values sustainability, it is important that we encourage our vendors to value the same standards we hold ourselves to. Vornado's purchasing policy dictates that we will only buy environmentally safe and certified products for cleaning and maintenance. It is important to Vornado that we ensure we get the materials we are looking for while also improving the communities was ready in the communities.

materials we are looking for while also improving the communities we work in.

Vornado is working with Supplier Gateway to assess and further develop our supplier discresity program. Supplier Gateway is a third-party software system that helps to identify, quantify, monitor, and increase diverse and local supplier spend. We are working with to identify the vendors used by our Operations team designated with various certifications such as MWBE or small business. We are continuing to launch campaigns to capture and highlight additional details, and expand to all of Vornado's suppliers.

Corporate Sustainability **Policies** 

Vornado has placed many of our policies on our human capital programming and policy commitments and sustainability resources on our website. These can all be found at www.vno.com/ sustainability. The following are some of the posted policies and resources:

- Environmental Sustainability Policies and Procedures
- Vendor Code of Conduct Philanthropy
- Human Capital Management
   Human Rights
- Occupational Health & Safety
   Policy and Program
   Retail Tenant Waste Best Practices
- Sustainability Tenant Organics Guidelines
- · Sustainability Tenant Best Practices

Vendor Code of Conduct

We require that our suppliers comply with Vornado's Vendor Code of Conduct. In addition to conveying our requirements on business ethics, integrity, and antibribery, we require our suppliers to comply with applicable laws and regulations. Our full Code of Conduct can be found at www.wo.com/sustainability.

# Climate-Related Strategy & Analysis\*

Task Force on Climate-Related Financial Disclosures (TCFD) Index\*\*

Sustainability Governance.....pg. 10-11 Risk Management .....pg.94-95

Metrics & Targets .....pg. 18 Vornado's Full TCFD Report can be found at https://www.vno.com/vornado-tcfd-report/2022

In February 2019, Vornado was among the first American real estate companies to become a signatory of and endorse the TCFD recommendations. Our leadership is committed to evaluating climate-related risks material to our business.

WE HAVE IDENTIFIED PHYSICAL climate risk based on the IPCC Representative Concentration Pathway (RCP) 8.5, consistent with a worst-case scenario/business-as-usual scenario and assess physical risks and opportunities over the short-(present-2029), medium- (2023–2049), and long-term horizon (2050–2100). Transition risk has been assessed based on our SBTi commitment to limit global warming by 1.5°C and local regulatory controls.

In 2023, we began using the Risk Factor tool to assess physical climate risk

scenarios of our in-service office building stock. Results include event type, risk level, timeframe, and cost, all of which are generated through scientific-based models using validated, peer-reviewed resources. Scores are based on a scale ranging from 1 to 10, where 1 is minimal and 10 extreme.

#### Vornado's office portfolio risk scenarios as evaluated by Risk F

Risk Factor	Score	Description
Heat	6	A nationwide spatial temperature model that shows a specific location's extreme heat events based on the surface temperature, topography, land humidity in the surrounding area.
Fire	1	A nationwide, fire-behavior-based wildfire model that shows a specific lo probabilistic risk of wildfire based on vegetation, topography, and likely v
Flood	3	A nationwide model that allows us to determine the potential flood risk fit streamflow, sea level rise, tide, and storm surge for any location.
Wind	5	Focused on how climate change is impacting wind risk to structures wi Changes to hurricanes' intensities and their distribution are forecast to impacts of climate change on wind risk.

#### Physical Risks and Opportunities: Scenario Analysis

#### Acute Physical Risks (Short Term)

- . Stormwater surge, flood risk in vulnerable areas.
- . Inability to transit to work due to flood or power loss.
- Localized loss of power due to severe climate-related events (e.g., hurricanes, floods, etc.).
- Degradation of air quality and public health due to ongoing dirty grid emitting potential increased temperature, SLR and precipitation.
- Chronic Physical Risks (Long Term)
- · Accelerated increases in land and ocean te could lead to increased climate-related eve extreme precipitation events, which could y cantly higher disaster responses and flood costs.
- Accelerated increases in sea level rise could increased damage from coastal urban floor
- · Fresh water scarcity.

#### Transitional Risks and Opportunities: Scenario Analysis\*

Policy and legal: Capital investment required toward energy efficiency or decarbonization to comply with local regulation, armost the Climaton.

namely the Climate

Market: Cost of energy,

market economics.

Market: Access to

renewables, and impact of

Market: Global slowdown

due to high interest rates limits new leases.

Reputation: Remote working behavior and our tenants flight to quality to encourage working in offices

Market: Manufacturing and

2030 Medium Term (2030 - 2049)

#### **Long Term** (2050-2100)

#### Risks

#### Opportunities

### Resilience: Accomplishment

### of Vision 2030 aligning our carbon footprint to a 1.5-degree climate scenario. Products and services: Market demand for

Mobilization Act (CMA). sustainable and resilient Policy and legal: Resources incurred to comply with Securities and Exchange Commission (SEC) rules regarding climatebuildings. Market: Proven market resilience through 40+ years of real estate cycles.

Resource efficiency: related disclosures. Reduced energy consumption and costs from energy efficiency measures. **Technology:** The need for efficient and health-centric innovation.

Energy source: Sourcing energy from renewable grids or on-site renewables.

Market: Expansion and outreach to our value chain.

Market: Leverage ESG-focused and sustainable financing mechanisms.

### Risks

### Policy and legal: Capital investment required toward energy efficiency or decarbonization in the cities where we do business, namely the Climate Leadership and Community Protection Act (CLCPA).

### **Technology:**Decarbonization of grid-supplied energy could lead to increased energy costs

and operating expenses. Market: Changing perceptions of office amortization requirements.

Reputation: Increased stakeholder concern or negative stakeholder dback if CMA compliance or ESG targets are not met.

#### Opportunities

### Resource efficiency: Our overall energy consumpt could decrease, yielding reduced operating cost.

#### Products and services: Carbon neutral buildings could be more competitive and could yield higher value to our business.

### Product and services/ market: Alignment of climate-related goals with existing and future tenants increasing collaboration toward decarbonization and reputation.

Market: Energy storage, on-site renewable energy, and distributed energy resource deployment could yield additional sources of revenue and attract and retain tenants.

Market: Leverage ESG-focused and sustainable financing mechanisms

#### Risks

#### Opportunities

# Policy and legal: Capital investment toward energy efficiency or decarbonization.

Policy and legal: Increased legislation limiting development.

Technology: Increased energy costs due to full transition of grid-supplied energy to renewable sources.

Market: Increased mitigation costs with long-term climate change impacts.

Resource efficiency: Improved air quality due to a cleaner grid could lead to lower HVAC operating and maintenance costs. Resilience: Mitigated

resilience: Mingated increases in temperature could lead to reduced costs to adapt our buildings to be resilient to more extreme climate scenarios.

Energy source: Renewable energy delivered from the grid will reduce sourcegenerated carbon emissions and potentially reduce exposure to climate regulation. enerated carbon emissions

Resource efficiency: Full transition of grid-supplied energy to renewable sources could lead to decreased Resilience: Increased demand and value for our product because our assets are located in dense urban areas with alternative means of transportation contributing to business continuity.

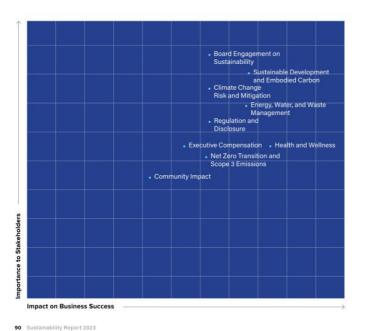
Resilience: Increased demand and value for our product because a low percentage of our assets are located in flood zones.

**Markets:** Leverage ESG-focused and sustainable financing mechanisms.

# Materiality Assessment

GRI 2-29, 3-1, 3-2, 3-3

At Vornado, sustainability and resilience are important lenses through which we view all development projects at any scale. Our strategy focuses on sustainable development inclusive of carbon neutrality, operational efficiencies, human health, minimizing resources, and climate change adaptation.



Stakeholder Group	Nature of Engagement	Frequency of Engagement	Key Topics and Concerns in 2023	2024 Plans
Our Tenants	Active relationship through our property management teams; meetings and discussions on tenant environmental performance; Climate Week and Earth Day campaigns; sustainability roundtables and on-site waste training and webinars.	Daily (property management); as- needed (inperson meetings, trainings, and engagement for climate events); quarterly (roundtable/ webinars).	Emissions Calculations: Energy, Water, and Waste Management; Local Laws; CommunityImpact; Health and Wellness.	Continue to regularly wi roundtables on-one ten- to align ESC operational
Our Investors	Conference calls to discuss corporate governance and ESG issues. Discussions include Vornado's Lead Trustee; President and Chief Financial Officer; Chief Administrative Officer; Corporation Counsel; and heads of Investor Relations, Human Resources, and Sustainability. Conducted calls with investors representing ownership of at least 40% of all outstanding shares.	Annually, or morefrequently as requested. Total investors reached represent over 40% of all Vornado's outstanding shares.	Executive Compensation; Management Succession Plan; Long-term Net Zero Transition; Embodied Carbon Targets; Climate Risk and Local Law Exposure; Human Capital Management.	Respond to topics and a including TI net-zero pla law exposur requiremen
Our Board	ESG updates to the Board by the President and Chief Financial Officer; presentation from the Chief Sustainability Officer.	Quarterly (from Chief Financial Officer); annually (from Chief Sustainability Officer).	Operational Optimization and Local Law Exposure; Financial Performance; Executive Compensation; Human Capital Management;Net Zero Transition.	Continue to progress an Board to en met.
Our Employees	Informal and frequent check-ins on environmental performance; in-person or virtual meetings: support for community involvement and volunteering; employee surveys.	Weekly (informal engagement); annually (in- person meetings).	Human Capital Management; Health & Wellness; Energy, Water, and Waste Management; Net Zero Transition; Sustainable Development.	Continue to employee-fi employee-li and continu sustainable and net zero developmen
Our Communities	Active membership and partnerships in community and government organizations focused on civic and environmental issues.	Monthly or more frequently (per meeting schedule).	Net Zero Transition; Energy, Water, and Waste Management; Community Impact, Biodiversity, Climate Change Risk, and Mitigation; Sustainable Development.	Continue to sustainabilit for PENN D and continu throughout inclusive of focused on and climate

September 19 Septe

# Risk Management

informs the risk profiles of our properties and is a component of our Enterprise Risk Management (ERM) assessment during all stages of a building cycle. Understanding climate-related risks enables us to better assess potential acquisitions through the due diligence process, impacts within our (re)development efforts, and exposure of our

operational assets.

Identifying these risks is an iterative process that annually seeks input and reassessment from leadership within each of Vornado's divisions, alignment with our Energy Management System (EMS), and is then tied to our ERM assessment. Our approach to management of materials topics is through an Internal Audit Risk Assessment ("Risk Assessment") that is updated as needed to incorporate any future changes in the risk profile of the business,

and at minimum, once annually. The first step is to conduct a Risk Workshop with the Risk Committee, using principles of double materiality, to discuss/assess the risk landscape of the business and how it relates to strategic initiatives, emerging risks, and corresponding mitigating activities, all of which are then compared against financial impact. All risks identified during the workshop identified during the workshop and survey are collated into a single risk universe document and gathered additional data points by: reviewing results from prior year internal audit reports; researching peer organizations; applying internal auditor's institutional internal auditor's institutional knowledge; considering industry hot topics; and discussing regularly in investor meetings/calls and with tenants directly and through roundtable discussions. Based on the results of the risk assessment, a proposed FYE internal audit plan

66

The Corporate Governance and Nominating Committee of Vornado's Board of Trustees is assigned with oversight of sustainability matters, which includes climate change risk.

"

significant risks.

is developed to addr

Once the Internal of risk assessment is each identified risk is high, medium, low so various risk factors, per category are iden prioritized based on scores along with the likelihood of occurre Audit Risk Assessm to the Board/Audit C the beginning of the plan is approved by t Committee and the p executed, risks are m assessments are perf

direction of the Risk The Sustainability other business units manage and monitor leveraging the interr plan, metrics and tar management and sta feedback throughout

Risk Identification		Assessment & Prioritization	Management & Monitoring
Inputs	Strategic	Dish Farture	Internal Audit Plan
Conduct risk workshop with the Risk Committee to discuss risk landscape of the business and how it relates to	Financial	Risk Factors	
strategic initiatives, emerging risks, and corresponding mitigating activities	Operational	Potential Impact	Focus Areas
	Technology	Probability of Occurence	
Business objectives, organizational goals, and strategic initiatives	Legal/Regulatory/		
External perspectives, industry trends	Compliance		

# Technology and Cybersecurity

#### CENTRALLY LOCATED IN the

heart of Manhattan, GMSC, our IT and cybersecurity team, is dedicated to providing reliable and efficient security integration solutions for business and organizations. With our expertise in access control and camera systems, we can help ensure the safety and security of your property/office space and assets.

As a New York State licensed

As a New York State licensed provider, the GMSC team is certified by many of the largest

security technology companies.
To remain at the forefront of technology, GMSC operates a Research & Development lab to identify and evaluate emerging security technologies, execute proc of concept, and test new hardware and software integrations.

### Cybersecurity

#### VORNADO IS COMMITTED to

rigorous cybersecurity standards with a comprehensive strategy to safeguard our data and computing environment. We collaborate with third-party services for continuous 24/7 network monitoring and vulnerability scans, ensuring our cybersecurity is consistently updated and prepared for emerging threats. In addition, we support and supplement our cybersecurity efforts with physical security to further protect

and maintain the network and computing equipment that allow us to operate our assets efficiently. We believe strongly in educating our employees by utilizing both online cybersecurity education and performing phishing campaigns to understand areas of additional educational need. Our distinct Internet of Things (IoT) and corporate networks enhance data and access segregation. Furthermore, our IoT network is highly segmented for additional

security and to minimize vendor access. External firms conduct audits on our networks, reinforcing our dedication to maintaining the highest level of security. Providing formal reports to both the Audit Committee and Board of Trustees, outlining our current cybersecurity program and future enhancements, assists them in overseeing the company.

#### Our Objective

Vornado's core information security goal is safeguarding information assets by actively monitoring networks, conducting tests, and implementing robust management of applications, infrastructure, and physical access.

#### Vulnerability Management

Workstations and servers undergo a rigorous patch management procedure, coupled with routine system scans for the detection and resolution of vulnerabilities. Our security measures encompass a multi-layered approach, incorporating URL filtering, advanced email security, application allowlisting, data encryption, and more.

### Disaster Recovery/Business

Continuity
We confirm the daily replication of our vital financial systems at our disaster recovery site. All employees possess secure remote capabilities, ensuring uninterrupted performance of critical tasks for the enterprise. In addition, regular drills and simulations are conducted to validate the effectiveness of our disaster recovery protocols, further fortifying our readiness to swiftly transition operations to the backup site in case of any unforeseen disruptions.

#### Security Assessments

Annually, we engage external cybersecurity experts to conduct comprehensive penetration tests and red team exercises to assess the strength of our security infrastructure. Through these initiatives, we proactively identify potential vulnerabilities and weaknesses in our systems. Any findings are promptly addressed and rectified, reinforcing our commitment to maintaining a resilient and secure environment for our operations.

#### Employee Training and Outreach

Our entire workforce undergoes cybersecurity awareness training and participates in regular email phishing simulations to assess their vigilance. Ongoing communication through newsletters serve as a consistent reminder, fostering active involvement of our employees in our cyber defense efforts.

#### Identity & Access Management

An Identity & Access Management (IAM) system scrutinizes application-level activities, detecting any potentially suspicious behavior that might evade traditional detection methods. Mandatory Multi-Factor Authentication (MFA) is enforced for all remote network access and sensitive on-network applications, enhancing the overall security posture.

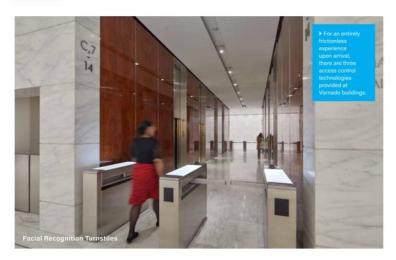
#### Incident Respon

To ensure organizat for cyber events, we crafted Cybersecuri Response Plan (CSI validation and enha the CSIRP take pla multidisciplinary ta exercises, ensuring and relevance in dy threat landscapes.

#### Third-Party Risk Management

A risk management in place for third-pa providers, suppliers, This includes a thor process and ongoing mechanisms design their compliance wit standards. Third-pa network access adhe same security proto MFA, and undergo I audits to confirm the necessity of their acc

94 Sustainability Report 2023 Sustainabil



#### **Technology**

#### Access Control

- Installation and configuration of access control systems
   Integration with existing security infrastructure
   User management and

- access level customization Facial recognition/
- biometrics

  Mobile access, including Apple Wallet integrations
  Visitor management

Additional Services:

Turnstiles installation
 Destination dispatch

integrations Intercom systems Cloud access control

- Additional Services:
  Security system design and consultation
  Training and education for staff on security systems
  Equipment only sales: access cards, fobs, cameras, printers

# **Board Planning**

GRI 2-9, 2-10, 2-12, 3-2, 405-1

#### Board and Committee Board Diversity Refreshment

#### Corporate G and Nominat Committee (

- In 2023, as part of our committee rotation process, Mr. Raymond J. McGuire was added as a member of our Compensation Committee.
   Continued focus on Board composition, refreshment, and rotation.
- 30% of the Board is comprised of female Trustees and 30% is racially/
- temaie irustees and 30% is racially/ ethnically diverse.

  Board is comprised of Trustees with diverse skill sets including operational, ESG, technology, and real estate expertise.
- The Corporate Gover Nominating Commit direct oversight to m of climate change on addition to its respon matters and oversigh political contribution. . No direct company of

to political candidate 2020-2023.

# of the state of th

	Ster	Carre	Mic	Bea	William	Des	Ray	Hale
Competency/Attribute								
Operational		•	•			•		
Public Company Experience	•	•	•	•	•	•	•	•
Industry Expertise	•		•			•	•	
Financial Literacy	•	•	•		•	•	•	•
Experience Over Several Business Cycles			•		•	•	•	
Capital Markets Expertise	•	•	•	•	•	•	•	•
Investment Management			•			•		
Risk/Crisis Management	•	•	•			•		•
Accounting Expertise			•					
Government/Business Conduct/Legal	•	•	•	•		•		•
Environmental, Social, and Governance								

### Video Surveillance

- . Installation and setup of Installation and setup of high-quality surveillance cameras
   Integration with access control systems
   Live monitoring and recording
   On premise or cloud storage options available.

- storage options available
  Partnership with NYPD for

- CCTV monitoring

  Behavioral analytics with industry leading partners

  Video management systems

  Racks and enclosures

  Panoramic cameras, low-light cameras, specialty cameras cameras



98 Introduction 100 Human Capital Management Metrics 102 Global Reporting initialive (GRI) Content Index 116 Assurance Statement — GRI Content Index 118 Sustainability Accounting Standards Board (SAS8) Index 126 Assurance Statement — SAS9 Index 128 UN Sustainabile Development Goals

98 Sustainability Report 2023 Sustainability Report 2023

# Human Capital Management Metrics

### Social Demographics: Vornado 2023

#### **Key Findings**

100 Sustainability Report 2023

Gender		Total Employees	% All Employees	Permanent	Temporary	Full-Time	Part-Time	Racial Minorities* (%)
All	Male	263	47%	248	15	262	1	30%
Employees	Female	293	53%	283	10	287	6	36%
	Male	75	13%	75	0	75	0	17%
AVP or Above	Female	44	8%	44	0	43	1	23%
Age								
	< 30 Years Old	121	22%	98	23	119	2	26%
All Employees	30-50 Years Old	251	45%	250	1	248	3	40%
	> 50 Years Old	184	33%	183	1	182	2	28%
	< 30 Years Old	0	0%	0	0	0	0	0%
AVP or Above	30-50 Years Old	71	13%	71	0	70	1	23%
	> 50 Years Old	48	8%	48	0	48	0	13%
Region								
New York		256	46%	239	17	250	6	27%
New Jersey		235	42%	227	8	234	1	42%
Chicago		61	11%	61	0	61	0	25%
San Francisco		4	1%	4	0	4	0	50%

	0-4 Years	5-9 Years	10-19 Years	20+ Years	Total
# Of Employees	231	94	132	99	556
% All Employees	42%	17%	24%	18%	100%

By Age			By Gender			By Region		
< 30 Years Old	57	60%	Male	50	53%	New York	48	51%
30-50 Years Old	26	27%	Female	45	47%	New Jersey	39	41%
> 50 Years Old	12	13%				Chicago	7	7%
						San Francisco	1	196
Total	95	100%	Total	95	100%	Total	95	100%



### Social Demographics: BMS 2023

#### **Key Findings**

Gender		Total Employees	% All Employees	Permanent	Temporary	Full-Time	Part-Time
All	Male	2311	66%	2062	249	1963	348
Employees	Female	1210	34%	1135	75	961	249
Age							
	< 30 Years Old	503	14%	379	124	384	119
All Employees	30-50 Years Old	1474	42%	1350	124	1234	240
	> 50 Years Old	1544	44%	1468	76	1306	238
Region							
New York		2285	85%	2255	30	2248	37
New Jersey		43	196	29	14	15	28
Chicago		443	13%	166	277	252	191
San Francisco		11	0%	11	0	11	0
Mid-Atlantic		726	21%	723	3	385	341
Other		13	096	13	0	13	0

	0-4 Years	5-9 Years	10-19 Years	20+ Years	Total
# of Employees	1998	755	536	232	3521
% All Employees	57%	21%	15%	7%	100%

By Age			By Gender			By Region		
< 30 Years Old	301	34%	Male	595	67%	New York	509	57%
30-50 Years Old	395	44%	Female	297	33%	New Jersey	14	2%
> 50 Years Old	196	22%				Chicago	236	26%
						San Francisco	5	196.
						Mid-Atlantic	118	13%
						Other	10	196
Total	892	100%	Total	892	100%	Total	892	100%



# Global Reporting Initiative (GRI) Content Index

#### MANAGEMENT OF VORNADO REALTY

Trust is responsible for the completeness, accuracy, and validity of the disclosures in the GRI Content Index included within the accompanying Sustainability Report of Vornado Realty Trust as of and for the year ended December 31, 2023. Management is responsible for the collection, quantification, and presentation of the disclosures and for the selection of the criteria, which management believes provide an objective basis for measuring and reporting on the disclosures. Measurement of certain disclosures may include estimates and assumptions that are subject to substantial inherent measurement uncertainty, including, for example, the accuracy and precision of GHG conversion factors, or estimation methodologies used by management.

The selection by management of a

The selection by management of a different but acceptable measurement method, input data, or model assumptions, or a different point value within the range of reasonable values produced by the model, may have resulted in materially different disclosures being reported. Management asserts that the disclosures in the GRI Content Index included within the accompanying Sustainability Report of Vornado Realty Trust as of and for the year ended December 31, 2023 are presented in accordance with the GRI Sustainability Reporting Standards.

GRI Content Index	Response
Statement of Use	Vornado Realty Trust has reported the information cited in this GRI content index for the period Ja December 2023 with reference to the GRI Standards.
GRI 1 used	GRI 1: Foundation 2021

#### GRI 2: General Disclosures

Disclosure	Description	Response
The organization as	nd its reporting practices	
	Organizational details	Vornado Realty Trust
2-1		Fully-integrated REIT and conducts its business through, and substant in properties are held by, the Operating Partnership, a Delaware limite Accordingly, Vornado's cash flow and ability to pay dividends to its shudependent upon the cash flow of the Operating Partnership and the ai indirect subsidiaries to first satisfy their obligations to creditors. Vorna partner of and owned approximately 91% of the common limited partn Operating Partnership as of December 31, 2023.
		888 Seventh Avenue, New York, NY
		United States of America
Entities included in the organization's sustainability reporting		The entities included in this Sustainability 2023 report include Vornadd BMS; Alexander's, Inc. Vornado's Sustainability reporting includes all cand unconsolidated joint ventures with over 2004 Vornado ownerships. Buildings not included are those where 90% or more of the building's usuare footage is under development, as of 12/31/2023.
2-3	Reporting period, frequency, and contact point	January 1, 2023 - December 31, 2023, is for both the Sustainability 202 financial reporting.  Annual April 9, 2024 Steven Borenstein, SVP & Corporation Counsel, sborenstein@vno.com
2-4	Restatements of information	No Restatements.
2-5	External assurance	Our Board is committed to sound governance practices designed to printerests of shareholders and to strengthen Board and management as Board and the Corporate Sustainability Team, which includes the Lead are the highest positions that seek external assurance for the organizat report. The Audit Committee authorizes the external assurance engage and contributes to the messaging of the report, and reviews the Sustair issuance. The Independent Accountants' Review Report can be found or report, available online at www.nn.com.

#### GRI 2: General Disclosures

Disclosure Description		Response		
Activities and work	ers			
2-6	Activities, value chain, and	Our primary property types are office and retail with geographic locations in New York, Chicago, and San Francisco. Also see Tenant Engagement pp. 64-67.		
	other business relationships	We currently own all or portions of: New York; 20.4 million square feet of Manhattan office in 30 properties; 2.4 million square feet of Manhattan street retail space in 50 properties; 10.62 units in 5 residential properties; multiple development sites, including 330 Park Avenue, Sunset Pier 34 Studios, and the Hotel Pennsylvania site; a 32.4% interest in Alexander's, Inc. ("Alexander's") (NYSE ALX), which owns five properties in the greater New York metropolitian area, including 731 Lexington Avenue, the 11 million square foot Bloomberg, L.P. headquarters building, and The Alexander, a 312-unit apartment tower in Queens; sipage throughout THE PENN DISTRICT and Times Square. Other real estate and investments: the 3.7 million square foot THE MART in Chicago; A 70% controlling interest in 555 California Street, a three-building office complex in San Francisco's financial district aggregating 1.8 million square feet; and other real estate and investments.		
		30+ office properties in New York, Chicago, and San Francisco; 50+ retail properties in New York and surrounding regions and Annapolis, Maryland, 1,862 residential apartments in New York City, \$1.811 billion total revenues.  Sustainability Governance pp. 10-11 of this report.		
		Vornado engages BMS LLC as a supplier of janitorial supplies and equipment for our properties, Suppl Chain pp. 85, and Occupational Health & Safety pp. 70-71.		
		No significant changes to the organization's sector, the entire value chain, and other relevant business relationships.		
Employees		In 2023, Vornado in conjunction with BMS employed 4,077 employees, 556 of which are employed by Vornado, and 3,521 of which are employed by BMS. Vornado employees are responsible for operations, management, development, cash flow and ownership of its real estate assets and fluciary duty to its stakeholders. Vornado does not employ non-guaranteed hours employees. There are no significant variations in the number of employees during the reporting period or between reporting periods. Vornado uses full-time employees (PET) methodology to track its employee counts and tracks all employees during the GRI reporting period. Human Capital Management Metrics pp. 100-101.		
Workers who are not employees		The significant portion of Vornado's activities are performed by workers employed by Vornado. Vornado and BMS hired approximately 22 and 3 interns in 2023, respectively. Vornado considers BMS workers who are not employees and whose work is controlled by the organization, the number of workers is approximately 3,521 in 2023. There are not any significant fluctuations in the number of workers during or between work periods. The information included in this Sustainability report has been supplied and created by Vornado's & BMS's Human Resources departments, respectively. Vornado uses FTE methodology to track its worker counts for anyone who worked at any point during the year. Occupational Health & Safety pp. 100-101.		

#### GRI 2: General Disclosures

Disclosure	Description	Response	
Governance			
2-9	Governance structure and composition	Sustainability Governance pp. 10-11, Governance p. 84, and Board Planning p. 97	
2-10	Nomination and selection of the highest governance body	Our Board believes that the Board should be comprised of members who encomp of skills, experises, industry knowledge, and diversity of opinion, experience, perspetievant to our business.  Our Board is deeply involved in the business and strategy of our Company, and the experience and insight that our Board members bring to meetings continues to be Corporate Governance and Nominating Committee and the Board believe that or candidate involves various objective and subjective assessments, many of which quantify or categorize. However, the Corporate Governance and Nominating Cothe Board do consider various characteristics, competencies, and attributes who candidates for inclusion on our Board.  Sustainability Governance, pp. 10-11, Governance p. 84, and Board Planning p. 8 See pp. 13-22 of 2023 Proxy issued April 7, 2023.  https://materials.proxyvote.com/Approxed/92042/20230320/NPS8632762/INDI	
2-11	Chair of the highest governance body	Mr. Roth has been the Chairman of our Board of Trustees since May 1989 and Cha Executive Committee of the Board since April 1980. From May 1989 unit May 2009 our Chief Executive Officer. Gince April 15, 2013, Mr. Roth has again been serving 1998, he has been a general partner of Interstate Properties (an owner of shopping in securities and partnerships. Timerstate*) and he currently serves as its Managin He is the Chairman of the Board of Directors and Chief Executive Officer of our aff Inc. Since January 15, 2015, Mr. Roth has been a member of the Board of Trustees Properties (a New York Stock Exchange-listed real estate investment rust that we holds the Company's former shopping center business, "Urban Edge"). Mr. Roth re Edge board effective as of its 2023 annual meeting. From July 18, 2017 until May 15 the Chairman of the Board of Trustees of JBG SMITH Properties (a New York Stock estate and the Supri-off Successor to our former Washington SMITH*). Each of these other Boards upon which Mr. Roth serves is either a curree Company or a company spun-off from Vornado. Our Board believes the presence of these Boards is beneficial to the Company and/or the broady overlapping share Company, Urban Edge, and Alexander's.  Also, refer to GRI 12-15 regarding Conflicts of Interest.  See p. 5 of 2023 Proxy issued April 7, 2023.	

#### GRI 2: General Disclosures

Disclosure	Description	Response
Governance (contin	nued)	
Role of the highest governance body in overseeing the management of impacts		While day-to-day risk management is primarily the responsibility of the Company's senior management team, the Board is responsible for the overall supervision of the Company's risk management activities. The Board's oversight of the material risks faced by our Company occurs at both the full Board level and at the Committee level. The Board's voie in the Company's risk oversight process includes receiving reports from members of senior management on areas of material risks to the Company, including operational, financial, legal and regulatory, strategic, reputational, cybersecurity, sustainability, and climate change risks. The full Board (or the appropriate committee in the case of risks that are under the purview of a particular committee) receives these reports from the appropriate 'risk owner' within our organization or in connection with other management prepared presentations of risk to enable the Board (or Committee, as applicable) to understand our risk identification, risk management, and risk mitigation strategies. By 'risk owner,' we mean that person or group of persons who is or are primarily responsible for overseing a particular risk. As part of its charter, the Audit Committee discusses our guidelines and policies with respect to which our management assesses and manages the Company's exposure to risk and reports to the full Board its conclusions as a partial basis for further discussion by the full Board. This enables the Board and the applicable Committees to coordinate the risk oversight role, particularly with respect to risk interrelationships. In addition to the Board's review of risks applicable to the Company generally, the Board conducts regular strategic and personnel reviews.  Sustainability Governance pp. 10-11, Governance pp. 84, and Board Planning pp. 97 of this report.
2-13	Delegation of responsibility for managing impacts	Responsibilities of managing the organization's impacts on the economy are appointed to the Corporate Sustainability team, including the Lead Trustee, President & CFO, the Chief Administrative Officer, Corporation Coursel, SVP of Human Resources, and Chief Sustainability Officer, Those executives meet on a regular basis for sustainability strategy implementation and report back to the Board on a quarterly frequency and to investors on an annual frequency. Sustainability Governance pp. 14 of this report.
2-14	Role of the highest governance body in sustainability reporting	Board of Trustees - Corporate Governance and Nominating Committee is the highest position in the governance structure. The Lead Trustee is part of the Corporate Sustainability Team, which is responsible for infliating, reviewing, and approxing the reported information, including the organization's material topics. Sustainability Governance pp. 10-11 and Governance pp. 84 of this report. See p. 18 of 2023 Proxy Statement issued April 7, 2023.  https://materials.proxycote.com/Approxed/929042/20230320/NPS_532762/NDEK.HTML?page=33
2-15	Conflicts of Interest	Conflicts of interest should, wherever possible, be avoided. However, the Company recognizes that its corporate structure and business investments do not make it practicable or desirable to avoid all relationships that could give rise to conflicts of interest. Accordingly, conflicts of interest potential conflicts or interest, or relationships which are identified as giving rise to potential conflicts of interest that are approved by, or at the direction of, the Board of Trustees or the Corporate Governance and Norminating Committee or that have been previously disclosed in the Trust's Annual Report on Form 10-4 are permitted. Any material transaction or relationship that could reasonably be expected to give rise to a conflict of interest should be discussed with the appropriate Code of Ethics Contact Person in four previously approved by, or at the direction of, the Board of Trustees or the Corporate Governance and Norminating Committee or previously disclosed in Vorticable Realty Trust's Annual Report or Form 10-4.  See Vornado's weboite, <a href="https://www.norm.orm/governance/conduct-and-ethics">https://www.norm.orm/governance/conduct-and-ethics</a>

#### GRI 2: General Disclosures

Disclosure	Description	Response		
Governance (conti	nued)			
2-19	Remuneration Policies	See p. 29-71 of 2023 Proxy Statement issued April 7, 2023. See https://materials. Approved/929042/20230320/NPS9532762/INDEX.HTML?page=43		
Strategy, policies a	and practices			
2-22 Statement on sustainable development		From Our Chairman, pp. 6 of this Report		
Policy commitments		Policy commitments are approved at the board level and are implemented by the VNo VNO Corporate Sustainability ream. Policies are found on VN within this Sustainability report. Our Code of Business Conduct and Ethics promotes in conduct, including fair dealing and the ethical handling of conflicts of interest promote timely, and understandable disclosure promotes compliance with applicable laws and and regulationic; ensures the protection of the Tusik's legislimate business interests, including continuous control of the Tusik's legislimate business interests, including and regulationic; ensures the protection of the Tusik's legislimate business interests, including and ethics. While Vernado has not formally adopted the Precautionary Principle, we apply a preca our operational planning or when introducing new products to our buildings. GHG emploituants are among many of the environmental risks that we seek to avoid and mitiga Our policies regarding Vornado's Vendor Code of Conduct, Vendor Integrity Program, and Fichain Program policy documentation. Supply Chain, p. 85 & Climate-Related Strategy https://booksyno.com/books/azso//pp=5		
Embedding policy commitments  2-24		Sustainability strategy implementation within respective areas of focus. Daily discussic collaboration on specific projects as well as ongoing operations and maintenance. Intel Sustainability strategy across entire spectrum of business units and stakeholder group communication with respective heads of management.  Our policies regarding Vorrando's commitment to Human Rights can be found in fur Vorrando's Vendor' Code of Conduct, Vendor Integrity Program, and Responsible Su Program policy documentation. Also see https://www.noc.com/sustainability/overv Vorrando policies. Goals & Progress pp. 18-23, Environmental Results 2023 pp. 24-2 and Ratings pp. 36-38, Energy Efficiency Programs pp. 44-46, Energy Progress pp. Development pp. 56-55, Climate-Related Strategy & Analysis pp. 86-89, Path to 25 88-99, Water Management pp. 64-07, Community 72-73, Vorrando Volunteers pp. 78-79, Partnerships & Participation p. 69, Vornado H Sustainability Governance pp. 10-10, Governance pp. 10-10, Governance pp. 69-81, Risk Menagement pp. 82-93 Cybersecurity pp. 94-96, and Supply Chain p. 85.		
Processes to remediate negative impacts		Vornado offers a number of trainings through third-party service providers that e on the appropriate steps to report grievances. Incidents are tracked by Human Ri- followed up on. Human Capital Management pp. 74-75 and in the Employee Hand		

#### GRI 2: General Disclosures

Disclosure	Description	Response	
Strategy, policies,	and practices		
2-27	Compliance with laws and regulations	No significant instances of noncompliance. We consider 'significant instances of non- compliance with laws and regulation' as those listed in Vornado Form 10-K for the fiscal year ended December 31, 2023, "Note 21: Commitments and Contingencies" on pp. 114-115	
2-28	Membership associations	Our Partnerships & Participation pp. 69 of this report.	
Stakeholder Engag	ement		
2-29	Approach to stakeholder engagement	The Corporate Stakeholder Engagement strategy is applied consistently across all operations. We have a robust and ongoing shareholder engagement program and demonstrated responsiveness to feedback. We review our Sustainability Materiality Assessment each year with our stakeholders in preparation of our overall Sustainability strategy and the annual Sustainability report, reconfirming and expanding our topics of materiality. Stakeholders were identified and selected through our materiality assessment & stakeholder engagement efforts that were formed back in 2017, aligning stakeholders wit key Sustainability topics of concern and an approach to act on and address these topics. We renew this process each year with our stakeholders, reconfirming and expanding our topics of materiality. This engagement was considered and incorporated into the 2023 report as appropriate.  Tenant Engagement pp. 64-67 & Materiality Assessment pp. 90-91.	
Collective bargaining agreements		83% of employees are covered by collective bargaining agreements. For employees not covered by collective bargaining agreements, the working conditions and terms of employment of these employees are not influenced or determined based on other collective bargaining agreements.	

#### GRI 3: Material Topics

Disclosure	Description	Response
3-1	Process to determine material topics	Our material topics are identified through a robust Governance structs and annual risk assessment, including identification, prioritization, more engagement discussions with stakeholders.  Vornado conducts a risk workshop and market research effort as aparl identify material topics, described in our EMS process and in our Risk of this report. Our analysis includes, among other things:  Evaluation of Sustainability frameworks and standards, ratings and assessments, in addition to general and industry specific external re  Interviewing members of the Executive Team, who have direct responsal Company strategy.  Gathering feedback from stakeholders, including but not limited to regulators, utilities, community boards, industry-relevant trade organ We evaluated a list of topics from the GRI framework and examined the depth, including areas with actual and potential, negative and positive in broader sustainability trends. Each issue's relative importance was evaluassessment of feedback and was considered in determining material to indicator 3-2.  Sustainability Governance pp. 10-11, Risk Management pp. 92-93, and Assessment pp. 90-91 of this report. Pages 21-22 of the 2023 Proxy iss

#### GRI 3: Material Topics

Disclosure	Description		Response
	List of material topics	Human Capital Manageme Succession Plan; Executive Community Impact. Chang and Working from Home In Diversity, Equity & Inclusio Carbon Footprint Reporting	tainability; Energy, Water, and Waste Management; Climate Change Risk and Mitigation, ntr. Regulation & Disclosure: Net Zero Transition and Scope 3 Emissions; Management (Compensation, Health and Wellenses; Sustainable Development and Embodied Carbon, see to material key topics include; (I) removing of Board Structure, tenure and refreshmen panet; (2) Changing Board Engagement on ESG to Board Engagement on Sustainability, on now being included in Human Capital Management topic; Carbon Emission and grow being included in Regulation & Disclosure topic; Local Communities now being Impact topic. All topics are found on Materiality Assessment pp. 90-91.
		Material Topics	Ref # (s)
		Energy, Water, and Waste Management	Goals & Progress pp. 18-23, Environmental Results 2023 pp. 24-29, Certifications and Ratings pp. 36-38, Energy Progress pp. 47-49, Path to Zero Waste pp. 58-59, Water pp. 60-61
		Climate Change Risk and Mitigation	Climate-Related Strategy & Analysis pp. 86-89, Supply Chain pp. 85
		Net Zero Transition and Scope 3 Emissions	Climate-Related Strategy & Analysis pp. 86-89, Supply Chain p. 85
3-2		Regulation and Disclosure	Sustainability Governance p. 10-11, Goals & Progress p. 18-23, Environmental Results 2023 pp. 24-29, Energy Efficiency Programs pp. 44-46, SASB IF-RE-450a.2 Discussion of Climate Change Adaptation pp. 124-125
		Board Engagement on Sustainability	Sustainability Governance pp. 10-11, Governance p. 84, Materiality Assessment pp. 90- 91, Risk Management pp. 92-93, Board Planning p. 97
		Management Succession Plan	See p. 14 of 2023 Proxy issued April 7, 2023.
		Executive Compensation	See pp. 29-71 of 2023 Proxy issued April 7, 2023.
		Health and Wellness	Health & Wellness p. 68, Occupational Health & Safety pp. 70-71
		Human Capital Management	Human Capital Management pp. 74-75, Human Capital Management Metrics pp. 100- 101, Vornado Honors pp. 80-81
		Sustainable Development and Embodied Carbon	Sustainable Development pp. 50-55, Climate-Related Strategy & Analysis pp. 86-89
		Community Impact	Tenant Engagement pp. 64-67, Community Development pp. 72-73, Vornado Volunteers pp. 78-79, Partnerships & Participation pp. 69

#### GRI 3: Material Topics

Disclosure	Description	Response
Disclosure	Description  Management of material topics	Our approach to management of materials topics is cyclical and begins with feedback from our stake our commitment and policies, implementation is established throughout the organization, results are commitment and policies, implementation is established throughout the organization, results are commitment and policies, implementation is established throughout the organization, results are commitment and policies, and policy an
		Societal Benefits of Business Activities:  Vornado supports volunteerism and local community organizations through charitable contributions and serve the communities in which we live and work. Through employee engagement and social in Vornado Volunteers identifiels cola community organizations focused on economically and socially oppulations, environmental restoration and protection, and health and wellness. See Health & Welln Occupational Health & Safety pp. 70-71, Community Development pp. 72-73, Vornado Volunteers pp. 85.  Sustainable Stakeholder Solutions:  We offer our tenants solutions to support minimizing environmental impacts associated with their su includes, but is not limited to, introduction and support of EPA-backed ENERGY STAP programs, suit includes, but is not limited to, introduction and support of EPA-backed ENERGY STAP programs, suit includes, but is not limited to, introduction and support of EPA-backed ENERGY STAP programs, suit includes, but is not limited to, introduction and support of EPA-backed ENERGY STAP programs, suit includes, but is not limited to, introduction and support of EPA-backed ENERGY STAP programs, suit includes, but is not limited to, introduction and support of EPA-backed ENERGY STAP programs, suit includes, but is not limited to, introduction and support of EPA-backed ENERGY STAP programs, suit includes, but is not limited to, introduction and support of EPA-backed ENERGY STAP programs, suit includes, but is not limited to, introduction and support of EPA-backed STAP programs, suit includes, but is not limited to, introduction and support of EPA-backed entered to the support of EPA-backed ENERGY STAP programs, suit includes, but is not limited to the support of EPA-backed ENERGY STAP programs, suit includes, but is not limited to the support of EPA-backed ENERGY STAP programs, suit includes, but is not limited to the support of EPA-backed ENERGY STAP programs, suit includes, but is not limited to the support of EPA-backed ENERGY STAP programs, suit includes, suit inc

### GRI 200-400: Topic-Specific Disclosures

GRI Topics	Disclosure	Description	Cross-Reference or Answer
Economic			Response
GRI 201: Economic Performance 2016	201-2 Financial implications and other risks and opportunities due to climatic hange		Vornado has begun to assess the financial implications and the other risks and opportunities due to climate change and intends to report this in the future. Vornado's approach is stated in Climate-Related Strategy & Analysis pp. 86-89 of this report. Tenante Engagement pp. 64-67 and SASB Disclosure on Climate Change Adaptation, pp. 124-125 of this report, and in the separate TCFD report found on pages 8-12 at https://www.vno.com/vornado-tcfd-report/202
Environmental			
GRI 302: Energy 2016	302-1	Energy consumption within the organization	Energy Consumption (MWh) p. 29 of this report. We utilized the Thermal Energy Conversion factors from ENERGY STAR Portfolio Manager Technical Reference Guide published by EPA. Our energy is converted to GI using generic conversion factors. Our total energy reported within the organization is 36,947 GI of childle water, 584,672 GI of district steam, 111,1462 GI of electricity, and 592,672 GI of thes. The total energy within the organization is 2,327,733 GI. The majority of Vornado's heating consumption is from district steam sources, which are reported on p. 29. Vornado does not sell electricity, heating, cooling, or steam. All fuel consumption reported is non-renewable.
	302-2	Energy consumption outside of the organization	Energy Consumption (MWh) pp. 29 of this report. We utilized the Thermal Energy Conversion factors from ENERGY STAR Portfolio Manager Technical Reference Guide published by EPA. Total energy outside the organization is 485,133 GJ.
	302-3	Building energy intensity	Intensity Measures pp. 26 of this report. Our denominator is the square footage as outlined in the boundaries found in the endnotes of this index. Building energy intensity reported include all energy reported in 30:24 a 50:22-reported amounts. We utilized the leastest available emission factors for each energy type and Global Warming Potential factors from the Sixth Assessment Report (StAff) published by Intergovernmental Panel on Climate Change and EPA Exercise Protitio Manager GHG Technical Reference to calculate our GHG inventory. No significant recalculations occurred. Consolidation approach as defined in the reporting boundary endnotes in this index Isligenic emissions of CO2 that occur in the life cycle of biomass other than from combustion or biodegradation are not applicable.
GRI 303: Water 2018	303-1	Interactions with water as a shared resource	Water Withdrawal pp. 27 of this report. All water listed is municipal water supply. No other sources of consumed water are of material quantities. Water converted from source unit of measure to cubic meters. Occupational Health & Safety pp. 70-71; Water pp. 60-61 of this report.
	303-3	Water withdrawal	Water Withdrawal pp. 27, SASB Disclosure on Water pp. 60-61 of this report. All water listed is municipal water supply converted from source unit of measure to cubic meters or 2,180.10 megaliters. No other sources of consumed water are of material quantities. Water listed is municipal and is converted fresh water. Our baseline water stress is 305.60 megaliters. Data regarding third-party water sources for water stress areas is not available.

### GRI 200-400: Topic-Specific Disclosures

GRI Topics	Disclosure	Description	Cross-Reference or Answer
Environmental			Response
	305-1	Scope 1 GHG emissions	Greenhouse gas (GHG) emissions inventory p. 25 of this report. Gases inclu CH4, and N2O. We utilized the latest available emission factors for each en Global Warming potential factors from the Sitch Assessment Report (SAR) Intergovernmental Panel on Climate Change and EPA ENERGY STAR Port Tachnical Reference to calculate our GHG inventory. No significant recalcul Consolidation approach as defined in the reporting boundary endnotes in it emission Scopes have base years of 2019, which is aligned with our SBTC our Vision 2030 Carbon Neutrality plan. Biogenic emissions of CO2 that ocu our Vision 2030 Carbon Neutrality plan. Biogenic emissions of CO2 that ocu biomass other than from combustion or biodegradation are not applicable.
GRI 305: Emissions 2016	305-2	Scope 2 GHG emissions	Greenhouse gas (GHG) emissions inventory p. 25 of this report. Gases inc CH4, and N2O. We utilized the latest available emission factors for each effoliable Warming Potential factors for the Skth Assessment Report (SAR Intergovernmental Panel on Climate Change and the eGRID 2022 to calcular inventory. Market-based Scope 2 emissions are calculated per the GHG Pherarchy, applying purchased and retired Renewable Energy Certificates applying 2023 Green-eresidual mix emissions rates (based on 2022 eGRI emaining MWh not covered by RECs. No significant recalculations occur approach as defined in the reporting boundary endoctes in this index. All Scopes have base years of 2019, which is aligned with our SBTi committen Vision 2030 Carbon Neutrality plan.
	305-3	Scope 3 GHG emissions	Greenhouse gas (GHG) emissions inventory, p. 25 of this report. Gases incl. CH4, and N2O. We utilized the latest available emission factors for each ene flobabl Warming Potential factors from the Sitch Assessment Report Cally Intergovernmental Panel on Climate Change, EPA ENERGY STAR Portfolio Technical Reference guide, and the eARID 2021 to calculate our GHG invenciouslations occurred. Consolidation approach as defined in the reporting in this index. All GHG emission Scopes have base years of 2019, which is alia 2030 Carbon Neutrality plane. Biogenic emissions of CO2 that occur in the lift other than from combustion or biodegradation are not applicable.
	305-4	GHG emissions intensity	Intensity Measures p. 26 and SBTi/GHG Emissions pp.49 of this report. Or includes Scope 1, 2, & 3 emissions, and our denominator is the square foo the boundaries found in the endnotes of this index.

#### GRI 200-400: Topic-Specific Disclosures

GRI Topics	Disclosure	Description	Cross-Reference or Answer	
Environmental			Response	
306-1 GRI 306: Effluents and Waste 2020		Waste generation and significant waste-related impacts	Reported amounts represent waste impact within the organization, its activities and its tenants activities. Waste disposal method has been directly confirmed by the organization through annual on-site visits to the off-site facilities. Information is provided by waste disposa contractor on a monthly basis. Path to Zero Waste pp. 58-59 Tenant Engagement pp. 64-67 Occupational Health & Safety pp. 70-71	
	306-2	Waste by type and disposal method	Waste disposal method and waste management practices have been directly confirmed by the organization through annual on-site visits to the off-site facilities. Information is provided by waste disposal contractor on a monthly basis. The only diversion methods applicable to	
	306-3	Waste generated	our operations are donations, recycling, and composting. We track C&D waste and amounts fluctuate significantly, therefore, we report it separately. C&D for FY23 was 5,584 metric tons, of which 5,100 tons were recycled and 484 tons were landfilled. All C&D waste was	
	306-4	Waste diverted from disposal	nonhazardous. In 2023, we generated 12,207 metric tons of waste, 6,419 metric tons were diverted from disposal, and 5,788 metric tons were directed to disposal. No disposal of hazardous waste outside of diversion methods.	
	306-5	Waste directed to disposal	Nonhazardous Waste 2023 pp. 27; Path to Zero Waste pp. 58-59, Supply Chain pp. 85 of this repor	
Social			Response	
	401-1	New employee hires and employee turnover	Human Capital Management Metrics pp. 100-101 of this report.	
GRI 401: Employment 2016	401-2	Full-time benefits not provided to temporary/ part-time employees	These benefits are provided to employees across all property subsectors of operation, including New York, NY, Chicago, It.; San Francisco, CA; and other regions Vornado operates in. Benefits is acid are available to all full-time employees, and certain benefits are extended to part-time and temporary employees. Human Capital Management pp. 74-75:  - Medical and prescription plan at low employee cost  - Dental plan at no employee cost  - Tax deferred 40/10/ plan  - Flexible spending accounts for medical and dependent care  - Life insurance at two times an employee's annual compensation and at no employee cost  - Paid time off for vacations, holidays, and personal days  - Employee Assistance Program  - Tutton reimbursement and professional reimbursement development plan	
GRI 404: Training and Education 2016	404-1	Average hours of training per year per employee	Occupational Health & Safety pp. 70-71 of this report. Every employee undergoes mandatory compliance training, however, training hours are not currently tracked to report on average hou of training por employee reported by gender and by employee category (level), respectively.	

#### GRI 200-400: Topic-Specific Disclosures

GRI Topics	Disclosure	Description	Cross-Reference or Answer
Social			Response
GRI 405: Diversity and Equal Opportunity 2016	405-1	Diversity of governance bodies and employees	Human Capital Management Metrics pp. 100-101, Board Planning p. 97 of As of December 31, 2023, our Board consisted of 30% women, 0% under a ages 30 and 50, and 100% over 50 years old, and was composed of 30% n
GRI 413: Local Communities 2016	413-1	Operations with local community engagement, impact assessments, and development programs.	Our locations of operations are defined in GRI 2-6, and include New York: C Francisco, and Annapolis, Maryland. We have implemented local communi impact assessments or development programs across 98% of our total ope this percentage by identifying regional locations that participate in communications total and apply as the numerator, and divide by our total portfolio's year and December 31, 2023.  Occupational Health & Safety pp. 70-71 and Vornado Volunteers pp. 78-71.
416-1 GRI 416: Customer Health and Safety 2016		Assessment of the health and safety impacts of and service and service categories	Occupational Health & Safety pp. 70-71 of this report. We consider our properties and maintenance of the buildings to be our stockstomers. The products purchased to maintain and clean the properties Building Maintenance Service (BMS) in NY, NJ, IL, and Metro Services Building Maintenance Service (BMS) in NY, NJ, IL, and Metro Services reviews monthly support and identifies areas of improvement to address health and safety across a Therefore, 100% of the products purchased by our jaintorial service provimonthly for health and safety impacts, 75% of the annual purchasing adh party certifications for jaintorial supplies, while the remaining 25% is evail replacement and improvement when feasible. The applicable third-party follows: ECOLOGG, Green Seal, EPA Safer Choice Standard, USDA Certifications for jaintorial supplies, which was the programment of the prog

Reporting boundaries: Intensities were calculated by dividing the energy consumption, water consumption, and GHG emissions from the properties owned by 3, 2023 by the total square biologie of that same list of properties.

Energy and Water: A controlled extensities, and unconsolidated print ventures with over 20% Vornado contensitie, as of 12/31/2023. Buildings not include 50% for more of the buildings officer or residential square followings. The contensities of 12/31/2023. A special venture was a contensitied to the buildings officer or residential square followings. The contensities of 12/31/2023. A special venture was a setting and water were estimated by supplying the same more properties have buildings of the party communities of the properties have buildings of the properties was a setting and the properties was an applicated from the properties was a properties where waste hauling is not directly managed by W states retail and residential properties. Construction & Demolston waste is excluded from the reporting burndary as it is considered experting continuancy and properties was a supplication of the propertie

## Deloitte.

Independent Accountant's Report Board of Trustees Vornado Realty Trust Deloitte & Touche LLP 30 Rockefeller Plaza 41st Floor New York, NY10012 USA

Tel: +1 212 492 4000 Fax:+1 212 489 1687 www.deloitte.com

#### WE HAVE REVIEWED MANAGEMENT

of Vornado Realty Trust's (the "Company") assertion that the disclosures in the Global Reporting Initiative (GRI) Content Index included within the accompanying Sustainability Report of Vornado Realty Trust as of and for the year ended December 31, 2023 (the "Sustainability Report") are presented in accordance with the Global Reporting Initiative Sustainability Reporting Standards (the "GRI Standards"). The Company's management is responsible for its assertion. Our responsibility is to express a conclusion on the disclosures in the GRI Content Index based on our review.

Our review was conducted in accordance with attestation standards established by the American Institute of Certified Public Accountants. Those standards require that we plan and perform the review to obtain limited assurance about whether any material modifications should be made to the disclosures in the GRI Content Index in order for it to be presented in accordance with the criteria. The procedures performed in a review vary in nature and timing from, and are substantially less in extent than, an examination, the objective of which is to obtain reasonable assurance about whether the disclosures in the GRI Content Index are presented in accordance with the criteria, in

all material respects, in order to express an opinion. Accordingly, we do not express such an opinion. Because of the limited nature of the engagement, the level of assurance obtained in a review is substantially lower than the assurance that would have been obtained had an examination been performed. We believe that the review evidence obtained is sufficient and appropriate to provide a reasonable basis for our conclusion.

We are required to be independent and to meet our other ethical responsibilities in accordance with relevant ethical requirements related to the engagement.

The procedures we performed were based on our professional judgment. In performing our review, we performed analytical procedures, inquiries, and other procedures as we considered necessary in the circumstances. For a selection of the disclosures in the GRI Content Index, we performed tests of mathematical accuracy of computations, compared the disclosures to underlying records, or observed the data collection process.

The preparation of the disclosures in the GRI Content Index included within the accompanying Sustainability Report requires management to interpret the criteria, make determinations as to the relevancy of information to be included, and make estimates and assumptions that affect reported information. Measurement of certain disclosures may include estimates and assumptions that are subject to substantial inherent measurement uncertainty, including, for example, the accuracy and precision of GHG conversion factors, or estimation methodologies used by management. Obtaining sufficient, appropriate review evidence to support our conclusion does not reduce the inherent uncertainty in the disclosures. The selection by management of a different but acceptable measurement method, input data, or model assumptions, or a different point value within the range of reasonable values produced by the model, may have resulted in materially different disclosures being reported.

Our review was limited to the disclosures in the GRI Content Index as of and for the year ended December 31, 2023. All other information presented within the Sustainability Report, including information relating to forward looking statements, targets, goals, progress against goals, linked information, and denoted by an asterisk (\*) of the Sustainability Report was not

subject to our review and, accordingly, we do not express a conclusion or any form of assurance on such information.

Based on our review, we are not aware of any material modifications that should be made to the disclosures in the GRI Content Index in order for it to be presented in accordance with the GRI Standards.

Deloitte & Touche UP

APRIL 9, 2024

# Sustainability Accounting Standards Board (SASB) Index

#### MANAGEMENT OF VORNADO Realty

Trust is responsible for the completeness, accuracy, and validity of the metrics in the SASB Index included within the accompanying Sustainability Report of Vornado Realty Trust as of and for the year ended December 31, 2023. Management is responsible for the collection, quantification, and presentation of the metrics and for the selection of the criteria, which management believes provide an objective basis for measuring and reporting on the metrics. Measurement of certain metrics may include estimates and assumptions that are subject to substantial inherent measurement uncertainty, including, for example, the accuracy and precision of conversion factors or estimation methodologies used by management. The selection by management of a different but acceptable measurement method, input data, or model assumptions, or a different point value within the range of reasonable values produced by the model, may have resulted in materially different metrics being reported. Management asserts that the metrics in the SASB Index included within the accompanying

Sustainability Report of Vornado Realty Trust as of and for the year ended December 31, 2023 are presented in accordance with the Sustainability Accounting Standards Board (SASB) Real Estate Sustainability Accounting Standard.

Number of assets includes the number of distinct building assets. In the SASB disclosures, each asset is counted as a single asset, even in cases where portions of an asset are classified into separate subsectors that are aligned with the FTSE NAREIT Classification Structure. The SASB disclosure instead categorizes assets into the four categories of "New York," "THE MART," "555 California," and "Other," which aligns with the entity's financial reporting. All disclosures are representative of the Whole building approach defined on page 121.

#### **Activity Metrics**

Code	Activity Metric	Total	New York	THE MART	555 California	Other
IF-RE-000.A	Number of assets, by property subsector	75	62	3	3	7
IF-RE-000.B	Leasable floor area, by property subsector	33,604,000	26,465,000	3,688,000	1,819,000	1,632,00
IF-RE-000.C <sup>2</sup>	Percentage of indirectly managed assets, by property subsector	0.00%	0.00%	0.00%	0.00%	0.00%
IF-RE-000.D <sup>3</sup>	Average occupancy rate, by property subsector	86,49%	86.92%	79.13%	94.70%	86.94%

Leasable floor area is disclosed separately into the four categories of "New York," "THE MART," "555 California," and "Other," which aligns with teporting.

The definition of "indirectly immanged assets" is solely based on the landiord /temant relationship and is oligined with the 2024 GRESB Real Estate K.
Quide: "In the past, GRESB used to classify assets as Managed or Indirectly Managed," based on, "Where a single lement has the sole authority to implement operating and/or environmental policies and measures, the tenant should be assumed to have operational control, the asset should be implement operating and/or environmental policies and measures, the tenant should be assumed to have operational control, the asset should be assumed to have operational control, the asset should be repeated to the property of the p

### Energy Management

Code	Activity Metric	Total	New York	THE MART	555 California	Other	Unit of Measure
IF-RE-130a.1	Energy consumption data coverage as a percentage of floor area, by property subsector.	100%	100%	100%	100%	100%	Percentage (%) by floor area (SF)
F-RE-130a.21	Total energy consumed by portfolio area with data coverage, by property subsector.	2,812,886	2,278,997	210,813	158,282	164,794	Gigajoules (GJ)
F-RE-130a.2	Percentage of total energy that is grid electricity, by property subsector.	52.35%	51.66%	46.30%	53.87%	68.18%	Percentage (%)
F-RE-130a.2	Percentage of total energy that is renewable, by property subsector.	36.99%	37.64%	46.16%	53.87%	0.00%	Percentage (%)
F-RE-130a.3 <sup>2</sup>	Like-for-like change in energy consumption of portfolio area with data coverage, by property subsector.	-5.29%	-5.79%	-8.71%	8.43%	-5.44%	Percentage (%)
F-RE-130a.4	Percentage of eligible portfolio that has obtained an energy rating, by property subsector.	99.94%	100.00%	99.48%	100.00%	100.00%	Percentage (%) by floo area (SF)
F-RE-130a.4	Percentage of eligible portfolio that is certified to ENERGY STAR, by property subsector.	19.71%	23.97%	0%	0%	17.03%	Percentage (%) by floo area (SF)
F-RE-130a.5	Description of how building e considerations are integrated analysis and operational strat	into property is		See pages	24, 30, 32-33, 36, 4	14-46, 50-51, 5	5.

#### Water Management

Code	Activity Metric	Total New York		York	THE MART		555 California		Other			
IF-RE-140a.1	Water withdrawal data coverage as a percentage of total floor area, by property subsector.	100% ge		96 100%		100%	100% 100%			100%	100%	
IF-RE-140a.1	Percentage of floor area in regions with High or Extremely High Baseline Water Stress, each by property subsector.	15.07%		5.20%		100.00	96	0.00%	5	0.00%		
IF-RE-140a.21	Total water withdrawn, (1) by portfolio area with data coverage and (2) percentage in regions with High or Extremely High Baseline Water Stress, each by property subsector.	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)		
		2,180,10	14.02%	1,925.87	12.28%	69.07	100%	50.55	0%	134.61	(	
IF-RE-140a.3 <sup>2,3</sup>	Like-for-like change in water withdrawn for portfolio area with data coverage, by property subsector.	0.48%		-0.36% 13		12.629	6	10.72%		3.49%		
IF-RE-140a.4	Discussion of water management risks and description of risks and practices to mitigate those risks.					See	pages 6	30-61.				

<sup>15.3</sup> Whole Building is defined as "Energy used by tenants and Base Building services to lettable/leasable and common spaces. This should include all energy supplied to the building for the operation of the building and the tenant space."

<sup>\*</sup>White considering our like-for-like boundary for \$588 reporting, we include properties that are is survice for the extract current and plory year, consistent with our francial statement approach to like-first. We owner recognity from buildings that are out of service current during any part of the current or prior \$500 services are under development during any part of the current or prior \$500 services are under a well-dependent during any part of the current or prior \$500 services are under a well-dependent during any part of the current or prior \$500 services are under \$500 services are under

<sup>5.1</sup> Base Building is defined as 'Energy consumed in supplying central building services to lettable/lessable areas and common areas."

<sup>5.3</sup> Whole Building is defined as "Energy used by tenants and Base Building services to lettable/leasable and common spaces. This should include all erfort the operation of the building and the tenant space."

<sup>&</sup>lt;sup>7</sup> No divergences between the scope of assets and/or floor area used in financial reporting and its like-for-like change in water withdraw

While considering our like-for-like bouncary for SASB reporting, we include properties that are in-service for the entire current and prior year, consistent wit approach to like-to-like). We omit energy from buildings that are out of service or under development during any part of the current or prior, year, as well as a coverable loss than 20th intense. Proceedings changes with applying normalization sciulationships as 6.2 My, at New York, My-Part THE MART, 30.38% is 55.

#### Management of Tenant Sustainability Impacts

Code	Activity Metric	Total		New Y	ork	THE M	ART	555 Ca	alifornia	Other		Unit of Measure
	(1) Percentage of new leases that contain a cost recovery	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	Percentage (%) by floor area (SF), '000s of SF
IF-RE- 410a.1	clause for resource efficiency- related capital improve- ments and (2) associated leased floor area, by property subsector.	48.84%	701	40.11%	416	70.86%	240	81.80%	45	0.00%	12	
IF-RE- 410a.2	Percentage of tenants that are separately metered or submetered for grid electricity consumption, by property subsector.	96.14%		97.64%		100%		98.79%		60.19%		Percentage (%) by floor area (SF)
IF-RE- 410a.2	Percentage of tenants that are separately metered or submetered for water withdrawals, by property subsector.	17.48%		18.60%		3.62%		0.00%		50.12%		Percentage (%) by floor area (SF)
IF-RE- 410a.3	Description of ap	proach to	measurin	g, incentivizir	ng, and im	proving susta	inability i	impacts of ter	nants.			

At Vornado, tenants consume the majority of the electricity consumed in our properties, as is evidenced by the submetered or separately metered electricity we record throughout our portfolio. Because so much of our energy consumption is under tenant control, it is essential to engage with them as a partner in reducing our carbon footprint. There is clear value to be realized in communicating to our tenants their energy and water consumption, when known, and to encourage their participation in best practices in resource conservation. In 2023, we memorialized our commitment to green initiatives through leasing by submitting for the Green Lease Leaders initiative developed by institute for Market Transformation (IMT) with support from the U.S. Department of Energy, Our standard lease agreement includes several components that encourage tenant energy conservation. Across our office portfolio, we require submetered or separately metered electricity consumption for all tenants over 5,000 square feet and promote submeters in smaller spaces. We also require submetered or separately metered water consumption for all tenants whose predicted use is expected to exceed normal business practice. The submetered arrangement enables Vornado to share energy and water consumption of water energing of water consumption of water energing of water consumption of the prediction of the properties of submetered or separately metered water consumption for all tenants whose predicted use is expected to exceed normal business practice. The submetered arrangement enables Vornado to share energy and water consumption with our tenants monthly through the generation of the submeter bill. Tenants are billed transparently based on their actual and exclusive consumption as recorded on the submeter. Included on the submeter bill are Vornado's energy reduction targets and links to Vornado's corporate sustainability page, where our broader strategy on energy and water management is found. Elsewhere in the lease, we include a clause to recover capital costs that reduce operating expenses – whether utility costs or another cost reduction benefit – and we may amortize that recovery over the useful life of the project. Because we have been applying this practice for several years and now have an extensive coverage of this clause across our entire leased portfolio, we have chosen to also report on the percentage of total leases containing this cost recovery clause for energy efficiency improvements are 59,978 of our California leases, and 1,37% of our Other leases, or 58,84% of our California leases, and 1,37% of our Other leases, or 58,84% of our California leases, and 1,37% of our Colher leases, or 58,84% of our California leases, and 1,37% of our Colher leases, or 58,84% of our California leases, and 1,37% of our Colher leases, or 88,84% of our California leases in and the court of the control of the contro

the case. We believe that our lease losters a sustainably designed tenant space, and an ongoing environment that encourages the tenant to actively manage and measure their own carbon footprint. Beyond the lease, we distinguish ourselves with one-on-one and group, in-person, and virtual engagement with our tenants

on sustainability. In 2023, we hosted four in-person roundtables in all our major regions of operations, a and virtual town halls concentrated on waste divers During these roundtables we discussed broader co and regulatory updates, in addition to best practice information from our tenants that contribute to mar rating schemes, such as the ENERGY STAR Portfol e submit for compliance with local laws in New Yo we submit for compliance with local laws in New Y; Francisco, and Chicago. We encourage tenants to c STAR Tenant Space recognition, and leverage ENEI Hunt programs to identify low- and no-cost measur consumption. We meet with tenants on-site to surv save energy and water. We train our tenants on rec We host energy reduction competitions with tenant awareness and foster their participation. Our tenant

We host energy reduction competitions with tenant awareness and foster their participation. Our tenan expressed support for renewable energy procurem completed on their behalf in New York, San Francis properties where tenants are submetered and Vorn Renewable Energy Certificates.

Varnado is committed to providing a comfortabl technologically advanced work environment for eact constantly striving to add value for its tenants throu service and programs. To that end, Vornado develo, WORK. Do.) for all our tenants that allows building building events and information, provides benefits, to tenants. The Sustainability section has pan a provide guidance to all our tenants about our sustain each building. The Sustainability section has bee each building's section of the app and explains to it our progress toward our ESG goals, and links to more as well as detailed guidance on how to become mo. Vornado's sustainability programming, including Envoide contact information, updated information o scores, organics collection, energy-saving tips, and like Climate Week for participation and engagemen continues to increase with the return-to-work of ter to enter buildings using the functionality provided: increased engagement with our tenants who now k for information on events, infaltives, and contacts.) our events, challenges, and initiatives through the C scorens in each building.

for information on events, initiatives, and contacts. I our events, challenges, and initiatives through the C screens in each building. We hold ourselves accountable and measure thi engagement. Success is measured in the observed from submetered tenant spaces, the integration of our portfolio, the waste diversion rate, and the squa that our team reaches through our engagement pro

#### Climate Change Adaptation

Code	Activity Metric	Total	New York	THE MART	555 California	Other	Unit of Measure
IF-RE-450a.1	Area of properties located in 100-year flood zones, by property subsector.	863,000	173,000	0	0	690,000	Square Feet
IF-RE-450a.2	Description of climate chang risks.	e risk exposur	e analysis, degree i	of systematic p	ortfolio exposure, a	nd strategies f	or mitigating

We identify and assess our exposure to climate change risk based on the 1.5°C and business-as-usual scenarios discussed in the October 2018 Special Report by the Intergovernmental Panel on Climate Change (IPCC). We find these scenarios to be relevant to our properties for two reasons. The first is that they provide potential future states on the physical risks each scenario presents between the present time and the year 2100. The second is that they provide a shorter-term view of transitional risks related to climate-related policy change that our properties could be subject to. Each of our principal markets of New York, Chicago, and San Francisco have existing or pending legislation that would limit carbon emissions to align with a 1.5°C scenario. We consider the costs for compliance with such legislation to be a financial impact attributable to the transition to a lower-carbon environment. The risks and opportunities for Vornado do not differ substantially across subsectors and regions, and our approach described below takes all risks and opportunities in each subsector and region into consideration.

Our buildings are located in regions that have had recent history of physical risks, such as extreme weather events, including but not limited to hurricanes and superstorms, nor'easters and ice storms, to provide the subsiness-as-usual scenario, there may be an increase in the frequency and severity of these events between now and 2100. Such events may impact our buildings individually, depending on a building's specific use, design, and location characteristics, or regionally, depending on the magnitude of the event. We are also aware that while less than 78% of our property square footage is in areas designated as flood zones by FEMA, our coastal locations are susceptible to see level risk (SLR). Various global warming scenarios could bring about differing amounts of SLR between now and the year 2400. Financial impacts under various warming scenarios include, but are not limited to: increases in capital We identify and assess our exposure to climate change risk based

ts, increases in insurance premiums, increases in

and operating costs, increases in insurance premiums, increases in energy costs, and increases in overall utility costs.

Our properties are located in urban areas, which means the vitality of our properties is reliant on sound transportation and utility infrastructure. If that infrastructure is compromised in any way by an extreme weather event, such a compromise could have an adverse impact on our local economies and populations, as well as on our tenants' ability to do business in our buildings. This risk is not unique

impact on our local economies and populations, as well as on our tenants' ability to do business in our buildings. This risk is not unique to Vornado but is endemic to our regions.

Our strategies for mitigating physical risks require a combination of adaptive and preventative measures with a proactive reduction of carbon emissions. Adaptive and preventative measures are executed at both the property level and regional level. We adapt our properties to be resilient against the impact of climate change, with details of our resilience measures found in the Resilience and Adaptation section of this report. We train our operators in disaster risk management and emergency operating procedures. At the regional level, our cities and utilities adapt by creating programs that improve resilience against climate-related impacts. Examples of such programs include New York (City's AdaptNYC plan and Consolidated Edison's Storm Hardening Protection Plan in New York; Resilient Chicago and Commonwealth Edison's Resilient Electric Grid system in Chicago; and Resilient S F and PG&E's Company Emergency Response Plan in San Francisco. We have disclosed our Scope 3 carbon emissions that are attributed to certain fuel and energy-related activities that are not included additional categories relevant to our treants and consumed by our tenants. We plan to expand our inventory of Scope 3 emissions to include additional categories relevant to our business, in preparation for a net zero goal.

All carbon emission reduction strategies, whether property-

for a net zero goal.

All carbon emission reduction strategies, whether property-specific or regional, present different risks and opportunities. Risks

include unsuccessful investment in new technologies; costs to transition to lower emissions technology; achievement of regional utilities' decarbonization; increased pricing on GHG emissions; reputational loss; and uncertainty in market signals such as utility costs or carbon taxes. Financial impacts of such risks could include increased capital and operating costs, increased or unexpected shifts in energy costs, and decreased asset value. Opportunities, on the other hand, include reduction of energy and resource consumption; use of public-sector incentives, such as utility rebates; diversification of energy resources, including renewables; adaptation of new technologies; and access to new capital. Financial impacts of such opportunities include reduction of energy and/or operating costs; flavorable ROI analysis; increased value of fixed assets; reduced exposure to fossifi fuel price increases; reduction of utility costs for our tenants; various benefits to workforce management and planning; our tenants; various benefits to workforce management and planning; lower cost of capital; and ability to take advantage of incentive, rebate, and tax incentive programs. Additional opportunities also include the reduction or elimination of burden from emerging carbon

include the reduction or elimination of burden from emerging carbon pricing or carbon tax mechanisms, as well as the reduction or avoidance of carbon-emissions-related penalties.

All three of our regions also have emissions-reporting obligations, which require us to publicly disclose our properties' carbon emissions via ENERGY STAR Portfolio Manager. We consider this requirement as an opportunity to measure the carbon emissions from our properties and manage the reduction of those emissions on an ongoing basis. These programs combine strategies of absolute energy reduction, through efficiency mandates, as well as fossil fuel intensity reduction

of utility-delivered energy. We discuss the intent at these programs with our property managers and e as our tenants. They provide an important framew reduction goals we set with our properties. In 2019, New York City passed the Climate Mob which contained several local lews to transition Ne reduce GHG emissions 40 percent by the year 203 by the year 2050, below 2005 levels. Included in that 97, which calculates carbon intensity for build foot basis and assigns limits to intensity beginning reporting in 2025. The law further assigns penalties carbon calculated in exceedance of the limits. We are efficiency strategies to avoid penalties at our NYC; carbon calculated in exceedance of the limits, we difficiency strategies to avoid penalties at our NYC  $_{1}$  consider the cost for energy efficiency to be part of to a low-carbon environment. We also consider pet the value stack of energy efficiency projects, and the of \$288 per ton of carbon to be considered when  $\alpha$ 

of \$288 per ton of carbon to be considered when n allocation decisions. Vornado Realty Trust has signed on as a suppor framework recommended by The Financial Stabili Force on Climate-Related Financial Disclosures () this framework will guide the real estate industry I informed disclosure of climate change risks and our internal and external discussions on climate ri evolve, we plan to provide expanded public disclo regulatory requirements.

### Deloitte.

Independent Accountant's Report Board of Trustees Vornado Realty Trust

Deloitte & Touche LLP 30 Rockefeller Plaza 41st Floor New York, NY10012 USA

Tel: +1 212 492 4000 Fax:+1 212 489 1687

#### WE HAVE EXAMINED MANAGEMENT

of Vornado Realty Trust's (the "Company assertion that the metrics in the Sustainability Accounting Standards Board (SASB) Index included within the accompanying Sustainability Report accompanying sustainaminy report of Vornado Realty Trust as of and for the year ended December 31, 2023 (the "Sustainability Report") are presented in accordance with the Sustainability Accounting Standards Board Real Estate Sustainability Accounting Standard (the "SASB Standard). The Company's management is responsible for its assertion. Our responsibility is to express an opinion on the metrics in the SASB Index based on our examination.

Our examination was conducted in

accordance with attestation standards established by the American Institute of Certified Public Accountants. Those standards require that we plan and perform the examination to obtain reasonable assurance about whether the metrics in the SASB Index are presented in accordance with the criteria, in all material respects. An examination involves performing procedures to obtain evidence about the metrics in the SASB Index. The nature, timing, and extent of the procedures selected depend on our judgment, including an assessment

metrics in the SASB Index, whether due to fraud or error. We believe that the evidence we obtained is sufficient and appropriate to provide a reasonable basis for our opinion. We are required to be independent and

to meet our other ethical responsibilities in accordance with relevant ethical requirements related to the engagement.

The preparation of the metrics in the SASB Index included within the accompanying Sustainability Report requires management to interpret the criteria, make determinations as to the relevancy of information to be included, and make estimates and assumptions that affect reported information. Measurement of certain metrics may include estimates and assumptions that are subject to substantial inherent measurement uncertainty, including, for example, the accuracy and precision of conversion factors or estimation methodologies used by management. Obtaining sufficient, appropriate evidence to support our opinion does not reduce the inherent uncertainty in the metrics. The selection by management of a different but acceptable measurement method, input data, or model assumptions, or a different point value within the range of reasonable values produced by the model, may

have resulted in materially different

metrics being reported.

Our examination was limited to the metrics in the SASB Index as of and for the year ended December 31, 2023. All other information presented within the Sustainability Report, including information relating to forward looking statements, goals, progress against goals, linked information, and denoted by an asterisk (\*) of the Sustainability Report was not subject to our examination and, accordingly, we do not express an opinion or any form of assurance on such information.

In our opinion, the metrics in the SASB Index are presented in accordance with the SASB Standard in all material respects.

Deloitle & Touche UP

APRIL 9, 2024

# UN Sustainable Development Goals\*

VORNADO SUPPORTS THE UNITED NATIONS Sustainable Development Goals (UNSDGs) as a global framework to achieve a more sustainable future for the planet and improve quality of life for all. As a corporate citizen, we uphold and contribute to each of the 17 goals through the environmentally and socially responsible manner in which we run our business and our properties. Below is a selection of metrics and programs where Vornado responds directly to targets identified through the UNSDG 2030 Agenda for Sustainable Development. We will expand upon these disclosures when new metrics and programs develop within the recommended SDG framework.

	UN Goal Target	UN Goal Indicator	VNO Response
3 GOOD HEALTH AND WELL-BEING	<ul> <li>3.5 Strengthen the prevention and treatment of substance abuse, including narcotic drug abuse and harmful use of alcohol.</li> </ul>	➤ 3.5.1 Coverage of treatment interventions (pharmacological, psychosocial, and rehabilitation and aftercare services) for substance abuse disorders	▶ Vornado's Employee Assistance Program (EAP) and other wellness programs, referenced in the "Human Capital Management" section of this report. Our EAP is available to all Vornado employees, which represents our coverage.
	3.8 Achieve universal health coverage, including financial risk protection, access to quality essential health-care services and access to safe, effective, quality and affordable essential medicines and vaccines for all	▶ 3.8.1 Coverage of essential health services (defined as the average coverage of essential services based on tracer interventions that include reproductive, maternal, newborn, and child health; infectious diseases non-communicable diseases; and service capacity and access, among the general and most disadvantaged population)	▶ Vornado offers all employees universal health coverage through our employee benefits program. Health care services include medical, dental, health and wellness, telemedicine services, seasonal flu shots, and operentative screenings. More information can be found in the "Human Capital Management" section of this report.
	3.a Strengthen the implementation of the World Health Organization Framework Convention on Debacco Control in all countries, as appropriate	3.a.1 Age-standardized prevalence of current tobacco use among persons aged 15 years and older	P To protect the health of the occupants, employees, and visitors to our building. Vornado transitioned all properties to tobacco-free and smoke-free environments and 2000. While the use of tobacco products and all smoking devices including electronic cigarettes and waprotrears had alleady been prohibited for all interior spaces, this policy now extends to all exterior property under Vornado's control.
	▶ 3.d Strengthen the capacity for all countries, for early warning, risk reduction and management of national and global health risks	▶3.d.1 International Health regulations (IHR) capacity and health emergency preparedness	P Considered throughout Vornado's business activity, starting with our materiality and risk assessments, development and deployment through our programs and practices described in the Health's Wellness and BMS & Clean Cleaning sections of this report.

	UN Goal Target	UN Goal Indicator	VNO Response
5 GENDER EQUALITY	▶ 5.1 End all forms of discrimination against all women and girls everywhere	▶ 5.1.1 Whether or not legal frameworks are in place to premote, enforce, and monitor equality and non-discrimination on the basis of sex	▶ Vornado Realty Trust i employer, and strictly pr of all forms on the basis religion, color, national o identity, sexual preferen protected veteran, or sta individual with a disabili
	▶ 5.5 Ensure women's full and effective participation and equal opportunities for leadership at all levels of decision-making in political, economic and public life.	▶ 5.5.2 Proportion of women in managerial positions	▶ 38% of Vornado's man female. More informatio Social Results section of
G CLEAN WATER AND SANITATION	▶ 6.4 By 2030, substantially increase water-use efficiency across all sectors and ensure sustainable withdrawals and supply of freshwater to address water scarcity and substantially reduce the number of people suffering from water scarcity	▶ 6.4.1 Change in water-use efficiency over time	➤ Vornado reduced wi 32% in 2023 from 201 reduction was driven measures and tenants work.
7 AFORDABLE AND CLEAN DRIEGE	▶7.2 By 2030, increase substantially the share of renewable energy in the global energy mix	▶7.2.1 Renewable energy share in the total final energy consumption	▶ In 2023, Vornado co energy from renewab plan to continue to inc supply from renewabl and where feasible.
	▶7.3 By 2030, double the global rate of improvement in energy efficiency	▶ 7.3.1 Energy intensity measured in terms of primary energy and GDP	➤ We have measured per square foot. In 20: intensity was 23.25 kg
9 INDUSTRY, INMOVATION AND INFORMATION	▶ 9.4 by 2030, upgrade infrastructure and retrofit industries to make them sustainable, with increased resource-use efficiency and greater adoption of clean and environmentally sound technologies and industrial processes, with all countries taking action in accordance with their respective capabilities	▶ 9.4.1 CO2 emissions per unit of value added	▶ We have measured per square foot. Our 2 intensity was .0070 M
11 SUSTAINABLE CHIES AND COMMINITIES	▶11.2 By 2030, provide access to safe, affordable, accessible and sustainable transport systems for all improving road safety, notably by expanding public transport, with special attention to the needs of those in vulnerable situations, women, children, persons with disabilities and older persons	▶11.2.1 Proportion of population that has convenient access to public transportation, by sex, age, and persons with disabilities	▶ We measure our act transportation by the assigned to our prope by the agency that as 2023, all of our office a Transit Score of 100 100% of our populatio access to public trans
12 RESPONSIBLE CONSIDERATION AND PRODUCTION	▶ 12.5 By 2030, substantially reduce waste generation through prevention, reduction, recycling and reuse	▶ 12.5.1 National recycling rate, tons of material collected	▶ In 2023, Vornado di our waste from the la represents waste coll 80% of our total in-se footage.

surance on such information.

# Glossary

#### Carbon Intensity

MTCO2e PSF is used as the metric to measure against our carbon neutrality goal.

#### Carbon Offsets

Indirect projects that avoid or reduce greenhouse gas emissions that are used to compensate for direct greenhouse gas emissions elsewhere. Offsets are measured in CO2 equivalents.

#### Control Approach

A company accounts for 100% of the GHG emissions from operations over which it has control. It does not account for GHG emissions from operations in which it owns an interest, but has no control. Control can be defined in either financial or operational terms. When using the control approach to consolidate GHG emissions, companies shall choose between either the operational control or financial control criteria.

#### **Embodied Carbon**

Can be thought of as the "footprint" of a material or a product. It is the total amount of greenhouse gas (GHG) emissions released during the sourcing, manufacturing, transportation, use, and end-of-life for a product or a material and is represented as kg carbon dioxide equivalent or kgCO2e.

#### **Energy Intensity**

Energy intensity (MWH/SF) against our energy efficiency goal.

#### **Energy Management System** (EMS/EnMS)

A framework that helps an organization achieve its environmental goals including energy and carbon data, through consistent review, evaluation and improvement of its environmental performance.

#### Equity Share Approach

The equity share reflects economic interest, which is the extent of rights a company has to the risks and rewards flowing from an operation. A company accounts for GHG emissions from operations according to its share of equity in the operation.

#### Financial Control Approach

The ability to direct the financial and operating policies with a view to gaining economic benefits from its activities.

#### Full-time employee (FTE)

Employee whose working hours per week, month, or year are defined according to national law or practice regarding working time.

#### Green Bonds

A green bond is a type of fixed-income instrument that is specifically earmarked to raise money for climate and environmental projects. These bonds are typically asset-linked and backed by the issuing entity's balance sheet, so they usually carry the same credit rating as their issuers' other debt obligations.

#### Green Seal

The Green Seal Standard for Commercial and Institutional Cleaning Services, GS-42, establishes environmental requirements for cleaning service providers of commercial, public, and institutional buildings, including in-house and external cleaning services

#### Location-Based

A method that reflects the average emissions intensity of grids on which nergy consumption occu

#### Market-Based

A method that reflects emissions from electricity that companies have purposefully chosen (or their lack of choice).

#### Operation Control Approach

Under the operational control approach, a company accounts for 100% of emissions from operations over which it or one of its subsidiaries has operational control. It should be emphasized that having operational control does not mean that a company necessarily has authority to make all decisions concerning an operation.

#### Organic

Material derived from plant or animal (once alive) sources that can be decomposed by microorganisms

#### **Physical Risk**

Physical risks resulting from climate change can be event driven (acute) or longer-term shifts (chronic) in climate patterns. Physical risks may have financial implications for organizations, such as direct damage to assets and indirect impacts from supply chain disruption. Organizations' financial

performance may also be affected by changes in water availability, sourcing and quality; food security; and extrem temperature changes affecting organizations' premises, operations supply chain, transport needs, and employee safety.

Renewable Energy Certificates (REC) A market-based instrument that represents the property rights to the environmental, social, and other non-power attributes of renewable electricity generation. RECs are issued when one megawatt-hour (MWh) of electricity is generated and delivered to the electricity grid from a renewable energy resource

#### **Revolving Credit Facility**

A type of committed credit facility that allows a borrowerr to borrow on an ongoing basis while repaying the balance in regular payments. Each repayment of the loan, minus interest and fees, replenishes the amount available to the borrower.

#### Science Based Target Initiative (SBTi)

A partnership between the Carbon Disclosure Project (CDP), the United Nations Global Compact, World Resources Institute (WRI), and the Worldwide Fund for Nature (WWF). The SBTi call to action is one of the We Mean Business Coalition commitments SBTi drives ambitious climate action in the private sector by enabling

organizations to set science-based emissions reduction targets. Targets are considered science-based if they are in line with what the latest climate science deems necessary to meet the goals of the Paris Agreement: limiting global warming to well-below 2°C above pre-industrial levels and pursuing efforts to limit warming to 1.5°C.

#### Tenant Space

Lettable floor area (both vacant and let/leased areas) that is or can be occupied by tenants.

#### Transitional Risk

Transitioning to a lower-carbon economy may entail extensive policy, legal, technology, and market changes to address mitigation and adaptation requirements related to climate change. Depending on the nature, speed, and focus of these changes, transition risks may pose varying levels of financial and reputational risk to organizations.

#### TRUE (Total Resource Use and Efficiency)

An Assessor-based certification program that rates how well facilities perform in minimizing their non-hazardous, solid wastes and maximizing their efficiency in the use of resources

#### Waste Audit

Measurement and identification of waste generated by a site during a 24-hour period. Data gained supplies a baseline understanding of waste and recycling at the site, and clarifies changes required to further waste diversion.

#### Waste Disposal

Landfilling, incineratio energy recovery or oth operation which is not including preparing of disposal, even where t has as a secondary co reclamation of substar

#### Waste Diversion Diverting material from

incineration by recycli Water Withdrawal

#### The removal of water for any purpose

#### World Resource Insti Greenhouse Gas Pro A Corporate Account Reporting Standard: (WRI & GHG)

The GHG Protocol Co Accounting and Report provides requirements for companies and oth preparing a corporate emissions inventory. T covers the accounting of seven greenhouse of the Kyoto Protocol: (CO2), methane (CH4) (N2O), hydrofluorocari perfluorocarbons (PCI hexafluoride (SF6) and trifluoride (NF3).