

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 Environmental, 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 includes estimates and assumptions that are subject to inherent measurement uncertainty resulting for example from

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
ORGANIZATIONAL 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 residential properties; The 1,700-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); 32.4% interest in Alexander’s, Inc. (“Alexander’s”) (NYSE: ALX), which owns seven properties in the greater New York metropolitan area, including 731 Lexington Avenue, the 1.3 million square foot Bloomberg, L.P. headquarters building; Signage throughout the Penn District and Times square; and Building Maintenance Services LLC (“BMS”) a wholly owned subsidiary, which provides cleaning and security services for our buildings and third parties; The 3.7 million square foot theMART in Chicago; A 70% controlling interest in 555 California Street, a three-building office complex in San Francisco’s financial district aggregating 1.8 million square feet; A 25.0% interest in Vornado Capital Partners, our real estate 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 general partner of, and 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	<u>ESG Governance</u> ; 35+ office properties in New York, Chicago, and San Francisco; 70+ retail properties in New York and surrounding regions, Miami Beach, Florida, and Annapolis, Maryland, 1,989 residential apartments in New York City, \$1.528 billion total revenues.
102-8	Information on employees and other workers	<u>BMS / Green Cleaning</u> and <u>Social Results 2020</u>
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 geographic 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 emissions and indoor air pollutants are among many of the environmental risks that we seek to avoid and mitigate.
102-12	External initiatives	<u>Vornado ESG 2020 Home</u>
102-13	Membership of associations	<u>Our Partnerships</u>

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GRI 102: GENERAL DISCLOSURES

DISCLOSURE	DESCRIPTION	RESPONSE
STRATEGY		
102-14	Statement from senior decision maker	From Our Chairman
ETHICS AND INTEGRITY		
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 understandable disclosure; 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 confidential information; 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		
102-18	Governance structure	ESG Governance
102-20	Executive-level responsibility for economic, environmental, and social topics	ESG Governance
102-32	Highest governance body's role in sustainability reporting	ESG Governance

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GRI 102: GENERAL DISCLOSURES Continued

DISCLOSURE	DESCRIPTION	RESPONSE
STAKEHOLDER ENGAGEMENT		
102-40	List of stakeholder groups	ESG Materiality Assessment
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
102-43	Approach to stakeholder engagement	ESG Materiality Assessment
102-44	Key topics and concerns raised	ESG Materiality Assessment
REPORTING PRACTICE		
102-45	Entities included in the consolidated financial statements	Vornado Realty Trust; BMS; Alexander's, Inc; JBG Smith
102-46	Defining report content and topic Boundaries	From Our Chairman & ESG Materiality Assessment
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 Communities; Management Succession Plan; Executive Compensation; Health and Wellness, including our COVID-19 pandemic response; Sustainable Development; Board Structure, Tenure, and Refreshment; Board Engagement on ESG; Community Impact, ESG Materiality Assessment
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 .

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GRI 103: MANAGEMENT APPROACH

DISCLOSURE	DESCRIPTION	RESPONSE				
103-1	Explanation of the material topic and its boundary	The ESG topics listed in GRI 102-47 are deemed material based on our recurring stakeholder engagement, which is described on Global Reporting Initiative (GRI) Index of this report. Reporting boundaries for environmental disclosures are found in the footnote at the end of this Global Reporting Initiative (GRI) Index . Reporting boundaries for GRI topics 401 and 405 are found in the footnotes on BMS / Green Cleaning and Social Results 2020 . Reporting boundaries for GRI topics 413 and 416 are the markets where we do business, primarily New York, Chicago, and San Francisco. Reporting boundary for GRI 419 is the extent of Vornado's business, which is referenced above in GRI 102-2.				
103-2	The management approach and its components		Policies/ Commitments	Goals and Targets	Responsibilities	Processes/ Projects /Programs
		GRI 201: Economic Performance	Vision 2030 Roadmap, Task Force on Climate-Related Financial Disclosures (TCFD)	Energy Efficiency Targets, Goals and Progress, Environmental Results	BMS / Green Cleaning, Our People, ESG Governance	Appendix A - SASB
		GRI 302: Energy	Vision 2030 Roadmap	Environmental Results		Energy Management Planning Cycle, Appendix A - SASB
		GRI 305: Emissions	Vision 2030 Roadmap	Energy Efficiency Targets, Goals and Progress, Environmental Results		Task Force on Climate-related Disclosures (TCFD), Resilience and Adaptation
		GRI 303: Water	Vision 2030 Roadmap, Goals and Progress	Energy Efficiency Targets, Goals and Progress, Environmental Results		Energy Management Planning Cycle, Appendix A - SASB
		GRI 306: Effluents & Waste	Vision 2030 Roadmap, Recycling			Energy Management Planning Cycle, Health and Wellness
		GRI 401: Employment	Our People			BMS / Green Cleaning, Our People including reference to grievance mechanism
		GRI 404: Training and education	From Our Chairman, Health and Wellness, Our People, BMS / Green Cleaning			Health and Wellness, Our People, BMS / Green Cleaning
		GRI 413: Local Communities	Vornado Volunteers, Our Partnerships			
		GRI 416: Customer Health and Safety	Health and Wellness, BMS / Green Cleaning			Health and Wellness, BMS / Green Cleaning
		GRI 405: Diversity and Equal Opportunity	Our People, Endnote, BMS / Green Cleaning, Social Results 2020			
		419: Socioeconomic Compliance	10-K FN 22 p. 114			
103-3	Evaluation of the management approach	Evaluation of climate-related topics: Environmental Results , and progress against environmental goals: Goals and Progress . Evaluation of management approach to social topics: Social Results .				

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GRI 200-400: TOPIC-SPECIFIC DISCLOSURES 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	Task Force on Climate-Related Financial Disclosures (TCFD) , and Appendix A - SASB .
ENVIRONMENTAL			
GRI 302: Energy 2020	302-1	Energy consumption within the organization	Environmental Results
	302-3	Building energy intensity	Environmental Results . Our denominator is the square footage as outlined in the boundaries found in the endnotes of this report.
	302-4	Reduction of energy consumption	Environmental Results . Energy converted from source unit of measure to megawatt hours (mWh).
GRI 303: Water 2020	303-1	Water withdrawal by source	Environmental Results . All water listed is municipal water supply. No other sources of consumed water are of material quantities. Water converted from source unit of measure to cubic meters.
GRI 305: Emissions 2020	305-1	Scope 1 GHG emissions	Environmental Results . Gases included are CO ₂ , CH ₄ , and N ₂ O. We utilized the latest available emission factors for each energy type and Global Warming Potential factors from the Fifth Assessment Report (AR5) published by Intergovernmental Panel on Climate Change to calculate our GHG inventory. No significant recalculations occurred. Consolidation approach as defined in the reporting boundary endnoted in this report. On January 1, 2020, Vornado elected to change its method of accounting for greenhouse gas emissions from the operational control 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 communication 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.
	305-2	Scope 2 GHG emissions	Environmental Results of this report. All qualifiers for Disclosure 305-1 also apply to this disclosure.
	305-3	Scope 3 GHG emissions	Environmental Results of this report. All qualifiers for Disclosure 305-1 also apply to this disclosure. Vornado Scope 3 emissions are reported as defined by the GHG Protocol for category 13, downstream leased assets for direct meter tenant utilities. Vornado continues to evaluate all relevant Scope 3 categories.
	305-4	GHG emissions intensity	Environmental Results . Our denominator is the square footage as outlined in the boundaries found in the endnotes of this report.
	305-5	Reduction of GHG emissions	Environmental Results
GRI 306: Effluents and Waste 2020	306-2	Waste by type and disposal method	Environmental Results . Waste disposal method has been directly confirmed by the organization through annual onsite visits to facilities. Information is provided by waste disposal 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% VNO ownership. Q4 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 water

were estimated by applying the weighted average monthly consumption variance from prior year beginning with April 2020 through the most recent available month of actual data. Energy consumption was also adjusted for weather & leased occupancy normalization. Approximately 7% of total energy consumption and 5% of total water consumption was estimated. Four properties 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.

Waste: 84.16% of all in-service square footage as of 12/31/2020, not listed as under development, with more than 20% VNO ownership. Waste generation in 2019 and 2020 is represented by actual data from waste haulers. Excluded from waste data are properties where waste hauling is not directly managed by Vornado, such as high street retail and residential properties. Construction & Demolition waste is excluded from the reporting boundary as it is considered extraordinary waste, which is in line with industry standards.

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GRI 200-400: TOPIC-SPECIFIC DISCLOSURES

GRI TOPICS	DISCLOSURE	DESCRIPTION	RESPONSE
SOCIAL			
GRI 401: Employment 2020	401-1	New employee hires and employee turnover	Social Results , BMS / Green Cleaning
	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 insurance at two times an employee's annual compensation and at no employee cost; Paid time off for vacations, holidays, and personal days; Employee Assistance Program; Tuition reimbursement and professional reimbursement development plan
GRI 404: Training and Education 2020	404-1	Average hours of training per year per employee	BMS / Green Cleaning
GRI 405: Diversity and Equal Opportunity 2020	405-1	Diversity of governance bodies and employees	BMS / Green Cleaning , and Our People 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 , Energy Management Planning Cycle , Vornado Volunteers , Tenant and Community Development , ESG Materiality Assessment
GRI 416: Customer Health and Safety 2020	416-1	Assessment of the health and safety impacts of product and service categories	Health and Wellness , BMS / Green Cleaning
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. 114