#### 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, 2021

#### VORNADO REALTY TRUST (Exact Name of Registrant as Specified in Charter)

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. 13-3925979				
(State or Other	(Commission	(IRS Employer			
Jurisdiction of Incorporation)	File Number)	Identification No.)			
	888 Seventh Avenue New York, New York				
(Address o	(Zip Code)				
	Registrant's telephone number, including area code: (212) 894-70	000			

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.):

No. 001-11954

Written commu	inications pursu	ıant t	o Rul	e 425	under	the	Securities	Act (17 CFR 230.425)	

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:

Maryland

Registrant	Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Vornado Realty Trust	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:		
Vornado Realty Trust	5.70% Series K	VNO/PK	New York Stock Exchange
Vornado Realty Trust	5.40% Series L	VNO/PL	New York Stock Exchange
Vornado Realty Trust	5.25% Series M	VNO/PM	New York Stock Exchange
Vornado Realty Trust	5.25% Series N	VNO/PN	New York Stock Exchange
Indicate by check mark whether the	e registrant is an emerging growth company as defined in Rule 405 of the Securities .	Act of 1933 (§230.405 of this chapter)	or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).
Emerging growth company $\square$			
If an emerging growth company, in	dicate by check mark if the registrant has elected not to use the extended transition p	eriod for complying with any new or r	evised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

#### Item 7.01. Regulation FD Disclosure.

On April 12, 2021, Vornado Realty Trust (the "Company"), the general partner of Vornado Realty L.P., issued a press release announcing that the Company released its 2020 Environmental, Social and Governance ("ESG") report. The ESG reports are posted on the Company's website.

In the process of completing the 2020 ESG Report, the Company identified an error related to the Sustainability Accounting Standards Board ("SASB") unit of measure for the amount of water withdrawn in Appendix A of the 2019 and 2018 ESG reports. The 2019 and 2018 ESG reports, previously furnished by the Company on Forms 8-K dated April 6, 2020 and April 8, 2019, respectively, have been corrected, and the revised reports are available on the Company's website. Accordingly, the Deloitte & Touche LLP examination reports in the 2019 and 2018 ESG reports included in the Forms 8-K dated April 6, 2020 and April 8, 2019, respectively, should no longer be relied upon.

The press release and the ESG 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 Vornado Realty Trust 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 12, 2021

99.2 2020 ESG report

#### 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)

By: /s/ Matthew Iocco Name: Matthew Iocco

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

Date: April 12, 2021

#### 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)

VORNADO REALTY TRUST, By:

Sole General Partner

By: /s/ Matthew Iocco

Name: Matthew Iocco

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

Date: April 12, 2021



Exhibit 99.1

PRESS RELEASE

# Vornado Releases 2020 Environmental, Social, & Governance Report

New York City | April 12, 2021

NEW YORK.....VORNADO REALTY TRUST (NYSE: VNO) announced today that it released its 2020 Environmental, Social, & Governance ("ESG") report.

This report is the twelfth annual report which highlights Vornado's industry-leading accomplishments in sustainability and provides key metrics on the Company's ESG priorities. Vornado's accomplishments in 2020 include top scores and an "A" designation for disclosure by the Global Real Estate Sustainability Benchmark (GRESB); being honored for the 11th consecutive year as a Leader in the Light by the National Association for Real Estate Investment Trusts (NAREIT); being recognized as an EPA ENERGY STAR Partner of the Year in 2020, with the Sustained Excellence distinction; earning the Viral Response Module distinction from Fitwel for its COVID-19 response; and receiving the 2020 Leadership Award from the United States Green Buildings Council (USGBC). Vornado is a signatory of the Task Force on Climater-related Financial Disclosures and has reported ESG data in accordance with the metrics codified by the Sustainability Accounting Standards Board (SASB). Our report, along with expanded information on Vornado's ESG programs, can be found on the Company website located at www.vno.com.

Vornado Realty Trust is a fully-integrated equity real estate investment trust.

CONTACT

Thomas 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. Such forward-looking statements involve known and unknown risks, uncertainties and other factors which may cause the actual results, performance or achievements of the Company to be materially different from any future results, performance or achievements expressed or implied by such forward-looking statements. For a discussion of factors that could materially affect the outcome of our forward-looking statements and our future results and financial condition, see "Risk Factors" in Part I, Item 1A, 6 our Annual Report on Form 10-K for the year ended December 31, 2020. Such factors include, among others, risks associated with the timing of and costs associated with property improvements, including the duration, see and the property of the COVID-19 pandemic on un tubusiness, financial condition, results of operations, cash flows, operating performance and the effect it has had and may continue to have on our tenans, the global, national, regional and local economies and financial markets and the real estate market in general. The extent of the COVID-19 pandemic will depend on future developments, including the duration of the pandemic, which are highly uncertain at this time but that impact could be material. Moreover, you are cautioned that the COVID-19 pandemic will heighten many of the risks identified in "Item 1A. Risk Factors" in Part I of our Annual Report on Form 10-K for the year ended December 31, 2020.

NYSE: VNO | WWW.VNO.CO!





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See more at esg

# KEY ACHIEVEMENTS IN SUSTAINABILITY

### GLOBAL REAL ESTATE SUSTAINABILITY BENCHMARK GREEN STAR RANKING 2020

8TH YEAR IN A ROW TOP QUINTILE PERFORMER "A" SCORE FOR PUBLIC DISCLOSURE

# NAREIT LEADER IN THE LIGHT AWARD 2020

11TH YEAR IN A ROW

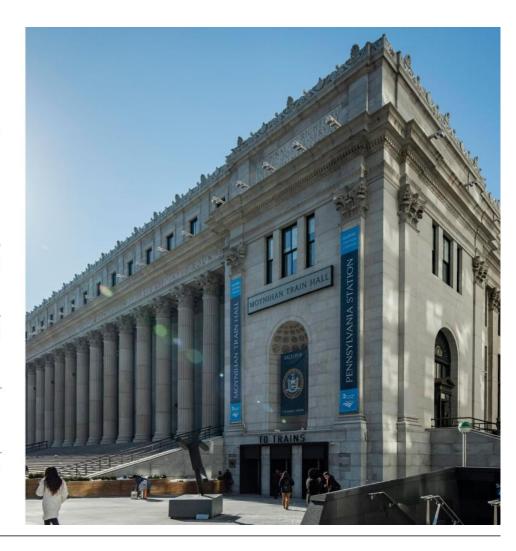
# ENERGY STAR PARTNER OF THE YEAR SUSTAINED EXCELLENCE 2021

**6TH TIME WITH THIS DISTINCTION** 

#### **EP100 MEMBER**

COMMITTED TO DEPARTMENT OF ENERGY'S ISO 50001 READY PROGRAM

### US GREEN BUILDINGS COUNCIL 2020 LEADERSHIP AWARD



### FROM OUR CHAIRMAN

### ENVIRONMENTAL, SOCIAL & GOVERNANCE ("ESG")

The various crises we endured in 2020 – economic, public health, social justice, and climate – underscore the importance and urgency of ESG. ESG remains a priority for all of us at Vornado and is further supported with oversight from our Board.

Climate change risks are imminent, as climate-driven events wreak havoc across the globe, damaging infrastructure and adversely impacting vulnerable communities. As corporate citizens we believe must do our part to reduce our impact on the environment and manage the associated risks. Last year, we published our commitment to making our buildings carbon neutral by the year 2030. Our six-point plan, known as Vision 2030, is discussed fully in this ESG Report. We have committed to aligning this plan with the Science-Based Target Initiative.

We have been focused on energy efficiency for over ten years. In fact, we reduced our energy consumption 24% between 2009 and 2019. We prioritize energy efficiency as the primary means to reduce our carbon emissions; we can and should do more, with less. To that end, below is an inventory of carbon emissions from our buildings in 2020, according to the Financial Control method¹, measured in metric tons:

	CARBON EMISSIONS TOTAL							
	TOTAL MTCO <sub>2</sub> e	SCOPE 11	SCOPE 21	SCOPE 31				
NEW YORK	163,424	23,559	105,456	34,409				
theMART	20,996	4,367	16,612	17				
555 CAL	8,405	37	8,368	HI.				
OTHER	13,360	1,227	3,561	8,571				
TOTAL	206,184	29,190	133,997	42,997				

We realized a 20% reduction in our emissions from 2019 to 2020, mostly due to COVID-related dormancy in our office and retail spaces. We expect emissions to increase from these values, at least partially, with the return of our tenants in 2021.

Carbon emissions have a complex relationship with real estate. As property owners, we can control the emissions generated by our energy consumption, but we also must be aware of the resources expended to generate this energy. A "green" electrical grid is fully supported by renewable energy and other zero-carbon resources, like hydropower and nuclear. If the grid is green, a building whose sole energy source is electricity could become carbon neutral. Both New York State and California have mandates to achieve green grids (New York by 2040; California by 2045). Such regulation compels us to

consider electrifying our buildings as a plausible path to carbon neutrality. We are actively doing so in the PENN District and elsewhere. We have a seat at the table with climate policymakers at City, State, and Federal levels to advise not only on what role buildings must play in climate change mitigation, but also how it can be done.

We responded to COVID with determination to ensure that our tenants, employees, and visitors remain healthy and safe. We fortified our buildings with protections that include thermal scanning, social distancing and PPE requirements, enhanced HVAC and Indoor Air Quality, and more recently, onsite COVID testing locations. This infrastructure is further reinforced with our green cleaning program and our best-in-class operations team. An expanded discussion on our COVID-19 response is found in the Health & Wellness section of this report.

We have also provided our employees with the resources, support, and flexibility needed through the pandemic. We continually support our human capital by sponsoring continuing education and career development. We have actively engaged with our workforce and solicited their feedback through our divisional leaders and employee surveys.

Our Board, and particularly our Corporate Governance and Nominating Committee, is assigned with oversight of ESG, which includes climate change risk. A discussion of our corporate governance is included in our proxy

statement, which can be viewed at <a href="https://www.uemand.com/governance">www.uemand.com/governance</a>.

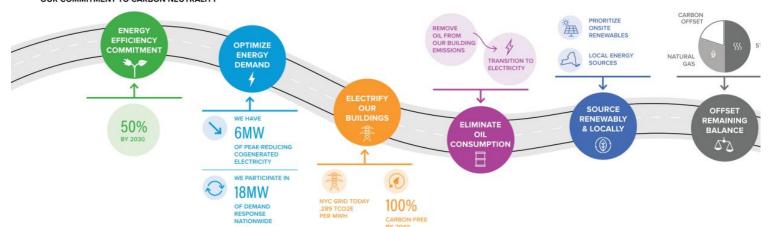
We proudly celebrate our continued a and recognition as a leader in ESG. In 20 recognized by NAREIT as a Leader in the L running), we achieved ENERGY STAR Partne with Sustained Excellence (6th time with the and we earned accolades from the Globa Sustainability Benchmark (8th year with Ranking, top quintille of performers, and if or our public disclosure). We own and of than 27 million square feet of LEED cold or better.

Our ESG narrative is told with transparency a by data. We have expanded our climate sce as recommended by the Taskforce on CI Financial Disclosures and have updated ou according to the Sustainability Accountin Board and the Global Reporting Initiative. All at <a href="https://www.no.com">www.no.com</a>.

Steven Roth Chairman of the Board and Chief Executive Officer

### VISION 2030 ROADMAP\*

#### **OUR COMMITMENT TO CARBON NEUTRALITY**



#### WE WILL ALWAYS PRIORITIZE ENERGY EFFICIENCY

We are proud of our accomplishments in energy efficiency thus far, with 24% of same-store energy consumption reduced since 2009. We will extend our energy efficiency goal to 50% below 2009 levels by 2030. This goal includes both landlord- and tenant-driven consumption. More information on this effort can be found in the Energy Efficiency Targets section of this report.

#### WE WILL PERMANENTLY REDUCE OUR ENERGY PEAKS

In addition to doing more with less energy, we will shift our energy usage to occur during hours when the electric grid uses cleaner sources of generation. In addition to the existing grid benefits provided by our 6.2MW cogeneration plant, we will continue to expand our demand response and curtailment capability, and pursue energy storage where feasible and permissible. We also use building analytics software to more smartly operate our buildings and reduce demand on a permanent basis.

"Any information relating to goals and progress against goals was not subject to Deloitte & Touche LLP's review and, accordingly, Deloitte & Touche LLP does not express a conclusion, opinion, or any form of assurance on such information.

#### **ELECTRIFY OUR BUILDINGS**

We know that a carbon-neutral building must consume energy from 100% renewable sources. As New York State pursues its plan to secure 70% of electricity from renewable systems by 2030 and 100% clean electricity by 2040, we will evaluate opportunities to convert our steam, gas, and oilsourced consumption to electricity. We will prioritize electricity as our sole source of building energy in all ground-up new development.

#### **ELIMINATE OIL CONSUMPTION**

We see a path forward to eliminate or modify all our legacy oil boilers to cleaner sources of energy. We will transition these systems to electricity where economically and technologically feasible.



and technologically feasible. offsets until we fully transition to zero-carbon utility consumption.

Vision 2030 is our commitment to reach net zero through a combination of emissions reductions and offsets from our bi

#### SOURCE RENEWABLY AND LOCALLY

We will pursue opportunities to source our supply of electricity for renewable sources while we wait for our grid systems to make th fully renewable transition. We want the solution to be home-grow local communities and economies can benefit from our investmel prioritize onsite renewable energy production, as well as sources close to our buildings and cities.

#### OFFSET REMAINING BALANCE

As we make this transition, we know there will be a remaining bal energy consumed from fossil fuels. We will augment that balance offsets until we fully transition to zero-carbon utility consumption.

We will rely on both existing and future technology, as well as meaningful stakeholder collaboration with our tenants, or employees, and our communities. Vornado has committed to aligning its Vision 2030 Plan with the Science Based Target

### TASK FORCE ON CLIMATE-RELATED FINANCIAL DISCLOSURES (TCFD)\*

#### GOVERNANCE

Vornado became a signatory of the TCFD in February 2019, among the first American real estate companies to do so. Our Board's Corporate Governance and Nominating Committee oversees environmental matters, including climate change risk. The Board is part of the top-down strategy on ESG risk management, which includes execution by our Corporate ESG Team, senior management, divisional leaders, and integration throughout all divisions of our business. Further discussion on our governance around climate-related risks and opportunities can be found in the ESG Governance section of this report.

#### STRATEGY

We have identified IPCC Representative Concentration Pathway (RCP) 2.6 (targeting a 1.5-to-2-degree scenario) as the primary scenario to assess transitional risk and opportunities over the short, medium-, and long-term horizon, as informed by the regulatory frameworks in the communities where our properties are located. We identify a "business-as-usual" scenario of RCP 6.0 to assess the physical risks of climate change, due to the possibility of failure of global efforts to mitigate. The impact of such risks informs strategies of our current and future development projects, as well as financial planning for our stabilized assets. More information can be found in our SASB disclosures on climate change risk.

#### RISK MANAGEMENT

We identify and assess physical risks through the use of data models and resources that use both historical and forward-looking climate data to determine potential exposure to climate-related events. We identify and assess transitional risk through analyzing our exposure to local climate regulations, which are imposed upon buildings to mitigate their emissions to contribute to climate scenarios aligned with RCP 2.6.

Where acute physical risk for a property is noted, we manage this risk through measures of climate resilience and adaptation. Our primary means of managing transitional risk is through our energy efficiency program, because energy consumption at our properties drives our ability to comply with regulations such as the Climate Mobilization Act (CMA) in New York City. The costs of energy efficiency work, electrification, and other efforts to comply for each of our buildings are factored into our risk analysis. We will forgo disclosure of these costs until compliance requirements for CMA and other climate regulations are more definitively known, although we do not expect these costs to be material.

Our climate risk assessment informs the risk profiles for our properties and is a component of our annual Enterprise Risk Management process. Further discussion on our climate risk assessment is found in the Resilience and Adaptation section of this report, as well as our SASB disclosures on climate change risk.

#### METRICS AND TARGETS

Our metrics and targets that most meaningfully help us to assess our climaterelated risks and opportunities are found in the Energy Efficiency Targets and Goals and Progress sections of this report. Greenhouse gas emissions are disclosed in the Environmental Results 2020 section of this report.



"Any information relating to goals and progress against goals was not subject to Deloitte & Touch LLP's review and, accordingly, Deloitte & Touche LLP does not express a conclusion, opinion, or any form of assurance on such information.

### TASK FORCE ON CLIMATE-RELATED FINANCIAL DISCLOSURES (TCFD)\* COMMINDED

TRANSITIONAL RISKS AND OPPORTUNITIES: SCENARIO ANALYSIS - RCP 2.6

#### SHORT-TERM (1-10 YEARS)

# We identify RCP 2.6 as our short-term transitional scenario, due to the regulations in the cities where we do business, as well as our carbon neutrality goal. Our Vision 2030 roadmap outlines the many components required to transition our portfolio to a climate trajectory that aligns with a 15 Gargas (lims).

#### 2030 MEDIUM-TERM

#### e-carbonization of grid-supplied energy could ad to increased energy costs and operating

Retrofitting our building systems to consume less

Fossil fuel consumption, though mitigated through tarbon offsets, may be subject to penalties.

#### Opportunities

Our overall energy consumption could decrease, yielding a reduced operating cost.

Carbon-neutral buildings could be more competitive in the long term and could yield higher value to our business.

Energy storage, onsite renewable energy, and distributed energy resource deployment could yield additional sources of revenue and attract and retain tenants.

#### PHYSICAL RISKS - RCP 6.0

#### SHORT-TERM

- Stormwater surge, flood risk in vulnerable areas
- · Localized loss of power
- Degradation of air quality and public health

#### MEDIUM-TERM

- Increase in temperature and humidity extremes
- Increase in seasonal heating and cooling demand
- · Increase in insurance and disaster relief costs
- · Increase in infrastructure and construction costs
- Increase in instances of business interruption

#### 2050 LONG-TERM

#### Risks

Full transition of grid-supplied energy to renewable sources of to increased energy costs and operating expenses for our but

#### pportunities

Improved air quality could lead to lower HVAC operating and

Mitigated increases in temperature could lead to reduced co adapt our buildings to be resilient to more extreme climate so

Renewable energy delivered from the grid will reduce source generated carbon emissions and potentially reduce exposure climate regulation.

Full transition of grid-supplied energy to renewable sources co to decreased energy costs and operating expenses for our bu

#### ONG-TERM

- Heightened extremes in weather conditions and temperatures lead to significantly higher heating- and cooling-related energy maintenance costs.
- Accelerated increases in land and ocean temperatures could I increased climate-related events, including extreme precipitati which could yield significantly higher disaster response and flo mitigation costs.
- Accelerated increases in sea level rise could lead to increased from coastal urban floods.

ENVIRONMENTAL, SOCIAL & GOVERN

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### RESILIENCE AND ADAPTATION

Our properties are located in regions with recent history of climate-related events. As we assess our exposure to climate risk under varying scenarios, we understand that measures in property resilience are measures in adaptation. Our development project at 512 West 22nd Street exemplifies how our new building design is resilient and adaptive to future climate conditions.

#### MECHANICAL EQUIPMENT

At 512 West 22nd Street, we placed all critical mechanical equipment and electrical switchgear above grade to avoid flood damage.



#### **GREEN ROOFS & STORMWATER RETENTION**

Our new roof landscape systems are designed to absorb and retain stormwater, and slow runoff into the urban landscape and surrounding infrastructure, Green and white roofs also insulate our buildings; reduce current and future demand for heating and cooling; and contribute to heat island reduction, which provides local relief to surface temperature.

At 512 West 22nd Street, excess stormwater is captured in a retention tank and held for irrigation needs, and it is pumped to the rooftop terraces when needed, or to the cooling tower as make-up water.



#### 3 GLAZING & ENVELOPE

Our new glazing and envelope systems are designed to withstand heavy wind and ice conditions. They also are designed to reduce solar heat gains and improve insulation values to minimize heating and cooling demand.



#### FLOOD BARRIERS

When a new building is located in a flood zone, we anchor when a new bulling is located in a lood zone, we anchor temporary walls and venting systems inside our building lobbies to accommodate storm surges and floods and their associated water pressure build-up without damaging the building. At our existing buildings, we install temporary exterior barriers to prevent floodwater from touching the building envelope.



#### 5 BACKUP GENERATION

We install backup generation to support, at minimum, fire and life safety systems, as well as critical infrastructure. At 512 West 22nd Street, we have connected our elevators, lighting, and HVAC systems to backup generation systems to ensure safe and secure evacuation in the event of an outage.



ENVIRONMENTAL, SOCIAL & GOVERN

Top: 512 West 22nd Street.
At right: Image of Manhattan from the NYC Flood Hazard Mapper, a localized coasillood hazard mapping tool that assists our climate risk exposure analyses.

### **ENERGY EFFICIENCY TARGETS\***

In Vision 2030, Energy Efficiency is our primary means to reduce our carbon emissions and make progress towards carbon neutrality. We have bifurcated our approach to address both landlord and tenant consumption, so we can holistically arrive at our goal of 50% reduction by 2030, below a 2009 base year. In 2020, the pandemic and resulting slowdown of activity in our buildings resulted in greater than usual reduction of energy. We expect our consumption to increase over 2020 levels in 2021 and 2022 before returning to a trajectory of reduction.

#### TOTAL REDUCTION GOAL:

%

BY 2030 WITH SAME-STORE PORTFOLIO (IN-SERVICE OFFICE)

#### 2020 PROGRESS:



MEASURED IN

#### BUILDING ENERGY USAGE TREND 2020

#### LANDLORD EMISSIONS REDUCTION PLAN

#### 55% BY 2030





#### TENANT ENERGY USAGE TREND 2020



#### TENANT EMISSIONS REDUCTION PL

#### 45% BY 2030



32% 2020 PROGRES

#### What's Working

- Technical Assessments: Our New York City, Chicago, and San Francisco properties over 50,000 SF have undergone ASHRAE Level II Energy Audits and Retro-commissioning, both of which identify existing deficiencies that, when addressed, reduce energy consumption, as well as Energy Conservation Measures (ECMs) that further optimize each asset's energy performance
- Energy Efficiency Capital Work: Our ECMs serve as the basis of our capital projects, which reduce operating costs, energy consumption, and carbon emissions. We remain committed to completing new capital work every year.
- Other Capital Work: While energy efficiency is not the primary value driver for all capital projects, most capital work can save energy when managed responsibly. Such examples include elevator modifications and glazing and envelope improvements, which we procure responsibly and with energy efficiency as a deliverable

#### **Future Opportunities**

- Onsite Generation, Renewable Energy, and Energy Storage: We continue to explore opportuniti employ onsite distributed energy resources.
- Smart Building Technology: We use predictive analytics and machine learning to run our buildings electrical and mechanical systems more efficiently We upgrade and replace our building management systems to increase the automation of this process.
- Regulation & Compliance: Our buildings are located in jurisdictions that have adopted bold climate legislation, which may regulate the carbon emissions from buildings and their related energy consumption This regulation will have an impact on building codes, building infrastructure, and space plan

- Publicly Sponsored Commitments: We have facilitated the commitment of more than 2 million SF of tenants to the Carbon Challenge in New York. We promote tenant participation in energy reduction vents such as the WWF Earth Hour and the Building Energy Exchange's Earth Hour.
- **Lease-Driven Provisions:** As standard practice, we have green provisions in our leases, such as submetered electricity (94% of all leases), submetered water (15%), and capital recovery clauses for energy efficiency projects (64%).
- Meaningful Stakeholder Engagement: In 2020, we established weekly virtual check-ins with our tenants across our portfolio to review their submetered energy consumption and make changes to reduce their loads throughout the pandemic

#### Future Opportunities:

- · Regulation and Compliance: Laws like N Local Law 88 of 2009, New York's Local of 2019, and California's Title 24 contain carbon requirements that will result in lo consumption in future tenant spaces.
- Best Practices in Design: Working with a and engineers, we have identified sever will either require or recommend their in future design.









### GOALS AND PROGRESS\*





WASTE MANAGEMENT



AND RESPONSIBLE CONTRACTING



WATER MANAGEMENT



Our 2020 progress was distorted due to our tenants working from home and closure of retail stores during the pandemic. We expect our consumption to increase in 2021 and 2022 above 2020 levels before returning to a trajectory of reduction.

In 2020, we were unable to conduct in-person education and instead achieved our education goal through virtual meetings and electronic communications.

In 2020, our procurement was impacted by the emergency purchase of personal protective equipment (PPE).

Our 2020 progress was distorted due to our tenants working from home and closure of re stores during the pandemic. We do not cons 10% reduction goal to be achieved. We expeconsumption to increase in 2021 and 2022 a levels before returning to a trajectory of redu

GOAL 50% total energy reduction below a 2009 baseline by 2030 measured in kBtu/SF

GOAL 75% commercial waste diversion by 2026

GOAL Every year, purchase 75% of cleaning supplies that meet sustainability criteria. These criteria include certifications designated by UL ECOLOGO, Green Seal, and EPA's Safer Choice Standard

GOAL 10% by 2030 below 2019 base year.

32%

2020 PROGRESS: ON TARGET

65%

2020 PROGRESS

73%

GOAL 55% energy reduction of landlord-controlled energy by 2030

GOAL 45% energy reduction of tenant-controlled energy by 2030

GOAL Introduce organics recycling to 50% of portfolio by 2020

2020 PROGRESS

2020 PROGRESS: ON TARGET

2020 PROGRESS: ON TARGET

52%

32%

2020 PROGRESS: GOAL REACHED

**GREEN BUILDING CERTIFICATIONS** 

GOAL LEED certify 100% of all in-service office properties by 2020

We paused LEED certification efforts until our tenants return to work post-pande

2020 PROGRESS

97

2020 PROGRESS: ON TARGET

32%

2020 PROGRESS: GOAL REACHED

Vornado portfolio each year

GOAL Complete in-person demonstration and education on recycling procedures for **50%** of total

65%

### **ENVIRONMENTAL RESULTS 2020**

**ENERGY EFFICIENCY INVESTMENT\*** 

MILLION

spent on Energy Efficiency Capital Projects since 2012 (excludes new developments)

MILLION+

saved in utility

costs in 2020

efficiency projects\*

completed since

MILLION SF

of our New York portfolio has undergone energy efficiency capital work

RATE OF

**SINCE 2012** Delivered by our capital projects\*

RETURN

**CUMULATIVE SAVINGS SINCE 2012** 

For reporting boundaries, see note on p. 35.

#### **VORNADO OWNS AND MANAGES**

GRI 413-1

MILLION SF of LEED-certified properties

MILLION SF

of total Vornado Portfolio

of total Vornado Portfolio

**BUILDING ENERGY** (kWh/SF) GRI 302-3

GRI 103-3

BUILDING WATER

INTENSITY MEASURES

2018

2019

MILLION SF of space with ENERGY STAR rating

at LEED Gold or higher

%

**GHG EMISSIONS** (MT/SF) GRI 305-4

WATER CONSUMPTION

2,027,913

WHICH WAS A 36% REDUCTION FROM 2019 TO 2020

NONHAZARDOUS WASTE TOTAL GRI 306-2



RECYCLED: 3,751 TONS

2019: 24,878 TONS

2,889 TONS

COMPOSTING: 1,031 TONS

### ENVIRONMENTAL RESULTS 2020 Continued

The consumption and emissions data sets on this page are presented on an absolute basis.

on an assolute basis.

Beginning with this 2020 report, we are transitioning our emissions reporting from the operational control method to the financial control method to the financial control method. The financial control method will more accurately reflect Scope 1 and Scope 2 emissions reductions that stem from all efforts discussed in our Vision 2030 plan. Below is a summary of the end uses we have assigned per emissions Scope.

H	Oil & Natural Gas Heating and Cooling
00	Cogeneration
sco	OPE 2
555	District Steam
燕	Base Building Electricity
	Submetered Tenant Utilities

Direct Metered Tenant Utilities

The COVID-19 pandemic caused a significant reduction of activity in our buildings in 2020, resulting in a related reduction of base building electricity and tenant electricity consumption and their related Scope 2 emissions. Our buildings remained open during the pandemic and we continued to heat and cool them. We also maintained consistent operations of our cogeneration plant at PENN 1. Consistency of these uses from 2019 to 2020 resulted in a less substantive decrease in Scope 1 emissions from 2019 to 2020.

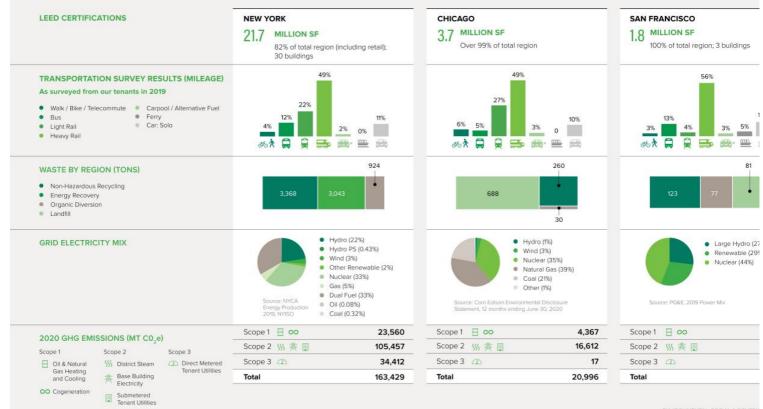
OPERATIONAL CONTROL METHOD GHG emissions MT CO2e <sup>†</sup>	2018	2019	2020
SCOPE 1 GRI 305-1	27,040	34,413	34,674
SCOPE 2 GRI 305-2	256,684	221,901	171,510
TOTAL GRI 305-5	283,724	256,314	206,184
FINANCIAL CONTROL MET GHG emissions MT CO2e <sup>†</sup>	HOD	2019	2020
SCOPE 1 GRI 305-1		28,577	29,190
SCOPE 2 GRI 305-2		177,977	133,997
SCOPE 3 GRI 305-3		49,760	42,997
TOTAL GRI 305-5		256,314	206,184

WHICH WAS A	20%	1	REDUCTION	FROM	2019	TO 2020	
-------------	-----	---	-----------	------	------	---------	--

ENERGY CONSUMPTIO GRI 302-1 & 302-4	N (mWh)		
$\Diamond$	2018	2019	
DISTRICT CHILLED WATER	15,250	12,702	
DISTRICT STEAM	306,342	259,472	1
ELECTRICITY	598,820	556,572	44
FUELS	142,101	182,586	1
TOTAL	1,062,513	1,011,332	8
COGENERATED FUELS	1,643	38,894	

For reporting boundaries, see endnotes, p. 35.

### **ENVIRONMENTAL RESULTS BY REGION**



### **ENERGY MANAGEMENT PLANNING CYCLE**

Vornado's dedicated energy management begins with team members who report directly to senior management, and it extends to the asset-level teams which operate and manage the properties. By identifying and executing energy solutions that are specific to each of our assets, Vornado will fulfill its commitment to reducing energy consumption 50% by 2030 — below a 2009 baseline.\*

MAKE COMMITMENT → ASSESS PERFORMANCE → SET GOALS\* →

Our Vision 2030 goal is to achieve carbon neutrality in our buildings by 2030, which includes a 50% energy efficiency goal. We use carbon intensity (MT CO2e PSF) as the metric to measure against our carbon neutrality goal, and energy intensity (kBtu/SF) against our energy efficiency goal. On an annual basis, we update one- to three-year, capital improvement plans

#### CREATE ACTION PLAN

- Define technical solutions, both small scale (low- and no-cost) and large (energy efficiency capital pri
- Assess projected energy savings of projects and measure their contribution towards property energy reduction goal.



#### IMPLEMENT ACTION PLAN

Execute plan with projected energy and carbon savings with a variety of stakeholders:

- Site-Level Management and Engineering Teams
- Accounting Group
- Senior Management
- · Our Board

- Utility Companies
- Vendor Partners
- Our Peers
- Our Community



+ MILLION SF









#### **EVALUATE PROGRESS**

- · Measure and verify energy project savings using
- · Assess energy cost savings on a utility bill. Subsidize cost of energy projects using utility rebates where available.
- Recover costs through lease-driven clauses for resource efficiency-related capital improvements.
- · Monitor until the project's energy reduction are met.
- · Reflect the impacts of our energy savings the broader environmental performance company, through the key performance in in our Environmental Management Syster
- Our EMS is aligned with the "Plan-Do-Che stages of ISO14001 EMS standards.

ENVIRONMENTAL MANAGEMENT

arc VORI



#### RECOGNIZE ACHIEVEMENTS

- · Annually recognize building operators and engineers who achieve 10% or greater energy savings or
- . Apply for the ENERGY STAR Label where eligible, every year.
- · Communicate energy savings and ENERGY STAR Label achievements to internal and external stake

### SUSTAINABLE DEVELOPMENT

At Vornado, we value our employees as our greatest asset. Human capital management is critical to our success. To that end, we know that for our tenants to attract and retain the most innovative, collaborative, and talented people, they must be located in buildings that are sustainable, forward-thinking, and relevant to the modern workforce.

We therefore focus our development and repositioning efforts on buildings that share the following characteristics:

- · Near transportation
- Architecturally and historically significant
- Comprised of physical spaces that foster collaboration and impossible.

   Walkable and amenity-rich
- · Able to offer a variety of spaces for different types of work

Our buildings throughout the PENN District, including the Farley Building, are emblematic of these key characteristics.



#### PENN 1 AND PENN 2

We are committed to delivering PENN 1 and PENN 2 as carbon neutral, leading examples of transitioning e buildings to a low-carbon economy. Our carbon neutrality strategy will borrow from Vision 2030 priorities a buildings to a forceasor economic conting, but cannot return any stategy will be obtained as a conting to a contribute meaningfully to our carbo commitment while providing an amenity-rich environment that provides the conveniences and flexibility of workspace.

- Complete overhaul of mechanical and electrical infrastructure, including superefficient electric cooling, high-performance glazing (triple-glaze at PENN 1), and destination dispatch vertical transportation
- · Up to an acre of new open space, green roofs, and
- Smart building technology that leverages occupancy data and optimizes HVAC control
- Low-carbon tenant fit-out design and operations guidelines to help tenants partner with Vornado to minimize carbon emissions and climate impact
- · Industry-leading green cleaning and build recycling and organics diversion program
- · Direct access to Penn Station, subway ne the newly opened Moynihan Train Hall
- · Improving on the existing LEED Gold certi of both buildings through targeted renova operational programs

We are also transforming our buildings to serve the needs of a diverse, mobile, and active workforce, whe collaborative space will foster productivity and creativity.

At PENN 1, the first three levels will deliver WorkLife, an amenity ecosystem for tenants to focus on both we self-care. A social stair will connect the main entrance on the first level to amenities on levels two and three stair's bleacher seats and large LED panels will be the perfect location for casual meetings or private even will feature The Landing – a full-service restaurant, private dining rooms, and multiple tenant lounges for siand working; WorkLife Wellbeing - a 35,000 SF fitness and wellness center; WorkLife Meetings - a 20,00 conferencing facility; and WorkLife Flex Office - over 80,000 SF of adaptable workspace.

PENN 2 will include over 65,000 SF of outdoor tenant space including a 17,000 SF rooftop park, 16 loggies expansive terraces. The building will also feature various flexible tenant spaces for working or socializing  $\epsilon$  events – including a 280-person town hall, casual lounges, and rooftop pavilion. Tenants at PENN 2 will als access to the PENN 1 WorkLife space, delivering a campus-style approach to the PENN District.

### SUSTAINABLE DEVELOPMENT Continued



Rendering of rooftop pavillion, Farley Building



#### THE FARLEY BULDING

Vornado converted this iconic Beaux Arts New York City fixture in in-class creative office hub, on par with the horizontal campuses which are characterized by large floor plates and abundant greer. The adaptive reuse of the Farley Building will be further supporte portfolio-wide sustainable operations strategy that prioritizes rest conservation, healthy indoor environments, and responsible proc

The 730,000 SF office building is targeting LEED v4 Gold certifical highlighted by the following:

- Direct access to Amtrak, Long Island Railroad, and New Jersey regional train networks, in addition to multiple NYC subway lin
- Up to 70,000 SF of rooftop park space, with up to a quarter mi continuous walkable outdoor paths
- A new 6,000 SF glass rooftop pavilion for use as programmab amenities space
- Zero-waste design guidelines that will include organics diversi office and retail spaces
- Ample stainwell access to facilitate collaboration among differe the buildings
- State-of-the-art energy management system that will contribute reduction and demand response, and provide tenants with insetheir real-time energy consumption, demand, and carbon emisetheir real-time energy consumption.
- Over 3 MW of emergency backup power to foster resilience a business continuity

### RECYCLING

Vornado works closely with industry service providers and regulators to understand how our buildings' waste can best support the global recycling market. We educate our tenants on best practice strategies to reduce overall waste, and we keep material out of the landfill by diverting recyclables and organics. We measure the impact of these efforts and programs with quantitative audits and monthly reports.



### WATCH OUR VIDEO ON THE RECYCLING PROCESS:

www.vno.com/recycling

### VORNADO'S WASTE MANAGEMENT POLICY

- Reduce hazardous and nonhazardous waste generated at our buildings
- Increase diversion of waste from the landfill through recycling and composting acceptable materials and sending trash to waste-toenergy incineration plants
- Require tenants to divert business waste resulting from standard operations and packaging waste from deliveries and supplies

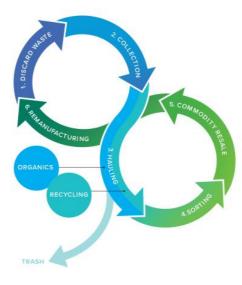
#### TENANT ENGAGEMENT

- In 2019, we hosted in-person building-wide meetings at 77% of our office portfolio, representing 22 million SF
- In 2019, we hosted semi-annual electronic waste recycling drives at 73% of our office portfolio, representing 20.7 million SF
- We paused our in-person meetings and drives during the pandemic in 2020. We plan to resume these programs as tenants return to work in 2021 and beyond.

#### DATA TRACKING

- Performed waste stream audits at 95% of our office portfolio, representing 27 million SF
- Monthly waste generation and diversion tracking at 95% of our office portfolio, representing 27 million SF

#### RECYCLING LIFE CYCLE



#### 1 DISCARD WASTE

Vornado provides our tenants with separate receptacles can discard items in the appropriate bin, whether paper, recycling, or trash.

#### 2 COLLECTION

BMS Green Clean collects waste from tenant spaces, enswaste streams remain properly separated for storage and our baulers.

#### 3 HAULING: ORGANICS & RECYCLING

We've partnered with haulers that have proven compilan waste management requirements. The haulers remove w each building with three trucks: one brings garbage to a station, another delivers recyclables to their sorting facilit further processing, and a third picks up organic waste.

#### SORTING

At the sorting facilities, recyclables are hand-sorted and t according to material type and quality.

#### 5 COMMODITY RESALE

Baled materials are sold as commodities to factories and as paper mills and plastics manufacturers. Clean bales are more valuable and command higher purchasing price

#### 6 REMANUFACTURING

The baled materials become inputs for new products, sur bottles, polyester clothing, and paper towels, thereby rec use of virgin materials and natural resources.

### **HEALTH AND WELLNESS**

#### MISSION TO IMPROVE OCCUPANT HEALTH

As a building owner and landlord to thousands of business tenants, we are responsible for maintaining and improving the health of our indoor are responsible for maintaining and improving the neating of our health and environments, as well as communicating the value of our health and wellness programs with consistency and clarity to our stakeholders. Healthy buildings contribute to a healthy society. We believe that consistent health programming and communications protocols not only mitigate health risks within our buildings, but they also create a responsible behavior framework for our employees, our tenants, and our visitors to consider elsewhere in

We uphold the Fitwel standard as a framework to align our operating protocols to support indoor health. Below are examples of areas of focus for health and wellness at Vornado:

#### Indoor Air Quality

- Semi-annual indoor air quality testing programs to measure carbon dioxide, carbon monoxide, volatile organic compounds, particulate matter, temperature, and relative humidity
- Air quality protection from MERV13 or higher filtration systems, entryway control systems, and walk-off mats
- · Piloting of ongoing Indoor Air Quality (IAQ) monitoring in select locations
- Green cleaning with nonhazardous disinfectants and cleaners
- Smoke-free, tobacco-free company across all our properties

#### Mobility and Physical Activity

- · Transit-oriented locations
- · Subsidized memberships to fitness centers at select locations
- · Accessible stairwells and active design strategies

#### Safety & Emergency Preparedness

- Emergency Action Plans
- Emergency supplies, Automated External Defibrillators (AEDs), and first
- Certified First Responder and CPR training for tenants and staff

#### OFFICE PORTFOLIO ACCESSIBILITY METRICS

AVERAGE BIKE SCORE









PROVIDE ON-SITE BICYCLE STORAGE

AVERAGE WALK SCORE





TRANSIT SCORE





We presently have

#### 6.6 MILLION SQUA

of buildings (23% of our portfolio) certified unde Multi-Tenant Whole Bui

### HEALTH AND WELLNESS Continued

#### **COVID-19 RESPONSE**

Our leadership and COVID-19 response team worked tirelessly to ensure our buildings could remain open for business while providing a healthy and safe indoor environment for our employees, tenants, visitors, and contractors. We uphold Fitwel's Viral Response Module framework to guide our pandemic response protocols:

#### **Enhance Indoor Environments**

- Enhanced IAQ and humidity control policies, as recommended by CDC and ASHRAE
- IAQ testing and monitoring
- · Legionella testing and water management plan
- · Enhanced cleaning, disinfecting, and maintenance protocol

#### **Encourage Behavioral Change**

- Provision of PPE with accompanying education and signage
- · FDA-approved thermal scanning practices, social distancing, and PPE requirements in all of our lobbies and common areas
- Hand hygiene stations, including education and signage
- Health programming and services plan

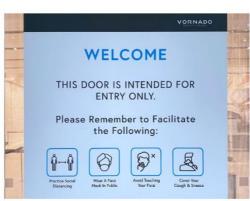
- · Pandemic preparedness plan and business continuity plan
- Viral response design guidelines for our offices, lobby areas, and loading docks
- Enhanced stakeholder collaboration plan, including our employee survey and emergency communications plans
- Flexible and accommodating paid sick leave and family support policies for employees

#### Additional Benefits Extended to Our Employees

- · Daily health screenings and guestionnaire
- · Onsite COVID-19 testing on a weekly basis
- Weekly rotational staffing plans, to limit workforce occupancy to than 50%
- Provision of equipment for remote working capabilities and IT si
- · Subsidized parking and lunch
- Flexibility to accommodate personal requests

Vornado was among the first five real estate companies to earn the Response Module designation in 2020 for our pandemic response







### TENANT & COMMUNITY DEVELOPMENT

Our strategy is to foster and nurture the community within our buildings for our tenants and visitors, and to enrich the neighborhoods and communities in which our buildings are located. Our proprietary Live.Work.Do. app was designed exclusively for our tenants to seamlessly connect with their buildings' amenities, services, and work order system, as well as connect the neighborhood to our tenants.







### FOOD, CULTURE, WELLNESS, AND ENTERTAINMENT

Exclusive Vornado tenant deals and promotions from onsite and neighborhood restaurants, gym classes, spa specials, local festivals and concerts, and more. During the pandemic, Live.Work.Do. connected Vornado with our tenants who were working from home via free online exercise programs, yoga classes, meditation podcasts, and recipes for special dishes and cocktails.



#### TRANSIT

Live transit information alerts for neighborhood transit options conveniently originating at each office building.



#### SAFETY

Direct links among the tenants, property management teams, and our security force to report on-site and local concerns and communicate in real time, Our in-house Security Operations Center (SOC) was built exclusively for the portfolio and is managed 24 hours a day, 7 days a week by experienced security professionals.



### CRITICAL INFORMATION AND EMERGENCY PREPAREDNESS

Live-Work-Do, served as a critical source of information during the pandemic, particularly while tenants worked from home. Through Live. Work-Do, Vornado was able to notify tenants of all COVID-19-related protection measures, including requirements for entry to the building, updates to building systems, green cleaning and disinfection, and updates on governmental regulations.



#### MOBILE TENANT ACCESS

Mobile credentials provide tenants with frictionless access through the building's turnstiles, eliminating the need to carry building access cards



### MOBILE VISITOR REGISTRATION

The Live.Work.Do. app provides the convenience of mobile credentials to our visitors. Tenants can quickly invite a visitor and a QR code will be provided for entry via email or text.



### BUILDING SUSTAINABILITY INITIATIVES

We keep our tenants informed of the building's sustainability profile, including energy, water, waste, and transportation data; initiatives such as Earth Hour; recycling programs; and philanthropic activities.



#### WORK REQUESTS

Direct links into the building's service order systems and resource reservations allow the tenant administrative teams to report on issues and receive updates on the go from the convenience of a mobile phone.

**OUR PEOPLE** GRI 102-18, 10

Our employees are the foundation of our human capital. 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 upholds strict policies against bribery and corruption, child labor, and forced or compulsory labor. Such policies extend to our Board and management as well as our employees. 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 <a href="https://www.no.com/governance/conduct-and-ethics">www.no.com/governance/conduct-and-ethics</a>. Our policies are found in our employee handbook which our employees must review and acknowledge on an annual. handbook, which our employees must review and acknowledge on an annual

We offer our employees a competitive health and benefits package that includes the following:

#### **EMPLOYEE HEALTH & BENEFITS**

- 401(k) and Employer Match
- · Tuition Reimbursement
- Employee Referral Bonus
- · Commuter Benefits
- Cellular Discounts
- New Jersey Manufacturers Insurance Planning

#### Parental Benefits

- Dependent Care Flexible Spending Account
- · Maternity Leave

#### Work/Life Balance

- Employee Assistance Program
- · Time Off / Paid Holidays

#### Health and Wellness

- · Medical, Dental, and Vision Coverage
- Health Savings Account
- · Life Insurance
- Short-Term and Long-Term Disability Insurance
- Employee Wellness Incentives
- Healthcare Flexible Spending Account
- Subsidized Gym Memberships
- Biometric Screenings In-Workplace Flu Vaccination
- CPR Trainings

#### EMPLOYEE TRAINING

- Anti-Harassment
- · Active Shooter Training
- · Manager and Executive Retreats for Training Purposes
- · Continuing Education Through Building Owners and Managers Association (BOMA), IUOE Local 94, Local 32BJ.
- Green Professionals (GPRO)
   Training, Administered by Urban
   Green Council

#### **EVENTS**

- · Earth Week
- · Corporate Challenge
- · Town Halls
- · Holiday Parties







### BMS / GREEN CLEANING

#### BMS / GREEN CLEANING

Building Maintenance Service, LLC ("BMS") is Vornado's janitorial division and comprises our essential workers who play critical roles in our pandemic protection program. BMS adheres to an enhanced cleaning, disinfection, and maintenance protocol that prioritizes safety and compliance with CDC and EPA quidelines.

In 2020, our procurement was impacted by the emergency purchase of PPE. BMS achieved 73% sustainable purchases. GRI 416-1

#### **EMPLOYEE HEALTH & SAFETY, EMPLOYEE TRAINING**



Our 2019 training included

65 BMS SUPERVISORS AND SENIOR-LEVEL STAFF TRAINED

in GS-42 green cleaning standards.

24 HOURS OF TRAINING, per employee, annually.

371

SAFETY CHECKS IN 2019

IN COMPLIANCE with training requirements in the OSHA standards.

100% OF BMS EMPLOYEES TRAINED MONTHLY

Our in-person trainings shifted focus to COVID-19 in 2020. We plan to resume our standard safety training in 2021 and beyond.



37% REDUCTION IN WORKERS' COMPENSATION CLAIMS 2019-2020

for BMS Employees

#### SOCIAL DEMOGRAPHICS BMS 2020"1

GRI 102-8, 401-1, 405-1

#### **KEY FINDINGS**

Our BMS employees are

36% FEMALE

70% RACIAL MINORITIES

		OF EMPLOYEES	PERMANENT	TEMPORARY	FULL-TIME	PART-TIME	
GENDER							
ALL EMPLOYEES	MALE	2,073	1,899	174	1,681	392	
	FEMALE	1,148	1,081	67	792	356	
AGE							
ALL EMPLOYEES	< 30 YRS OLD	405	321	84	247	158	
	30-50 YRS OLD	1,414	1,320	94	1,093	321	
	> 50 YRS OLD	1,402	1,339	63	1,133	269	
REGION							
NEW YORK		1,954	1,876	78	1,916	38	
NEW JERSEY		38	29	9	11	27	
CHICAGO		341	187	154	185	156	
WASHINGTON	, DC	873	873	0	358	515	
OTHER		15	15	0	3	12	

2020 EMPLOYEE TURNOVER RATE	22%
NEW HIRES IN 2020	460

hese figures represent the diversity of our organization and are inclusive of the following racial minority groups: Black/African America, Hispanic/Latina, Asian/Pai

This table covers BMS employees for the year ended December 31, 2020, inclusive of all hires that took place throughout the year. BMS employees represent Voi staff.

<sup>•</sup> The Company provides equal employment opportunities to all employees and applicants for employment without regard to race, color, creed, obtaining status, research orientation, gender identity, national origing, age, disability, married status, colornestic partners status, protected vertices a status, or any other characteristic protect applicable rederal, state, and local laws. This applies to all terms and conditions of employment including, without limitation, himps placement, promotion, terminate transfets (severe of absence, compensation, and trailing). The Company will not tolerate unlawful discrimination and expressly prohibits any form of unlawful employ based on race, color, creed, citizenship status, religion, sex, sexual orientation, gender identity, national origin, age, disability, marital status, domestic partner status vetterns status, or any other characteristic prohibitation by applicable law.

### BMS / GREEN CLEANING CONTINUED

In 2020, the BMS Green Clean program fully aligned with Fitwel's Viral Response Module (VRM). Highlights from our green cleaning include the following:

- Identification of high-touch surfaces to shift extra attention to cleaning and disinfecting of these areas
- Active maintenance of PPE inventory, including masks, gloves, eye protection, face shields, and hazmat suits. These provisions are made available to all staff in every building, in addition to PPE, BMS is managing an inventory of hand hygiene supplies including hand soap, sanitizer, and paper towels, to ensure consistent supply.
- Prioritization of safer disinfectants, as outlined by Green Seal and Fitwel VRM, and hydrogen peroxide-based products across all regions of our operations.
- Use of vacuums with HEPA filtration. HEPA, or high efficiency particulate air, filters remove dust, pollen, mold, bacteria, and other airborne particles from the air as it passes through the vacuum. The HEPA filtration helps to supplement the IAQ mitigation strategy in place with HVAC filtration systems.
- Maintenance of healthy entryway systems in our lobbies by routinely cleaning at all high traffic access points, including walk-off mats, and the continuing disnfection of high-touch surfaces.

2020 also highlighted the critical success of the BMS health and safety program. Since the onset of the pandemic, BMS has been the primary procuring agent for all PPE and other critical supplies for Vornado and our divisions

BMS established an internal pandemic protocol to respond safely and effectively to the ongoing threat posed by the pandemic. Communication methods for reporting illness, duration of quarantine, and contact tracing were outlined by Human Resources and distributed to all staff. Guidelines for

symptom checking and temperature reading were established and executed at the building level for all staff. Operational adjustments such as staggered shift times, limits to the number of staff in confined spaces, and encouraging employees to arrive fully uniformed when possible were activated in response to the pandemic.

BMS field staff has been trained utilizing the following COVID-19 specific training modules and methods:

- PPE how and when to use it, proper donning and doffing techniques
- Proper pandemic disinfection protocol – emphasizes product selection, dwell time, procedures, PPE, how to properly use equipment
- Preventing the spread of contagious illness (DC/VA)
- ISSA Global Biorisk Advisory Council (GBAC) Cleaning and Disinfection Principles
- Equipment training HEPA filtered vacuums, electrostatic
- BMS staff guidelines for health and safety during COVID-19 – social distancing, hand washing, PPE, communication, symptom checking
- 32BJ/BMS Partnership COVID-19 Training (1 hour)
- Creation of weekly safety/training virtual meetings (DC/VA region)

Types of QA/QC safety checks conducted to ensure a healthy workplace in 2020:

- Safety station inspections to ensure proper PPE, signage, Material Safety Data Sheets (MSDS), and bloodborne pathogen procedures in place
- PPE inventory, tracking, and distribution
- Emergency cabinet checks
- · Employee injury/incident follow up





### BMS / GREEN CLEANING Continued

#### 2020 SUPPLY PURCHASE IMPACT







Packaging Reduction

 $69_{\text{TONS}}$ 

from chemical concentrate:

Water Use Reduction

531,551 GAL

1500

from chemical-free T3 scrubber

Purchased 44,561 cases of paper products, including 967,531 pounds of recycled paper products, which represents more than

1,596

CUBIC YARDS OF LANDFILL SPACE SAVED

Revolution liners use about 50% postconsumer recycled plastic. By purchasing these bags, BMS reduced emissions by

102 TON

of CO2e in 2020



"BMS meets the highest industry standards for safe, effective cleaning and disinfecting that prioritizes indoor air quality and the health of the people in the building. We see BMS as an outstanding green cleaning service provider and overall industry leader because of the company's professionalism, commitment to sustainability, and consistent quality control. BMS not only provides excellent custodial services, but also delivers critically important indoor environmental health benefits and environmental savings through its services."

Green Seal CEO Doug Gatlin

"This cleaning service meets Green Seal" Standard GS-42 based on waste minimization, building-specific operational procedure effective custodial training, and use of products with limits on human and environmental toxicity, www.GreenSeal.org,

BMS employee





### **SUPPLY CHAIN**

#### VENDOR CODE OF CONDUCT

To extend our Business Code of Conduct to include our suppliers, we require compliance with Vornado's Vendor Code of Conduct (CoC) as part of our standard form of vendor contract. In addition to conveying our requirements on business ethics, integrify, and anti-bribery, we explicitly state that our vendors must comply with all applicable laws, including those pertaining to the following:

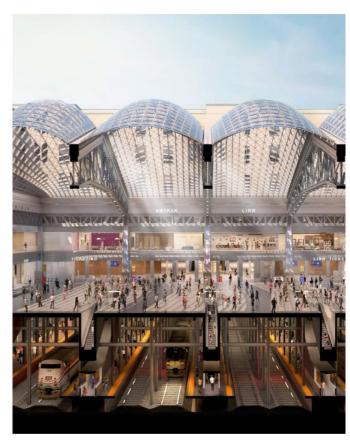
- Freedom of association and collective bargaining
- Human trafficking
- · Forced labor and child labor
- · Wages and working hours
- · Health & safety
- · Human rights and labor rights
- Anti-harassment
- Environmental impact and compliance with environmental regulations
- Air and GHG emissions
- · Waste and recycling
- Anti-corruption
- · Gifts and hospitality

### VENDOR INTEGRITY PROGRAM

Vornado actively monitors compliance with our CoC and performs audits on our supply chain through our Vendor Integrity Program (VIP). Vendors are subject to review according to our VIP upon initial contract signing and at least once every three years thereafter. Our VIP uses federal and international databases to canvas our vendors for controversies that may indicate violation of our Code of Conduct. Such controversies may include, but are not limited to:

- · Criminal and civil litigations
- Human rights violations, such as trafficking or slavery
- Controversial mentioning in the modia
- Illegal business practices, including money laundering, terrorism, corruption, or fraud
- OSHA violations

Our VIP also researches and records our vendors' registration in Minority, Women, Disability, and Veteranowned databases, as well as qualification as a small business, as recognized by various jurisdictions.



Cross-section rendering of Movnihan Train Hall

### **CYBERSECURITY**

Vornado is committed to rigorous cybersecurity protocols and employs a multifaceted approach for protecting our data and the computing environment utilized by our employees and external vendors. We engage with multiple third-party services that provide in-depth 24/7 network monitoring in addition to performing scans for vulnerabilities. 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 Internet of Things (IoT) and corporate networks are physically separate to further enhance our data and access segregation. Furthermore, our IoT network is highly segmented for additional security and for minimizing vendor access. Our networks are audited by multiple external firms to further our commitment to ensuring the highest security. Formal reports to both the Audit Committee and Board of Trustees detailing our current cybersecurity program and future enhancements are instrumental in satisfying their responsibilities.

#### OUR OBJECTIVE:

Vornado's primary information security objective is to protect information assets from threats and vulnerabilities through active network monitoring and testing, and strong management of application, infrastructure, and physical access.



#### **IDENTITY AND ACCESS MANAGEMENT**

We have engaged outside experts to continuously monitor network events and identify flaws or weaknesses through regular penetration testing. An Identify & Access Management (IAM) system analyzes application-level activities for suspicious behavior that might otherwise go undetected. Multi-Factor Authentication (MFA) is required for all remote network access and sensitive onnetwork applications.

PATCH AND VULNERABILITY MANAGEMENT

patch management process and regular system scans to identify and remediate vulnerabilities. We have implemented restrictive data access through third-

party software and perform thorough vendor cyber assessments to understand any potential risk posed by

Workstations and servers are secured via a strict

outside entities.



#### TRAINING AND OUTREACH

All staff are trained in cybersecurity awarene tested through periodic email phishing camp. Frequent reminders in the form of newslettei employees an active part of our cyber defen



#### INCIDENT RESPONSE

A detailed Cybersecurity Incident Response is in place for organizational preparedness ir of a cyber event. The CSIRP is vetted and up regularly via multidisciplinary tabletop exerci



#### BUSINESS CONTINUITY

We validate replication of our critical financia at our disaster recovery site daily. All employ secure remote capabilities to perform critical enterprise without interruption.

### **SOCIAL RESULTS 2020**



((( THERMAL COMFORT AND VENTILATION

JANITORIAL SERVICES AND CLEANLINI

89%

We ask tenants to rate their experience on a scale of 1-10 (10 bein

We ask tenants to rate their experience on a scale of 1-10 (ID bein positive). We survey our tenants as part of our stakeholder engag our customer service. Our results are reviewed internally every yill help us target a reas of improvement. We paused our tenant satis surveys during the pandemic in 2020. We plan to resume our sur 2021 and beyond.

OUR 2019 SURVEYS COVERED 57% OF OUR OFFICE I

OUR TENANTS CARE MOST ABOUT THE QUALITY OF

OF TENANTS RANK TH

**EXPERIENCE AS POSIT** 

LIGHTING QU

TENANT SATISFACTION SURVEYS

TENANT OUTLOOK

AVERAGE TENANT

SATISFACTION RANKING

LIGHTING QUALITY IN WORKSPACES



PROMPTNESS OF BUILDING RESPONSI TO REQUESTS

Rendering of Farley office space, fifth floor

### SOCIAL RESULTS 2020 Continued

#### VORNADO EMPLOYEE SURVEY RESULTS

Vornado surveyed employees for their satisfaction with the company's COVID-19 response and return-to-work plan.



8.5 TOTAL SATISFACTION SCORE (OUT OF 10)

#### SURVEY HIGHLIGHTS:

DISTRIBUTION AND TIMELINESS OF COVID-19-RELATED INFORMATION

QUALITY AND 9.0 VISIBILITY OF COVID-19 PROTECTION SIGNAGE AND SOCIAL DISTANCING REQUIREMENTS

VORNADO'S WORKFORCE 8.3 ROTATIONAL PROGRAM AND FLEXIBILITY POLICIES PROVISION OF PPE AND CLEANING AND DISINFECTING **PROGRAMS** 

#### SOCIAL DEMOGRAPHICS VORNADO 2020"

GRI 102-8, 401-1, 405-1

#### KEY FINDINGS

Our VNO employees are

54% FEMALE

30% RACIAL MINORITIES

		TOTAL NUMBER OF EMPLOYEES	PERMANENT	TEMPORARY	FULL-TIME	PART-TIME	RA MI
GENDER							
ALL	MALE	264	262	2	259	5	
EMPLOYEES	FEMALE	313	310	3	310	3	
VP OR	MALE	84	84	0	84	0	
ABOVE	FEMALE	32	32	0	32	0	
AGE							
ALL EMPLOYEES	< 30 YRS OLD	97	91	6	94	3	
	30-50 YRS OLD	290	290	0	287	3	
	> 50 YRS OLD	190	190	0	189	1	
	< 30 YRS OLD	1	1	0	1	0	
VP OR ABOVE	30-50 YRS OLD	62	62	0	62	0	
ruo yu	> 50 YRS OLD	53	53	0	53	0	
REGION							
NEW YORK		269	260	9	267	2	
NEW JERSEY		233	232	1	230	3	
CHICAGO		68	68	0	68	0	
SAN FRANCIS	co	7	7	0	7	0	
		0-4 YEARS	5-9 YEARS	10-19 YEARS	20+ YEARS	TOTAL	
TENURE							
# OF EMPLOYE	EES	206	117	152	102	577	

2020 EMPLOYEE TURNOVER RATE	27%
NEW HIRES IN 2020	34



### **VORNADO VOLUNTEERS**

Through employee engagement and social impact assessment, Vornado Volunteers identified the following localized community priorities: economically and socially disadvantaged populations, environmental restoration and protection, and health and wellness. In 2020, Vornado Volunteers commenced its commitment to community activism in each of our divisions, before transitioning to virtual volunteering where possible. Below is a selection of our 2020 activity.

- Partnered with Grant Associates for Vornado's Career Discovery Week in February, where Vornado executives hosted career panels, resume reviews, mock interviews, and networking sessions for 30 New York City high school sophomore students.
- Participated in virtual discussion and presentation for Fellows Issue Day, a cohort-style leadership training series, issued through the partnership with the Real Estate Board of New York (REBNY) and Coro, NYC's premier civic leadership training organization.
- Host sponsorship and virtual participation in the American Lung Association's tenth annual Fight for Air Stair Climb.

We have also instituted **Vornado's Day of Service**, which is a day of compensated time allowing our employees to volunteer for a cause of their choosing, starting in 2021.

Below is a selection from our 2019 volunteer program. We anticipate returning to in-person volunteering activity after the pandemic subsides in 2021 and beyond.

- American Lung Association, Fight for Air Stair Climb, raising over \$200,000 for lung disease research and awareness programs in New York.
- San Francisco Fire Department First Responders Stair Climb at 555 California Street in San Francisco.
- Partnership with Jersey Cares to provide shelters, hospitals, and food banks with supply kits and care packages.
- Over 600 hours of volunteering to revitalize Norman S. Weir School in Paterson, New Jersey, and provide mentoring support for students
- Sponsorship of 2019 Canstruction Awards, which collected over 150,000 lbs of food to provide over 230,000 meals through the Greater Chicago Food Depository.
- Park cleanup efforts in Central Park in NYC as well as Liberty State Park in Jersey City, New Jersey.







#### CHARITABLE CONTRIBUTIONS

In addition to volunteering our time and expertise to worthy causes, Vornado generously supports charities with financial contributions. Our beneficiaries 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 2020:

- · All Stars Helping Kids
- Bowery Mission
- Breaking Ground
- Building Skills New York
- Design Museum of Chicago
   Municipal Arts Society of New York

Food 1st Foundation

- renedital Certies Inher-City Scric
  - · New York Community Trust
    - The state of the s
- Vornado team's park

Vornado eam's park Seanup effort, Sentral Park

### **OUR PARTNERSHIPS**

Our employees serve as members and hold board positions for organizations where we make meaningful contributions to ESG issues in real estate. Our partnerships strategically address topics that include, but are not limited to: energy and water efficiency; climate policy; green building certifications; building electrification; zero waste strategies and recycling; diversity, equity, and inclusion; ESG reporting frameworks; and sustainable operations and maintenance. Below is a selection of our 2020 involvement.

#### NATIONAL

- · EPA ENERGY STAR Partner
- US Green Buildings Council Corporate Member, Greenbuild Program Working Group (Co-Chair)
- Urban Land Institute, Center for Sustainability and Economic Performance (Board)
- NAREIT Real Estate Sustainability Council
- Real Estate Roundtable, Sustainability Policy Advisory Committee (Vice Chair), Equity, Diversity & Inclusion Policy Advisory Committee
- Global Real Estate Sustainability Benchmark (GRESB)
  Benchmark Committee Member
- Sustainability Accounting Standards Board (SASB) Real Estate Sector Advisory Group

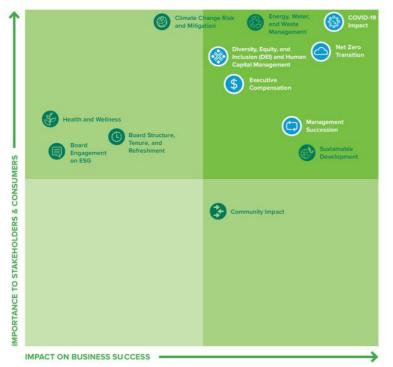
#### REGIONAL

- · New York Energy Consumers Council (Co-President)
- Real Estate Board of New York (REBNY) Sustainability Committee
- Building Energy Exchange (Nominating Committee Chair)
- · Urban Green Council
- Energy Efficiency & Housing Panel Member, New York State Climate Action Council
- New York State Department of Public Service Energy Efficiency and Building Electrification Strategic Advisory Group
- NYC Commercial Buildings Working Group for Local Law 97 Implementation
- Retrofit Chicago
- Building Owners and Managers Association (BOMA) New York, Chicago, and San Francisco
- BOMA-New York Pinnacle Each Award Sub-Committee (Chair)
- AIA Committee on the Environment (COTE) Zero Waste Design Guidelines Advisory Board
- Regional Plan Association (Board)
- Young Men's / Women's Real Estate Association (Board)



Rendering of lobby terrace, PENN 2

### **ESG MATERIALITY ASSESSMENT**



"Any information relating to goals and progress against goals was not subject to Deloitte & Touche LLP's review and, accordingly, Deloitte & Touche LLP does not express a conclusion, opinion, or any form of assurance on such information.

#### **OBSERVATIONS FROM 2020:**

#### COVID-19 Impact:

Our tenants, investors, Board, and employees all expressed concern about the impact of the COVID-19 pandemic on our business, our human capital, and our ability to continue progress on our ESG goals.\*

#### Net Zero Transition:

Our tenants, investors, and Board each expressed support for Vornado's Vision 2030 Plan\* as our Net Zero Transition plan, and our investors supported aligning our plan with the Science Based Target Initiative.\*

#### Management Succession Plan:

Our investors, Board, and employees all sought thorough discussion on Vornado's management changes and transitions made in 2020.

#### Diversity, Equity & Inclusion:

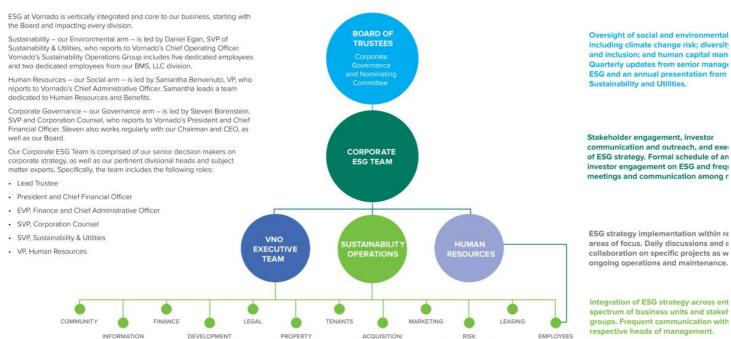
Our investors, Board, and employees all supported our continued commitment to DEI, and particularly our transparency through publication of the data that Vornado submits to the US Equal Employment Opportunity Commission (EEO).

#### Executive Compensation:

Our investors and Board prioritized changes to our executive compensation program, particularly in relation to transition of management and alignment with COVID-19-related financial performance.

STAKEHOLDER GROUP	NATURE OF ENGAGEMENT	FREQUENCY OF ENGAGEMENT	KEY TO
OUR TENANTS	Active relationship through our property management teams; meetings and discussions on tenant environmental performance; sustainability roundtable or webinar.	Daily (property management) As-needed (in- person meetings); Annually (roundtable/ webinar)	COVID Energy Waste Net Ze Commi Health
OUR INVESTORS	Conference calls to discuss corporate governance and ESG issues. Discussions include Vornado's Lead Trustee; President and Chief Financial Officer; Corporation Coursel; and heads of Investor Relations, Human Resources, and Sustainability. Conducted calls with investors representing ownership of at least 50% of all outstanding shares.	Annually, or more frequently as requested. Total investors reached represent over 50% of all Vornado's outstanding shares.	COVID Finance Execut Compse Manag Success Equity and Hu Manag Zero Tr
OUR BOARD	ESG update to the Board by the CFO; presentation from the head of Sustainability	Quarterly (from CFO); Annually (from head of Sustainability)	COVID Financi Manag Succes Capital Diversi Inclusio Transiti
OUR EMPLOYEES	Informal and frequent check-ins on environmental performance; in-person or virtual meetings; employee surveys	Weekly finformal engagement); Annually (in- person meetings, Virtual Town Hall meeting)	COVID Human Manag Manag Succes & Wellr Water, Manag Transiti Develo
OUR COMMUNITIES	Active membership and partnerships in community and government organizations focused on civic and environmental issues	Monthly or more frequently (per meeting schedule)	COVID Net Ze Energy Waste Comm Climate Risk an Sustair Develo

**ESG GOVERNANCE** GRI 102-7, 102-18, 10



MARKETS

MANAGEMENT

TECHNOLOGY

CONSTRUCTION

ENGINEERING

including climate change risk; diversity and inclusion; and human capital man Quarterly updates from senior manage ESG and an annual presentation from

communication and outreach, and exe of ESG strategy. Formal schedule of an investor engagement on ESG and frequ

areas of focus. Daily discussions and a collaboration on specific projects as w ongoing operations and maintenance.

Integration of ESG strategy across ent spectrum of business units and stakel

## GLOBAL REPORTING INITIATIVE (GRI) INDEX

Management of Vornado Realty Trust is responsible for the completeness, accuracy, and validity of the disclosures in the Global Reporting Initiative Index (the "sustainability disclosures") included within the Enricommental, Social and Governance 2020 Report of Vornado Realty Trust, Management is responsible for the collection, quantification, and presentation of the sustainability disclosures and for the selection of the criteria, which management believes provide an objective basis for measuring and reporting on the sustainability disclosures. Measurement of certain disclosures

accuracy and precision of conversion and other factors. The selection by management of different but acceptable measurement methods, input data, or assumptions may have resulted in materially different amounts or metrics being reported. Management asserts that the sustainability disclosures in the Global Reporting initiative Index included within the Environmental, Social, and Governance 2020 Report of Vornado Realty Trust for the year ended December 31, 2020 are presented in accordance with the Global Reporting Initiative (GRI) Sustainability Reporting Standards under its Core option. The GRI has developed an internationally recognized standard for sustainability reporting.

#### GRI 102: GENERAL DISCLOSURES

DISCLOSURE	DESCRIPTION	RESPONSE
ORGANIZATIO	NAL PROFILE	
102-1	Name of the organization	Vornado Realty Trust
102-2	Activities, brands, products, and services	We currently own or portions of: New York; 20.6 million square feet of Manhattan office in 33 properties; 2.7 million square feet of Manhattan street retail space in 65 properties; 1,989 units in 10 Manhattan resides; 15th 1700-room Hotel Pennsylvania located on Seventh Avenue at 33rd Street in the heart of the Penn District (closed since April 1, 2020 as a result of the COVID-19 pandemic); A 32.4% interest in Alexand ander's (NYSE-LAX), which owns seven properties in the greater New York metropolitan area, including 731 Let all million square foot Bloomberg. L.P. headquarters building; Sinage throus District and Times square; and Building Maintenance Services LLC (FBMS) a wholly owned subsidiary, which provides cleaning and security services for our buildings and third parties; The 3.7 million square foot Chicago; a 70% controlling interest in 155 California Street, a three-building office complex in San Frantacios of its San Frantacios for substituting 18 million square feet; A 25.0% interest in Vornado Capital Partners, o fund. We are the general partner and investment manager of the fund. The fund is in wind-down; and Other real estate and investments.
102-3	Location of headquarters	888 Seventh Avenue, New York, NY
102-4	Location of operations	United States of America
102-5	Ownership and legal form	Fully integrated REIT which conducts its business through, and substantially all of its interests in properties are held by, the Operating Partnership, a Delaware limited partnership. Vornado is the sole generand owns approximately 92.8% of the common limited partnership interest in the Operating Partnership as of December 31, 2020.
102-6	Markets served	Our primary property types are office and retail with geographic locations in New York, Chicago, and San Francisco.
102-7	Scale of the organization	ESG Governance, p. 30 of this report; 35+ office properties in New York, Chicago, and San Francisco; 70+ retail properties in New York and surrounding regions, Miami Beach, Florida, and Annapolis, Maryi residential apartments in New York City, \$1.528 billion total revenues.
102-8	Information on employees and other workers	BMS / Green Cleaning, p. 20 of this report, and Social Results 2020, p. 26 of this report
102-9	Supply chain	Vornado engages primarily with suppliers who provide supplies and equipment that help us manage and develop our properties. Our suppliers range in location but tend to be concentrated in our primary regions of New York, Chicago, and San Francisco. Vornado considers BMS LLC as a supplier of janitorial supplies and equipment for our properties.
102-10	Significant changes to the organization and its supply chain	No significant changes
102-11	Precautionary Principle or approach	While Vornado has not formally adopted the Precautionary Principle, we apply a precautionary approach in our operational planning or when introducing new products to our buildings. Greenhouse gas er indoor air pollutants are among many of the environmental risks that we seek to avoid and mitigate.
102-12	External initiatives	Key Achievements in Sustainability, p. 1 of this report
102-13	Membership of associations	Our Partnerships, p. 28 of this report

# GLOBAL REPORTING INITIATIVE (GRI) INDEX CONTINUED 1

#### CDI 102: CENEDAL DISCLOSLIDES

DISCLOSURE	DESCRIPTION	RESPONSE
STRATEGY		
102-14	Statement from senior decision maker	p. 2 of this report
ETHICS AND I	NTEGRITY	
102-16	Values, principles, standards, and norms of behavior	Our Code of Business Conduct and Ethics promotes honest and ethical conduct, including fair dealing and the ethical handling of conflicts of interest; promotes full, fair, accurate, timely, and understandab promotes compliance with applicable laws and governmental rules and regulations; ensures the protection of the Trust's legitimate business interests, including corporate opportunities, assets, and confliction; and deters wrongdoing. Our expanded policy can be found on our Conduct and Ethics VNO Web page, found at https://www.vno.com/governance/conduct-and-ethics.
GOVERNANCE	E	
102-18	Governance structure	ESG Governance, p. 30 of this report
102-20	Executive-level responsibility for economic, environmental, and social topics	ESG Governance, p. 30 of this report
102-32	Highest governance body's role in sustainability reporting	ESG Governance, p. 30 of this report

# GLOBAL REPORTING INITIATIVE (GRI) INDEX Continued 2

CDI 102: CENEDAL DISCLOSUDES Continued

DISCLOSURE	DESCRIPTION	RESPONSE
STAKEHOLDE	R ENGAGEMENT	
102-40	List of stakeholder groups	ESG Materiality Assessment, p. 29 of this report
102-41	Collective bargaining agreements	79.02% of our total 2,899 employees are covered by collective bargaining agreements.
102-42	Identifying and selecting stakeholders	ESG Materiality Assessment, p. 29 of this report
102-43	Approach to stakeholder engagement	ESG Materiality Assessment, p. 29 of this report
102-44	Key topics and concerns raised	ESG Materiality Assessment, p. 29 of this report
REPORTING P	RACTICE	
102-45	Entities included in the consolidated financial statements	Vornado Reality Trust; BMS; Alexander's, Inc; JBG Smith
102-46	Defining report content and topic Boundaries	2020 Environmental, Social & Governance Report, p. 2 of this report ESG Materiality Assessment, p. 29 of this report
102-47	List of material topics	Energy, Water, and Waste Management; Climate Change Risk and Mitigation; Human Capital Management; Diversity, Equity, and Inclusion; Carbon Emissions and Carbon Footprint Reporting; Local C Management Succession Plan; Executive Compensation; Health and Wellness, including our COVID-19 pandemic response; Sustainable Development; Board Structure, Tenure, and Refreshment; Bi ment on ESG; Community Impact, p. 29 of this report
102-48	Restatements of information	No restatements.
102-49	Changes in reporting	No significant changes.
102-50	Reporting period	January 2020 - December 2020
102-51	Date of most recent report	2019 Sustainability Report, dated April 3, 2020
102-52	Reporting cycle	Annual
102-53	Contact point for questions regarding the report	Daniel Egan, SVP, Sustainability & Utilities, degan@vno.com
102-54	Claims of reporting in accordance with the GRI Standards	This report references the GRI Standards.
102-55	GRI content index	This report references the GRI Standards.
102-56	External assurance	The Independent Accountants' Review Report can be found on p. 37 of this report, available online at www.vno.com.

# GLOBAL REPORTING INITIATIVE (GRI) INDEX CONTINUED 3

CDL403- MANACEMENT ADDDOACH

DISCLOSURE	DESCRIPTION	RESPONSE				
103-1	Explanation of the material topic and its boundary	this GRI index on p. 35. Reporting b		ound in the footnotes on p. 20 and 26. Re	scribed on p. 29 of this report. Reporting Boundaries for opporting boundaries for GRI topics 413 and 416 are the materials.	
			Policies/ Commitments	Goals and Targets	Responsibilities	Processes/ Projects / Programs
		GRI 201: Economic Performance	p. 3, pp. 4-5	p. 4		p. 41
		GRI 302: Energy	p. 3	pp. 8-10		p. 12, p. 38
		GRI 305: Emissions	p. 3	p. 10		pp. 4-6
		GRI 303: Water	p. 3, p. 8	pp. 8-10		p. 12, p. 39
	The management approach	GRI 306: Effluents & Waste	p. 3, p. 15	pp. 8-10		p. 12, p. 16
103-2	and its components	GRI 401: Employment	p. 19		BMS / Green Cleaning, p. 20 Our People, p. 26	p. 20, p. 26 including reference to grieva
		GRI 404: Training and education	p. 2, p. 16, p. 19, p. 20		ESG Governance, p. 30	p. 16, pp. 19-20
		GRI 413: Local Communities	pp. 27-28			
		GRI 416: Customer Health and Safety	pp. 16-17, p. 20			pp. 16-17, p. 20
		GRI 405: Diversity and Equal Opportunity	p. 19, endnote, p. 20 and 26			
		419: Socioeconomic Compliance	10-K FN 22 p. 114			
103-3	Evaluation of the management approach	Evaluation of climate-related topics	s: Environmental Results, pp. 9-10 of this r	eport, and progress against environmenta	al goals, found on p. 8. Evaluation of management appr	oach to social topics: Social Results, found on p

# GLOBAL REPORTING INITIATIVE (GRI) INDEX CONTINUED 4

CDI 200-400- TODIC-SDECIEIC DISCLOSLIDES Continued

GRI TOPICS	DISCLOSURE	DESCRIPTION	RESPONSE
ECONOMIC			
GRI 201: Economic Perf. 2020	201-2	Financial implications and other risks and opportunities due to climate change	TCFD Scenario analysis, pp. 4-5 of this report, and SASB Disclosure on climate change adaptation, p. 41 of this report.
ENVIRONMENTAL			
	302-1	Energy consumption within the organization	2020 Results, p. 10 of this report.
GRI 302: Energy 2020	302-3	Building energy intensity	2020 Results, p. 9 of this report. Our denominator is the square footage as outlined in the boundaries found in the endnotes of this report.
	302-4	Reduction of energy consumption	2020 Results, p. 10 of this report. Energy converted from source unit of measure to megawatt hours (mWh).
GRI 303: Water 2020	303-1	Water withdrawal by source	2020 Results, p. 9 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 cubic meters.
	305-1	Scope 1 GHG emissions	2020 Results, p. 10 of this report. Gases included are CO2, CH4, and N2O. We utilized the latest available emission factors for each energy type and Global Warming Potential far Fifth Assessment Report (AR5) published by Intergovernmental Panel on Climate Change to calculate our GHG inventory. No significant recalculations occurred. Consolidation apdefined in the reporting boundary endoted in this report. On January 1, 2020, Vornado elected to change its method of accounting for greenhouse gas emissions from the open to the financial control method, as outlined within the GHG protocol. The Company believes that the financial control method of emissions reporting more accurately allows for the tion of progress on goals and execution of strategy going forward and is reflective of the emissions where the Company has direct influence over energy procurement.
GRI 305: Emissions 2020	305-2	Scope 2 GHG Emissions	2020 Results, p. 10 of this report. All qualifiers for Disclosure 305-1 also apply to this disclosure.
	305-3	Scope 3 GHG Emissions	2020 Results, p. 10 of this report. All qualifilers for Disclosure 305-1 also apply to this disclosure. Vornado Scope 3 emissions are reported as defined by the GHG Protocol for cate downstream leased assets for direct meter tenant utilities. Vornado continues to evaluate all relevant Scope 3 categories.
	305-4	GHG emissions intensity	2020 Results, p. 9 of this report. Our denominator is the square footage as outlined in the boundaries found in the endnotes of this report.
	305-5	Reduction of GHG emissions	2020 Results, p. 10 of this report.
GRI 306: Effluents and Waste 2020	306-2	Waste by type and disposal method	2020 Results, p. 9 of this report. Waste disposal method has been directly confirmed by the organization through annual onsite visits to facilities. Information is provided by waste contractor on a monthly basis.

#### Reporting boundaries:

Intensities: 2020 intensities were calculated by dividing the energy consumption, water consumption, and GHG emissions from the properties owned by Vornado at December 31, 2020 by the total square footage of that same list of properties.

Energy and Water: 100% of all in-service square footage as of 12/31/2020, not listed as under development, with more than 20% WNO ownership. 0.4 2020 energy and water data was estimated at properties where actual consumption data was not available in time for the publication of this report. Due to observed reductions related to the COVID-19 pandemic, energy and to the consumer of the consum rear beginning with April 2020 through the most recent available month of actual data. Energy consumption was also adjusted for weather & leased occupancy normalization. Approximate y 7% of total energy consumption and 5% of total water consumption was estimated. Four scoperties have full year estimates for energy and water. The estimation consumption for these properties account for an additional 3% of total energy consumption and 3% of total water consumption. Wastic 84.16% of all in-service square footage as of 12/31/2020, not listed as und ment, with more than 20% Who ownership. Wasts generation in 2019 and 2020 ed by actual data from waste haulers. Excluded from waste data are properties w hauling is not directly managed by Vormado, such as high street retail and reside Construction & Demolition waste is excluded from the reporting boundary as it is extreordinary waste, which is in line with industry standards.

# GLOBAL REPORTING INITIATIVE (GRI) INDEX Continued 5

CDI 200-400- TODIC-SPECIEIC DISCI OSLIDES

GRI TOPICS	DISCLOSURE	DESCRIPTION	RESPONSE
SOCIAL			
	401-1	New employee hires and employee turnover	Social Results 2020, p. 26 of this report; BMS / Green Cleaning, p. 20 of this report.
GRI 401: Employment 2020	401-2	Full-time benefits not provided to temporary/part-time employees	Medical and prescription plan at low employee cost; Dental plan at no employee cost; Tax deferred 401(k) plan; Flexible spending accounts for medical and dependent care; Life two times an employee's annual compensation and at no employee cost, Paid time off for vacations, holidays, and personal days; Employee Assistance Program; Tuition reimburs professional reimbursement development plan
GRI 404: Training and Edu- cation 2020	404-1	Average hours of training per year per employee	BMS / Green Cleaning, p. 20 of this report.
GRI 405: Diversity and Equal Opportunity 2020	405-1	Diversity of governance bodies and employees	BMS / Green Cleaning, p. 20 of this report, and Our People, p. 26 of this report. As of December 31, 2020, our Board consisted of 33% women; 0% under age 30; 0% between ages 30 and 50, and 100% over 50 years old.
GRI 413: Local Communities 2020	413-1	Operations with local community engagement, impact assessments, and development programs	Environmental Results, p. 9 of this report  Energy Management Planning Cycle, p. 12 of this report  Tenant and Community Development, p. 18 of this report  Vornado Volunteers, p. 27 of this report  ESG Materiality Assessment, p. 29 of this report.
GRI 416: Customer Health and Safety 2020	416-1	Assessment of the health and safety impacts of product and service categories	Health and Wellness, pp. 16-17 of this report. BMS / Green Cleaning, p. 20-22 of this report.
GRI 419: Socioeconomic Compliance 2020	419-1	Non-compliance with laws and regulations in the social and economic area	None. We consider "significant" fines as those listed in Vornado Form 10-K for the fiscal year ended December 31, 2020, "Note 22: Contingencies" on p. 135.

## Deloitte.

### INDEPENDENT ACCOUNTANT'S REVIEW REPORT

Board of Trustees Vornado Realty Trust New York, NY Deloitte & Touche LLP 695 E. Main Street Stamford, CT 06901

Tel: +1 203 708 4000 Fax: +1 203 708 4797 www.deloitte.com

We have reviewed management of Vornado Realty Trust's assertion that the sustainability disclosures in the Global Reporting Initiative Index included within the accompanying Environmental, Social and Governance 2020 Report of Vornado Realty Trust (the "Company") for the year ended December 31, 2020 are presented in accordance with the Global Reporting Initiative Sustainability Reporting Standards under its Core option (the "GRI Standards – Core option"). The Company's management is responsible for its assertion. Our responsibility is to express a conclusion on management's assertion based on our review.

Our review was conducted in accordance with attestation standards established by the American Institute of Certified Public Accountants (AICPA) in AT-C section 105, Concepts Common to All Attestation Engagements, and AT-C section 210, Review Engagements. Those standards require that we plan and perform the review to obtain limited assurance about whether any material modifications should be made to management's assertion in order for it to be fairly stated. A review is substantially less in scope than an examination, the objective of which is to obtain reasonable assurance about whether management's assertion is fairly stated, in all material respects, in order to express an opinion. Accordingly, we do not express such an opinion. We believe that our review provides a reasonable basis for our conclusion.

In performing our review, we have complied with the independence and other ethical requirements of the Code of Professional Conduct issued by the AICPA. We applied the Statements on Quality Control Standards established by the AICPA and, accordingly, maintain a comprehensive system of quality control.

The procedures we performed were based on our professional judgment. In performing our review, we performed analytical procedures and inquiries, and for a selection of sustainability disclosures, reviewed supporting documentation in regard to the accuracy of the data in the sustainability disclosures.

The preparation of the sustainability disclosures in the Global Reporting Initiative Index included within the Environmental, Social and Governance 2020 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 includes estimates and assumptions that are subject to inherent measurement uncertainty resulting for example from accuracy and precision of greenhouse gas emission conversion factors. Obtaining sufficient, appropriate review evidence to support our conclusion does not reduce the inherent uncertainty in the amounts and metrics. The selection by management of different but acceptable measurement methods, input data, or assumptions may have resulted in materially different amounts or metrics being reported.

The Environmental, Social and Governance 2020 Report includes certain information relating to goals and progress against goals and such information is denoted by an asterisk (\*). Any information relating to goals and progress against goals were not subject to our review and, accordingly, we do not express a conclusion or any form of assurance on such information. Information for periods prior to December 31, 2018 were not subject to our review and, accordingly, we do not express a conclusion or any form of assurance on such information.

As discussed in the Global Reporting Initiative Index included within the Environmental, Social and Governance 2020 Report, the entity has elected to change its method of accounting for emissions reporting from the operational control method to the financial control method as of January 1, 2020. Our conclusion is not modified with respect to this matter.

Based on our review, we are not aware of any material modifications that should be made to management of Vornado Realty Trust's assertion that the sustainability disclosures in the Global Reporting Initiative Index included within the accompanying Environmental, Social and Governance 2020 Report of the Company for the year ended December 31, 2020 are presented in accordance with the GRI Standards – Core option, in order for it to be fairly stated.

Solvatte & Smith LLP

## APPENDIX A - SUSTAINABILITY ACCOUNTING STANDARDS BOARD (SASB)

Management of Vornado Realty Trust is responsible for the completeness, accuracy, and validity of the specified metrics included in Appendix A (the "specified metrics") of the Environmental, Social, and Governance 2020 Report of Vornado Realty Trust. Management is responsible for the collection, quantification, and presentation of the specified metrics and for the selection of the criteria, which management believes provide an objective basis for measuring and reporting on the specified metrics. Measurement of certain metrics includes estimates and assumptions that are subject to inherent measurement uncertainty resulting for example from precision of conversion and other factors, and assumptions used for the weather and occupancy

assumptions may have resulted in materially different amounts or metrics being reported. Management asserts that metrics included in Appendix A of the Environmental, Social, and Governance 2020 Report of Vornado Realty Trust ended December 31, 2020 are presented in accordance with the Sustainability Accounting Standards Board (SASB) Sustainability Accounting Standard.

#### ENERGY MANAGEMENT

CODE	ACCOUNTING METRIC	TOTAL	NEW YORK	theMART**	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
IF-RE-130a,2	Total energy consumed by portfolio area with data coverage.	2,957,779	2,434,053	221,350	133,809	168,567	Gigajoules (GJ)
IF-RE-130a.2	Percentage of total energy that is grid electricity, by property subsector."	14.88%	14.70%	12.73%	15.58%	19.79%	Percentage (%)
IF-RE-130a.2	Percentage of total energy that is renewable, by property subsector.	2.07%	0%	27.73%	0%	0%	Percentage (%)
IF-RE-130a.3	Like-for-like change in energy consumption of portfolio area with data coverage, by property subsector (see note on normalization).	-12.88%	-12.94%	-17.90%	-16.55%	-0.72%	Percentage (%)
IF-RE-130a.4	Percentage of eligible portfolio that has obtained an energy rating.	83.52%	81.01%	99.49%	87.08%	84.07%	Percentage (%) by floor
IF-RE-130a.4	Percentage of eligible portfolio that is certified to ENERGY STAR, by property subsector.	16.43%	18.99%	0%	12.92%	15.93%	Percentage (%) by floor

IF-RE-130A.5 DESCRIPTION OF HOW BUILDING ENERGY MANAGEMENT CONSIDERATIONS ARE INTEGRATED INTO PROPERTY INVESTMENT ANALYSIS AND OPERATIONAL STRATEGY

Vornado's Scope 1 and Scope 2 emissions come entirely from the operation of our buildings. Energy costs are often among the large controllable expenses on a property's balance sheet. For these reasons, we consider energy management to be an environmental a

fiscal priority.

In 2019, Vornado committed to making its buildings carbon neutral by the year 2030. This plan, known as Vision 2030, will combine various methods to reduce or offset all of the Scope 1 and Scope 2 emissions. A major component of Vision 2030 is an energy efficiency goa of 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 progress towards this goal at the end of 2019 measured 24%. Due mostly to the impacts of COVID-19 acting our office tenants to work remotely throughout 2020, our present energy consumption levels are 32% below 2009 levels! We will continue to measure our energy consumption and evaluate our targets and goals.

We incorporate energy management into our acquisition due diligence process. We tour properties in person and review capital and operating budgets, as well as utility bills, to determine opportunities to reduce energy consumption and demand. 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 building managers and operators are trained and supported by our centralized energy management team to employ sound and

Our building managers and operators are trained and supported by our centralized energy management team to employ sound and Our building managers and operators are trained on supported by our centralized neitgy management team to employ sound and responsible energy management across the portfolio. Our engineers perform in-house technical assessments, skin to a Level I audit, per guidance from the American Society of Heating, Refrigerating, and Air-Conditioning Engineers (AFRAE), as part of their ongoing preventative maintenance. We employ third-party engineering firms to complete technical assessments SHAE As SAFRAE Level I Energy Audits and Retrocommissioning at all New York City, Chicago, and San Francisco properties over 50,000 square feet, and update these assessments at least once every five years. In our NYC market, the Audits and Retrocommissiong reports are part of Local Law 87 and are subject to City review to ensure that all landord-controlled inventory is included in the scope, all low- and not screen recommended repairs are included, and that the assessments were completed by licensed professionals. Such technical assessments are the basis for our energy efficiency capital work. While total savings from these assessments is difficult to quantify, Vornado completes or ser all low- and no-cost repairs and recommended measures, as well as all energy conservation measures (ECMs) with a similar to 5 years. Vornado uses Environmental Management Systems (EMS) and Data Management Systems as part of our strategy nation on our technical assessments and our EMS can be found on the Energy Management Planning Cycle sect

report.
We uphold energy ratings, benchmarking, and certifications as important recognition tools and performance indicators. We that our tenants prefer buildings that have earned green building certifications and demonstrate competitive energy ratings ENERGY STAR score. We believe the benefits of such ratings and certifications outweigh the costs or resources associated them. Because our core business is the maintenance and operation of existing assets, we believe that certifications based or performance are more relevant to us than those based on performance-modeled design objectives.

Vorrado regularly evaluates opportunities to sinest inseemable energy. We believe that onsite renewable energy is the m reducing carbon emissions, but we are limited in this opportunity by the lack of physical space and high construction costs in for the dense urban markets where we are located. Off-site renewable energy can provide a virtual carbon offset to our Soc 2 emissions. We believe that our future investments in offsite renewable power should contribute to the progress of the clin the markets where we do business, and therefore seek to invest in offsite renewable resources that are within or close to the of our buildings. We have purchased renewable certificates to offset if which of our 2020 energy consumed at the MART por represents about 25% of annual electricity reported at the property or 2% of our company's total electricity consumption.

We also will plan to purchase carbon offsets between 2020 and 2030 to reduce our Scope 1 emissions, as well as the Scop generated from district steam. This will be the balance of emissions that has not been reduced by energy efficiency, enter purzation, or renewable energy procurement. Carbon offsets, like renewable power, should been localized benefit and where should align with those which are defined in the Climate Leadership and Community Protection Act (CLCPA) passed in New

Any Information relating to goals and progress against goals was not subject to Deloitte & Touche LLP's exam 
\*\*Divisions are presented as disclosed in Vornado form 10-K for the fiscal year ended December 31, 2020. 
\*\*Based on updated guidance from the SASB implementation Supplement. Greenhouse Gas Emissions and SAI 
\*\*Based on updated guidance from the SASB implementation Supplement. Greenhouse Gas Emissions and SAI 
\*\*On the Company of nation and, accordingly, Defoitte & Touche LLP does not express a conclusion, opinion, or any form of assurance on such info

## APPENDIX A - SASB Continued 1

CODE	ACCOUNTING METRIC	TOTAL		NEW YOR		theMAR		555 CAL	IFORNIA"	OTHER		UNIT OF MEASUR
IF-RE-140a.1	Water withdrawal data coverage as a percentage of total floor area, by property subsector.	100%		100%		100%		100%		100%		Percentage (%) by
IF-RE-140a.1	Percentage of floor area in regions with High or Extremely High Baseline Water Stress, each by property subsector.	7.86%		6.94%		0%		0%		46.42%		Percentage (%) by
IE DE 110- 0	Total water withdrawn in 2020, (1) by portfolio area with data coverage and (2) percentage in regions with High or	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	Thousand Cubic m
IF-RE-140a.2	Extremely High Baseline Water Stress, each by property subsector.		13.35%	1,805.59	10.78%	57.46	0%	39.71	0%	125.15	60.93%	Percentage (%)
IF-RE-140a.3	Like-for-like change in water withdrawn for portfolio area with data coverage, by property subsector.	-28.40%		-27.60%		-51.26%		-35.24%		-21.70%		Percentage (%)

IF-RE-140A.4. DESCRIPTION OF WATER MANAGEMENT RISKS AND DISCUSSION OF STRATEGIES AND PRACTICES TO MITIGATE THOSE RISKS

Vorrado's portfolio is concentrated in the dense urban cores of New York City, Chicago, and San Francisco. As such, Vornado's primary water consumption includes potable water consumption 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 FHAC, We do not consider water consumption 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 sever systems.

We face water-related environmental constraints and risks that are characteristic of urban places, and use publicly available maps, resources, and tools ogal in singists into the risks inherent to our propeties. Approximately 7% of our total properties operate in some regions with high or extremely high beseline water stress. As referenced in the SASB-issued Real Estate Sustainability Accounting Standard, 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 tocations are subject to medium to high water constraints. Our water constraints.

We also face 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 control the temperature of the water wed ischarge. We may incur additional costs to comply with future stormwater management regulation in our regions. We expect costs for water to continue to rise into the foreseeable future, which will increase our operating costs.

Our primary means of water risk mitigation is to reduce our water withdrawals and consumption. In 2019, we achieved our corporate goal by surpassing a 10% reduction of our water consumption below a 2016 base year. We reset this goal in 2020 to achieve an additional 10% by 2030. This target is

absolute in nature; our mechanisms in place for achieving this target include targeting reduction opportunities in our plumbing fixtures, or systems, our cleaning policies, and where applicable, our drip irrigation systems. Our restroom plumbing fixtures are retroit as part of rer which occur annually as part of our recurring capital improvement process. Our HVAC water efficiency program includes water reduction re-use efforts such as the re-use of steam condensate to our cooling tower, to reduce sever discharge; retrofitting colling towards and ensuring our chiller systems are serviced and maintained on an ongoing basis. Our lanitorial company cleans of water conservation efforts including gray water re-use for watering and cleaning, and purchase and use of water fleet equipment, in or redevelopment projects, we also mitigate our stormwater runoff with stormwater retention tanks that re-use storm water for irrigation a tower use, and green roofs and terraces to capture stormwater. Due primarily to COVID-19-related vecancies in 2020, we realized a reduced a reduced an experiment of the properties, which trac observed occupancy during the pandemic. Anomalies such as those observed through the pandemic are not counted towards our corp

Our primary risk of achieving our water consumption reduction target is our face to control over end users. Our tenants are not counted towards our corporation increases in occupancy, operating hours, or densification of existing spaces will cause consumption to increase. Diversity such as retail uses in food service or health and exercise facilities – could also cause an increase in consumption, despite our efforts to consumption.

We collaborate with our water and sewer authorities, city governments, and community boards when issues arise in water management sewer infrastructure concerns. We observe that our water conservation efforts have achieved tradeoffs in energy reduction but have not these tradeoffs. We continue to consider these tradeoffs and evaluate additional lifecycle impacts and tradeoffs, such as GHG emissions potential future opportunities to be realized.

<sup>1</sup> Any information relating to goals and progress against goals was not subject to Deloitte & Touche LLP's ret

\*\* Divisions are presented as disclosed in Yomado form 10-K for the fiscal year ended December 31, 2020.

## APPENDIX A - SASB Continued 2

### MANAGEMENT OF TENANT SUSTAINABILITY IMPACTS

CODE	ACCOUNTING METRIC	TOTAL		NEW YO	ORK	theMAR	т	555 CALI	FORNIA**	OTHER		UNIT OF MEA
IF-RE-410a.1	Percentage of new leases that contain a cost recovery clause for resource efficiency-related capital improvements	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	Percentage (%)
IF-RE-4108.1	and associated leased floor area, by property subsector."	80.34%	62.56%	78.59%	61.55%	90.40%	82.53%	100.00%	90.81%	0.00%	6.71%	(SF)
IF-RE-410a.2	Percentage of tenants that are separately metered or submetered for grid electricity consumption, by property subsector.	93.79%		95.20%		100%		99.13%		54.06%		Percentage (%) (SF)
IF-RE-410a.2	Percentage of tenants that are separately metered or submetered for water withdrawals, by property subsector.	14.80%		14.79%		3.66%		0%		53.70%		Percentage (%) (SF)

IF-RE-410A.3. DISCUSSION OF APPROACH TO MEASURING, INCENTIVIZING, AND IMPROVING SUSTAINABILITY IMPACTS OF TENANTS

At Vornado, tenants consume much of the electricity consumed in our properties, as is evidenced by the submetered 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 partners in reducing our cerbon 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.

participation in best practices in resource conservation.
While Vornado does not explicitly endorse third-party initiatives concerning green leases, our standard lease agreement includes several components that encourage tenant energy conservation. Across our office portfolio, we promote or require 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 submetered arrangement enables Vornado to shate energy and water consumption with our tenants on a monthly basis through the generation of the submeter bill. Tenants are billed transparently based on their actual and exclusive consumption as recorded on the submeter bill are Vornado's enorgery reduction tangets and links to Vornado's compost estainability 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 amontize that recovery over the useful life of the project. Because we have robust coverage of this clause across our entire leased portfolio, we have reported IFRE-4104 metrics above to represent percentage of total leases containing this cost recovery clause, as opposed to new leases only, as of December 31, 2020.

Where there is an economic or environmental benefit, our company will prioritize sustainability requirements in a tenant fit-out. Our tenant fit-out guidelines and boilerplate drawings include requirements for energy efficient lighting and HVAC equipment and water efficient plumbing fixtures. These requirements

are also outlined in our rules and regulations which are also included in the lease. We believe that our lease fosters a sustainably designer and an ongoing environment that encourages the tenant to both actively manage and measure their own carbon footprint.

and an ongoing environment that encourages the tenant to both actively manage and measure their own carbon footprint.

Beyond the lease, we distinguish ourselves with in-person engagement with our tenants on sustainability. Prior to the pandemic in 2020, v an annual tenant sustainability roundable, where we share best practices on energy, water, and waste reduction, and discuss corporate EI and regulatory updates. We collect information from our tenants that contributes to mandatory energy rating schemes, such as ENERGY'S Manager profiles. We encourage tenants to conside ENERGY STAR Tenants Spec recognition, and leverage ENERGATAR Tenastuse Hur identify low- and no-cost measures to reduce consumption. We met with tenants onsite to survey opportunities to save energy and water: tenants on recycling programs. We host energy reduction competitions with tenants to promote awareness and foster their participation.

The COVID-19 pandemic brought new challenges and opportunities to our tenant engagement. While we were unable to meet with our tenants on the same of the pandemic brought of their energy consumption to help them monitor their performance and encourage deeper efficiency while their employees worked from home. Lessons learned from this engagement can be applied beyond the pandemic to achieve permic reductions, which will reduce costs to tenants and contribute to our corporate efficiency goals.

We hold ourselves accountable and measure the success of our engagement. Success is measured in the observed reduction of energy tenant spaces, or from the square footage of space that our team reaches through our engagement program.

## APPENDIX A - SASB Continued 3

### CLIMATE CHANGE ADAPTATION

CODE	ACCOUNTING METRIC	TOTAL	NEW YORK	theMART**	555 CALIFORNIA**	OTHER	UNIT OF ME
IF-RE-450a.1	Area of properties located in FEMA Special Flood Hazard Areas or foreign equivalent, by property subsector.	1,867,000	1,051,000	0	0	816,000	Square Feet

#### IF-RE-450A.2 DESCRIPTION OF CLIMATE CHANGE RISK EXPOSURE ANALYSIS, DEGREE OF SYSTEMATIC PORTFOLIO EXPOSURE, AND STRATEGIES FOR MITIGATING RISKS

We identify and assess our exposure to climate change risk based on the 1.5° 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 has existing or pending legislation that would limit carbon emissions to align with a 15° 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 transition to a lower-carbon environment.

Our buildings are located in regions that have had recent history of extreme weather events, including but not limited to hurricanes and super-storms, nor'easters and ice storms, formadoes, wildfires, temperature extremes, and heavy precipitation events. Under the business-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 owner that while less than 6% of our property square footage is in areas designated as flood zones by FEMA, our coastal locations are susceptible to sea level rise (SLR). Various global warming scenarios could bring about differing amounts of SLR between now and the year 2100. Financial impacts under various warming scenarios include, but are not limited increases in insurance premiums; increases in energy costs; and increases in overall utility costs. ited to: increases in capital and operating 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 trenants' ability to do business in our buildings. This risk is not unique to Yomado, 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 on the Resilience and Adaptation section of this report. We train our operators in disaster risk management and emergency operating procedures. At the regions and utilities adapt by creating programs that improve resilience against climate-related impacts. Examples of such programs include New York City's OneNYC plan and Consolidated Edison's Storm Hardening Protection Plan in New York; Resilient Chicago, and Resilient SF and PG&Es Emergency Preparedness and Response program in San Francisco.

Like adaptive and preventative measures, proactive reduction of carbon emissions requires property-specific and regional efforts. We have developed property-specific carbon reduction tragets that address both landlord-and tenant-controlled energy consumption. These property-specific targets contribute to Vornado's company-wide Vision 2030, our carbon neutrality goal, and more specifically, our energy efficiency goal of 50% reduction by 2030, below a 2009 baseline!. Our progress towards these goals is measured in both energy and greenhouse gas

emissions. Our carbon reduction strategy prioritizes energy efficiency, while evaluating opportunities to incorporate renewable energy sourcing as a secondary measure. More details of our carbon emissions reduction can be found in the Environmental of this report. Our regions of New York, Chicago, and San Francisco each have municipally-driven carbon emissions reduction place. These programs combine strategies of absolute energy reduction, through efficiency mandates, as well as fossil fuel inte of utility-delivered energy. We discuss the intern and requirements of these programs with our property managers and engineer our tenants. They provide important framework to the GHG reduction goals we set for our properties.

our tenants. They provide important framework to the GHG reduction goals we set for our properties.

All carbon emission reduction strategies, whether property-specific or regional, present different risks and opportunities. Risks is unsuccessful investment in new technologies; costs to transition to lower emissions technology; increased pricing on GHG emit uncertainty in market signals such as utility costs or carbon taxes. Financial impacts of such risks which could include increased erating costs, and increased or unexpected shifts in energy costs. Opportunities, on the other hand, include reduction of energy consumption; use of public-sector incentives, such as utility rebates; diversification of energy resources; and adaptation of new Financial impacts of such opportunities include reduction of energy and/or operating costs; increased value of fixed assets; red to fossil fuel price increases; reduction of utility costs for our tenants; and various benefits to workforce management and plann all opportunities also include the reduction or elimination of burden from emerging carbon pricing or carbon tax mechanisms, as 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 of ENERGY STAR Portfolio Manager. We consider this requirement as an opportunity to measure the cerbon emissions from our primanage the reduction of those emissions on an ongoing basis.

manage the reduction of those emissions on an ongoing basis.

In 2019, NYC passed the Climate Mobilization Act (CMA), which contained several local laws to transition NYC to reduce greenh sions 40% by the year 2030 and 80% by the year 2030, below 2005 levels. Included in the CMA was Local Law 97, which calculaters for buildings on a per square foot basis and assigns limits to intensity beginning in 2024. The law further assigns penal per ton of carbon calculated in exceedance of the limits. We are planning energy efficiency strategies to avoid penalties at our and consider the cost for energy efficiency to be part of our transition costs to a low-carbon environment. We also consider per in the value stack of energy efficiency projects, and the penalty amount of \$268 per ton of carbon to be considered when maki allocation decisions.

Vornado Realty Trust has signed on as a supporter of the framework recommended by The Financial Stability Board's Taskforce Related Financial Disclosures (TCFD). We believe this framework will guide the real estate industry towards well-informed disclo-change risks and opportunities. As our internal and external discussions on climate risk and disclosure evolve, we plan to provir public disclosure.

emergy consumption, income as a deasonat Load.

Occupancy is normalized based on the following assumptions: 1) 50% of the Weather Normalized Energy's Baseload is adjusted for Occupancy is no field research that demonstrates that roughly half of the baseload is occupancy dependent. 2) 33% of the Weather Normalized Energy's Seaso Load is adjusted for Occupancy based on field research that demonstrates that a third of the seasonal load is occupancy dependent. 3) Quarterly occupancy rates are averaged for the year to calculate the current year and prior year annual occupancy rates.

### Deloitte.

### INDEPENDENT ACCOUNTANT'S REPORT

Board of Trustees Vornado Realty Trust New York, NY

We have examined management of Vornado Realty Trust's assertion that the following specified metrics included in Appendix A of the accompanying Environmental, Social and Governance 2020 Report (the "specified metrics") of Vornado Realty Trust (the "Company" or "Vornado") for the year ended December 31, 2020 are presented in accordance with the Sustainability Accounting Standards Board ("SASB") Real Estate Sustainability Accounting Standards

#### Energy management:

- IF-RE-130a.1: Energy consumption data coverage as a percentage of floor area, by property
  subsector.
- IF-RE-130a.2; (1) Total energy consumed by portfolio area with data coverage, (2) percentage of total energy that is grid electricity, by property subsector, and (3) percentage of total energy that is renewable, by property subsector
- IF-RE-130a.3: Like-for-like change in energy consumption of portfolio area with data coverage, by property subsector
- IF-RE-130a.4: Percentage of eligible portfolio that (1) has an energy rating and (2) is certified to ENERGY STAR, by property subsector
- IF-RE-130a.5: Description of how building energy management considerations are integrated into property investment analysis and operational strategy

#### Water management:

- IF-RE-140a.1: Water withdrawal data coverage as a percentage of (1) total floor area and, by property subsector, (2) percentage of floor area in regions with High or Extremely High Baseline Water Stress, each by property subsector
- IF-RE-140a.2: Total water withdrawn (f) by portfolio area with data coverage and (2) percentage
  in regions with High or Extremely High Baseline Water Stress, each by property subsector
- IF-RE-140a.3: Like-for-like percentage change in water withdrawn for portfolio area with data coverage, by property subsector
- IF-RE-140a.4: Description of water management risks and discussion of strategies and practices to militarte these risks.

### Climate change adaptation:

- IF-RE-450a.t: Area of properties located in FEMA Special Flood Hazard Areas or foreign equivalent, by property subsector
- IF-RE-450a.2: Description of climate change risk exposure analysis, degree of systematic portfolio exposure, and strategies for mitigating risks

### Management of Tenant Sustainability Impacts:

- IF-RE-410a.1: Percentage of new leases that contain a cost recovery clause for resource
  efficiency related capital improvements and associated leased floor area, by property
  subsector
- IF-RE-410a.2: Percentage of tenants that are separately metered or sub metered for grid electricity consumption and water withdrawals, by property subsector
- IF-RE-410a.3: Discussion of approach of measuring, incentivizing, and improving sustainability impacts of tenants

The Company's management is responsible for its assertion. Our responsibility is to express an opinion on management's assertion based on our examination.

Our examination was conducted in accordance with attestation standards established by the American Institute of Certified Public Accountants (AICPA) in AT-C section 105, Concepts Common to All Attestation Engagements, and AT-C section 205, Examination Engagements. Those standards require that we plan and perform the examination to obtain reasonable assurance about whether management's assertion is fairly stated, in all material respects. An examination involves performing procedures to obtain evidence about management's assertion. The nature, timing, and extent of the procedures selected depend on our judgment, including an assessment of the risks of material misstatement of management's assertion, 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.

In performing our examination, we have complied with the independence and other ethical requirements of the Code of Professional Conduct issued by the AICPA. We applied the Statements on Quality Control Standards established by the AICPA and, accordingly, maintain a comprehensive system of quality control.

ENVIRONMENTAL, SOCIAL & GOVERNA

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### INDEPENDENT ACCOUNTANT'S REPORT Continued

The preparation of the specified metrics in Appendix A of the Environmental, Social and Governance 2020 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 includes estimates and assumptions that are subject to inherent measurement uncertainty resulting for example from precision of greenhouse gas emission conversion factors, and assumptions used for the weather and occupancy normalization of energy data. Obtaining sufficient, appropriate evidence to support our opinion does not reduce the inherent uncertainty in the metrics. The selection by management of different but acceptable measurement methods, input data, or assumptions may have resulted in materially different amounts or metrics being reported.

Our examination was limited to those SASB Real Estate Sustainability Accounting Standard metrics specified by management in Appendix A of the Environmental, Social and Governance 2020 Report. All other information presented within the Environmental, Social and Governance 2020 Report was not examined by us and, accordingly, we do not express an opinion on such information.

Appendix A of the Environmental, Social and Governance 2020 Report includes certain information relating to goals and progress against goals and such information is denoted by an asterisk (\*) in Appendix A of the Environmental, Social and Governance 2020 Report. Any information relating to goals and progress against goals were not subject to our examination and, accordingly, we do not express an opinion or any form of assurance on such information.

In our opinion, management's assertion that the specified metrics included in Appendix A of the accompanying Environmental, Social and Governance 2020 Report for the year ended December 31, 2020 are presented in accordance with SASB Real Estate Sustainability Accounting Standard is fairly stated, in all material respects.

\*\*Addata + Amake LH\*\*

April 9, 2021

## 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 direc identified through the UNSDG 2030 Agenda for Sustainable Development. We will expand upon these dis when new metrics and programs develop within the recommended SDG framework.

UN GOAL TARGET UN GOAL INDICATOR



UN GOAL TARGET	UN GOAL INDICATOR	VNO RESPONSE
3.5 Strengthen the pre- vention and treatment of substance abuse, including narcotic drug abuse and harmful use of alcohol.	3.5.1 Coverage of treatment interven- tions (pharmacological, psychosocial, and rehabilitation and aftercare ser- vices) for substance abuse disorders	Vornado's Employee Assistance Program (EAP) and other wellness programs, referenced in the "Our People" 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 preventative screenings. More information can be found in the "Our People" section of this report.
3.a - Strengthen the implementation of the World Health Organization Framework Convention on Tobac- co Control in all countries, as appropriate	3.a.1 Age-standardized prevalence of current tobacco use among persons aged 15 years and older	To protect the health of the occupants, employees, and visitors to our building. Vornado transitioned all properties to tobacco-free and smoke-free environments in 2020. While the use of tobacco products and all smoking devices including electronic cigarettes and vaporizers had already 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.d1 International Health regulations (IHR) capacity and health emergency preparedness	Pertinent to 2020, Vornado's COVID-19 response and pandemic preparedness program are discussed at length in the Health and Wellness section of this report.



		Interes and the second second
5.1 End all forms of discrimi- nation against all women and girls everywhere	5.11 Whether or not legal frameworks are in place to promote, enforce, and monitor equality and non-discrimination on the basis of sex	Vornado Realty Trust is an equity employer, and strictly prohilination of all forms on the basethnicity, religion, color, nation gender, gender identity, sexuage, status as a protected vet as a qualified individual with a
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	28% of Vornado's managerial female. More information can the Social Results section of ti
6.4 By 2030, substantially increase water-use efficiency across all sectors and ensure		Vornado reduced water consi



4 By 2030, substantially crease water-use efficiency cross all sectors and ensure ustainable withdrawals and supply of freshwater to ddress water scarcity and ubstantially reduce the umber of people suffering	6.41 Change in water-use efficiency over time 6.4.2 level of water stress freshwater withdrawal	Vornado reduced water consi in 2020 from 2019 levels. Mur reduction was due to COVID- year, Vornado reduced water by 5.7% in 2019 from 2018.

<sup>\*</sup>This disclosure was not subject to Defoitte & Touche LLP's review and, accordingly, Defoitte & Touche LLP does not express a conclusion, opinion, or any form of assurance on such information.

## UN SUSTAINABLE DEVELOPMENT GOALS\* CONTINUED





UN GOAL TARGET	UN GOAL INDICATOR	In 2020 Vornado consumed 2,07% of energy from renewable resources. We plan to substantially increase our electricity supply from renewable resources in 2021 and beyond.	
7.2 By 2030, increase substantially the share of re- newable energy in the global energy mix	7.2.1 Renewable energy share in the total final energy consumption		
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 our energy intensity per square foot. In 2020 our energy intensity was 22.64 kWh / SF.	



UN GOAL TARGET	UN GOAL INDICATOR	VNO RESPONSE
11.2 Safe, affordable, accessi- ble and sustainable transport systems for all	11.2.1 Proportion of population that has convenient access to public transportation, by sex, age, and persons with disabilities	We measure our access to putation by the Transit Scores as properties, as determined by that assigns Walk Score, in 26 office properties received a T 00, indicating that 100% of on has convenient access to putation.



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 capa-
bilities. Indicator 9.4.1 - CO2
emissions per unit of value
added

We have measured our GHG emissions per square foot. Our 2020 GHG emissions intensity was .0057 MT CO2e / SF.



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 2020, Vornado diverted 69 waste from the landfill. Our d waste collected from about 7 in-service square footage.
tion, recycling and reuse		III-service square roots

