



Ventas, Inc.

GRESB GRESB Real Estate Assessment 2018

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ASPECT CHECKLIST

There are no errors or warnings for this assessment!

REPORTING CHARACTERISTICS

Reporting Characteristics

RC1

Values are reported in:

United States Dollar USD

RC2

What was the gross asset value (GAV) of the entity at the end of the reporting period in millions?

24667.84

RC3

Metrics are reported in:

m2

sq. ft.

RC4

What is the entity's core business?

Management of standing investments only (continue with RC5.1, RC5.2, RC6)

Management of standing investments and development of new construction and major renovation projects (continue with RC5.1, RC5.2, RC6, RC-NC1, RC-NC2, RC-NC3)

Development of new construction and major renovation projects (continue with GRESB Developer Assessment)

RC5.1

Describe the composition of the entity's standing investments portfolio during the reporting period:

Property Type	% of GAV	Number of Assets	Floor Area		% Indirectly Managed Assets
			ft ²	Floor Area Type	
Retail, High Street				.	
Retail, Shopping Center				.	
Retail, Warehouse				.	
Office				.	
Industrial, Distribution Warehouse				.	
Industrial, Business Parks				.	
Industrial, Manufacturing				.	
Residential, Multi-family				.	
Residential, Family Homes				.	
Senior Homes	49.3401182	803	54888675	Floor Area	100.0
Residential, Student Housing				.	
Hotel				.	
Healthcare	7.66813950	128	11004235.0	Floor Area	100.0
Medical Office	38.1131236	389	21642661	Floor Area	34.6561609
Lodging, Leisure & Recreation				.	
Data Centers				.	
Self-storage				.	
Parking (indoors)				.	
Laboratories	4.87861853	26	4708374.0	Floor Area	100.0
				.	
Totals:	100	1,346	92,243,945		

Note: The table above defines the scope of your 2018 GRESB submission and should include the total standing investments portfolio of the investible entity. Any development projects, as well as underdeveloped or vacant land, should be included in the reporting scope defined in RC-NC1 and/or RC-NC2. The reporting scope reported above should exclude cash or other non real estate assets owned by the entity.

RC5.2

Does the table above list the entity's entire standing investment portfolio as per the reporting requirements described above?

Yes

Provide additional context for the reporting boundaries (maximum 250 words)

No

RC6

Which countries/states are included in the entity's standing investment portfolio?

Country	% of GAV
United States	<input type="text" value="95"/>
Canada	<input type="text" value="4"/>
United Kingdom	<input type="text" value="1"/>
Total % GAV	100

REPORTING CHARACTERISTICS

New Construction & Major Renovations

RC-NC1.1

Describe the composition of the entity's new construction projects during the reporting period:

Property Type	In progress at the end of reporting period			Completed during reporting period		
	Number of Assets	Gross Floor Area	GAV* in millions	Number of Assets	Gross Floor Area	GAV* in millions
Retail, High Street	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Retail, Shopping Center	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Retail, Warehouse	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Office	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Industrial, Distribution Warehouse	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Industrial, Business Parks	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Industrial, Manufacturing	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Residential, Multi-family	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Residential, Family Homes	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Senior Homes	<input type="text" value="4"/>	<input type="text" value="88032"/>	<input type="text" value="170.908"/>	<input type="text" value="2"/>	<input type="text" value="165971"/>	<input type="text" value="44.79"/>
Residential, Student Housing	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Hotel	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Healthcare	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Medical Office	<input type="text" value="1"/>	<input type="text" value="250000"/>	<input type="text" value="168"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Lodging, Leisure & Recreation	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Data Centers	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Self-storage	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Parking (indoors)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Life Science	<input type="text" value="3"/>	<input type="text" value="722000"/>	<input type="text" value="270.1"/>	<input type="text" value="3"/>	<input type="text" value="397000"/>	<input type="text" value="240.365"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

* GAV either according to fair value or based on construction costs

Note: The table above defines the scope of your 2018 GRESB submission on development projects and should include new construction projects that are in progress at the end of reporting period, as well as projects that are completed during the reporting period. The reporting scope reported above should exclude cash or other non real estate assets owned by the entity.

RC-NC1.2

Does the table above list all the entity's new construction projects as per the reporting requirements described above?

Yes

Provide additional context for the reporting boundaries on new construction projects (maximum 250 words)

No

RC-NC2.1

Describe the composition of the entity's major renovation projects during the reporting period:

Property Type	In progress at the end of reporting period			Completed during reporting period		
	Number of Assets	Gross Floor Area	GAV* in millions	Number of Assets	Gross Floor Area	GAV* in millions
Retail, High Street	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Retail, Shopping Center	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Retail, Warehouse	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Office	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Industrial, Distribution Warehouse	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Industrial, Business Parks	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Industrial, Manufacturing	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Residential, Multi-family	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Residential, Family Homes	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Senior Homes	<input type="text" value="19"/>	<input type="text" value="1910213"/>	<input type="text" value="565.851"/>	<input type="text" value="7"/>	<input type="text" value="720146"/>	<input type="text" value="189.86"/>
Residential, Student Housing	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Hotel	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Healthcare	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

* GAV either according to fair value or based on construction costs

RC-NC2.1 (continued)

Property Type	In progress at the end of reporting period			Completed during reporting period		
	Number of Assets	Gross Floor Area	GAV* in millions	Number of Assets	Gross Floor Area	GAV* in millions
Medical Office	<input type="text" value="2"/>	<input type="text" value="610930"/>	<input type="text" value="107.836"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Lodging, Leisure & Recreation	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Data Centers	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Self-storage	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Parking (indoors)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

* GAV either according to fair value or based on construction costs

Note: The table above defines the scope of your 2018 GRESB submission on development projects and should include major renovation projects that are in progress at the end of reporting period, as well as projects that are completed during the reporting period. The reporting scope reported above should exclude cash or other non real estate assets owned by the entity.

RC-NC2.2

Does the table above list all the entity's major renovation projects as per the reporting requirements described above?

Yes

Provide additional context for the reporting boundaries on major renovation projects (maximum 250 words)

No

RC-NC3

Which countries/states are included in the entity's new construction and/or major renovation projects portfolio?

Country	% of GAV
United States	<input type="text" value="100"/>
Total % GAV	100

MANAGEMENT

Sustainability Objectives

MA1

Does the entity have specific ESG objectives?

Yes

The objectives relate to (multiple answers possible)

- General sustainability
- Environment
- Social
- Governance
- Health and well-being

The objectives are

- Fully integrated into the overall business strategy
- Partially integrated into the overall business strategy
- Not integrated into the overall business strategy

The objectives are

Publicly available

Please provide a hyperlink or a separate publicly available document

Provide hyperlink

<https://ventasreit.com/corporate-responsibility>

Indicate where the relevant information can be found

See text under Our Commitments - Relates to general sustainability, environmental, social and governance objectives, and how these are fully integrated into the overall business strategy through our ESG committee.

Provide hyperlink

<https://ventasreit.com/corporate-responsibility/sustainability>

Indicate where the relevant information can be found

See all - relates to environmental objects and targets

Provide hyperlink

<https://ventasreit.com/corporate-responsibility/social-responsibility>

Indicate where the relevant information can be found

See all - relates to social objectives, including health and well-being, also click through on Our People and Our Communities for additional detail

Provide hyperlink

<https://ventasreit.com/career-opportunities>

Indicate where the relevant information can be found

See text - relates to social objectives and health and well being (training and benefits)

Provide hyperlink

<https://ventasreit.com/corporate-responsibility/corporate-governance>

Indicate where the relevant information can be found

See all - relates to governance objectives; also click through to sub-pages listed along left side

Not publicly available

Communicate the objectives and explain how the objectives are integrated into the overall business strategy (maximum 250 words)

Ventas believes a strong, independent Board, commitment to sustainability, and socially responsible practices are essential to delivering shareholder value. We are committed to maintaining corporate governance practices that are in the best interests of stockholders. Our practices and policies promote fairness, alignment, accountability of management, transparency, risk management and delivery of consistent, superior returns. We follow many best governance practices; our dedication to our stockholders goes beyond rules-based compliance. Our approach is embedded in our culture; it is also borne out by our performance, employee relationships, investors, business partners, and external recognition. Ventas's commitment to sustainability is a key corporate value. As a leading owner of healthcare real estate, we support and apply measurable sustainability practices and standards. Sustainability practices are embedded in our acquisitions, asset management and property management processes. These practices create value for our shareholders through operating efficiencies, while preserving the planet. Sustainability provides opportunities to invest in our portfolio, improve our emissions footprint, reduce consumption, improve operating metrics, and expand our ENERGY STAR and LEED certifications. Ventas has short- and long-term (10-year) reduction targets for energy, GHG emissions, water, and waste; and progress is measured annually. Ventas seeks to maintain and improve our leadership position in ESG disclosures, performance, and reduce risks from bribery and corruption. Charitable giving is an important value; we believe we have a responsibility to improve the lives of others. Through the Ventas Charitable Foundation, we contribute to local and national organizations that are important to our employees and customers.

No

MA2

Does the organization have one or more persons responsible for implementing the ESG objectives referenced in MA1?

Yes

Select the persons responsible (multiple answers possible)

Dedicated employee(s) for whom sustainability is the core responsibility

Provide the details for the most senior of these employees

Name

Kelly Meissner
 Job title
 Director, Sustainability
 E-mail
 kmeissner@ventasreit.com
 LinkedIn profile (optional)
<https://www.linkedin.com/in/kelly-meissner-4a19603/>

Employee(s) for whom sustainability is among their responsibilities

Provide the details for the most senior of these employees

Name
 Debra A. Cafaro
 Job title
 Chairman of the Board and Chief Executive Officer
 E-mail
 dcafar@ventasreit.com
 LinkedIn profile (optional)

External consultants/manager

Name of the organization
 Goby, Inc.

Name of the main contact
 Chris Happ
 Job title
 CEO
 E-mail
 chapp@gobyinc.com
 LinkedIn profile (optional)
<https://www.linkedin.com/in/chris-happ-goby/>

Investment partners (co-investors/JV partners)

No

Not applicable

MANAGEMENT

Sustainability Decision Making

MA3

Does the organization have a sustainability taskforce or committee that is applicable to the entity?

Yes

Select the members of this taskforce or committee (multiple answers possible)

Asset managers

Board of Directors

External consultants

Name of the organization
 Goby, Inc.

Fund/portfolio managers

Property managers

Senior Management Team

Other

Other selected. Please describe

Legal, Acquisitions, Human Resources, Marketing, and Investor Relations team members

No

MA4

Does the organization have a senior decision-maker accountable for the entity's sustainability strategy?

Yes

Provide the details for the most senior decision-maker on sustainability issues

Name

Debra A. Cafaro

Job title

Chairman of the Board and Chief Executive Officer

E-mail

dcafarof@ventasreit.com

LinkedIn profile (optional)

The individual is part of

Board of Directors

Senior Management Team

Fund/portfolio managers

Investment Committee

Other

Please describe the process of informing the most senior decision-maker on the sustainability performance of the entity (maximum 250 words)

The most senior decision maker on sustainability performance is Ms. Debra A. Cafaro, Chairman and CEO of Ventas. Ms. Cafaro is a member of our ESG Steering Committee. The ESG Steering Committee meets at least quarterly. In addition, Ms. Cafaro receives regular email updates from the Director of Sustainability on Ventas sustainability and ESG initiatives. Ms. Cafaro is also consulted on a regular basis via ad hoc emails and discussions for guidance on sustainability memorandums. Specific topics include, for example: performance of any new sustainability projects or initiatives within the Ventas portfolio and discussions of performance against our short- and long-term environmental reduction targets. The ESG Committee actively monitors all adverse developments related to sustainability efforts and communicates with legal, acquisitions, and asset and risk management teams, as well as consolidating and improving our awareness, information collection and disclosure regarding environmental matters. Ventas also reviews the sustainability characteristics of its portfolio, including the number of ENERGY STAR and LEED properties in the Ventas portfolio, as part of our quarterly earnings reporting, in our annual report, ad hoc reporting updates, tracking of long-term targets, presentations and materials for the Board of Directors and various shareholder interactions.

No

MA5

Does the organization include ESG factors in the annual performance targets of the employees responsible for this entity?

Yes

Does performance on these targets have predetermined consequences?

Yes

Financial consequences

Non-financial consequences

No

Select the employees to whom these factors apply (multiple answers possible):

All employees

Board of Directors

Senior Management Team

Other

Other selected. Please describe

Director of sustainability

Document name
2017 Corporate Goals - Ventas Employees

Document date
06/02/2017

Document name
Director of Sustainability - 2017 Goals

Document date
15/03/2017

[VTR 2017 proxy.pdf](#)

Indicate where in the evidence the relevant information can be found

Executive Leadership Team - see "pdf pages 13-14 (document pages 5-6) - 2016 Executive Compensation Decisions" bold underlined section at the bottom of the page, 'Sustainability, Values, Reputation and Industry Leadership',

Show investors

No

POLICY AND DISCLOSURE

ESG Policies

PD1

Does the organization have a policy/policies in place, applicable to the entity level, that address(es) environmental issues?

Yes

Select all environmental issues included (multiple answers possible)

- Biodiversity and habitat
- Climate/climate change adaptation
- Energy consumption/management
- Environmental attributes of building materials
- GHG emissions/management
- Resilience
- Waste management
- Water consumption/management
- Other

[Lillibridge Sustainability Policy.pdf](#)

Indicate where in the evidence the relevant information can be found

All

Show investors

[Green Team Newsletters_2017.pdf](#)

Indicate where in the evidence the relevant information can be found

All

Show investors

[Environmental Sustainability_Ventas Policy-website.pdf](#)

Indicate where in the evidence the relevant information can be found

All

Show investors

[Ventas Quarterly Supplementals_2017.pdf](#)

Indicate where in the evidence the relevant information can be found

See Sustainability page (Q1 and Q2 supplementals) and ESG page (Q3 and Q4 supplementals) - pdf pages 23, 62, 103, 146

Show investors

No

PD2

Does the organization have a policy/policies in place, applicable to the entity level, that address(es) social issues?

Yes

Select all social issues included (multiple answers possible)

Child labor

Diversity and equal opportunity

Forced or compulsory labor

Occupational safety (for employees)

Asset level safety (for tenants)

Labor-management relationships

Employee performance and career development

Stakeholder engagement

Worker rights

Other

[Global Code of Ethics and Business Conduct.pdf](#)

Indicate where in the evidence the relevant information can be found

Child Labor & Forced or Compulsory Labor found on pdf page 14 / document page 11 paragraphs 6 and 7
 Occupational Safety found on pdf page 14 / document page 11 paragraph 6
 Diversity and Equal Opportunity found on pdf page 14 / document page 11 paragraph 1
 Labor Management Relationships found on pdf page 14 / document page 11 paragraph 4
 Worker Rights found on pdf page 13 / document page 10 last paragraph & pdf page 14 / document page 11 paragraphs 1 and 2

Show investors

[Feedback and Employee Networks.pdf](#)

Indicate where in the evidence the relevant information can be found

Employee performance and career development can be found on the page two of this document, paragraphs 1, 2 and 3

Show investors

[Career Opportunities.pdf](#)

Indicate where in the evidence the relevant information can be found

Employee performance and career development can be found on the page one of this document, paragraphs 1, 2 and 3

Show investors

[2017 Ventas Communications Framework.docx](#)

Indicate where in the evidence the relevant information can be found

Stakeholder engagement - see all

Show investors

Document name

Lillibridge Workplace Health and Safety Program Manual

Document date

15/02/2018

Document name

Tenant Emergency Procedures Manual

Document date

01/01/2015

No

PD3

Does the organization have a policy/policies in place, applicable to the entity level, that address(es) governance issues?

 Yes

Select all governance issues included (multiple answers possible)

 Bribery and corruption Data protection and privacy Employee remuneration Executive compensation Fiduciary duty Fraud Political contributions Shareholder rights Whistleblower protection Other[Global Code of Ethics and Business Conduct.pdf](#)

Indicate where in the evidence the relevant information can be found

Whistleblower policy found on pdf page 7 / document page 4, paragraphs 2 through 5
 Fraud found on pdf page 8 / document page 5, last paragraph; pdf page 9 / document page 6, paragraph 6 (item #4); pdf page 18 / document page 15, second to last paragraph

 Show investors[Global Anti-Corruption Policy.pdf](#)

Indicate where in the evidence the relevant information can be found

Bribery and corruption found on pdf pages 2 through 4 / document pages 1 through 3, all text
 Political Contributions found on pdf pages 3 through 5 / document pages 2 through 4, Section IV - Specific Guidelines on Giving to Government Officials, parts A through C

 Show investors[Vetnas 2018 Proxy Statement.pdf](#)

Indicate where in the evidence the relevant information can be found

Executive Compensation found on PDF pages 30 through 71 / document pages 24 through 65, all text

 Show investors[Ventas Employee Handbook 2017.pdf](#)

Indicate where in the evidence the relevant information can be found

Employee Remuneration found on pdf page 32 / document page 28, paragraph 1 through 9 (Pay Policies)

 Show investors[Guidelines on Governance 2018.pdf](#)

Indicate where in the evidence the relevant information can be found

Fiduciary duty found on PDF and document page 11, last paragraph; page 17, paragraph 1; page 18, item #10 and #11

 Show investors[VTR By-laws.pdf](#)

Indicate where in the evidence the relevant information can be found

Shareholder rights found on pdf and document page 7-8, last paragraph and first paragraph (section C. (4) a and b)

Show investors

[Ventas Information Security Guidelines.pdf](#)

Indicate where in the evidence the relevant information can be found

Data Protection and Privacy found in all pages of this document, summary on page 1

Show investors

No

PD4

Does the organization monitor diversity indicator(s) for its governance bodies (i.e. C-suite, Board of Directors, Management Committees)?

Yes

Select all diversity metrics (multiple answers possible)

Age group distribution

Board tenure

Diversity of socioeconomic background

Gender ratio

International background

Racial diversity

Provide additional context for the response (maximum 250 words)

The Ventas Board Nominating Committee considers different perspectives, skill sets, education, ages, genders, ethnic origins and business experience in its annual nomination process. In general, the Nominating Committee seeks to include on our Board a complementary mix of individuals with diverse backgrounds, knowledge and viewpoints reflecting the broad set of challenges that the Board confronts without representing any particular interest group or constituency.

The Nominating Committee regularly reviews the size and composition of the Board on a holistic basis, utilizing a rigorous matrix of identified skills, experiences and other criteria for maintaining an excellent, independent Board in light of our changing requirements and seeks nominees who, taken together as a group, possess the skills, diversity and expertise appropriate for an effective Board.

The Nominating Committee also monitors the average tenure of our Board members and seeks to achieve a variety of director tenures in order to benefit from long-tenured directors' institutional knowledge and newly-elected directors' fresh perspectives. During 2015 and 2016, the Nominating Committee and the Board has taken the opportunity to refresh the composition of the Board, with our two longest-tenured directors departing from the Board and being replaced by Roxanne M. Martino and Walter C. Rakowich in 2016.

No

POLICY AND DISCLOSURE

Sustainability Disclosure

PD5.1

Does the organization disclose its ESG actions and/or performance?

 Yes (multiple answers possible)

 Section in Annual Report

Select the applicable reporting level

 Entity

 Investment manager

 Group

Provide hyperlink

https://ventasreit.com/sites/default/files/2017_VTR_AnnualReport.pdf

Indicate where the relevant information can be found

See page 3, Letter to Stakeholders, second paragraph
 See page 4, disclosures on charitable contributions, LEED and Energy Star certifications, gender diversity, named to Dow Jones Sustainability Index

Aligned with [GRI Standards, 2016](#)
 Stand-alone sustainability report(s)

Select the applicable reporting level

 Entity

 Investment manager

 Group

Provide hyperlink

https://ventasreit.com/corporate-responsibility/sustainability/accountability_reporting

Indicate where the relevant information can be found

See all links on this page. Note - the data in each report (i.e., the reporting year) is the year prior to the report year. For example, the 2017 reports contain our 2016 calendar year data.

Aligned with [GRI Standards, 2016](#)
 Integrated Report

 Dedicated section on corporate website

Select the applicable reporting level

 Entity

 Investment manager

 Group

Provide hyperlink

<https://ventasreit.com/corporate-responsibility>

Indicate where the relevant information can be found

All - see also all sub-pages on left side menu (Environmental Sustainability, Social Responsibility, Corporate Governance)

Section in entity reporting to investors

Aligned with

[Ventas Quarterly Supplementals 2017.pdf](#)

Indicate where in the evidence the relevant information can be found

Show investors

Other

Other selected. Please describe

Select the applicable reporting level

Entity

Investment manager

Group

[VTR_Investor_Presentation_June_2018_vF.PDF](#)

Indicate where in the evidence the relevant information can be found

Show investors

Aligned with

Other selected. Please describe:

No

PD5.2

Does the organization have an independent third party review of its ESG disclosure?

Yes

Select all applicable options (multiple answers possible, selections must match answers in PD5.1)

Section in Annual Report

Externally checked by

Externally verified by

Goby, Inc.

using

Externally assured by

Stand-alone sustainability report

Externally checked by

Externally verified by

Goby, Inc.

using

Externally assured by

Integrated Report

Section in entity reporting to investors

Externally checked by

Externally verified by

Goby, Inc.

using

Externally assured by

Other

Other selected. Please describe

Externally checked by

Externally verified by

Goby, Inc.

using

Externally assured by

No

Not applicable

PD6

Has the organization made a commitment to ESG leadership standards or groups that applies to investments in this entity?

Yes

No

PD7.1

Does the entity have a process to communicate about ESG-related misconduct, penalties, incidents or accidents?

Yes

The entity would communicate misconduct, penalties, incidents or accidents to:

Investors

Public

Other stakeholders

Other selected. Please describe

Employees

Describe the process (maximum 250 words)

Ventas escalates any material ESG-related misconduct or incidents to its Board of Directors. After receiving guidance from the Board, Ventas would fulfill any SEC disclosure obligations, communicate any such misconduct or incidents to its employees and issue a press release to alert the public. Ventas's executives and investor relations and corporate communications personnel would make themselves available to respond to any inquiries from employees, investors and other stakeholders.

No

PD7.2

Has the entity been involved in any ESG-related misconduct, penalties, incidents or accidents in the reporting year?

Yes

No

RISKS AND OPPORTUNITIES

Governance

R01

Does the organization have systems and procedures in place to facilitate effective implementation of the governance policy/policies in PD3?

 Yes

Select all applicable options (multiple answers possible)

 Investment due diligence process Training related to governance risks for employees (multiple answers possible) Regular follow-ups When an employee joins the organization Whistle-blower mechanism Other

Document name

Investment Execution Checklist and Due Diligence Request List

Document date

25/07/2016

Document name

New Hire Onboarding Training and Checklist

Document date

01/01/2016

[Integrity and Compliance Training Schedule_2018.pdf](#)

Indicate where in the evidence the relevant information can be found

All

 Show investors[Global Code of Ethics and Business Conduct.pdf](#)

Indicate where in the evidence the relevant information can be found

Throughout

 Show investors No Not applicable

R02

Did the entity perform entity-level governance and/or social risk assessments within the last three years?

 Yes

Select all issues included (multiple answers possible)

 Bribery and corruption Child labor Diversity and equal opportunity Executive compensation

Forced or compulsory labor

Labor-management relationships

Shareholder rights

Worker rights

Other

[global_code_of_ethics_and_business_conduct-effective_032216.pdf](#)

Indicate where in the evidence the relevant information can be found

Throughout

Show investors

Document name

Enterprise Risk Management - Heat Map By Risk Category

Document date

31/12/2017

[2017_VTR_10K.pdf](#)

Indicate where in the evidence the relevant information can be found

See Item 1A. Risk Factors, 20-37 [pdf] / 15-32 [document]

Show investors

[Nominating-and-corporate-governance-committee-charter - VTR.pdf](#)

Indicate where in the evidence the relevant information can be found

Shareholder rights found on bottom of pdf & document page 3, paragraphs 2 and 6 discusses the Committee reviewing our charter and bylaws

Show investors

[VTR_2018_Proxy_Statement.pdf](#)

Indicate where in the evidence the relevant information can be found

Executive Compensation & Risk Assessment, pdf page 26 , document page 20, "As part of its risk oversight role, our Compensation Committee annually considers whether our compensation policies and practices for all employees, including our executive officers, create risks that are reasonably likely to have a material adverse effect on our company. In conducting its risk assessment in 2017, the Compensation Committee reviewed a report prepared by management regarding our existing compensation plans and programs, including our severance and change-in-control arrangements, in the context of our business risk environment."

Diversity found on pdf page 19 / document page 13," The Nominating Committee considers different perspectives, skill sets, education, ages, genders, ethnic origins and business experience in its annual nomination process. In general, the Nominating Committee seeks to include on our Board a complementary mix of individuals with diverse backgrounds, knowledge and viewpoints reflecting the broad set of challenges that the Board confronts without representing any particular interest group or constituency. The Nominating Committee regularly reviews the size and composition of the Board on a holistic basis, utilizing a rigorous matrix of identified skills, experiences and other criteria for maintaining an excellent, independent Board in light of our changing requirements and seeks nominees who, taken together as a group, possess the skills, diversity and expertise appropriate for an effective Board.

The Nominating Committee also monitors the average tenure of our Board members and seeks to achieve a variety of director tenures in order to benefit from long-tenured directors' institutional knowledge and newly-elected directors' fresh perspectives."

Show investors

No

RISKS AND OPPORTUNITIES
Environmental & Social

R03.1

Does the entity perform asset-level environmental and/or social risk assessments as a standard part of its due diligence process for new acquisitions?

Yes

Select all issues included (multiple answers possible)

- Building safety and materials
- Climate change adaptation
- Contamination
- Energy efficiency
- Energy supply
- Flooding
- GHG emissions
- Health and well-being
- Indoor environmental quality
- Natural hazards
- Regulatory
- Resilience
- Socio-economic
- Transportation
- Water efficiency
- Waste management
- Water supply
- Other

[VTR - Environmental Considerations Acquisitions 2015.pdf](#)

Indicate where in the evidence the relevant information can be found

Page 1

Show investors

[Ventas Climate Risk Management Process.pdf](#)

Indicate where in the evidence the relevant information can be found

All - addresses climate change adaptation, contamination, energy efficiency, energy supply, flooding, GHG emissions, indoor environmental quality, natural hazards, resilience, water efficiency, water supply

Show investors

No

Not applicable

R03.2

Has the entity performed asset-level environmental and/or social risk assessments of its standing investments during the last three years?

Yes

Select all issues included (multiple answers possible)

Building safety and materials

Biodiversity

Climate change adaptation

Percentage of portfolio covered

Contamination

Percentage of portfolio covered

Energy efficiency

Percentage of portfolio covered

Energy supply

Percentage of portfolio covered

Flooding

Percentage of portfolio covered

GHG emissions

Percentage of portfolio covered

Health and well-being

Indoor environmental quality

Natural hazards

Percentage of portfolio covered

Regulatory

Percentage of portfolio covered

Resilience

Percentage of portfolio covered

Socio-economic

Transportation

Water efficiency

Percentage of portfolio covered

Waste management

Percentage of portfolio covered

Water supply

Other

The risk assessment is aligned with a third party standard

Yes

ISO 31000

Other

Other selected. Please describe

Environmental assessments: The Climate Registry's General Verification Protocol (also known as California Climate Action Registry (CCAR)); Regulatory assessments: Pro

No

Describe how the outcomes of the sustainability risk assessments are used in order to mitigate the selected risks (maximum 250 words)

Ventas regularly identifies and assesses various risk exposure items related to sustainability and climate change with the assistance of our third-party energy partners and engineers by evaluating property and portfolio consumption and spending to identify performance outliers. This assessment includes i) type of potential impact (increased operational cost, increased capital expenditure expenses, reduction in demand for product or services) ii) time-frame, iii) magnitude and estimated financial implications, iv) management method and v) cost of management.

To mitigate these risks, we work with our consultants to gain efficiencies in usage and purchasing, create better budgets for utility spending and consumption and identify investment opportunities in sustainable projects.

On an asset level, Ventas commissions property condition reports and Phase I environmental surveys for all properties prior to acquisition and on a recurring cycle as part of asset and risk management processes. This ensures that known condition deficiencies and updates to flood, seismic and other surveys are identified and addressed in a timely manner. When these reports identify risks, we proactively implement solutions to mitigate risks, such as adding seismic gas shutoff valves in high-risk areas or evaluating moving critical building infrastructure (switchgear, generators) to higher elevations. In addition, property condition inspections are performed by a leading property loss control engineering insurer. Recommendations for property improvements are prioritized by the insurer and presented to and reviewed by the Ventas asset management team.

No

Not applicable

R04

Has the entity performed technical building assessments during the last four years to identify improvement opportunities within the portfolio?

Yes

Select applicable options (multiple answers possible)

Energy Efficiency

In-house assessment

External assessment

Percentage of portfolio covered

55

Name of the organization

Partner Engineering and Science, Inc.

Green Generation Solutions

Greenleaf Energy Solutions

[Lillibridge Portfolio Energy Efficiency Program Scorecard and Benchmarking Scope.pdf](#)

Indicate where in the evidence the relevant information can be found

All (external assessment)

Show investors

Water Efficiency

In-house assessment

Percentage of portfolio covered

26

External assessment

Percentage of portfolio covered

26

Name of the organization

Hydropoint

[Lillibridge Green Team Newsletter - Apr 2015.pdf](#)

Indicate where in the evidence the relevant information can be found

Throughout (in house assessment)

Show investors

[HydroAnalysis Sunrise Canyon Crest.pptx](#)

Indicate where in the evidence the relevant information can be found

All (example of typical external water assessment)

Show investors

Waste Management

In-house assessment

External assessment

Percentage of portfolio covered

Name of the organization

Refuse Specialists

Document name

Master Services Agreement with Refuse Specialists

Document date

01/11/2015

Health & Well-being

In-house assessment

Percentage of portfolio covered

External assessment

Document name

Annual Resident Surveys (Atria and Sunrise)

Document date

01/01/2017

No

Not applicable

R05

Has the entity implemented measures during the last four years to improve the energy efficiency of the portfolio?

Yes

Describe the measures using the table below.

Category	Measure	% portfolio covered during the last 4 years	% whole portfolio covered	Estimated savings (MWh) (optional)	Target ROI (%) (optional)	Describe implemented measure (measure, payback period, property type, scope, link to MA1 objectives and P15 targets) (maximum 150 words)
Systems commissioning or retro-commissioning	Retro Commissioning	0%, <25%	0%, <25%	2002	20	In 2015 to 2017, Ventas, through its Lillibridge subsidiary, conducted retrocommissioning s
Building automation system upgrades/replacements	Building automation sys	0%, <25%	0%, <25%	3277	18	Building automation systems (BAS) have been implemented at several of Ventas's medical
Installation of high-efficiency equipment and appliances	Energy Efficient Appliance	≥50%, <75%	≥50%, <75%	47530	13	Ventas is committed to the use of high efficiency equipment and appliances, such as ENER
Building energy management systems upgrades/replacements	Energy Management Sys	0%, <25%	0%, <25%	1488	23	uilding energy management systems (BMS) have been implemented at several of Ventas's
Wall/roof insulation	Wall / Roof Insulation	0%, <25%	0%, <25%	17737	15	Over the past four years, Ventas has installed new roofs and/or wall insulation at over 6% c
Window replacements	Window Replacement	0%, <25%	0%, <25%	345	7	Window replacements have been implemented at 16 of Ventas's senior housing and medica
Installation of high-efficiency equipment and appliances	Efficient lighting (primar	≥25%, <50%	≥25%, <50%	39155	28	Ventas is installing energy efficient lighting (primarily LED) in its medical office, healthcare

No

Not applicable

R06

Has the entity implemented measures during the last four years to improve the water efficiency of the portfolio?

Yes

Describe the measures using the table below.

Category	Measure	% portfolio covered during the last 4 years	% whole portfolio covered	Estimated savings (m ³) (optional)	Target ROI (%) (optional)	Describe implemented measure (measure, payback period, property type, scope, link to MA1 objectives and P15 targets) (maximum 150 words)
Drip/smart irrigation	Efficient Irrigation	0%, <25%	0%, <25%	38998	23	Water efficient irrigation systems have been implemented at more than 70 Ventas senior h
Drought tolerant/native landscaping	Drought tolerant & nativ	0%, <25%	0%, <25%	3444	23	Drought-tolerant and native landscaping has been implemented at several Ventas medical
High-efficiency/dry fixtures	High efficiency / Dry fixt	0%, <25%	0%, <25%	38628	47	High-efficiency water fixtures, such as water aerators, low-flow toilets and low-flow showe

No

Not applicable

R07

Has the entity implemented measures during the last four years to improve the waste management of the portfolio?

Yes

Describe the measures using the table below.

Category	Measure	% portfolio covered during the last 4 years	% whole portfolio covered	Estimated savings (tonnes) (optional)	Target ROI (%) (optional)	Describe implemented measure (measure, payback period, property type, scope, link to MA1 objectives and P15 targets) (maximum 150 words)
Ongoing waste performance monitoring	Ongoing Waste Performance	≥25%, <50%	≥25%, <50%			Waste data is collected and tracked for 44% of the Ventas portfolio, primarily in our senior housing
Recycling program	Recycling program	≥25%, <50%	≥25%, <50%			Recycling programs have been implemented in 30% of Ventas's portfolio, including medical facilities
Composting landscape and/or food waste	Composting program	0%, <25%	0%, <25%			Composting programs have been implemented in several Ventas senior housing communities

No

Not applicable

MONITORING AND EMS

Environmental Management Systems

ME1

Does the organization have an Environmental Management System (EMS) that applies to the entity level?

Yes

The EMS is aligned with a standard:

ISO 14001

EMAS (EU Eco-Management and Audit Scheme)

Other

The EMS is externally certified by an independent third party

The EMS is not aligned with a standard nor certified externally

[ME1_ME2 EMS_DMS Alignment_2018 - Ventas.pdf](#)

Indicate where in the evidence the relevant information can be found

The evidence can be found on page 17 of the uploaded PDF file

Show investors

No

MONITORING AND EMS

Data Management Systems

ME2

Does the organization have a data management system in place that applies to the entity level?

Yes

Select one of the following

Developed internally

Bespoke (custom) internal system developed by a third party

External system

Name of the system
 Various: Goby platform, FM Global platform, Point Click Care

Name of the organization
 FM Global

PointClickCare

Goby, Inc.

Select the performance indicators included (multiple answers possible)

Energy consumption

Percentage of portfolio covered
 100

GHG emissions/management

Percentage of portfolio covered

Building safety

Indoor environmental quality

Percentage of portfolio covered

Resilience

Percentage of portfolio covered

Waste streams/management

Percentage of portfolio covered

Water

Percentage of portfolio covered

Other

[PointClickCare_Corporate_Brochure.pdf](#)

Indicate where in the evidence the relevant information can be found

All (applies to Health and well-being)

Show investors

[FM.Global_example_communication_resilience.pdf](#)

Indicate where in the evidence the relevant information can be found

All (applies to Resilience)

Show investors

[ME1_ME2 EMS_DMS Alignment_2018 - Ventas.pdf](#)

Indicate where in the evidence the relevant information can be found

All (applies to Energy Consumption, GHG emissions, Indoor environmental quality, waste streams, and water)

Show investors

No

MONITORING AND EMS

Monitoring Consumption

ME3

Does the entity monitor the energy consumption of the portfolio?

Yes

Percentage of whole portfolio covered by floor area

Type of monitoring (multiple answers possible)

Automatic meter readings

Based on invoices

Percentage of the whole portfolio covered by floor area

100

Manual-visual readings

Provided by the tenant

Other

No

Not applicable

ME4

Does the entity monitor the water consumption of the portfolio?

Yes

Percentage of whole portfolio covered by floor area

100

Type of monitoring (multiple answers possible)

Automatic meter readings

Based on invoices

Percentage of the whole portfolio covered by floor area

100

Manual-visual readings

Provided by the tenant

Other

No

Not applicable

ME5

Does the entity monitor the waste production of the portfolio?

Yes

Percentage of whole portfolio covered by floor area

100

Type of monitoring (multiple answers possible)

Internal tracking

Provided by haulers

Percentage of the whole portfolio covered by floor area

100

Provided by the tenant

Other

Explain (a) the calculation methodology for percentage of whole portfolio covered, and (b) limitations and assumptions made in the calculation (maximum 250 words)

a) Percentage of the portfolio covered by floor area is calculated by summing the floor area for each property where waste data is tracked, and dividing by the total portfolio floor area.
b) There are no limitations or assumptions made in this calculation.

No

Not applicable

PERFORMANCE INDICATORS

Senior Homes › Energy Consumption

PI1.0

Does the entity collect energy consumption data for Senior Homes?

Yes

Please provide the TOTAL floor area of your portfolio for this property type, regardless of energy supply and energy data availability and complete PI1.1 - PI1.3 for this property type.

Managed Assets	Floor area (ft ²)
Common Areas	<input type="text" value="0"/>
Tenant Space	<input type="text" value="0"/>
Tenant Space, Energy Purchased by Landlord	<input type="text" value="0"/>
Tenant Space, Energy Purchased by Tenant	<input type="text" value="0"/>
Whole Building	<input type="text" value="0"/>
Shared Services	<input type="text" value="0"/>
Indirectly Managed Assets	Floor area (ft ²)
Whole Building	<input type="text" value="54888675"/>

Will the energy consumption data of this property type be reported at the asset level?

Yes

Please use the [GRESB Asset Portal](#) to complete this Indicator.

No

No

PI1.1

Energy consumption for Senior Homes

Report absolute values and like-for-like consumption for 2016 and 2017. All assets in the whole portfolio for Senior Homes should be included.

To make sure you insert data in the correct section of the table, check the definition of "Managed Assets" and "Indirectly Managed Assets".

Only use Whole Building if no breakdown of data is possible between Base Building and Tenant Space. Additionally, if consumption cannot be separated between Common Areas and Shared Services/ Central Plant, provide both in Shared Services/Central Plant.

Managed Assets Base Building		Absolute Consumption				Like-for-like Consumption			
		2016	2017		2016	2017		Like-for-like Change	
		Consumption (MWh)	Consumption (MWh)	Data coverage (ft ²)	Maximum coverage (ft ²)	Consumption (MWh)	Consumption (MWh)	Data coverage (ft ²)	%
1	Common areas	Fuels	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
2		District Heating & Cooling	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
3		Electricity	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
4	Shared services / central plant	Fuels	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
5		District Heating & Cooling	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
6		Electricity	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
7	Outdoor/Exterior areas / Parking	Fuels	<input type="text"/>		N/A	N/A	<input type="text"/>	<input type="text"/>	N/A
8		Electricity	<input type="text"/>		N/A	N/A	<input type="text"/>	<input type="text"/>	N/A
9	Total energy consumption of Base Building		0	0	N/A	N/A	0	0	N/A

Managed Assets Tenant space		Absolute Consumption				Like-for-like Consumption			
		2016	2017		2016	2017		Like-for-like Change	
		Consumption (MWh)	Consumption (MWh)	Data coverage (ft ²)	Maximum coverage (ft ²)	Consumption (MWh)	Consumption (MWh)	Data coverage (ft ²)	%
10	Purchased by landlord	Fuels	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
11		District Heating & Cooling	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
12		Electricity	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
13	Purchased by tenant	Fuels	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
14		District Heating & Cooling	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
15		Electricity	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
16	Total energy consumption of Tenant Areas		0	0	N/A	N/A	0	0	N/A

Managed Assets Whole building		Absolute Consumption				Like-for-like Consumption			
		2016	2017		2016	2017		Like-for-like Change	
		Consumption (MWh)	Consumption (MWh)	Data coverage (ft ²)	Maximum coverage (ft ²)	Consumption (MWh)	Consumption (MWh)	Data coverage (ft ²)	%
17	Combined consumption common areas + tenant space	Fuels							
18		District Heating & Cooling							
19		Electricity							
20	Total energy consumption of Whole Building		0	0	N/A	N/A	0	0	N/A
21	Total energy consumption of Managed Assets		0	0	N/A	N/A	0	0	N/A

Indirectly Managed Assets Whole building		Absolute Consumption				Like-for-like Consumption				
		2016	2017		2016	2017		Like-for-like Change		
		Consumption (MWh)	Consumption (MWh)	Data coverage (ft ²)	Maximum coverage (ft ²)	Consumption (MWh)	Consumption (MWh)	Data coverage (ft ²)	%	
22	Tenant space	Fuels	366486.932	352926.692	38417215.0	39280311.0	160935.808	142284.334	17561074.0	-11.59%
23		District Heating & Cooling								
24		Electricity	486225.966	492956.374	38170393.0	54888675.0	211217.346	207834.594	16865287.0	-1.60%
25	Outdoor/Exterior areas / Parking	Fuels			N/A	N/A			N/A	
26		Electricity	16.7205082	17.5305702	N/A	N/A			N/A	
27	Total energy consumption of Indirectly Managed Assets		852,730	845,901	N/A	N/A	372,153	350,119	N/A	-5.92%
28	Total energy consumption of Whole Portfolio		852,730	845,901	N/A	N/A	372,153	350,119	N/A	-5.92%

Explain (a) assumptions made in reporting, (b) limitations in the ability to collect data and (c) exclusions from like-for-like portfolio (maximum 250 words)

- a) Ventas, Inc assumes that data provided by utility providers in invoices is the most accurate representation of a property's consumption.
b) Properties not under the operational control of Ventas, Inc and properties in regions without utility aggregation services were more limited in their ability to collect data, especially properties with more tenant-controlled data.
c) Properties bought or sold within the reporting period (2016-2017) and properties with new construction or major renovation activities were excluded from like-for-like reporting. Within the set of properties that met those conditions, properties with data coverage that was inconsistent throughout the reporting period were also excluded.

Does the entity report the average annual vacancy rate in the like-for-like portfolio for this property type?

Yes

No

The information above is correct and complete for all Senior Homes assets

P11.2

Energy use intensity rates Senior Homes

Does the entity report energy use intensities in the whole portfolio for this property type?

Yes

If optional base-line year data is provided, specify year of the data

	Optional base-line year (include year)	2015	2016	2017
Energy use intensity	<input type="text"/>	<input type="text"/>	<input type="text" value="134.67"/>	<input type="text" value="60.54"/>
% of portfolio covered	<input type="text"/>	<input type="text"/>	<input type="text" value="72"/>	<input type="text" value="72"/>

Select the elements for which intensities are normalized in your calculations

Air conditioning and/or natural ventilation

Building age

Degree days

Footfall

Occupancy rate

Operational hours

Weather conditions

Other

None of the above

Explain (a) the energy use intensity calculation method, (b) assumptions made in the calculation, and (c) how intensities are used by the entity in its operations (maximum 250 words)

Ventas, Inc calculates their portfolio energy use intensity using site EUI and the following three factors: Building Age, Degree Days, and Occupancy. The Site EUI is calculated by dividing the total energy use per property in kWh by the gross square footage of the property. Building Age is utilized by dividing building age by average age of the portfolio, in an effort to add weight to newer properties that should be performing more efficiently and reward older properties that function efficiently. Annual Degree Days are gathered at the property level from Weather Underground. The Site EUI is adjusted by the factor of the property's Total Degree Days scaled to the portfolio average. Occupancy is collected as an annual percentage from each property. the Site EUI is adjusted to 100% occupancy for each property. Property EUIs are averaged for each property type to generate the portfolio EUI. The resulting unit of the portfolio EUI is kWh/sf (normalized by degree days, occupancy % and age). (b) Assumptions were made whenever the average yearly occupancy for a property was 0. The occupancy was adjusted to match the change in use from one year to the next. (c) Ventas, Inc uses intensity rates as a way to benchmark their properties against one another. Low performing buildings are then targeted as good candidates for energy efficiency upgrades and reduction projects.

No

P11.3

Renewable energy generated Senior Homes

Does the entity collect renewable energy consumption and generation data in the whole portfolio for this property type?

Yes

Report absolute renewable energy generation and consumption. All assets in the portfolio for this property type should be included.

	Absolute measurement	
	2016	2017
On-site renewable energy (MWh generated and consumed on-site)	203.24	179.35
Off-site renewable energy (MWh generated off-site or purchased from third party)		
On-site renewable energy (MWh generated on-site and exported)		
Total renewable energy	203	179
Percentage renewable energy	0.024	0.021

No

PERFORMANCE INDICATORS

Senior Homes > GHG Emissions

PI2.0

Does the entity collect GHG emissions data for Senior Homes?

Yes

The GHG emissions reported below are calculated using:

Location-based method

Market-based method

The inventory reporting boundary of the GHG emissions reported below is determined using:

Equity control approach

Financial control approach

Operational control approach

Will the GHG emissions data of this property type be reported at the asset level?

Yes

Please use the [GRESB Asset Portal](#) to complete this Indicator.

No

No

PI2.1

GHG emissions for Senior Homes

Report absolute values and like-for-like consumption for 2016 and 2017. All assets in the whole portfolio for Senior Homes should be included.

		Absolute GHG Emissions				Like-for-like Consumption			
		2016	2017			2016	2017	Data coverage (ft ²)	Like-for-like Change %
		Emissions (tonnes)	Emissions (tonnes)	Data coverage (ft ²)	Maximum potential coverage (ft ²)	Emissions (tonnes)	Emissions (tonnes)		
1	Scope 1	66342.6078	64112.7900	38225192.0	39088288.0	28989.0454	25814.2497	17273758.0	-10.95%
2	Scope 2	186326.651	183339.410	37883077.0	53411796.7	79718.8772	78081.3852	16577971.0	-2.05%
3	Scope 3	2394.17697	2086.55193	287316.0	1476878.20	2394.17697	2086.55193	287316.0	-12.85%
4	GHG Offsets purchased			N/A	N/A			N/A	
5	Net GHG Emissions after offsets			N/A	N/A			N/A	

Scope 3 emissions in the 2018 GRESB Assessment should be calculated as the emissions associated with tenant controlled areas/electricity purchased by the tenant and indirectly managed assets if these have not been reported upon already in Scope 1 and Scope 2 emissions. Note that if tenant emissions data is not available, data coverage for these areas should be 0, while the maximum data coverage should correspond to the tenant areas generating the emissions. Scope 3 emissions should not include emissions generated through the entity's operations or by its employees, transmission losses or upstream supply chain emissions.

Explain (a) the GHG emissions calculation standard/methodology/protocol, (b) used emission factors, (c) level of uncertainty in data accuracy, (d) exclusions from like-for-like portfolio, and (e) Scope 3 emissions, (f) source and characteristics of GHG emissions offsets (maximum 250 words)

a) Ventas follows the Equity share approach as outlined in the GHG Protocol

b) Ventas, Inc uses a calculator based on the EPA E-grid, IEA Emission factors, EPA Climate Leadership factors. Scope 2 emissions associated with the use of purchased electricity in the United States are calculated using the United States EPA eGRID 2016 sub-region emissions factors for CO₂, CH₄, and N₂O, resulting in combined GHG emissions in CO₂e for each site. Global warming potential (GWP) values for each greenhouse gas were taken from the Intergovernmental Panel on Climate Change (IPCC) Fifth Assessment Report. Scope 2 Emission associated with the use of purchased electricity outside of the United States are calculated using the International Energy Agency (IEA) WORLD CO₂ EMISSION FACTORS (2017 Edition) - Emissions per kwh of electricity only.

c) The EPA's most recent factors were updated in 2016, this leaves room for uncertainty when using these factors to calculate the carbon emissions for 2017 data.

d) Properties bought or sold within the reporting period (2016-2017) and properties with new construction or major renovation activities were excluded from like-for-like reporting. Within the set of properties that met those conditions, meters with data coverage that was inconsistent throughout the reporting period were also excluded.
 e) Scope 3 emissions are allocated by Percent Ownership. Scope 1 and 2 emissions represent the percent share in the asset.
 f) None Purchased

The information above is correct and complete for all Senior Homes assets

PI2.2

GHG emissions intensity rates Senior Homes

Does the entity report GHG emissions intensities?

Yes

If optional base-line year data is provided, specify year of the data

	Optional base-line year (include year)	2015	2016	2017
GHG emissions intensity	<input type="text"/>	<input type="text"/>	<input type="text" value="0.04"/>	<input type="text" value="0.02"/>
% of portfolio covered	<input type="text"/>	<input type="text"/>	<input type="text" value="72"/>	<input type="text" value="72"/>

Select the elements for which intensities are normalized in your calculations

- Air conditioning and/or natural ventilation
- Building age
- Degree days
- Footfall
- Occupancy rate
- Operational hours
- Weather conditions
- Other
- None of the above

Explain (a) the GHG emissions intensity calculation method, (b) assumptions made in the calculation, and (c) how intensities are used by the entity in its operations (maximum 250 words)

Ventas, Inc calculates their portfolio GHG use intensity using site EUI and the following three factors: Building Age, Degree Days, and Occupancy. The Site EUI is calculated by dividing the total yearly CO2 emissions in metric tonnes by the gross square footage of the property. Building Age is utilized by dividing building age by average age of the portfolio, in an effort to add weight to newer properties that should be performing more efficiently and reward older properties that function efficiently. Annual Degree Days are gathered at the property level from Weather Underground. The Site EUI is adjusted by the factor of the property's Total Degree Days scaled to the portfolio

PI3.1 (continued)

Managed Assets		Absolute Consumption				Like-for-like Consumption			
		2016	2017		2016	2017	Data coverage (ft ²)	Like-for-like Change	
		Consumption (m ³)	Consumption (m ³)	Data coverage (ft ²)	Maximum coverage (ft ²)	Consumption (m ³)		Consumption (m ³)	%
2	Shared Services / Central Plant								
3	Outdoor / Exterior areas / Parking			N/A	N/A			N/A	
4	Total water usage Base Building	0	0	N/A	N/A	0	0	N/A	
5	Tenant space	Purchased by landlord							
6		Purchased by tenant							
7	Total water usage Tenant Areas	0	0	N/A	N/A	0	0	N/A	
8	Whole building	Combined consumption common areas + tenant space							
9	Total water usage Whole Building	0	0	N/A	N/A	0	0	N/A	
10	Total water usage Managed Assets	0	0	N/A	N/A	0	0	N/A	

Indirectly Managed Assets		Absolute Consumption				Like-for-like Consumption				
		2016	2017		2016	2017	Data coverage (ft ²)	Like-for-like Change		
		Consumption (m ³)	Consumption (m ³)	Data coverage (ft ²)	Maximum coverage (ft ²)	Consumption (m ³)		Consumption (m ³)	%	
11	Whole building	Tenant space	6,350,056.83	4,970,720.16	3,718,549.50	5,488,675.00	2,798,665.97	2,476,742.66	1,691,070.90	-9.66%
12		Outdoor / Exterior areas / Parking	3,651,483.84	3,655,292.62	N/A	N/A	1,240,091.63	1,635,870.65	N/A	31.92%
13	Total water usage Indirectly Managed Assets	6,715,205	5,336,249	N/A	N/A	2,922,675	2,640,330	N/A	-9.66%	
14	Total water usage Whole Portfolio	6,715,205	5,336,249	N/A	N/A	2,922,675	2,640,330	N/A	-9.66%	

Explain (a) assumptions made in reporting, (b) limitations in the ability to collect data and (c) exclusions from like-for-like portfolio (maximum 250 words)

a) Ventas, Inc assumes that data provided by utility providers on invoices is the most accurate representation of a property's consumption.
b) Properties not under the operational control of Ventas, Inc and properties in regions without utility aggregation services were more limited in their ability to collect data, especially properties with more tenant-controlled data.
c) Properties bought or sold within the reporting period (2016-2017) and properties with new construction or major renovation activities were excluded from like-for-like reporting. Within the set of properties that met those conditions, meters with data coverage that was inconsistent throughout the reporting period were also excluded.
In addition, per GRESB guidance, we used changes in data coverage for Electricity to determine whether an asset should be included in the Like-for-Like pool in the Asset Level Spreadsheet. The GRESB asset level spreadsheet, does not allow for a separate set of like-for-like properties to be defined based on Water data coverage. Therefore, this technical limitation in the Asset Level Spreadsheet has impacted our data set for the Water Like-for-Like calculations in this submittal, due to differences in data coverage between electricity and water.

Does the entity report the average annual vacancy rate in the like-for-like portfolio for this property type?

Yes

No

The information above is correct and complete for all Senior Homes assets

PI3.2

Water use intensity rates Senior Homes

Does the entity report water use intensities?

Yes

If optional base-line year data is provided, specify year of the data

	Optional base-line year (include year)	2015	2016	2017
Water use intensity	<input type="text"/>	<input type="text"/>	<input type="text" value="1.02"/>	<input type="text" value="0.42"/>
% of portfolio covered	<input type="text"/>	<input type="text"/>	<input type="text" value="69"/>	<input type="text" value="68"/>

Select the elements for which intensities are normalized in your calculations

Air conditioning and/or natural ventilation

Building age

Degree days

Footfall

Occupancy rate

Operational hours

Weather conditions

Other

None of the above

Explain (a) the water use intensity calculation method, (b) assumptions made in the calculation, and (c) how intensities are used by the entity in its operations (maximum 250 words)

Ventas, Inc calculates their portfolio Water use intensity using site EUI and the following three factors: Building Age, Degree Days, and Occupancy. The Site EUI is calculated by dividing the total yearly water use in cubic meters by the gross square footage of the property. Building Age is utilized by dividing building age by average age of the portfolio, in an effort to add weight to newer properties that should be performing more efficiently and reward older properties that function efficiently. Annual Degree Days are gathered at the property level from Weather Underground. The Site EUI is adjusted by the factor of the property's Total Degree Days scaled to the portfolio average. Occupancy is collected as an annual percentage from each property, the Site EUI is adjusted to 100% occupancy for each property. Property EUIs are averaged for each property type to generate the portfolio EUI. The resulting unit of the portfolio EUI is cubic meters/sf (normalized by degree days, occupancy % and age). (b) Assumptions were made whenever the average yearly occupancy for a property was 0. The occupancy was adjusted to match the change in use from one year to the next. (c) Ventas, Inc uses intensity rates as a way to benchmark their properties against one another. Low performing buildings are then targeted as good candidates for water reduction projects.

No

PI3.3

Water reuse and recycling Senior Homes

Does the entity collect reuse, recycling and consumption data?

Yes

No

PERFORMANCE INDICATORS

Senior Homes > Waste Management

PI4.0

Does the entity collect waste data for Senior Homes?

Yes

Will the waste management data of this property type be reported at the asset level?

Yes

Please use the [GRESB Asset Portal](#) to complete this Indicator.

No

No

PI4.1

Waste management for Senior Homes

Report absolute values for 2016 and 2017. All assets in the whole portfolio for Senior Homes should be included.

		Absolute Measurement		
		2016	2017	
1	Managed Assets	Total weight of hazardous waste in metric tonnes	<input type="text"/>	<input type="text"/>
2		Total weight of non-hazardous waste in metric tonnes	<input type="text"/>	<input type="text"/>
3		% managed portfolio covered	<input type="text"/>	<input type="text"/>
4	Indirectly Managed Assets	Total weight of hazardous waste in metric tonnes	<input type="text"/>	<input type="text"/>
5		Total weight of non-hazardous waste in metric tonnes	33602.3787	36539.4531
6		% indirectly managed portfolio covered	52.9988677	53.2387113
		Proportion of waste by disposal route (% of total by weight)		
7	Whole Portfolio (RSE)	Landfill	86.2276658	88.4497020
8		Incineration	1.42430184	0.00005473
9		Diverted (total)	12.3480323	11.5502431
10		Diverted - waste to energy (optional)	<input type="text"/>	<input type="text"/>
11		Diverted - recycling (optional)	11.8584649	11.0032869
12		Diverted - other (optional)	0.48956742	0.54695618
13		Other	0.0	0.0

Explain (a) assumptions made in reporting, (b) limitations in the ability to collect data, and (c) exclusions from portfolio (maximum 250 words)

- a) Ventas, Inc assumes that data provided by waste vendors, either in volume or weight, is an accurate representation of the waste produced by a property. Ventas, Inc also assumes that waste measurements taken from the portfolio are representative of the portfolio's waste production, independent of any external sources of waste (pedestrians, neighbors, etc) who may co-opt the portfolio's waste collection services.
- b) Properties whose tenants have their own waste contracts had a limited ability to collect waste data from their tenants, due to the diversity of waste vendors and tenant confidentiality.
- c) No properties were excluded from reporting, though some properties were unable to provide waste data due to difficulty contacting tenants or waste vendors.

The information above is correct and complete for all Senior Homes assets

PERFORMANCE INDICATORS

Healthcare > Energy Consumption

PI1.0

Does the entity collect energy consumption data for Healthcare?

Yes

Please provide the TOTAL floor area of your portfolio for this property type,

PI1.1 (continued)

Managed Assets Base Building		Absolute Consumption				Like-for-like Consumption			
		2016	2017		2016	2017		Like-for-like Change	
		Consumption (MWh)	Consumption (MWh)	Data coverage (ft ²)	Maximum coverage (ft ²)	Consumption (MWh)	Consumption (MWh)	Data coverage (ft ²)	%
2	District Heating & Cooling	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
3	Electricity	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
4	Shared services / central plant	Fuels	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
5		District Heating & Cooling	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
6		Electricity	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
7	Outdoor/Exterior areas / Parking	Fuels	<input type="text"/>	<input type="text"/>	N/A	N/A	<input type="text"/>	<input type="text"/>	N/A
8		Electricity	<input type="text"/>	<input type="text"/>	N/A	N/A	<input type="text"/>	<input type="text"/>	N/A
9	Total energy consumption of Base Building		0	0	N/A	N/A	0	0	N/A

Managed Assets Tenant space		Absolute Consumption				Like-for-like Consumption			
		2016	2017		2016	2017		Like-for-like Change	
		Consumption (MWh)	Consumption (MWh)	Data coverage (ft ²)	Maximum coverage (ft ²)	Consumption (MWh)	Consumption (MWh)	Data coverage (ft ²)	%
10	Purchased by landlord	Fuels	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
11		District Heating & Cooling	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
12		Electricity	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
13	Purchased by tenant	Fuels	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
14		District Heating & Cooling	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
15		Electricity	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
16	Total energy consumption of Tenant Areas		0	0	N/A	N/A	0	0	N/A

Managed Assets Whole building		Absolute Consumption				Like-for-like Consumption			
		2016	2017			2016	2017		Like-for-like Change
		Consumption (MWh)	Consumption (MWh)	Data coverage (ft ²)	Maximum coverage (ft ²)	Consumption (MWh)	Consumption (MWh)	Data coverage (ft ²)	%
17	Combined consumption common areas + tenant space	Fuels							
18		District Heating & Cooling							
19		Electricity							
20	Total energy consumption of Whole Building		0	0	N/A	N/A	0	0	N/A
21	Total energy consumption of Managed Assets		0	0	N/A	N/A	0	0	N/A

Indirectly Managed Assets Whole building		Absolute Consumption				Like-for-like Consumption				
		2016	2017			2016	2017		Like-for-like Change	
		Consumption (MWh)	Consumption (MWh)	Data coverage (ft ²)	Maximum coverage (ft ²)	Consumption (MWh)	Consumption (MWh)	Data coverage (ft ²)	%	
22	Tenant space	Fuels	62756.2125	60859.5763	2823021.0	2910829.0	56817.6424	55312.9499	2570728.0	-2.65%
23		District Heating & Cooling								
24		Electricity	91700.495	88173.5584	2990634.0	11004235.0	85236.1227	82293.54	2738341.0	-3.45%
25	Outdoor/Exterior areas / Parking	Fuels			N/A	N/A			N/A	
26		Electricity			N/A	N/A			N/A	
27	Total energy consumption of Indirectly Managed Assets		154,457	149,033	N/A	N/A	142,054	137,606	N/A	-3.13%
28	Total energy consumption of Whole Portfolio		154,457	149,033	N/A	N/A	142,054	137,606	N/A	-3.13%

Explain (a) assumptions made in reporting, (b) limitations in the ability to collect data and (c) exclusions from like-for-like portfolio (maximum 250 words)

- a) Ventas, Inc assumes that data provided by utility providers in invoices is the most accurate representation of a property's consumption.
b) Properties not under the operational control of Ventas, Inc and properties in regions without utility aggregation services were more limited in their ability to collect data, especially properties with more tenant-controlled data.
c) Properties bought or sold within the reporting period (2016-2017) and properties with new construction or major renovation activities were excluded from like-for-like reporting. Within the set of properties that met those conditions, properties with data coverage that was inconsistent throughout the reporting period were also excluded.

Does the entity report the average annual vacancy rate in the like-for-like portfolio for this property type?

Yes

No

The information above is correct and complete for all Healthcare assets

P11.2

Energy use intensity rates Healthcare

Does the entity report energy use intensities in the whole portfolio for this property type?

Yes

If optional base-line year data is provided, specify year of the data

	Optional base-line year (include year)	2015	2016	2017
Energy use intensity	<input type="text"/>	<input type="text"/>	<input type="text" value="152.81"/>	<input type="text" value="72.48"/>
% of portfolio covered	<input type="text"/>	<input type="text"/>	<input type="text" value="27.177"/>	<input type="text" value="27.18"/>

Select the elements for which intensities are normalized in your calculations

Air conditioning and/or natural ventilation

Building age

Degree days

Footfall

Occupancy rate

Operational hours

Weather conditions

Other

None of the above

Explain (a) the energy use intensity calculation method, (b) assumptions made in the calculation, and (c) how intensities are used by the entity in its operations (maximum 250 words)

Ventas, Inc calculates their portfolio energy use intensity using site EUI and the following three factors: Building Age, Degree Days, and Occupancy. The Site EUI is calculated by dividing the total energy use per property in kWh by the gross square footage of the property. Building Age is utilized by dividing building age by average age of the portfolio, in an effort to add weight to newer properties that should be performing more efficiently and reward older properties that function efficiently. Annual Degree Days are gathered at the property level from Weather Underground. The Site EUI is adjusted by the factor of the property's Total Degree Days scaled to the portfolio average. Occupancy is collected as an annual percentage from each property. the Site EUI is adjusted to 100% occupancy for each property. Property EUIs are averaged for each property type to generate the portfolio EUI. The resulting unit of the portfolio EUI is kWh/sf (normalized by degree days, occupancy % and age). (b) Assumptions were made whenever the average yearly occupancy for a property was 0. The occupancy was adjusted to match the change in use from one year to the next. (c) Ventas, Inc uses intensity rates as a way to benchmark their properties against one another. Low performing buildings are then targeted as good candidates for energy efficiency upgrades and reduction projects.

No

PI1.3

Renewable energy generated Healthcare

Does the entity collect renewable energy consumption and generation data in the whole portfolio for this property type?

Yes

No

PERFORMANCE INDICATORS

Healthcare > GHG Emissions

PI2.0

Does the entity collect GHG emissions data for Healthcare?

Yes

The GHG emissions reported below are calculated using:

Location-based method

Market-based method

The inventory reporting boundary of the GHG emissions reported below is determined using:

Equity control approach

Financial control approach

Operational control approach

Will the GHG emissions data of this property type be reported at the asset level?

Yes

Please use the [GRESB Asset Portal](#) to complete this Indicator.

No

No

GHG emissions for Healthcare

Report absolute values and like-for-like consumption for 2016 and 2017. All assets in the whole portfolio for Healthcare should be included.

		Absolute GHG Emissions				Like-for-like Consumption			
		2016	2017			2016	2017	Like-for-like Change	
		Emissions (tonnes)	Emissions (tonnes)	Data coverage (ft ²)	Maximum potential coverage (ft ²)	Emissions (tonnes)	Emissions (tonnes)	Data coverage (ft ²)	%
1	Scope 1	11385.7692	11042.3786	2823021.0	2910829.0	10309.4875	10037.1305	2570728.0	-2.64%
2	Scope 2	41032.8356	39541.0472	2990634.0	10283173.7	39149.2434	37774.4137	2738341.0	-3.51%
3	Scope 3		0.0	0.0	721061.25		0.0	0.0	
4	GHG Offsets purchased			N/A	N/A			N/A	
5	Net GHG Emissions after offsets			N/A	N/A			N/A	

Scope 3 emissions in the 2018 GRESB Assessment should be calculated as the emissions associated with tenant controlled areas/electricity purchased by the tenant and indirectly managed assets if these have not been reported upon already in Scope 1 and Scope 2 emissions. Note that if tenant emissions data is not available, data coverage for these areas should be 0, while the maximum data coverage should correspond to the tenant areas generating the emissions. Scope 3 emissions should not include emissions generated through the entity's operations or by its employees, transmission losses or upstream supply chain emissions.

Explain (a) the GHG emissions calculation standard/methodology/protocol, (b) used emission factors, (c) level of uncertainty in data accuracy, (d) exclusions from like-for-like portfolio, and (e) Scope 3 emissions, (f) source and characteristics of GHG emissions offsets (maximum 250 words)

- a) Ventas follows the Equity share approach as outlined in the GHG Protocol
- b) Ventas, Inc uses a calculator based on the EPA E-grid, IEA Emission factors, EPA Climate Leadership factors. Scope 2 emissions associated with the use of purchased electricity in the United States are calculated using the United States EPA eGRID 2016 sub-region emissions factors for CO2, CH4, and N2O, resulting in combined GHG emissions in CO2e for each site. Global warming potential (GWP) values for each greenhouse gas were taken from the Intergovernmental Panel on Climate Change (IPCC) Fifth Assessment Report. Scope 2 Emission associated with the use of purchased electricity outside of the United States are calculated using the International Energy Agency (IEA) WORLD CO2 EMISSION FACTORS (2017 Edition) - Emissions per kwh of electricity only.
- c) The EPA's most recent factors were updated in 2016, this leaves room for uncertainty when using these factors to calculate the carbon emissions for 2017 data.
- d) Properties bought or sold within the reporting period (2016-2017) and properties with new construction or major renovation activities were excluded from like-for-like reporting. Within the set of properties that met those conditions, meters with data coverage that was inconsistent throughout the reporting period were also excluded.
- e) Scope 3 emissions are allocated by Percent Ownership. Scope 1 and 2 emissions represent the percent share in the asset.
- f) None Purchased

The information above is correct and complete for all Healthcare assets

PI2.2

GHG emissions intensity rates Healthcare

Does the entity report GHG emissions intensities?

Yes

If optional base-line year data is provided, specify year of the data

	Optional base-line year (include year)	2015	2016	2017
GHG emissions intensity	<input type="text"/>	<input type="text"/>	<input type="text" value="0.05"/>	<input type="text" value="0.03"/>
% of portfolio covered	<input type="text"/>	<input type="text"/>	<input type="text" value="27"/>	<input type="text" value="27"/>

Select the elements for which intensities are normalized in your calculations

Air conditioning and/or natural ventilation

Building age

Degree days

Footfall

Occupancy rate

Operational hours

Weather conditions

Other

None of the above

Explain (a) the GHG emissions intensity calculation method, (b) assumptions made in the calculation, and (c) how intensities are used by the entity in its operations (maximum 250 words)

Ventas, Inc calculates their portfolio GHG use intensity using site EUI and the following three factors: Building Age, Degree Days, and Occupancy. The Site EUI is calculated by dividing the total yearly CO2 emissions in metric tonnes by the gross square footage of the property. Building Age is utilized by dividing building age by average age of the portfolio, in an effort to add weight to newer properties that should be performing more efficiently and reward older properties that function efficiently. Annual Degree Days are gathered at the property level from Weather Underground. The Site EUI is adjusted by the factor of the property's Total Degree Days scaled to the portfolio average. Occupancy is collected as an annual percentage from each property. the Site EUI is adjusted to 100% occupancy for each property. Property EUIs are averaged for each property type to generate the portfolio EUI. The resulting unit of the portfolio EUI is metric tonnes of CO2/sf (normalized by degree days, occupancy % and age). (b) Assumptions were made whenever the average yearly occupancy for a property was 0. The occupancy was adjusted to match the change in use from one year to the next. (c) Ventas, Inc uses intensity rates as a way to benchmark their properties against one another. Low performing buildings are then targeted as good candidates for energy efficiency upgrades and reduction projects.

No

PI3.1 (continued)

Managed Assets		Absolute Consumption				Like-for-Like Consumption		
		2016	2017		2016	2017	Data coverage (ft ²)	Like-for-like Change %
		Consumption (m ³)	Consumption (m ³)	Data coverage (ft ²)	Maximum coverage (ft ²)	Consumption (m ³)		
7	Total water usage Tenant Areas	0	0	N/A	N/A	0	0	N/A
8	Whole building							
	Combined consumption common areas + tenant space							
9	Total water usage Whole Building	0	0	N/A	N/A	0	0	N/A
10	Total water usage Managed Assets	0	0	N/A	N/A	0	0	N/A

Indirectly Managed Assets		Absolute Consumption				Like-for-Like Consumption			
		2016	2017		2016	2017	Data coverage (ft ²)	Like-for-like Change %	
		Consumption (m ³)	Consumption (m ³)	Data coverage (ft ²)	Maximum coverage (ft ²)	Consumption (m ³)			Consumption (m ³)
11	Whole building	855098.024	722242.572	2990634.0	11004235.0	743553.340	657037.904	2688902.0	-11.64%
12	Outdoor / Exterior areas / Parking	70.7931	951.4485	N/A	N/A			N/A	
13	Total water usage Indirectly Managed Assets	855,169	723,194	N/A	N/A	743,553	657,038	N/A	-11.64%
14	Total water usage Whole Portfolio	855,169	723,194	N/A	N/A	743,553	657,038	N/A	-11.64%

Explain (a) assumptions made in reporting, (b) limitations in the ability to collect data and (c) exclusions from like-for-like portfolio (maximum 250 words)

a) Ventas, Inc assumes that data provided by utility providers on invoices is the most accurate representation of a property's consumption.
 b) Properties not under the operational control of Ventas, Inc and properties in regions without utility aggregation services were more limited in their ability to collect data, especially properties with more tenant-controlled data.
 c) Properties bought or sold within the reporting period (2016-2017) and properties with new construction or major renovation activities were excluded from like-for-like reporting. Within the set of properties that met those conditions, meters with data coverage that was inconsistent throughout the reporting period were also excluded. In addition, per GRESB guidance, we used changes in data coverage for Electricity to determine whether an asset should be included in the Like-for-Like pool in the Asset Level Spreadsheet. The GRESB asset level spreadsheet, does not allow for a separate set of like-for-like properties to be defined based on Water data coverage. Therefore, this technical limitation in the Asset Level Spreadsheet has impacted our data set for the Water Like-for-Like calculations in this submittal, due to differences in data coverage between electricity and water.

Does the entity report the average annual vacancy rate in the like-for-like portfolio for this property type?

Yes

No

The information above is correct and complete for all Healthcare assets

PI3.2

Water use intensity rates Healthcare

Does the entity report water use intensities?

Yes

If optional base-line year data is provided, specify year of the data

	Optional base-line year (include year)	2015	2016	2017
Water use intensity	<input type="text"/>	<input type="text"/>	<input type="text" value="0.79"/>	<input type="text" value="0.35"/>
% of portfolio covered	<input type="text"/>	<input type="text"/>	<input type="text" value="27"/>	<input type="text" value="27"/>

Select the elements for which intensities are normalized in your calculations

Air conditioning and/or natural ventilation

Building age

Degree days

Footfall

Occupancy rate

Operational hours

Weather conditions

Other

None of the above

Explain (a) the water use intensity calculation method, (b) assumptions made in the calculation, and (c) how intensities are used by the entity in its operations (maximum 250 words)

Ventas, Inc calculates their portfolio Water use intensity using site EUI and the following three factors: Building Age, Degree Days, and Occupancy. The Site EUI is calculated by dividing the total yearly water use in cubic meters by the gross square footage of the property. Building Age is utilized by dividing building age by average age of the portfolio, in an effort to add weight to newer properties that should be performing more efficiently and reward older properties that function efficiently. Annual Degree Days are gathered at the property level from Weather Underground. The Site EUI is adjusted by the factor of the property's Total Degree Days scaled to the portfolio average. Occupancy is collected as an annual percentage from each property. the Site EUI is adjusted to 100% occupancy for each property. Property EUIs are averaged for each property type to generate the portfolio EUI. The resulting unit of the portfolio EUI is cubic meters/sf (normalized by degree days, occupancy % and age). (b) Assumptions were made whenever the average yearly occupancy for a property was 0. The occupancy was adjusted to match the change in use from one year to the next. (c) Ventas, Inc uses intensity rates as a way to benchmark their properties against one another. Low performing buildings are then targeted as good candidates for water reduction projects.

No

PI3.3

Water reuse and recycling Healthcare

Does the entity collect reuse, recycling and consumption data?

Yes

No

PERFORMANCE INDICATORS

Healthcare > Waste Management

PI4.0

Does the entity collect waste data for Healthcare?

Yes

Will the waste management data of this property type be reported at the asset level?

Yes

Please use the [GRESB Asset Portal](#) to complete this Indicator.

No

No

PI4.1

Waste management for Healthcare

Report absolute values for 2016 and 2017. All assets in the whole portfolio for Healthcare should be included.

		Absolute Measurement		
		2016	2017	
1	Managed Assets	Total weight of hazardous waste in metric tonnes	<input type="text"/>	<input type="text"/>
2		Total weight of non-hazardous waste in metric tonnes	<input type="text"/>	<input type="text"/>

PI4.1 (continued)

		Absolute Measurement	
		2016	2017
3			
	% managed portfolio covered	<input type="text"/>	<input type="text"/>
4			
	Total weight of hazardous waste in metric tonnes	<input type="text"/>	<input type="text"/>
5	Indirectly Managed Assets		
	Total weight of non-hazardous waste in metric tonnes	<input type="text"/>	<input type="text" value="5.7807"/>
6			
	% indirectly managed portfolio covered	<input type="text" value="0.0"/>	<input type="text" value="1.60850799"/>
Proportion of waste by disposal route (% of total by weight)		2016	2017
7			
	Landfill	<input type="text"/>	<input type="text" value="100.000000"/>
8			
	Incineration	<input type="text"/>	<input type="text" value="0.0"/>
9			
	Diverted (total)	<input type="text"/>	<input type="text" value="0.0"/>
10	Whole Portfolio (HEC)		
	Diverted - waste to energy (optional)	<input type="text"/>	<input type="text"/>
11			
	Diverted - recycling (optional)	<input type="text"/>	<input type="text"/>
12			
	Diverted - other (optional)	<input type="text"/>	<input type="text"/>
13			
	Other	<input type="text"/>	<input type="text" value="0.0"/>

Explain (a) assumptions made in reporting, (b) limitations in the ability to collect data, and (c) exclusions from portfolio (maximum 250 words)

a) Ventas, Inc assumes that data provided by waste vendors, either in volume or weight, is an accurate representation of the waste produced by a property. Ventas, Inc also assumes that waste measurements taken from the portfolio are representative of the portfolio's waste production, independent of any external sources of waste (pedestrians, neighbors, etc) who may co-opt the portfolio's waste collection services.
 b) Properties whose tenants have their own waste contracts had a limited ability to collect waste data from their tenants, due to the diversity of waste vendors and tenant confidentiality.
 c) No properties were excluded from reporting, though some properties were unable to provide waste data due to difficulty contacting tenants or waste vendors.

The information above is correct and complete for all Healthcare assets

PERFORMANCE INDICATORS

Medical Office > Energy Consumption

PI1.0

Does the entity collect energy consumption data for Medical Office?

Yes

Please provide the TOTAL floor area of your portfolio for this property type, regardless of energy supply and energy data availability and complete PI1.1 - PI1.3 for this property type.

Managed Assets	Floor area (ft ²)
Common Areas	<input type="text" value="0"/>
Tenant Space	<input type="text" value="0"/>
Tenant Space, Energy Purchased by Landlord	<input type="text" value="0"/>
Tenant Space, Energy Purchased by Tenant	<input type="text" value="0"/>
Whole Building	<input type="text" value="14142141"/>
Shared Services	<input type="text" value="0"/>
Indirectly Managed Assets	Floor area (ft ²)
Whole Building	<input type="text" value="7500517.0"/>

Will the energy consumption data of this property type be reported at the asset level?

Yes

Please use the [GRESB Asset Portal](#) to complete this Indicator.

No

No

PI1.1

Energy consumption for Medical Office

Report absolute values and like-for-like consumption for 2016 and 2017. All assets in the whole portfolio for Medical Office should be included.

To make sure you insert data in the correct section of the table, check the definition of "Managed Assets" and "Indirectly Managed Assets".

Only use Whole Building if no breakdown of data is possible between Base Building and Tenant Space. Additionally, if consumption cannot be separated between Common Areas and Shared Services/ Central Plant, provide both in Shared Services/Central Plant.

Managed Assets Base Building		Absolute Consumption				Like-for-like Consumption			
		2016	2017		2016	2017		Like-for-like Change	
		Consumption (MWh)	Consumption (MWh)	Data coverage (ft ²)	Maximum coverage (ft ²)	Consumption (MWh)	Consumption (MWh)	Data coverage (ft ²)	%
1	Common areas	Fuels	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
2		District Heating & Cooling	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
3		Electricity	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
4	Shared services / central plant	Fuels	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
5		District Heating & Cooling	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
6		Electricity	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
7	Outdoor/Exterior areas / Parking	Fuels	<input type="text"/>		N/A	N/A	<input type="text"/>	<input type="text"/>	N/A
8		Electricity	<input type="text"/>		N/A	N/A	<input type="text"/>	<input type="text"/>	N/A
9	Total energy consumption of Base Building		0	0	N/A	N/A	0	0	N/A

Managed Assets Tenant space		Absolute Consumption				Like-for-like Consumption			
		2016	2017		2016	2017		Like-for-like Change	
		Consumption (MWh)	Consumption (MWh)	Data coverage (ft ²)	Maximum coverage (ft ²)	Consumption (MWh)	Consumption (MWh)	Data coverage (ft ²)	%
10	Purchased by landlord	Fuels	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
11		District Heating & Cooling	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
12		Electricity	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
13	Purchased by tenant	Fuels	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
14		District Heating & Cooling	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
15		Electricity	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
16	Total energy consumption of Tenant Areas		0	0	N/A	N/A	0	0	N/A

Managed Assets Whole building		Absolute Consumption				Like-for-like Consumption				
		2016		2017		2016		2017		Like-for-like Change
		Consumption (MWh)	Consumption (MWh)	Data coverage (ft ²)	Maximum coverage (ft ²)	Consumption (MWh)	Consumption (MWh)	Data coverage (ft ²)	%	
17	Combined consumption common areas + tenant space	Fuels	72241.0937	70650.7035	5227444.0	6477485.0	34543.3968	36460.0087	2725816.0	5.55%
18		District Heating & Cooling								
19		Electricity	245886.029	236296.699	10725810.7	14142140.7	127348.209	126109.553	5776004.73	-0.97%
20	Total energy consumption of Whole Building		318,127	306,947	N/A	N/A	161,892	162,570	N/A	0.42%
21	Total energy consumption of Managed Assets		318,127	306,947	N/A	N/A	161,892	162,570	N/A	0.42%

Indirectly Managed Assets Whole building		Absolute Consumption				Like-for-like Consumption				
		2016		2017		2016		2017		Like-for-like Change
		Consumption (MWh)	Consumption (MWh)	Data coverage (ft ²)	Maximum coverage (ft ²)	Consumption (MWh)	Consumption (MWh)	Data coverage (ft ²)	%	
22	Tenant space	Fuels	32798.1197	30930.2471	2793203.0	2943001.0	12062.0092	11621.9241	985540.0	-3.65%
23		District Heating & Cooling								
24		Electricity	62963.3818	86879.0422	3456647.0	7500513.0	26875.2088	25485.2262	1287051.0	-5.17%
25	Outdoor/Exterior areas / Parking	Fuels			N/A	N/A			N/A	
26		Electricity			N/A	N/A			N/A	
27	Total energy consumption of Indirectly Managed Assets		95,762	117,809	N/A	N/A	38,937	37,107	N/A	-4.70%
28	Total energy consumption of Whole Portfolio		413,889	424,757	N/A	N/A	200,829	199,677	N/A	-0.57%

Explain (a) assumptions made in reporting, (b) limitations in the ability to collect data and (c) exclusions from like-for-like portfolio (maximum 250 words)

- a) Ventas, Inc assumes that data provided by utility providers in invoices is the most accurate representation of a property's consumption.
b) Properties not under the operational control of Ventas, Inc and properties in regions without utility aggregation services were more limited in their ability to collect data, especially properties with more tenant-controlled data.
c) Properties bought or sold within the reporting period (2016-2017) and properties with new construction or major renovation activities were excluded from like-for-like reporting. Within the set of properties that met those conditions, properties with data coverage that was inconsistent throughout the reporting period were also excluded.

Does the entity report the average annual vacancy rate in the like-for-like portfolio for this property type?

Yes

No

The information above is correct and complete for all Medical Office assets

P11.2

Energy use intensity rates Medical Office

Does the entity report energy use intensities in the whole portfolio for this property type?

Yes

If optional base-line year data is provided, specify year of the data

	Optional base-line year (include year)	2015	2016	2017
Energy use intensity	<input type="text"/>	<input type="text"/>	<input type="text" value="163.15"/>	<input type="text" value="75.34"/>
% of portfolio covered	<input type="text"/>	<input type="text"/>	<input type="text" value="68"/>	<input type="text" value="68"/>

Select the elements for which intensities are normalized in your calculations

Air conditioning and/or natural ventilation

Building age

Degree days

Footfall

Occupancy rate

Operational hours

Weather conditions

Other

None of the above

Explain (a) the energy use intensity calculation method, (b) assumptions made in the calculation, and (c) how intensities are used by the entity in its operations (maximum 250 words)

Ventas, Inc calculates their portfolio energy use intensity using site EUI and the following three factors: Building Age, Degree Days, and Occupancy. The Site EUI is calculated by dividing the total energy use per property in kWh by the gross square footage of the property. Building Age is utilized by dividing building age by average age of the portfolio, in an effort to add weight to newer properties that should be performing more efficiently and reward older properties that function efficiently. Annual Degree Days are gathered at the property level from Weather Underground. The Site EUI is adjusted by the factor of the property's Total Degree Days scaled to the portfolio average. Occupancy is collected as an annual percentage from each property. the Site EUI is adjusted to 100% occupancy for each property. Property EUIs are averaged for each property type to generate the portfolio EUI. The resulting unit of the portfolio EUI is kWh/sf (normalized by degree days, occupancy % and age). (b) Assumptions were made whenever the average yearly occupancy for a property was 0. The occupancy was adjusted to match the change in use from one year to the next. (c) Ventas, Inc uses intensity rates as a way to benchmark their properties against one another. Low performing buildings are then targeted as good candidates for energy efficiency upgrades and reduction projects.

No

P11.3

Renewable energy generated Medical Office

Does the entity collect renewable energy consumption and generation data in the whole portfolio for this property type?

Yes

No

PERFORMANCE INDICATORS

Medical Office > GHG Emissions

PI2.0

Does the entity collect GHG emissions data for Medical Office?

Yes

The GHG emissions reported below are calculated using:

Location-based method

Market-based method

The inventory reporting boundary of the GHG emissions reported below is determined using:

Equity control approach

Financial control approach

Operational control approach

Will the GHG emissions data of this property type be reported at the asset level?

Yes

Please use the [GRESB Asset Portal](#) to complete this Indicator.

No

No

PI2.1

GHG emissions for Medical Office

Report absolute values and like-for-like consumption for 2016 and 2017. All assets in the whole portfolio for Medical Office should be included.

		Absolute GHG Emissions				Like-for-like Consumption			
		2016	2017			2016	2017	Like-for-like Change	
		Emissions (tonnes)	Emissions (tonnes)	Data coverage (ft ²)	Maximum potential coverage (ft ²)	Emissions (tonnes)	Emissions (tonnes)	Data coverage (ft ²)	%
1	Scope 1	18478.9960	18069.2115	8067447.35	9115011.63	8436.61492	8705.68411	3704959.15	3.19%
2	Scope 2	143383.474	149935.140	13578564.3	20757358.6	74784.0844	73062.7801	6986096.67	-2.30%
3	Scope 3	6686.02972	4209.06892	603893.404	885295.045	489.366203	439.446085	76959.0531	-10.20%
4	GHG Offsets purchased			N/A	N/A			N/A	
5	Net GHG Emissions after offsets			N/A	N/A			N/A	

Scope 3 emissions in the 2018 GRESB Assessment should be calculated as the emissions associated with tenant controlled areas/electricity purchased by the tenant and indirectly managed assets if these have not been reported upon already in Scope 1 and Scope 2 emissions. Note that if tenant emissions data is not available, data coverage for these areas should be 0, while the maximum data coverage should correspond to the tenant areas generating the emissions. Scope 3 emissions should not include emissions generated through the entity's operations or by its employees, transmission losses or upstream supply chain emissions.

Explain (a) the GHG emissions calculation standard/methodology/protocol, (b) used emission factors, (c) level of uncertainty in data accuracy, (d) exclusions from like-for-like portfolio, and (e) Scope 3 emissions, (f) source and characteristics of GHG emissions offsets (maximum 250 words)

- a) Ventas follows the Equity share approach as outlined in the GHG Protocol
- b) Ventas, Inc uses a calculator based on the EPA E-grid, IEA Emission factors, EPA Climate Leadership factors. Scope 2 emissions associated with the use of purchased electricity in the United States are calculated using the United States EPA eGRID 2016 sub-region emissions factors for CO2, CH4, and N2O, resulting in combined GHG emissions in CO2e for each site. Global warming potential (GWP) values for each greenhouse gas were taken from the Intergovernmental Panel on Climate Change (IPCC) Fifth Assessment Report. Scope 2 Emission associated with the use of purchased electricity outside of the United States are calculated using the International Energy Agency (IEA) WORLD CO2 EMISSION FACTORS (2017 Edition) - Emissions per kwh of electricity only.
- c) The EPA's most recent factors were updated in 2016, this leaves room for uncertainty when using these factors to calculate the carbon emissions for 2017 data.
- d) Properties bought or sold within the reporting period (2016-2017) and properties with new construction or major renovation activities were excluded from like-for-like reporting. Within the set of properties that met those conditions, meters with data coverage that was inconsistent throughout the reporting period were also excluded.
- e) Scope 3 emissions are allocated by Percent Ownership. Scope 1 and 2 emissions represent the percent share in the asset.
- f) None Purchased

The information above is correct and complete for all Medical Office assets

GHG emissions intensity rates Medical Office

Does the entity report GHG emissions intensities?

Yes

If optional base-line year data is provided, specify year of the data

	Optional base-line year (include year)	2015	2016	2017
GHG emissions intensity	<input type="text"/>	<input type="text"/>	<input type="text" value="0.07"/>	<input type="text" value="0.03"/>
% of portfolio covered	<input type="text"/>	<input type="text"/>	<input type="text" value="68"/>	<input type="text" value="68"/>

Select the elements for which intensities are normalized in your calculations

- Air conditioning and/or natural ventilation
- Building age
- Degree days
- Footfall
- Occupancy rate
- Operational hours
- Weather conditions
- Other
- None of the above

Explain (a) the GHG emissions intensity calculation method, (b) assumptions made in the calculation, and (c) how intensities are used by the entity in its operations (maximum 250 words)

Ventas, Inc calculates their portfolio GHG use intensity using site EUI and the following three factors: Building Age, Degree Days, and Occupancy. The Site EUI is calculated by dividing the total yearly CO2 emissions in metric tonnes by the gross square footage of the property. Building Age is utilized by dividing building age by average age of the portfolio, in an effort to add weight to newer properties that should be performing more efficiently and reward older properties that function efficiently. Annual Degree Days are gathered at the property level from Weather Underground. The Site EUI is adjusted by the factor of the property's Total Degree Days scaled to the portfolio average. Occupancy is collected as an annual percentage from each property. the Site EUI is adjusted to 100% occupancy for each property. Property EUIs are averaged for each property type to generate the portfolio EUI. The resulting unit of the portfolio EUI is metric tonnes of CO2/sf (normalized by degree days, occupancy % and age). (b) Assumptions were made whenever the average yearly occupancy for a property was 0. The occupancy was adjusted to match the change in use from one year to the next. (c) Ventas, Inc uses intensity rates as a way to benchmark their properties against one another. Low performing buildings are then targeted as good candidates for energy efficiency upgrades and reduction projects.

No

PI3.1 (continued)

Managed Assets		Absolute Consumption				Like-for-Like Consumption			
		2016	2017		2016	2017	Data coverage (ft ²)	Like-for-Like Change %	
		Consumption (m ³)	Consumption (m ³)	Data coverage (ft ²)	Maximum coverage (ft ²)	Consumption (m ³)			Consumption (m ³)
7	Total water usage Tenant Areas	0	0	N/A	N/A	0	0	N/A	
8	Whole building	877,272	632,525	921,517	1,414,214	495,020	425,406	478,883	-14.06%
9	Total water usage Whole Building	877,272	632,525	N/A	N/A	495,020	425,406	N/A	-14.06%
10	Total water usage Managed Assets	877,272	632,525	N/A	N/A	495,020	425,406	N/A	-14.06%

Indirectly Managed Assets		Absolute Consumption				Like-for-Like Consumption			
		2016	2017		2016	2017	Data coverage (ft ²)	Like-for-Like Change %	
		Consumption (m ³)	Consumption (m ³)	Data coverage (ft ²)	Maximum coverage (ft ²)	Consumption (m ³)			Consumption (m ³)
11	Whole building	339,168	332,211	337,351	750,051	161,526	159,661	125,714	-2.65%
12	Outdoor / Exterior areas / Parking	201,650	845,846	N/A	N/A	100,426	736,337	N/A	-26.68%
13	Total water usage Indirectly Managed Assets	359,333	340,670	N/A	N/A	171,569	167,025	N/A	-2.65%
14	Total water usage Whole Portfolio	1,236,605	973,195	N/A	N/A	666,589	592,431	N/A	-11.12%

Explain (a) assumptions made in reporting, (b) limitations in the ability to collect data and (c) exclusions from like-for-like portfolio (maximum 250 words)

a) Ventas, Inc assumes that data provided by utility providers on invoices is the most accurate representation of a property's consumption.
 b) Properties not under the operational control of Ventas, Inc and properties in regions without utility aggregation services were more limited in their ability to collect data, especially properties with more tenant-controlled data.
 c) Properties bought or sold within the reporting period (2016-2017) and properties with new construction or major renovation activities were excluded from like-for-like reporting. Within the set of properties that met those conditions, meters with data coverage that was inconsistent throughout the reporting period were also excluded.
 In addition, per GRESB guidance, we used changes in data coverage for Electricity to determine whether an asset should be included in the Like-for-Like pool in the Asset Level Spreadsheet. The GRESB asset level spreadsheet, does not allow for a separate set of like-for-like properties to be defined based on Water data coverage. Therefore, this technical limitation in the Asset Level Spreadsheet has impacted our data set for the Water Like-for-Like calculations in this submittal, due to differences in data coverage between electricity and water.

Does the entity report the average annual vacancy rate in the like-for-like portfolio for this property type?

Yes

No

The information above is correct and complete for all Medical Office assets

PI3.2

Water use intensity rates Medical Office

Does the entity report water use intensities?

Yes

If optional base-line year data is provided, specify year of the data

	Optional base-line year (include year)	2015	2016	2017
Water use intensity	<input type="text"/>	<input type="text"/>	<input type="text" value="0.48"/>	<input type="text" value="0.22"/>
% of portfolio covered	<input type="text"/>	<input type="text"/>	<input type="text" value="64"/>	<input type="text" value="63"/>

Select the elements for which intensities are normalized in your calculations

Air conditioning and/or natural ventilation

Building age

Degree days

Footfall

Occupancy rate

Operational hours

Weather conditions

Other

None of the above

Explain (a) the water use intensity calculation method, (b) assumptions made in the calculation, and (c) how intensities are used by the entity in its operations (maximum 250 words)

Ventas, Inc calculates their portfolio Water use intensity using site EUI and the following three factors: Building Age, Degree Days, and Occupancy. The Site EUI is calculated by dividing the total yearly water use in cubic meters by the gross square footage of the property. Building Age is utilized by dividing building age by average age of the portfolio, in an effort to add weight to newer properties that should be performing more efficiently and reward older properties that function efficiently. Annual Degree Days are gathered at the property level from Weather Underground. The Site EUI is adjusted by the factor of the property's Total Degree Days scaled to the portfolio average. Occupancy is collected as an annual percentage from each property. the Site EUI is adjusted to 100% occupancy for each property. Property EUIs are averaged for each property type to generate the portfolio EUI. The resulting unit of the portfolio EUI is cubic meters/sf (normalized by degree days, occupancy % and age). (b) Assumptions were made whenever the average yearly occupancy for a property was 0. The occupancy was adjusted to match the change in use from one year to the next. (c) Ventas, Inc uses intensity rates as a way to benchmark their properties against one another. Low performing buildings are then targeted as good candidates for water reduction projects.

No

PI3.3

Water reuse and recycling Medical Office

Does the entity collect reuse, recycling and consumption data?

Yes

No

PERFORMANCE INDICATORS

Medical Office > Waste Management

PI4.0

Does the entity collect waste data for Medical Office?

Yes

Will the waste management data of this property type be reported at the asset level?

Yes

Please use the [GRESB Asset Portal](#) to complete this Indicator.

No

No

PI4.1

Waste management for Medical Office

Report absolute values for 2016 and 2017. All assets in the whole portfolio for Medical Office should be included.

		Absolute Measurement		
		2016	2017	
1	Managed Assets	Total weight of hazardous waste in metric tonnes	<input type="text"/>	<input type="text"/>
2		Total weight of non-hazardous waste in metric tonnes	<input type="text" value="13983.3482"/>	<input type="text" value="18548.6951"/>
3		% managed portfolio covered	<input type="text" value="54.8962866"/>	<input type="text" value="55.1862213"/>

PI4.1 (continued)

		Absolute Measurement	
		2016	2017
4	Indirectly Managed Assets	Total weight of hazardous waste in metric tonnes	1.0
5		Total weight of non-hazardous waste in metric tonnes	11312.4123
6		% indirectly managed portfolio covered	40.4816494
Proportion of waste by disposal route (% of total by weight)		2016	2017
7	Whole Portfolio (MED)	Landfill	74.4995986
8		Incineration	0.0
9		Diverted (total)	25.5004013
10		Diverted - waste to energy (optional)	
11		Diverted - recycling (optional)	25.5004013
12		Diverted - other (optional)	
13		Other	0.0

Explain (a) assumptions made in reporting, (b) limitations in the ability to collect data, and (c) exclusions from portfolio (maximum 250 words)

- a) Ventas, Inc assumes that data provided by waste vendors, either in volume or weight, is an accurate representation of the waste produced by a property. Ventas, Inc also assumes that waste measurements taken from the portfolio are representative of the portfolio's waste production, independent of any external sources of waste (pedestrians, neighbors, etc) who may co-opt the portfolio's waste collection services.
- b) Properties whose tenants have their own waste contracts had a limited ability to collect waste data from their tenants, due to the diversity of waste vendors and tenant confidentiality.
- c) No properties were excluded from reporting, though some properties were unable to provide waste data due to difficulty contacting tenants or waste vendors.

The information above is correct and complete for all Medical Office assets

PERFORMANCE INDICATORS

Other > Energy Consumption

PI1.0

Does the entity collect energy consumption data for Other?

Yes

Please provide the TOTAL floor area of your portfolio for this property type, regardless of energy supply and energy data availability and complete PI1.1 - PI1.3 for this property type.

Managed Assets	Floor area [ft ²]
Common Areas	0

PI1.1 (continued)

Managed Assets Whole building	Absolute Consumption				Like-for-like Consumption			
	2016	2017		2016	2017	Like-for-like Change		
	Consumption (MWh)	Consumption (MWh)	Data coverage (ft ²)	Maximum coverage (ft ²)	Consumption (MWh)	Consumption (MWh)	Data coverage (ft ²)	%
20 Total energy consumption of Whole Building	0	0	N/A	N/A	0	0	N/A	
21 Total energy consumption of Managed Assets	0	0	N/A	N/A	0	0	N/A	

Indirectly Managed Assets Whole building	Absolute Consumption				Like-for-like Consumption			
	2016	2017		2016	2017	Like-for-like Change		
	Consumption (MWh)	Consumption (MWh)	Data coverage (ft ²)	Maximum coverage (ft ²)	Consumption (MWh)	Consumption (MWh)	Data coverage (ft ²)	%
22 Tenant space	Fuels	22953.4274	39863.0544	2518735.0	2647913.0			
	District Heating & Cooling	4299.8997	5379.5646	330126.0	330126.0			
	Electricity	60811.0633	59544.3853	2754814.0	4708374.0			
25 Outdoor/Exterior areas / Parking	Fuels			N/A	N/A			N/A
	Electricity			N/A	N/A			N/A
27 Total energy consumption of Indirectly Managed Assets	88,064	104,787	N/A	N/A	0	0	N/A	
28 Total energy consumption of Whole Portfolio	88,064	104,787	N/A	N/A	0	0	N/A	

Explain (a) assumptions made in reporting, (b) limitations in the ability to collect data and (c) exclusions from like-for-like portfolio (maximum 250 words)

- a) Ventas, Inc assumes that data provided by utility providers in invoices is the most accurate representation of a property's consumption.
- b) Properties not under the operational control of Ventas, Inc and properties in regions without utility aggregation services were more limited in their ability to collect data, especially properties with more tenant-controlled data.
- c) Properties bought or sold within the reporting period (2016-2017) and properties with new construction or major renovation activities were excluded from like-for-like reporting. Within the set of properties that met those conditions, properties with data coverage that was inconsistent throughout the reporting period were also excluded.

Does the entity report the average annual vacancy rate in the like-for-like portfolio for this property type?

Yes

No

The information above is correct and complete for all Other assets

PI1.2

Energy use intensity rates Other

Does the entity report energy use intensities in the whole portfolio for this property type?

Yes

If optional base-line year data is provided, specify year of the data

	Optional base-line year (include year)	2015	2016	2017
Energy use intensity	<input type="text"/>	<input type="text"/>	<input type="text" value="348.17"/>	<input type="text" value="175.55"/>
% of portfolio covered	<input type="text"/>	<input type="text"/>	<input type="text" value="57"/>	<input type="text" value="57"/>

Select the elements for which intensities are normalized in your calculations

Air conditioning and/or natural ventilation

Building age

Degree days

Footfall

Occupancy rate

Operational hours

Weather conditions

Other

None of the above

Explain (a) the energy use intensity calculation method, (b) assumptions made in the calculation, and (c) how intensities are used by the entity in its operations (maximum 250 words)

Ventas, Inc calculates their portfolio energy use intensity using site EUI and the following three factors: Building Age, Degree Days, and Occupancy. The Site EUI is calculated by dividing the total energy use per property in kWh by the gross square footage of the property. Building Age is utilized by dividing building age by average age of the portfolio, in an effort to add weight to newer properties that should be performing more efficiently and reward older properties that function efficiently. Annual Degree Days are gathered at the property level from Weather Underground. The Site EUI is adjusted by the factor of the property's Total Degree Days scaled to the portfolio average. Occupancy is collected as an annual percentage from each property. The Site EUI is adjusted to 100% occupancy for each property. Property EUIs are averaged for each property type to generate the portfolio EUI. The resulting unit of the portfolio EUI is kWh/sf (normalized by degree days, occupancy % and age). (b) Assumptions were made whenever the average yearly occupancy for a property was 0. The occupancy was adjusted to match the change in use from one year to the next. (c) Ventas, Inc uses intensity rates as a way to benchmark their properties against one another. Low performing buildings are then targeted as good candidates for energy efficiency upgrades and reduction projects.

No

PI1.3

Renewable energy generated Other

Does the entity collect renewable energy consumption and generation data in the whole portfolio for this property type?

Yes

Report absolute renewable energy generation and consumption. All assets in the portfolio for this property type should be included.

	Absolute measurement	
	2016	2017
On-site renewable energy (MWh generated and consumed on-site)	26.79	51.67
Off-site renewable energy (MWh generated off-site or purchased from third party)		
On-site renewable energy (MWh generated on-site and exported)		
Total renewable energy	27	52
Percentage renewable energy	0.03	0.05

No

PERFORMANCE INDICATORS

Other > GHG Emissions

PI2.0

Does the entity collect GHG emissions data for Other?

Yes

The GHG emissions reported below are calculated using:

Location-based method

Market-based method

The inventory reporting boundary of the GHG emissions reported below is determined using:

Equity control approach

Financial control approach

Operational control approach

Will the GHG emissions data of this property type be reported at the asset level?

Yes

Please use the [GRESB Asset Portal](#) to complete this Indicator.

No

No

PI2.1

GHG emissions for Other

Report absolute values and like-for-like consumption for 2016 and 2017. All assets in the whole portfolio for Other should be included.

		Absolute GHG Emissions				Like-for-like Consumption			
		2016	2017		2016	2017	Data coverage (ft ²)	Like-for-like Change %	
		Emissions (tonnes)	Emissions (tonnes)	Data coverage (ft ²)	Maximum potential coverage (ft ²)	Emissions (tonnes)			Emissions (tonnes)
1	Scope 1	4145.37157	7185.99872	2498081.18	2957385.18				
2	Scope 2	21447.5236	21718.3831	2628519.86	4559588.17				
3	Scope 3	1081.56553	445.798997	126294.132	148785.826				
4	GHG Offsets purchased			N/A	N/A			N/A	
5	Net GHG Emissions after offsets			N/A	N/A			N/A	

Scope 3 emissions in the 2018 GRESB Assessment should be calculated as the emissions associated with tenant controlled areas/electricity purchased by the tenant and indirectly managed assets if these have not been reported upon already in Scope 1 and Scope 2 emissions. Note that if tenant emissions data is not available, data coverage for these areas should be 0, while the maximum data coverage should correspond to the tenant areas generating the emissions. Scope 3 emissions should not include emissions generated through the entity's operations or by its employees, transmission losses or upstream supply chain emissions.

Explain (a) the GHG emissions calculation standard/methodology/protocol, (b) used emission factors, (c) level of uncertainty in data accuracy, (d) exclusions from like-for-like portfolio, and (e) Scope 3 emissions, (f) source and characteristics of GHG emissions offsets (maximum 250 words)

a) Ventas follows the Equity share approach as outlined in the GHG Protocol

b) Ventas, Inc uses a calculator based on the EPA E-grid, IEA Emission factors, EPA Climate Leadership factors. Scope 2 emissions associated with the use of purchased electricity in the United States are calculated using the United States EPA eGRID 2016 sub-region emissions factors for CO₂, CH₄, and N₂O, resulting in combined GHG emissions in CO₂e for each site. Global warming potential (GWP) values for each greenhouse gas were taken from the Intergovernmental Panel on Climate Change (IPCC) Fifth Assessment Report. Scope 2 Emission associated with the use of purchased electricity outside of the United States are calculated using the International Energy Agency (IEA) WORLD CO₂ EMISSION FACTORS (2017 Edition) - Emissions per kwh of electricity only.

c) The EPA's most recent factors were updated in 2016, this leaves room for uncertainty when using these factors to calculate the carbon emissions for 2017 data.
 d) Properties bought or sold within the reporting period (2016-2017) and properties with new construction or major renovation activities were excluded from like-for-like reporting. Within the set of properties that met those conditions, meters with data coverage that was inconsistent throughout the reporting period were also excluded.
 e) Scope 3 emissions are allocated by Percent Ownership. Scope 1 and 2 emissions represent the percent share in the asset.
 f) None Purchased

The information above is correct and complete for all Other assets

PI2.2

GHG emissions intensity rates Other

Does the entity report GHG emissions intensities?

Yes

If optional base-line year data is provided, specify year of the data

	Optional base-line year (include year)	2015	2016	2017
GHG emissions intensity	<input type="text"/>	<input type="text"/>	<input type="text" value="0.1"/>	<input type="text" value="0.05"/>
% of portfolio covered	<input type="text"/>	<input type="text"/>	<input type="text" value="57"/>	<input type="text" value="57"/>

Select the elements for which intensities are normalized in your calculations

Air conditioning and/or natural ventilation

Building age

Degree days

Footfall

Occupancy rate

Operational hours

Weather conditions

Other

None of the above

Explain (a) the GHG emissions intensity calculation method, (b) assumptions made in the calculation, and (c) how intensities are used by the entity in its operations (maximum 250 words)

Ventas, Inc calculates their portfolio GHG use intensity using site EUI and the following three factors: Building Age, Degree Days, and Occupancy. The Site EUI is calculated by dividing the total yearly CO2 emissions in metric tonnes by the gross square footage of the property. Building Age is utilized by dividing building age by average age of the portfolio, in an effort to add weight to newer properties that should be performing more efficiently and

PI3.1 (continued)

Managed Assets		Absolute Consumption				Like-for-like Consumption			
		2016	2017		2016	2017	Data coverage (ft ²)	Like-for-like Change %	
		Consumption (m ³)	Consumption (m ³)	Data coverage (ft ²)	Maximum coverage (ft ²)	Consumption (m ³)			Consumption (m ³)
2	Shared Services / Central Plant								
3	Outdoor / Exterior areas / Parking			N/A	N/A			N/A	
4	Total water usage Base Building	0	0	N/A	N/A	0	0	N/A	
5	Tenant space	Purchased by landlord							
6		Purchased by tenant							
7	Total water usage Tenant Areas	0	0	N/A	N/A	0	0	N/A	
8	Whole building	Combined consumption common areas + tenant space							
9	Total water usage Whole Building	0	0	N/A	N/A	0	0	N/A	
10	Total water usage Managed Assets	0	0	N/A	N/A	0	0	N/A	

Indirectly Managed Assets		Absolute Consumption				Like-for-like Consumption			
		2016	2017		2016	2017	Data coverage (ft ²)	Like-for-like Change %	
		Consumption (m ³)	Consumption (m ³)	Data coverage (ft ²)	Maximum coverage (ft ²)	Consumption (m ³)			Consumption (m ³)
11	Whole building	Tenant space	70478.4052	281094.312	2818601.0	4708374.0			
12		Outdoor / Exterior areas / Parking			N/A	N/A		N/A	
13	Total water usage Indirectly Managed Assets	70,478	281,094	N/A	N/A	0	0	N/A	
14	Total water usage Whole Portfolio	70,478	281,094	N/A	N/A	0	0	N/A	

Explain (a) assumptions made in reporting, (b) limitations in the ability to collect data and (c) exclusions from like-for-like portfolio (maximum 250 words)

a) Ventas, Inc assumes that data provided by utility providers on invoices is the most accurate representation of a property's consumption.
 b) Properties not under the operational control of Ventas, Inc and properties in regions without utility aggregation services were more limited in their ability to collect data, especially properties with more tenant-controlled data.
 c) Properties bought or sold within the reporting period (2016-2017) and properties with new construction or major renovation activities were excluded from like-for-like reporting. Within the set of properties that met those conditions, meters with data coverage that was inconsistent throughout the reporting period were also excluded.

Does the entity report the average annual vacancy rate in the like-for-like portfolio for this property type?

Yes

No

The information above is correct and complete for all Other assets

PI3.2

Water use intensity rates Other

Does the entity report water use intensities?

Yes

If optional base-line year data is provided, specify year of the data

	Optional base-line year (include year)	2015	2016	2017
Water use intensity	<input type="text"/>	<input type="text"/>	<input type="text" value="0.67"/>	<input type="text" value="0.53"/>
% of portfolio covered	<input type="text"/>	<input type="text"/>	<input type="text" value="60"/>	<input type="text" value="60"/>

Select the elements for which intensities are normalized in your calculations

Air conditioning and/or natural ventilation

Building age

Degree days

Footfall

Occupancy rate

Operational hours

Weather conditions

Other

None of the above

Explain (a) the water use intensity calculation method, (b) assumptions made in the calculation, and (c) how intensities are used by the entity in its operations (maximum 250 words)

Ventas, Inc calculates their portfolio Water use intensity using site EUI and the following three factors: Building Age, Degree Days, and Occupancy. The Site EUI is calculated by dividing the total yearly water use in cubic meters by the gross square footage of the property. Building Age is utilized by dividing building age by average age of the portfolio, in an effort to add weight to newer properties that should be performing more efficiently and reward older properties that function efficiently. Annual Degree Days are gathered at the property level from Weather Underground. The Site EUI is adjusted by the factor of the property's Total Degree Days scaled to the portfolio average. Occupancy is collected as an annual percentage from each property, the Site EUI is adjusted to 100% occupancy for each property. Property EUIs are averaged for each property type to generate the portfolio EUI. The resulting unit of the portfolio EUI is cubic meters/sf (normalized by degree days, occupancy % and age). (b) Assumptions were made whenever the average yearly occupancy for a property was 0. The occupancy was adjusted to match the change in use from one year to the next. (c) Ventas, Inc uses intensity rates as a way to benchmark their properties against one another. Low performing buildings are then targeted as good candidates for water reduction projects.

No

PI3.3

Water reuse and recycling Other

Does the entity collect reuse, recycling and consumption data?

Yes

No

PERFORMANCE INDICATORS

Other > Waste Management

PI4.0

Does the entity collect waste data for Other?

Yes

Will the waste management data of this property type be reported at the asset level?

Yes

Please use the [GRESB Asset Portal](#) to complete this Indicator.

No

No

PI4.1

Waste management for Other

Report absolute values for 2016 and 2017. All assets in the whole portfolio for Other should be included.

		Absolute Measurement		
		2016	2017	
1	Managed Assets	Total weight of hazardous waste in metric tonnes	<input type="text"/>	<input type="text"/>
2		Total weight of non-hazardous waste in metric tonnes	<input type="text"/>	<input type="text"/>
3		% managed portfolio covered	<input type="text"/>	<input type="text"/>
4	Indirectly Managed Assets	Total weight of hazardous waste in metric tonnes	<input type="text"/>	<input type="text"/>
5		Total weight of non-hazardous waste in metric tonnes	<input type="text"/>	86.8239
6		% indirectly managed portfolio covered	0.0	20.6159706
		Proportion of waste by disposal route (% of total by weight)		
7	Whole Portfolio (OTH)	Landfill	<input type="text"/>	51.7866151
8		Incineration	<input type="text"/>	0.0
9		Diverted (total)	<input type="text"/>	48.2133848
10		Diverted - waste to energy (optional)	<input type="text"/>	<input type="text"/>
11		Diverted - recycling (optional)	<input type="text"/>	48.2133848
12		Diverted - other (optional)	<input type="text"/>	<input type="text"/>
13		Other	<input type="text"/>	0.0

Explain (a) assumptions made in reporting, (b) limitations in the ability to collect data, and (c) exclusions from portfolio (maximum 250 words)

- a) Ventas, Inc assumes that data provided by waste vendors, either in volume or weight, is an accurate representation of the waste produced by a property. Ventas, Inc also assumes that waste measurements taken from the portfolio are representative of the portfolio's waste production, independent of any external sources of waste (pedestrians, neighbors, etc) who may co-opt the portfolio's waste collection services.
- b) Properties whose tenants have their own waste contracts had a limited ability to collect waste data from their tenants, due to the diversity of waste vendors and tenant confidentiality.
- c) No properties were excluded from reporting, though some properties were unable to provide waste data due to difficulty contacting tenants or waste vendors.

The information above is correct and complete for all Other assets

PERFORMANCE INDICATORS

Data Review

P11.4

Review, verification and assurance of energy consumption data

Has the entity's energy consumption data reported above been reviewed by an independent third party?

Yes

Externally checked

Externally verified

Verified by
Goby, Inc.

Using scheme

Externally assured

[Goby Verification Doc -GRESB 2018.docx](#)

Indicate where in the evidence the relevant information can be found

Show investors

No

Not applicable

P12.3

Review, verification and assurance of GHG emissions data

Has the entity's GHG emissions data reported above been reviewed by an independent third party?

Yes

Externally checked

Externally verified

Verified by
Goby, Inc.

Using scheme

Externally assured

[Goby Verification Doc -GRESB 2018.docx](#)

Indicate where in the evidence the relevant information can be found

Show investors

No

Not applicable

PI3.4

Review, verification and assurance of water use data

Has the entity's water use data reported above been reviewed by an independent third party?

Yes

Externally checked

Externally verified

Verified by
Goby, Inc.

Using scheme

Externally assured

[Goby Verification Doc -GRESB 2018.docx](#)

Indicate where in the evidence the relevant information can be found

Show investors

No

Not applicable

PI4.2

Review, verification and assurance of waste management data

Has the entity's waste management data reported above been reviewed by an independent third party?

Yes

Externally checked

Externally verified

Verified by

Goby, Inc.

Using scheme

Externally assured

[Goby Verification Doc -GRESB 2018.docx](#)

Indicate where in the evidence the relevant information can be found

Show investors

No

Not applicable

PERFORMANCE INDICATORS

Targets

PI5

Has the entity set long-term reduction targets?

Yes

Area	Target type	Long-term target	Baseline year	End year	2017 target	Portfolio coverage	Are these targets communicated externally?
Energy consumption	<input type="text" value="Like-for-like"/>	<input type="text" value="10"/>	<input type="text" value="2013"/>	<input type="text" value="2023"/>	<input type="text" value="1"/>	<input type="text" value="31"/>	<input type="text" value="Yes"/>
GHG emissions	<input type="text" value="Like-for-like"/>	<input type="text" value="10"/>	<input type="text" value="2013"/>	<input type="text" value="2023"/>	<input type="text" value="1"/>	<input type="text" value="31"/>	<input type="text" value="Yes"/>
Water consumption	<input type="text" value="Like-for-like"/>	<input type="text" value="5"/>	<input type="text" value="2013"/>	<input type="text" value="2023"/>	<input type="text" value="0.5"/>	<input type="text" value="31"/>	<input type="text" value="Yes"/>
Waste diverted from landfill	<input type="text" value="Like-for-like"/>	<input type="text" value="4"/>	<input type="text" value="2013"/>	<input type="text" value="2023"/>	<input type="text" value="0.4"/>	<input type="text" value="31"/>	<input type="text" value="Yes"/>
<input type="text" value=""/>	<input type="text" value="."/>	<input type="text" value=""/>	<input type="text" value="."/>	<input type="text" value="."/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value="."/>

Clarify if and how these targets relate to the objectives reported in MA1 (maximum 250 words)

The like-for-like pool to which these targets apply includes 407 properties totaling ~29 million SF (31% of our total portfolio). These targets allow Ventas to measure its progress toward its commitment to sustainability. By tracking annual progress against the targets, we ensure that we are continuously improving the energy, emissions, water and waste profile of our portfolio.

No

BUILDING CERTIFICATIONS

Retail, High Street > Green Building Certificates

BC1.1

Does the entity's portfolio include standing investments that obtained a green building certificate at the time of design, construction, and/or renovation?

Yes

No

Not applicable

BC1.2

Does the entity's portfolio include standing investments that hold a valid operational green building certificate?

Yes

No

Not applicable

BUILDING CERTIFICATIONS

Retail, High Street > Energy Ratings

BC2

Does the entity's portfolio include standing investments that obtained an energy rating?

Yes

No

Not applicable

BUILDING CERTIFICATIONS

Retail, Shopping Center > Green Building Certificates

BC1.1

Does the entity's portfolio include standing investments that obtained a green building certificate at the time of design, construction, and/or renovation?

Yes

No

Not applicable

BC1.2

Does the entity's portfolio include standing investments that hold a valid operational green building certificate?

Yes

No

Not applicable

BUILDING CERTIFICATIONS

Retail, Shopping Center > Energy Ratings

BC2

Does the entity's portfolio include standing investments that obtained an energy rating?

Yes

No

Not applicable

BUILDING CERTIFICATIONS

Retail, Warehouse > Green Building Certificates

BC1.1

Does the entity's portfolio include standing investments that obtained a green building certificate at the time of design, construction, and/or renovation?

Yes

No

Not applicable

BC1.2

Does the entity's portfolio include standing investments that hold a valid operational green building certificate?

Yes

No

Not applicable

BUILDING CERTIFICATIONS

Retail, Warehouse > Energy Ratings

BC2

Does the entity's portfolio include standing investments that obtained an energy rating?

Yes

No

Not applicable

BUILDING CERTIFICATIONS

Office > Green Building Certificates

BC1.1

Does the entity's portfolio include standing investments that obtained a green building certificate at the time of design, construction, and/or renovation?

Yes

No

Not applicable

BC1.2

Does the entity's portfolio include standing investments that hold a valid operational green building certificate?

Yes

No

Not applicable

BUILDING CERTIFICATIONS

Office > Energy Ratings

BC2

Does the entity's portfolio include standing investments that obtained an energy rating?

Yes

No

Not applicable

BUILDING CERTIFICATIONS

Industrial, Distribution Warehouse > Green Building Certificates

BC1.1

Does the entity's portfolio include standing investments that obtained a green building certificate at the time of design, construction, and/or renovation?

Yes

No

Not applicable

BC1.2

Does the entity's portfolio include standing investments that hold a valid operational green building certificate?

Yes

No

Not applicable

BUILDING CERTIFICATIONS

Industrial, Distribution Warehouse › Energy Ratings

BC2

Does the entity's portfolio include standing investments that obtained an energy rating?

Yes

No

Not applicable

BUILDING CERTIFICATIONS

Industrial, Business Parks › Green Building Certificates

BC1.1

Does the entity's portfolio include standing investments that obtained a green building certificate at the time of design, construction, and/or renovation?

Yes

No

Not applicable

BC1.2

Does the entity's portfolio include standing investments that hold a valid operational green building certificate?

Yes

No

Not applicable

BUILDING CERTIFICATIONS

Industrial, Business Parks › Energy Ratings

BC2

Does the entity's portfolio include standing investments that obtained an energy rating?

Yes

No

Not applicable

BUILDING CERTIFICATIONS

Industrial, Manufacturing › Green Building Certificates

BC1.1

Does the entity's portfolio include standing investments that obtained a green building certificate at the time of design, construction, and/or renovation?

Yes

No

Not applicable

BC1.2

Does the entity's portfolio include standing investments that hold a valid operational green building certificate?

Yes

No

Not applicable

BUILDING CERTIFICATIONS

Industrial, Manufacturing > Energy Ratings

BC2

Does the entity's portfolio include standing investments that obtained an energy rating?

Yes

No

Not applicable

BUILDING CERTIFICATIONS

Residential, Multi-family > Green Building Certificates

BC1.1

Does the entity's portfolio include standing investments that obtained a green building certificate at the time of design, construction, and/or renovation?

Yes

No

Not applicable

BC1.2

Does the entity's portfolio include standing investments that hold a valid operational green building certificate?

Yes

No

Not applicable

BUILDING CERTIFICATIONS

Residential, Multi-family > Energy Ratings

BC2

Does the entity's portfolio include standing investments that obtained an energy rating?

Yes

No

Not applicable

BUILDING CERTIFICATIONS

Residential, Family Homes > Green Building Certificates

BC1.1

Does the entity's portfolio include standing investments that obtained a green building certificate at the time of design, construction, and/or renovation?

Yes

No

Not applicable

BC1.2

Does the entity's portfolio include standing investments that hold a valid operational green building certificate?

Yes

No

Not applicable

BUILDING CERTIFICATIONS

Residential, Family Homes > Energy Ratings

BC2

Does the entity's portfolio include standing investments that obtained an energy rating?

Yes

No

Not applicable

BUILDING CERTIFICATIONS

Senior Homes › Green Building Certificates

BC1.1

Does the entity's portfolio include standing investments that obtained a green building certificate at the time of design, construction, and/or renovation?

Yes

Specify the certification scheme(s) used and the percentage of the portfolio certified for this property type (multiple answers possible)

Scheme name/sub-scheme name	Level of certification	% portfolio covered by floor area	Number of certified assets
LEED/ID+C: Commercial Interiors	Certified	<input type="text" value="0.3"/>	<input type="text" value="2"/>
LEED/for Homes	Gold	<input type="text" value="0.34"/>	<input type="text" value="2"/>
LEED/Building Design and Construction (BD+C)	Certified	<input type="text" value="0.17"/>	<input type="text" value="1"/>
LEED/Building Design and Construction (BD+C)	Gold	<input type="text" value="0.23"/>	<input type="text" value="1"/>
LEED/Building Design and Construction (BD+C)	Silver	<input type="text" value="0.59"/>	<input type="text" value="3"/>

A list of provisionally validated certification schemes is provided in the Appendix of the [Reference Guide](#). If you wish to add a new scheme, please contact info@gresb.com, and you will be asked to complete the validation questions for the scheme (see Reference Guide Appendix).

No

Not applicable

BC1.2

Does the entity's portfolio include standing investments that hold a valid operational green building certificate?

- Yes
- No
- Not applicable

BUILDING CERTIFICATIONS

Senior Homes › Energy Ratings

BC2

Does the entity's portfolio include standing investments that obtained an energy rating?

- Yes

Specify the energy efficiency rating scheme used and the percentage of the portfolio rated for this property type (multiple answers possible)

EU EPC (Energy Performance Certificate)

NABERS Energy

ENERGY STAR

Year	% portfolio covered	Floor area weighted score
2016	2.21	84
2017	2.98	86

Government energy efficiency benchmarking

Other

- No
- Not applicable

BUILDING CERTIFICATIONS

Residential, Student Housing › Green Building Certificates

BC1.1

Does the entity's portfolio include standing investments that obtained a green building certificate at the time of design, construction, and/or renovation?

- Yes
- No
- Not applicable

BC1.2

Does the entity's portfolio include standing investments that hold a valid operational green building certificate?

Yes

No

Not applicable

BUILDING CERTIFICATIONS

Residential, Student Housing > Energy Ratings

BC2

Does the entity's portfolio include standing investments that obtained an energy rating?

Yes

No

Not applicable

BUILDING CERTIFICATIONS

Hotel > Green Building Certificates

BC1.1

Does the entity's portfolio include standing investments that obtained a green building certificate at the time of design, construction, and/or renovation?

Yes

No

Not applicable

BC1.2

Does the entity's portfolio include standing investments that hold a valid operational green building certificate?

Yes

No

Not applicable

BUILDING CERTIFICATIONS

Hotel > Energy Ratings

BC2

Does the entity's portfolio include standing investments that obtained an energy rating?

Yes

No

Not applicable

BUILDING CERTIFICATIONS

Healthcare > Green Building Certificates

BC1.1

Does the entity's portfolio include standing investments that obtained a green building certificate at the time of design, construction, and/or renovation?

Yes

No

Not applicable

BC1.2

Does the entity's portfolio include standing investments that hold a valid operational green building certificate?

Yes

No

Not applicable

BUILDING CERTIFICATIONS

Healthcare > Energy Ratings

BC2

Does the entity's portfolio include standing investments that obtained an energy rating?

Yes

No

Not applicable

BUILDING CERTIFICATIONS

Medical Office > Green Building Certificates

BC1.1

Does the entity's portfolio include standing investments that obtained a green building certificate at the time of design, construction, and/or renovation?

Yes

Specify the certification scheme(s) used and the percentage of the portfolio certified for this property type (multiple answers possible)

Scheme name/sub-scheme name	Level of certification	% portfolio covered by floor area	Number of certified assets
LEED/BD+C: Core and Shell Development	Silver	<input type="text" value="0.35"/>	<input type="text" value="1"/>
LEED/BD+C: Core and Shell Development	Certified	<input type="text" value="0.1"/>	<input type="text" value="1"/>
LEED/Building Design and Construction (BD+C)	Certified	<input type="text" value="0.91"/>	<input type="text" value="2"/>
LEED/Building Design and Construction (BD+C)	Gold	<input type="text" value="0.57"/>	<input type="text" value="1"/>
LEED/BD+C: Core and Shell Development	Platinum	<input type="text" value="0.22"/>	<input type="text" value="1"/>

A list of provisionally validated certification schemes is provided in the Appendix of the [Reference Guide](#). If you wish to add a new scheme, please contact info@gresb.com, and you will be asked to complete the validation questions for the scheme (see Reference Guide Appendix).

No

Not applicable

BC1.2

Does the entity's portfolio include standing investments that hold a valid operational green building certificate?

Yes

No

Not applicable

BUILDING CERTIFICATIONS

Medical Office > Energy Ratings

BC2

Does the entity's portfolio include standing investments that obtained an energy rating?

Yes

No

Not applicable

BUILDING CERTIFICATIONS

Lodging, Leisure & Recreation > Green Building Certificates

BC1.1

Does the entity's portfolio include standing investments that obtained a green building certificate at the time of design, construction, and/or renovation?

Yes

No

Not applicable

BC1.2

Does the entity's portfolio include standing investments that hold a valid operational green building certificate?

Yes

No

Not applicable

BUILDING CERTIFICATIONS

Lodging, Leisure & Recreation > Energy Ratings

BC2

Does the entity's portfolio include standing investments that obtained an energy rating?

Yes

No

Not applicable

BUILDING CERTIFICATIONS

Data Centers > Green Building Certificates

BC1.1

Does the entity's portfolio include standing investments that obtained a green building certificate at the time of design, construction, and/or renovation?

Yes

No

Not applicable

BC1.2

Does the entity's portfolio include standing investments that hold a valid operational green building certificate?

Yes

No

Not applicable

BUILDING CERTIFICATIONS

Data Centers > Energy Ratings

BC2

Does the entity's portfolio include standing investments that obtained an energy rating?

Yes

No

Not applicable

BUILDING CERTIFICATIONS

Self-storage > Green Building Certificates

BC1.1

Does the entity's portfolio include standing investments that obtained a green building certificate at the time of design, construction, and/or renovation?

Yes

No

Not applicable

BC1.2

Does the entity's portfolio include standing investments that hold a valid operational green building certificate?

Yes

No

Not applicable

BUILDING CERTIFICATIONS

Self-storage › Energy Ratings

BC2

Does the entity's portfolio include standing investments that obtained an energy rating?

Yes

No

Not applicable

BUILDING CERTIFICATIONS

Parking (indoors) › Green Building Certificates

BC1.1

Does the entity's portfolio include standing investments that obtained a green building certificate at the time of design, construction, and/or renovation?

Yes

No

Not applicable

BC1.2

Does the entity's portfolio include standing investments that hold a valid operational green building certificate?

Yes

No

Not applicable

BUILDING CERTIFICATIONS

Parking (indoors) › Energy Ratings

BC2

Does the entity's portfolio include standing investments that obtained an energy rating?

Yes

Reporting Characteristics

No

Not applicable

BUILDING CERTIFICATIONS

Other > Green Building Certificates

BC1.1

Does the entity's portfolio include standing investments that obtained a green building certificate at the time of design, construction, and/or renovation?

Yes

Specify the certification scheme(s) used and the percentage of the portfolio certified for this property type (multiple answers possible)

Scheme name/sub-scheme name	Level of certification	% portfolio covered by floor area	Number of certified assets
LEED/BD+C: Core and Shell Development	Certified	5.98	2
LEED/BD+C: Core and Shell Development	Gold	19.66	4
LEED/BD+C: Core and Shell Development	Platinum	20.42	3
LEED/BD+C: Core and Shell Development	Silver	9.86	3
LEED/Building Design and Construction (BD+C)	Gold	6.07	1

A list of provisionally validated certification schemes is provided in the Appendix of the [Reference Guide](#). If you wish to add a new scheme, please contact info@gresb.com, and you will be asked to complete the validation questions for the scheme (see Reference Guide Appendix).

No

Not applicable

BC1.2

Does the entity's portfolio include standing investments that hold a valid operational green building certificate?

Yes

No

Not applicable

BUILDING CERTIFICATIONS

Other > Energy Ratings

BC2

Does the entity's portfolio include standing investments that obtained an energy rating?

Yes

No

Not applicable

BUILDING CERTIFICATIONS

Other 2 > Green Building Certificates

BC1.1

Does the entity's portfolio include standing investments that obtained a green building certificate at the time of design, construction, and/or renovation?

Yes

No

Not applicable

BC1.2

Does the entity's portfolio include standing investments that hold a valid operational green building certificate?

Yes

No

Not applicable

BUILDING CERTIFICATIONS

Other 2 > Energy Ratings

BC2

Does the entity's portfolio include standing investments that obtained an energy rating?

Yes

Reporting Characteristics

No

Not applicable

STAKEHOLDER ENGAGEMENT

Employees

SE1

Does the organization provide regular trainings for the employees responsible for the entity?

Yes

Percentage of employees who received professional training in 2017

Percentage of employees who received sustainability-specific training in 2017

Sustainability-specific training focuses on the following elements (multiple answers possible)

Training topics on environmental issues

Contamination

Greenhouse gas emissions

Energy

Natural hazards

Regulatory standards

Supply chain environmental impacts

Waste

Water

Other

Training topics on social issues

Community social and economic impacts

Safety

Community safety

Customer / tenant safety

Employee safety

Supply chain safety

Health and well-being

Community health and well-being

Customer / tenant health and well-being

Employee health and well-being

Supply chain health and well-being

Other

No

SE2.1

Has the organization undertaken an employee satisfaction survey during the last three years?

Yes

The survey is undertaken (multiple answers possible)

Internally

By an independent third party

Percentage of employees covered

Name of the organization

CEB

Survey response rate

The survey includes quantitative metrics

Yes

Metrics include

Net Promoter Score

Overall satisfaction score

Other

No

[Employee Engagement Survey Presentation 2017 FINAL.pdf](#)

Indicate where in the evidence the relevant information can be found

Show investors

No

SE2.2

Does the organization have a program in place to improve its employee satisfaction based on the outcomes of the survey referred to in SE2.1?

Yes

Select all applicable options (multiple answers possible)

Development of action plan

Feedback sessions with Senior Management Team

Feedback sessions with separate teams/departments

Focus groups

Other

No

Not applicable

SE3.1

Does the organization monitor employee health and well-being needs?

Yes

Select all applicable options (multiple answers possible)

Employee surveys on health and well-being

Percentage of employees

97

Physical and/or mental health checks

Other

Other selected. Please describe

Employee Network events through our Young Professionals, Diversity and Women's Networks, such as fitness classes and roundtable lunch discussions on women's workplace

Percentage of employees

57

No

Not applicable

SE3.2

Has the organization monitored conditions for and/or tracked indicators of employee safety during the last three years?

Yes

Select all applicable options (multiple answers possible)

Work station and/or workplace checks

Percentage of employees

57

Absentee rate

Injury rate

Lost day rate

1.1

Other metrics

Other selected. Please describe

Percent of employees that exceed PTO limits

Rate of other metric(s)

1.4

Explain the employee occupational safety indicators calculation method (maximum 250 words)

Lost Day Rate: Ventas calculates this as the lost-time injuries frequency rate per 1 million hours worked, consistent with the RobecoSAM CSA. Our rate decreased from 4.6 in 2016 to 1.1 in 2017, reflecting improved safety training to our Lillibridge employees.

Exceeds PTO Limits: Ventas provides employees with a set amount of paid-time-off. The Ventas Human Resources Department monitors employees who exceed the set annual limit and works with managers to address any issues. In 2017, 1.4% of employees exceeded their PTO, and the exceeded PTO hours per employee were 0.15.

All employees are covered by the Occupational Safety and Health Administration mandates and protocols.

No

STAKEHOLDER ENGAGEMENT

Suppliers

SE4.1

Does the entity include ESG-specific requirements in procurement processes to drive sustainable procurement?

Yes

Select all issues covered by procurement processes (multiple answers possible)

Business ethics

Environmental process standards

Environmental product standards

Human rights

Human health-based product standards

Occupational safety

Health and well-being

ESG-specific requirements for sub-contractors

Other

Select the external parties to whom the requirements apply (multiple answers possible)

Contractors

Property/asset managers

Suppliers

Supply chain (beyond 1 tier suppliers and contractors)

Other

[Procurement Strategy Overview_Risk Identification.pptx](#)

Indicate where in the evidence the relevant information can be found

All - relates to Business Ethics and Occupational safety for suppliers and supply chain

Show investors

[Green Purchasing Snapshot-Medical Office_2017.pdf](#)

Indicate where in the evidence the relevant information can be found

The attached is the evidence of green purchasing from suppliers of our medical office buildings.

Show investors

[Green Purchasing Snapshot_Senior Housing_2017.pdf](#)

Indicate where in the evidence the relevant information can be found

The attached is the evidence of green purchasing from suppliers of our seniors housing communities.

Show investors

No

Not applicable

SE4.2

Does the entity engage with its supply chains to ensure the specific ESG requirements in SE4.1 are met?

Yes

Describe the process (maximum 250 words)

Suppliers: National suppliers/distributors are engaged with via a quarterly business review meeting with the Director of Procurement. We are starting to include our Director of Sustainability in these discussions, when appropriate, to discuss ESG factors and ways to increase the proportion of 'green' products with reduced environmental impacts.

Property Managers/Asset Managers: We have regular meetings with our third party operators to discuss sustainability projects (e.g., energy/water/waste efficiency projects) and social issues, such as insurance claims, trends with our tenants/residents, etc.

No

Not applicable

SE5.1

Does the organization monitor property/asset managers' compliance with the ESG-specific requirements in place for this entity?

Yes

The organization monitors compliance of:

Internal property/asset managers

External property/asset managers

Both internal and external property/asset managers

Select all methods used (multiple answers possible)

Checks performed by independent third party

Name of the organization

W. W. Grainger

HD Supply

North American Corp

Staples Advantage

Property/asset manager sustainability training

Property/asset manager self-assessments

Regular meetings and/or checks performed by the organization's employees

Require external property/asset managers' alignment with a professional standard

Standard

Energy Star Labeled Appliances and Equipment

Other

[Green Team Newsletters_2017.pdf](#)

Indicate where in the evidence the relevant information can be found

All; monthly newsletters to our medical office property managers on sustainability topics, including how to implement within our buildings

Show investors

[Green Purchasing Snapshot-Medical Office_2017.pdf](#)

Indicate where in the evidence the relevant information can be found

The attached is the evidence of green purchasing from suppliers of our medical office buildings.

Show investors

[Green Purchasing Snapshot_Senior Housing_2017.pdf](#)

Indicate where in the evidence the relevant information can be found

The attached is the evidence of green purchasing from suppliers of our seniors housing communities.

Show investors

No

Not applicable

SE5.2

Does the organization monitor other direct external suppliers' and/or service providers' compliance with the ESG-specific requirements in place for this entity?

Yes

Select all methods used (multiple answers possible)

Checks performed by an independent third party

Name of the organization

W. W. Grainger

HD Supply

Staples Advantage

North American Corp

Regular meetings and/or checks performed by the organization's employees

Regular meetings and/or checks performed by external property/asset managers

Require supplier/service providers' alignment with a professional standard

Standard

Energy Star Labeled Appliances and Equipment

Supplier/service provider sustainability training

Supplier/service provider self-assessments

Other

No

Not applicable

SE6

Is there a formal process for stakeholders to communicate grievances that applies to this entity?

Yes

Select all characteristics applicable to the process:

Dialogue based

Legitimate

Accessible

Improvement based

Predictable

Equitable

Rights compatible

Transparent

Safe

Other

Which stakeholders does the process apply to? (select all that apply)

Community

Contractors

Employees

External property/asset managers

Service providers

Suppliers

Supply chain (beyond tier 1 suppliers and contractors)

Tenants

Other

No

Not applicable

STAKEHOLDER ENGAGEMENT

Tenants/Occupiers

SE7

Does the entity have a tenant engagement program in place that includes sustainability-specific issues?

Yes

Select all approaches to engage tenants (multiple answers possible)

Building/asset communication

≥75, ≤100%

Provide tenants with feedback on energy/water consumption and waste

≥50%, <75%

Social media/online platform

0%, <25%

Tenant engagement meetings

≥25%, <50%

Tenant events focused on increasing sustainability awareness

≥25%, <50%

Tenant sustainability guide

≥25%, <50%

Tenant sustainability training

≥50%, <75%

Other

No

SE8.1

Has the entity undertaken tenant satisfaction surveys during the last three years?

Yes

The survey is undertaken (multiple answers possible)

Internally

By an independent third party

Percentage of tenants covered

78

Name of the organization

Kingsley Associates

Ferrazzi Greenlight

Survey response rate

62

The survey includes quantitative metrics

Yes

Metrics include

Net Promoter Score

Overall satisfaction score

Satisfaction with communication

Satisfaction with responsiveness

Satisfaction with property management

Understanding tenant needs

Value for money

Other

No

[LHS 2017 Satisfaction Survey overview.pdf](#)

Indicate where in the evidence the relevant information can be found

All - overview of 2017 Kingsley survey for Office tenants

Show investors

[NNN Customer Survey 2016.pdf](#)

Indicate where in the evidence the relevant information can be found

All - overview of 2016 Ferrazzi Greenlight survey for NNN tenants

Show investors

No

Not applicable

SE8.2

Does the entity have a program in place to improve tenant satisfaction based on the outcomes of the survey referred to in SE8.1?

Yes

Select all applicable options (multiple answers possible)

Development of an asset-specific action plan

Feedback sessions with asset/property managers

Feedback sessions with individual tenants

Other

Describe the tenant satisfaction improvement program (maximum 250 words)

Based on the results of the Medical Office tenant satisfaction survey (administered by Kingsley), Senior Leadership identified seven key survey categories around which action plans were created. The seven categories are those that have the highest impact on overall tenant satisfaction. Properties with scores below the Kingsley Index in these seven categories create an action plan that is specific, measurable and create accountability. Properties with scores above the Kingsley Index in these seven categories share their best practices, which are incorporated into others' action plans. All action plans are reviewed and approved by the property's Regional Manager.

No

Not applicable

SE9

Does the entity have a fit-out and refurbishment program in place for tenants that includes sustainability-specific issues?

Yes

Select all topics included (multiple answers possible)

Fit-out and refurbishment assistance for meeting the minimum fit-out standards

0%, <25%

Tenant fit-out guides

0%, <25%

Minimum fit-out standards are prescribed

0%, <25%

Procurement assistance for tenants

0%, <25%

Other

No

SE10.1

Does the entity include sustainability-specific requirements in its standard lease contracts?

Yes

Select all topics included (multiple answers possible)

Cooperation and works:

Environmental initiatives

Enabling upgrade works

Sustainability management collaboration

Premises design for performance

Managing waste from works

Social initiatives

Other

Management and consumption:

Energy management

Water management

Waste management

Indoor environmental quality management

Sustainable procurement

Sustainable utilities

Sustainable transport

Sustainable cleaning

Other

Reporting and standards:

Information sharing

- Performance rating
- Design/development rating
- Performance standards
- Metering
- Comfort
- Other

Document name
FORM - Master Lease and Security Agreement

Document date
28/12/2017

No

SE10.2

Does the entity monitor compliance with the sustainability-specific requirements in its lease contracts?

Yes

Describe the process to monitor the compliance and the consequences in case of non-compliance (maximum 500 words)

1. Scope and process for how monitoring is conducted: Ventas obtains from certain tenants and operating partners annual (or more frequent) reporting (where available) on a) energy, water and waste consumption, b) LEED certifications and Energy Star ratings c) capital expenditures on sustainability initiatives (primarily when funded with Ventas capital)

2. Consequences of non-compliance: Non-compliance could result in a breach of contract, which Ventas would initially seek to resolve via dialogue. Ongoing non-compliance could result in Ventas choosing not to do additional business with the tenant.

No

Not applicable

STAKEHOLDER ENGAGEMENT

Community

SE11.1

Does the entity have a community engagement program in place that includes sustainability-specific issues?

Yes

Select all topics included (multiple answers possible)

- Effective communication and process to address community concerns
- Enhancement programs for public spaces
- Employment creation in local communities
- Community health and well-being
- Research and network activities
- Resilience, including assistance or support in case of disaster

Supporting charities and community groups

 Sustainability education program

 Other

Describe the community engagement program and the monitoring process (maximum 250 words)

Giving back to our community is an important value at Ventas. As an industry leader, we have a responsibility to improve the lives of others. Through the Ventas Charitable Foundation ("Foundation"), we support organizations that are important to our employees, customers and communities. In 2017, the Foundation donated approximately \$1 million, (25% year-over-year increase) to >80 non-profits, including many where our employees are actively involved. Employees may submit grant requests to the Foundation, which are reviewed by the Foundation Board (our CEO and other senior level employees) to confirm that grant recipients are 501(c)(3) nonprofits, aligned with the Ventas culture and values, and in good standing on guidestar.org. Ventas has a \$1 million, five-year partnership with The Greater Chicago Food Depository to sponsor its Older Adult Program, which provides food delivery to 6,500 seniors each month. Ventas also has a multi-year commitment with ElderServe, which provides supportive services that empower older adults to live independently with dignity. Ventas also engages with its local community through the All Stars Project: Chicago's Development for Youth Program, which provides development opportunities to young people in neighborhoods affected by violence. Ventas's Diversity Network hosted a 2017 workshop to develop students' public speaking skills. Ventas also engages with communities via its development and operating partners, such as Atria and Wexford, who manage Ventas senior housing and life science properties, respectively. Atria and Wexford develop sustainable, LEED buildings, financed and owned by Ventas. These assets provide enhancements to public spaces and employment creation in local communities.

 No

 Not applicable

SE11.2

Does the entity monitor its impact on the community?

 Yes

Select the areas of impact that are monitored (multiple answers possible)

 Housing affordability

 Impact on crime levels

 Livability score

 Local income generated

 Local residents' well-being

 Walkability score

 Other

 No

 Not applicable

NEW CONSTRUCTION AND MAJOR RENOVATIONS

Sustainability Requirements

NC1

Does the entity have a sustainability strategy in place for new construction and major renovation projects?

Yes

Elements addressed in the strategy (multiple answers possible)

- Biodiversity and habitat
- Climate/climate change adaptation
- Energy consumption/management
- Environmental attributes of building materials
- GHG emissions/management
- Green building certifications
- Building safety
- Health and well-being
- Location and transportation
- Resilience
- Supply chain
- Water consumption/management
- Waste management
- Other

Other selected. Please describe

The strategy is

Publicly available

Please provide a hyperlink or a separate publicly available document

Provide hyperlink

 Indicate where the relevant information can be found

Not publicly available

Communicate the objectives and explain how the objectives are integrated into the overall business strategy (maximum 250 words)

Ventas's new developments and major renovations typically seek LEED certification and thus meet high standards for sustainable development. Ventas thoughtfully and purposefully promotes sustainability in its communities and regularly includes energy-efficient lighting and appliances, water-efficient landscaping (plants and irrigation systems), low-flow fixtures, ENERGY STAR-certified appliances, high-performance exterior doors, green housekeeping, recycling and landscape projects, on-site storage treatment of storm water to reduce erosion and green building education for our residents and guests.

All new developments in our Office and Senior Housing Operating platforms are incorporated into utility bill payment systems that are rolled up to our centralized utility platform (managed and verified by a third party), giving us visibility into energy, water and waste consumption.

No

NC2

Does the entity have sustainable site selection criteria in place for new construction and major renovation projects?

Yes

Select all criteria included (multiple answers possible)

Connect to multi-modal transit networks

Locate projects within existing developed areas

Protect, restore, and conserve aquatic ecosystems

Protect, restore, and conserve farmland

Protect, restore, and conserve floodplain functions

Protect, restore, and conserve habitats for threatened and endangered species

Redevelop brownfield sites

Other

The entity's sustainable site selection criteria are aligned with

Third-party guidelines

Specify

LEED

Third-party rating system(s)

Other

Not aligned

[CEC-400-2012-004-CMF-REV2.pdf](#)

Indicate where in the evidence the relevant information can be found

All

Show investors

[LEED NC 2009 checklist.pdf](#)

Indicate where in the evidence the relevant information can be found

Throughout

Show investors

[LEED CS 2009 checklist.pdf](#)

Indicate where in the evidence the relevant information can be found

Throughout

Show investors

- No
- Not applicable

NC3

Does the entity have sustainable site design/development requirements for new construction and major renovation projects?

- Yes

Select all applicable options (multiple answers possible)

- Manage waste by diverting construction and demolition materials from disposal
- Manage waste by diverting reusable vegetation, rocks, and soil from disposal
- Protect air quality during construction
- Protect surface water and aquatic ecosystems by controlling and retaining construction pollutants
- Protect and restore habitat and soils disturbed during construction and/or during previous development
- Other

The entity's sustainable site design/development criteria are aligned with

- Third-party guidelines
- Third-party rating system(s)
Specify scheme(s)/sub-scheme(s)
- Other
- Not aligned

[LEED CS 2009 checklist.pdf](#)

Indicate where in the evidence the relevant information can be found

-
- Show investors

[LEED NC 2009 checklist.pdf](#)

Indicate where in the evidence the relevant information can be found

-
- Show investors

- No

NEW CONSTRUCTION AND MAJOR RENOVATIONS

Materials and Certifications

NC4

Does the entity require that the environmental and health attributes of building materials be considered for new construction and major renovation projects?

 Yes

Select all issues addressed (multiple answers possible)

 Formal adoption of a policy on health attributes of building materials Formal adoption of a policy on the environmental attributes and performance of building materials Requirement for information (disclosure) about the environmental and/or health attributes of building materials (multiple answers possible) Health and environmental information Environmental Product Declarations Health Product Declarations Other types of health and environmental information Material characteristics specification, including (multiple answers possible) Preference for materials that disclose environmental impacts Preference for materials that disclose potential health hazards "Red list" of prohibited materials or ingredients that should not be used on the basis of their human and/or environmental impacts Locally extracted or recovered materials Rapidly renewable materials, low embodied carbon materials, and recycled content materials Materials that can easily be recycled Third-party certified wood-based materials and products Low-emitting materials Other[LEED.pdf](#)

Indicate where in the evidence the relevant information can be found

Pages 47-55

 Show investors No Not applicable

NC5.1

Does the entity's new construction and major renovation portfolio include projects that are aligned with green building rating standards

Yes

Select all applicable options (multiple answers possible)

The entity requires projects to align with requirements of a third-party green building rating system but does not require certification

0%, <25%

Green building rating systems (include all that apply):

Built to LEED Standards

The entity requires projects to achieve certification with a green building rating system but does not require a specific level of certification

≥75, ≤100%

Green building rating systems (include all that apply):

LEED Building Design + Construction

The entity requires projects to achieve a specific level of certification

≥75, ≤100%

Green building rating systems (include all that apply):

LEED Building Design + Construction

Level of certification adopted as a standard by the entity (include all applicable rating systems):

Certified

No

Not applicable

NC5.2

Does the entity's new construction and major renovation portfolio include projects that obtained or are registered to obtain a green building certificate?

Yes

Specify the certification scheme(s) used and the percentage of the portfolio registered and/or certified (multiple answers possible)

Projects registered to obtain a green building certificate at the end of reporting period

Scheme name/sub-scheme name	Level of certification	% portfolio covered by floor area	Number of certified assets
LEED/BD+C: Core and Shell Development	Certified	<input type="text" value="1"/>	<input type="text" value="1"/>
LEED/BD+C: Core and Shell Development	Silver	<input type="text" value="22"/>	<input type="text" value="5"/>
LEED/Interior Design and Construction (ID+C)	Gold	<input type="text" value="6"/>	<input type="text" value="1"/>
LEED/for Homes	Certified	<input type="text" value="3"/>	<input type="text" value="2"/>
LEED/Building Design and Construction (BD+C)	Silver	<input type="text" value="4"/>	<input type="text" value="1"/>

Projects that obtained a green building certificate or official pre-certification during the reporting period

Scheme name/sub-scheme name	Level of certification	% portfolio covered by floor area	Number of certified assets
-----------------------------	------------------------	-----------------------------------	----------------------------

A list of provisionally validated certification schemes is provided in the Appendix of the [Reference Guide](#). If you wish to add a new scheme, please contact info@gresb.com, and you will be asked to complete the validation questions for the scheme (see Reference Guide Appendix).

No

Not applicable

NEW CONSTRUCTION AND MAJOR RENOVATIONS

Energy Efficiency

NC6

Does the entity have minimum energy efficiency requirements for new construction and major renovation projects?

Yes

Requirements for planning and design include (multiple answers possible)

Integrative design process

To exceed relevant energy codes or standards

Other

Common energy efficiency measures include (multiple answers possible)

Air conditioning

Commissioning

Energy modeling

Lighting

Occupant controls

Space heating

Ventilation

Water heating

Other

Operational energy efficiency monitoring (multiple answers possible)

Energy use analytics

Post-construction energy monitoring for on

Average years

Sub-meter

Other

No

NC7.1

Does the entity incorporate on-site renewable energy in the design of new construction and major renovation projects?

Yes

Projects designed to generate on-site renewable energy (multiple answers possible)

Biofuels

Geothermal

Hydro

Solar/photovoltaic

Percentage of all projects

0

Wind

Other

Average design target for the fraction of total energy demand met with on-site renewable energy

0

No

Not applicable

NC7.2

Are the entity's new construction and major renovation projects designed to meet net-zero energy codes and/or standards?

Yes

No

NEW CONSTRUCTION AND MAJOR RENOVATIONS

Water Conservation and Waste Management

NC8

Does the entity promote water conservation in its new construction and major renovation projects?

Yes

The entity promotes water conservation through (multiple answers possible)

Requirements for planning and design include (multiple answers possible)

Development and implementation of a commissioning plan

Integrative design for water conservation

Requirements for indoor water efficiency

Requirements for outdoor water efficiency

- Requirements for process water efficiency
- Requirements for water supply
- Other

[CEC-400-2012-004-CMF-REV2.pdf](#)

Indicate where in the evidence the relevant information can be found

Throughout

- Show investors

Common water efficiency measures include (multiple answers possible)

- Commissioning of water systems
- Drip/smart irrigation
- Drought tolerant/low-water landscaping
- High-efficiency/dry fixtures
- Leak detection system
- Occupant sensors
- On-site wastewater treatment
- Re-use of stormwater and grey water for non-potable applications
- Other

Operational water efficiency monitoring (multiple answers possible)

- Post-construction water monitoring for on
Average years
- Sub-meter
- Water use analytics
- Other

No

Not applicable

NC9

Does the entity promote efficient on-site solid waste management during the construction phase of its new construction and major renovation projects?

 Yes

The entity promotes efficient solid waste management through (multiple answers possible)

 Management and construction practices (multiple answers possible) Construction waste signage Education of employees/contractors on waste management Incentives for contractors for recovering, reusing and recycling building materials Targets for waste stream recovery, reuse and recycling Waste management plans Waste separation facilities Other On-site waste monitoring (multiple answers possible) Hazardous waste monitoring Non-hazardous waste monitoring Other[LEED.pdf](#)

Indicate where in the evidence the relevant information can be found

Pages 47-55

 Show investors No

NEW CONSTRUCTION AND MAJOR RENOVATIONS

Supply Chain

NC10.1

Does the entity have ESG requirements in place for its contractors?

 Yes

Select all topics included (multiple answers possible)

 Business ethics Community engagement Environmental process standards

Environmental product standards

Fundamental human rights

Human health-based product standards

On-site occupational safety

ESG-specific requirements for sub-contractors

Other

Percentage of projects covered

100

[LEED.pdf](#)

Indicate where in the evidence the relevant information can be found

Throughout

Show investors

No

NC10.2

Does the organization monitor its contractors' compliance with its ESG-specific requirements in place for this entity?

Yes

Select all applicable options (multiple answers possible)

Contractors provide update reports on environmental and social aspects during construction

External audits by third party

Internal audits

Percentage of projects audited during the reporting period

100

Weekly/monthly (on-site) meetings and/or ad hoc site visits

Percentage of projects visited during the reporting period

100

Other

No

Not applicable

NEW CONSTRUCTION AND MAJOR RENOVATIONS

Health, Safety and Well-being

NC11

Does the entity promote occupant health and well-being in its new construction and major renovation projects?

Yes

The entity addresses health and well-being in the design of its product through (multiple answers possible)

Requirements for planning and design, including (multiple answers possible)

Health Impact Assessment

Integrated planning process

Other planning process

[LEED.pdf](#)

Indicate where in the evidence the relevant information can be found

Pages 57-81

Show investors

Common occupant health and well-being measures, including (multiple answers possible)

Access to spaces for active and passive recreation

Active design features

Commissioning

Daylight

Indoor air quality monitoring

Indoor air quality source control

Natural ventilation

Occupant controls

Provisions for active transport

Other

Provisions to verify health and well-being performance include (multiple answers possible)

Occupant education

Post-construction health and well-being monitoring (e.g., occupant comfort and satisfaction) for on

Average years

Other

No

Not applicable

NC12.1

Does the entity promote on-site safety during the construction phase of its new construction and major renovation projects?

Yes

The entity promotes on-site safety through (multiple answers possible)

Availability of medical personnel

Communicating safety information

Continuously improving safety performance

Demonstrating safety leadership

Entrenching safety practices

Managing safety risks

Personal Protective and Life Saving Equipment

Promoting design for safety

Training curriculum

Other

No

Not applicable

NC12.2

Does the organization monitor safety indicators at construction sites?

Yes

Select all applicable options (multiple answers possible)

Injury rate

Explain the injury rate calculation method (maximum 250 words)

Ventac's development partners (primarily Atria Senior Living, Pacific Medical Buildings, and Wexford Science + Technology) are required to comply with OSHA and follow the OSHA Recordable Incident Rate methodology. The Recordable Incident Rate is calculated by multiplying the number of recordable cases by 200,000, and then dividing that number by the number of labor hours at the project.

Fatalities

Near misses

 Other metrics

 No

NEW CONSTRUCTION AND MAJOR RENOVATIONS

Community Impact and Engagement

NC13

Does the entity assess the potential socio-economic impact of its new construction and major renovation projects on the community as part of planning and pre-construction?

 Yes

Select the areas of impact that are assessed (multiple answers possible)

 Housing affordability

 Impact on crime levels

 Livability score

 Local income generated

 Local residents' well-being

 Walkability score

 Other

 No

NC14

Does the entity have a systematic process to monitor the impact of new construction and major renovation projects on the local community during different stages of the project?

 Yes

The entity's process includes (multiple answers possible)

 Analysis and interpretation of monitoring data

 Development and implementation of a communication plan

 Development and implementation of a community monitoring plan

 Development and implementation of a risk mitigation plan

 Identification of nuisance and/or disruption risks

 Identification of stakeholders and impacted groups

Management practices to ensure accountability for performance goals and issues identified during community monitoring

Other

Describe the monitoring process (maximum 250 words)

Local communities are engaged throughout the development process to ensure issues are addressed and needs are met. Impact assessments are conducted as needed or required to understand the impacts on local communities, and mitigation plans are developed if necessary. Ventas and its development partners strive to minimize nuisances and disruptions from construction sites, and notify local residents of any unavoidable nuisances or disruptions. Communication is through press releases, regular fliers and posters with address and phone numbers for the site and contact information, as well as a central registry at city hall for the community to contact with questions.

[LEED.pdf](#)

Indicate where in the evidence the relevant information can be found

Throughout

Show investors

No

SUPPLEMENTS

Leader in the Light

Q0

Do you want to participate in Leader in the Light?

Yes

Please describe your organization and the nature of your business.

Ventas, Inc., an S&P 500 company, is a leading real estate investment trust. Its diverse portfolio of more than 1,200 assets in the United States, Canada and the United Kingdom consists of seniors housing communities, medical office buildings, life science and innovation centers, inpatient rehabilitation and long-term acute care facilities, health systems and skilled nursing facilities. Through its Lillibridge subsidiary, Ventas provides management, leasing, marketing, facility development and advisory services to highly rated hospitals and health systems throughout the United States.

No

Q1

Describe your organization's ESG goals for 2017 and how it performed against these goals.

Ventas delivered on its ESG goals in 2017, solidifying its position as the ESG leader among publicly traded healthcare REITs:

1. Goal: Enhance the reputation, visibility, and transparency of Ventas's ESG efforts.

Progress: Ventas enhanced its ESG disclosures on its website, through the media, and in-person investor interactions. For example, our website now highlights our social and governance commitments and results. In 2017, we participated for the first time in the RobecoSAM CSA, and were named to the Dow Jones Sustainability Index North America, ranking in the top quartile of real estate companies.

2. Goal: Build on ESG strategy and incorporate throughout Company practices.

Progress: We enhanced our quarterly ESG reporting to the Board of Directors. We created an ESG Steering Committee, including our Chairman and CEO to help execute and integrate our ESG goals across our business. Our complementary, cross-functional ESG Reporting Working Group, drives ESG activities and reporting efforts.

3. Goal: Enhance environmental data analytics to drive investment to achieve our long-term reduction targets for energy, GHG emissions, water and waste.

Progress: Ventas engaged a leading third-party provider of environmental data services in 2017 to create portfolio-wide visibility into energy/water/waste consumption, enabling us to systematically identify efficiency opportunities across our portfolio.

4. Goal: Remain the healthcare REIT leader in LEED certifications and development.

Progress: Ventas continued its leadership with 28 LEED certified buildings (5% of portfolio sf), 2 pending certifications and 7 LEED developments of \$530M total investment, 80% of total development spend (as of Q1 2018).

5. Goal: Expand employee health and well-being offerings to increase engagement, productivity, and retention.

Progress:

a) Successfully relocated our Louisville corporate employees to our new, LEED CI Gold-certified office space, with standing desks, ample daylight, and a low VOC environment.

b) Increased our paid parental leave for primary caregivers by 25% and added adoption benefits.

c) Sponsored the J.P. Morgan Corporate Challenge in Chicago for the fifth year and held events through our Young Professionals and Womens Networks including a Trivia Night, spin class event and book club.

6. Goal: Demonstrate continued industry leadership in corporate governance.

Progress: Our robust practices around corporate political contributions earned us a top score among S&P 500 real estate companies in the 2017 CPA-Zicklin Index of Corporate Political Disclosure and Accountability. And in Green Street Advisors' most recent REIT Corporate Governance rankings, Ventas is the top-ranked healthcare REIT and fourth among all public REITs.

Q2

Describe the innovative ESG strategies and technologies implemented in the last 12 months by your organization. Include relevant metrics when describing results.

Innovative Public-Private Partnerships: In 2017, Ventas purchased a high-quality life science, research and medical campus in Providence, RI. The principal asset of the acquisition was a 269,000 sf historic renovation of South Street Landing, a former electrical power station. The building now serves as administrative offices for Brown University, where more than 400 employees work, and houses the state-of-the-art Rhode Island Nursing Education Center, an initiative between Rhode Island College and the University of Rhode Island's nursing programs. Ventas, alongside its strategic development and operating partner Wexford Science + Technology, engaged public and private partners to

enable this transformational redevelopment, including Brown University, Rhode Island College, University of Rhode Island, the City of Providence and the State of Rhode Island. Preserving the building's rich history, the project garnered state and federal historic tax credits, and remains on the National Register of Historic Places for Providence. South Street Landing is expected to create 540 jobs generating \$29 million in annual earnings.

The project has served as a catalyst for the transformation of Providence's Jewelry District into an innovation hub, spurring economic growth in a formerly uninhabited neighborhood. The project also demonstrates how innovation can drive social and economic inclusion and improve the workforce through its support of nursing training programs that don't necessarily require a four-year degree, and future plans to support minority entrepreneurs. The renovation and redevelopment will serve as an important model for future redevelopment of historical sites.

Innovative Technologies: In 2017, Ventas partnered with a leading energy storage technology provider on battery based storage systems at 6 California Medical Office Buildings. These projects are expected to be operational in 2018 and are projected to reduce the peak energy demand across the properties by approximately 296 kW. By reducing these peaks, Ventas is contributing to a more resilient, sustainable, and cost effective grid to the communities we serve. We are evaluating additional energy storage opportunities, renewable energy sources and other cutting-edge technologies throughout our portfolio.

Innovative Corporate Strategy: The Ventas 401(k) Retirement Committee has initiated a process to evaluate the ESG performance of its fund menu, and to explore the potential addition of one or more funds with strong financial performance, and that also focus on companies with strong ESG profiles and/or have women or minority owned managers. The committee is screening current and potential offerings using the Morningstar sustainability ratings.

Q3

Explain why your company is deserving of recognition as a 2018 Leader in the Light Award winner.

Ventas's ESG leadership starts with the commitment of our Board and CEO, is integrated into our internal processes and extends to collaboration with our tenants and operating partners. We recently codified this with the creation of an ESG Steering Committee, which includes our Chairman and CEO and meets at least quarterly.

Our commitment to ESG was independently recognized with our first time selection to Fortune's World's Most Admired Companies. The annual ranking showcases the world's most respected and reputable companies. Ventas is the only healthcare REIT included, and ranked fifth in the real estate industry overall. Company executives, directors, and analysts were surveyed to rate enterprises in their own industry on nine criteria, including governance, and social and environmental responsibility.

In 2017, Ventas Chairman and CEO, Debra A. Cafaro was included on the Harvard Business Review Best-Performing CEOs in the World, one of only 23 CEOs recognized for the fourth consecutive year, and one of only two women on the list. Twenty percent of the ranking is based on ESG performance as computed from input provided by Sustainalytics and CSRHub, with the other 80% related to financial performance.

Since 2013, Ventas has invested nearly \$80M in energy, water and waste efficiency projects. These projects reduce our environmental impact, saving over 100,000 MWh and ~230 million gallons of water annually, while creating shareholder value with annual returns of ~18%.

Ventas is dedicated to employee and their family's well-being and continued professional development. We provide a significant package of health, wellness and retirement benefits of nearly \$35,000 per employee. Feedback from our annual employee engagement survey drives continuous improvement, such as the transformation of our annual review process this year into an everyday coaching approach to enhance performance.

Our governance practices show our commitment to strong, transparent and ethical practices. Our approach is embedded in the Ventas culture and is borne out by our strategy to drive long-term shareholder value through superior long-term performance (compound annual total shareholder return exceeding 24% since 2000). Strong, independent directors (nearly 90% of our Board) enhance our culture of fairness and hold us to exemplary performance standards. We have demonstrated openness by adopting proxy access. Our compensation and executive pay practices are aligned with shareholder feedback. And our executives set a high standard for ethics through mandatory quarterly integrity and compliance training for all employees.

Q4

For the "Leadership Personified" award, nominate individual leaders in Sustainability/ESG within the REIT industry. The nominated individual must be employed by a NAREIT corporate member organization.

1st nomination

Debra A. Cafaro, Chairman and CEO, Ventas

2nd nomination

Kelly Meissner, Director, Sustainability, Ventas

3rd nomination

SUPPLEMENTS

Health & Well-being

H0

Would you like to participate in the Health and Well-being Module?

 Yes No

H1.1

Does the organization have a policy for the promotion of health & well-being for employees?

 Yes

The policy is present at:

 The organizational level, applicable to the entity The entity level

The purpose of the policy is to:

 Manage risks to employee health Promote health, performance and productivity of employees Other

The policy applies to:

 Human Resources / programming Design and construction of new assets Facilities management of standing assets Other[Ventas Employee Handbook 2017.pdf](#)

Indicate where in the evidence the relevant information can be found

See 16-18 (pdf) /12-14 (document); Relevant sections include: Housekeeping, Nursing Mothers, Nonstandard Office Furniture
See 31-35 (pdf) /27-31 (document); Compensation and Benefits Show investors[Pages from 2017 Employee Benefit Plan Summary.pdf](#)

Indicate where in the evidence the relevant information can be found

All; (This is an excerpt of relevant pages from Ventas's current employee benefits plan.)

 Show investors No

Provide additional context for the answer provided (maximum 250 words)

Ventas's commitment to employee well-being is reflected in its policies and practices. Our Employee Handbook includes policies for paid parental leave, space for nursing mothers to express breastmilk, and ergonomic office furniture, such as standing desks. 90% of Ventas employees participate in our robust health benefits plan, which includes employee health and wellness features. Our plan provides a telemedicine feature with 24/7 access to non-emergency medical care via telephone or internet, making access to healthcare convenient and economical. The plan also includes an Employee Assistance Program (EAP) through a third-party provider to address emotional, legal or financial

issues. Participation is voluntary, confidential and at no cost to employees and their families. The service includes unlimited web-based services and up to three consultations/year with a licensed clinician. The EAP helps employees work through issues like stress/anxiety, health/wellness concerns, and legal/financial issues. These policies support a healthy, engaged workforce and help Ventas maintain low health care costs and absenteeism rates.

Ventas supports employee well-being through three employee network groups for Diversity, Women and Young Professionals. These groups organize events, including informal lunches to discuss topics on women in the workplace, social events promoting wellness, and diverse, engaging speakers. These activities provide a forum to share thoughts and ideas, and promote employee community and collaboration.

H1.2

Does the organization have a policy for the promotion of health & well-being through its real estate assets and services?

Yes

The policy is present at:

The organizational level, applicable to the entity

The entity level

The purpose of the policy is to:

Manage risks to tenant and community health

Promote tenant and community health and well-being

Other

The policy applies to:

Tenant engagement / programming

Community engagement / programming

Design and construction of new assets

Facilities management of standing assets

Other

[Argentum-Standards for Senior Living.pdf](#)

Indicate where in the evidence the relevant information can be found

All

Show investors

[LEED.pdf](#)

Indicate where in the evidence the relevant information can be found

See Sustainable sites, 21 - 40 (pdf) / 1 - 20 (document)
See Indoor environment quality, 77 - 101 (pdf) / 57 - 81 (document)

Show investors

No

Provide additional context for the answer provided (maximum 250 words)

The health and well-being of the residents and tenants of Ventas's assets is of critical importance to Ventas, in part because it promotes lower resident turnover. In our Senior Housing portfolio (which Ventas does not directly manage), operator selection is critical to ensuring the well-being of residents. As part of our due diligence process for any new operator, we review their policies and practices toward ensuring resident health and well-being, such as their care staff ratios, use of regular resident satisfaction surveys, and alignment with the Argentum Standards for Senior Living. These standards ensure seniors housing communities have taken extra steps to foster resident comfort, health and happiness.

Ventas also promotes health and well-being through its commitment to LEED development, which includes requirements for sustainable site selection and indoor environmental quality. Sustainable site selection supports health by encouraging public transit and bicycle use. Indoor environment quality supports health through elimination of tobacco smoke, use of low-emitting building materials, and systems to optimize thermal comfort, daylight and views (i.e., direct line of sight to the outdoor

environment].

H2.1

Does the organization have a senior employee responsible for health & well-being issues associated with this entity?

 Yes

The most senior employee responsible for health & well-being is

 A different individual from the employee responsible for sustainability

This individual is part of

 Board of Directors Senior management team Sustainability/ESG management team Human resources Other team or department The same individual as the most senior employee responsible for sustainability (indicated in the main assessment)

Provide the details for the most senior decision-maker on sustainability issues

Name

Edmund M. Brady, III

Job title

Senior Vice President and Chief Human Resources Officer

E-mail

ed.brady@Ventasreit.com

LinkedIn profile (optional)

<https://www.linkedin.com/in/embradyiii/> No

Provide additional context for the answer provided (maximum 250 words)

Ed Brady joined Ventas in June of 2014 as Senior Vice President and Chief Human Resources Officer. Prior to joining Ventas, Mr. Brady served as President of the human capital-focused management consulting practice at EMB3 Advisory Services LLC. Mr. Brady previously served as Managing Director and Chief People Officer for Stroz Friedberg, LLC. Prior to that, Mr. Brady worked for Diamond Management & Technology Consultants, Inc., where he most recently served as Partner and Chief People Officer and a member of the firm's Leadership Committee.

Mr. Brady received a BS in Business Administration from Georgetown University and an MBA in marketing and international business from Northwestern University's Kellogg School of Management.

H2.2

Does the senior employee responsible for health & well-being issues and/or the team that supports this individual have health-related qualifications?

 Yes

Select health-related qualifications (multiple answers possible)

 Degree Public health Medical

Human Resources

Other

Other selected. Please describe

Degrees in Psychology

Professional certification

Training / coursework

Health and well-being

Medical

Employee engagement

Health-promoting building design and construction

Health-promoting building operations

Other

Other selected. Please describe

a) training on automatic defibrillators b) First responder / emergency training

Experience

Describe the team's experience (maximum 250 words)

Our SVP & CHRO has 14 years of HR experience, our VP Comp & Benefits has 21 years of experience, and our Sr. Comp & Benefits Analyst has 6 years of experience.

No

Provide additional context for the answer provided (maximum 250 words)

Ventas's Human Resources department has extensive HR experience and is committed to ensuring the health and well-being of Ventas employees and their families.

H3

Does the organization understand the health & well-being related needs of employees responsible for the entity?

Yes

Please describe the top three employee health and well-being needs (maximum 250 words):

Health need 1

Access to convenient, affordable health, vision and dental care.

Health need 2

Health need 3

Describe the data used to establish these needs (select all that apply):

Primary data

Secondary data

Anecdotal information or personal observations

Other

[Ventas Employee Handbook 2017.pdf](#)

Indicate where in the evidence the relevant information can be found

See Open Door Policy, 11 (pdf) / 7 (document)

Show investors

[EE Survey Results - Leadership Team 9.8.16 \(Questions Only\).pdf](#)

Indicate where in the evidence the relevant information can be found

All (questions from annual employee engagement survey)

Show investors

[Ventas Health Claims Experience Report Q4 2016.pdf](#)

Indicate where in the evidence the relevant information can be found

All

Show investors

[Medical Health Insurance Plan Monthly financial report 2016.pdf](#)

Indicate where in the evidence the relevant information can be found

All

Show investors

No

Not applicable

Provide additional context for the answer provided (maximum 250 words)

Ventas collects employee health and wellness information in several ways. On an annual basis our Human Resources team works with our external health benefits consultant and health insurance provider to analyze the health data of our employees. This data is used to identify gaps in coverage and additional programs that may be beneficial to our employees' health, while minimizing costs for Ventas. We also collect data in our annual employee engagement survey, which asks employees if they are satisfied with the current benefits program and what additional benefits they would like the company to consider offering. Ventas also encourages an open door policy among employees, managers and human resources, and makes use of the anecdotal information gathered through these communication, while being sensitive to personal and confidential information.

H4

Does the organization use specific strategies to meet the health promotion goals for employees responsible for the entity?

Yes

Describe the entity's top three goals for employee health and well-being promotion (maximum 250 words):

Goal 1

Ventas provides a healthy office environment for its corporate employees. In 2017, we successfully relocated our Louisville corporate employees to our new, LEED CI Gold-certified office space, with standing desks, ample daylight, and a low VOC environment. Our Chicago headquarters office space followed LEED guidelines during its buildout, and was recently recognized as an ENERGY STAR® Charter Tenant by the U.S. Environmental Protection Agency (EPA). This newly-established recognition highlights the critical role that commercial tenants play in the energy performance of their offices, and awards companies who meet robust energy efficiency criteria.

The headquarters office space is in a LEED Platinum certified building that was intentionally designed to incorporate significant environmental benefits including:

- Responsive heating, cooling and lighting systems that maximize efficiency and comfort
- Superior indoor air quality
- Vision-Glass® walls that naturally filter sunlight and illuminate interior spaces with daylight
- Rainwater harvesting and green roof
- Ideal location offering easy access to all modes of transportation

The property also affords our employees access to best-in-class amenities such as healthful food offerings and a health club on site.

Goal 2

Ventas provides best-in-class health benefits including:

- Medical, dental and vision plans, including convenient access to virtual medicine
- Life, Accidental Death, Disability and Employee Assistance Plans
- Flexible Spending Accounts (FSA)
- Generous Paid Time Off
- Parental Leave for Primary and Secondary Caregivers

In 2017 we increased our paid parental leave for primary caregivers by 25% and added adoption benefits.

Goal 3

Ventas provides health and wellness programming:

Sponsored the J.P. Morgan Corporate Challenge in Chicago for the fifth year

Held events through our Young Professionals and Womens Networks including a Trivia Night, spin class event and book club.

Select strategies used by the organization to achieve these goals, select all that apply:

 Design and operations strategies

 Acoustic comfort (e.g. sound-reducing surfaces)

 Indoor air quality (e.g. green cleaning, low-emitting materials)

 Outdoor air quality (e.g. pollution prevention during construction)

 Lighting controls and/or access to daylight

 Thermal comfort (e.g. personal control)

 Toxic exposures (e.g., materials, paints, sealants, finishes)

 Water quality (e.g. Water filtration system)

 Social interaction (e.g. café, break area)

 Ergonomic design (e.g., workplace evaluations)

 Biophilic design (e.g. access to views, connections to nature)

 Inclusive design (e.g. lactation room, universal design)

 Other

 Access and opportunity strategies

 Access to medical care (including access to preventive services)

 Access to mental health care

 Access to recreational opportunities (e.g., gym, trails)

 Access to opportunities for physical activity (e.g., active design)

 Access to healthy foods (e.g., proximity to healthy food options)

 Other

 Programmatic strategies

 Smoking cessation and/or prevention (e.g. smoke free policies)

Physical activity programming (e.g. physical activity challenge, onsite yoga)

Telework / Flexible work program

Other

Other selected. Please describe

Company happy hours, annual summer and winter outings/celebrations

No

Provide additional context for the answer provided (maximum 250 words)

Ventas is dedicated to employee and their family's well-being. We provide a significant package of health, wellness and retirement benefits of nearly \$35,000 per employee. Feedback from our annual employee engagement survey drives continuous improvement, such as the creation of employee networks for women, people from diverse backgrounds and young professionals.

H5

Does the organization monitor the impact of employee health promotion strategies on employee health and well-being goals as identified in H4?

Yes

Select monitoring method used by the organization to monitor impact on the goals described in H4, select all that applies:

Indoor environmental quality metrics (e.g., CO2 concentration, daylight)

Experience and opinions (e.g., surveys)

Behavior (e.g., use of stairways, food choices, active transportation, use of gym facilities, utilization of preventive care)

Job performance (e.g., productivity, absenteeism)

Health and well-being outcomes (e.g., incidence of asthma)

Other factors

[2016 Performance Reviews and 2017 Goal Setting .pdf](#)

Indicate where in the evidence the relevant information can be found

All (relates to monitoring job performance)

Show investors

[EE Survey Results - Leadership Team 9.8.16 \(Questions Only\).pdf](#)

Indicate where in the evidence the relevant information can be found

All (questions from annual employee engagement survey)

Show investors

[Ventas Health Claims Experience Report Q4 2016.pdf](#)

Indicate where in the evidence the relevant information can be found

All

Show investors

[Medical Health Insurance Plan Monthly financial report 2016.pdf](#)

Indicate where in the evidence the relevant information can be found

All

Show investors

No

Provide additional context for the answer provided (maximum 250 words)

Our annual employee engagement survey process provides an opportunity for employees to express health and wellness needs and desires, including if they are satisfied with the current benefits program and what additional benefits they would like the company to consider offering. There is also an open text box for employees to provide any additional information they wish to share.

Job performance is monitored in various ways including annual reconciliations of Paid Time Off to ensure employees are not exceeding limits and annual performance reviews (including a mid-year review).

Health and well-being outcomes are assessed annually with our external health benefits consultant and health insurance provider. Employee health data is assessed to identify potential risks such as a rise in chronic illness, and ways Ventas can address.

Ventas uses the information gathered from these processes to make improvements to its employee health and wellness benefits. A telehealth service was added in 2017 in response to feedback from our employee engagement survey, which indicated that employees wanted convenient and quick access to 24/7 health advice. Another example is an increase to our orthodontics benefit in our dental plan based on feedback from employees who were hitting the annual limit.

H6

Does the entity understand the health & well-being related needs of tenants of its real estate assets and/or customers for its services?

Yes

Please describe the top three tenant and customer health and well-being needs (maximum 250 words):

Health need 1

Ventas's senior housing operators in its NNN and operating portfolios conduct regular resident surveys to understand their health and well-being needs. Ventas's medical office tenants are surveyed annually, and are provided the opportunity to note any health and well-being needs in open comment boxes.

Health need 2

Health need 3

Describe the data used to establish these needs (select all that apply):

Primary data

Secondary data

Anecdotal information or personal observations

Other

[2016_03_SHN Wellness Report.pdf](#)

Indicate where in the evidence the relevant information can be found

All

Show investors

[Atria Senior Living Health and Wellness.pdf](#)

Indicate where in the evidence the relevant information can be found

All

Show investors

[Lillibridge 2016 Tenant Satisfaction Assessment.pdf](#)

Indicate where in the evidence the relevant information can be found

Medical office tenant survey questions; for health and wellness related items and open text boxes, see pages 1, 3, 7-8, 10-11

Show investors

No

Not applicable

Provide additional context for the answer provided (maximum 250 words)

Health and wellness needs are assessed through annual tenant and resident satisfaction surveys. Our medical office tenant survey includes questions on building amenities, handicap accessibility, building security, indoor air quality, and open text boxes where tenants can explain any issues or needs. Our Senior Housing operators typically conduct annual resident surveys which gather information on resident health and wellness. Our Senior Housing operators also conduct regular assessments (typically every 90 days) of residents' physical, emotional and functional status. Additional assessments are performed as needed, based on caregiver recommendations or a perceived change in condition. Many of Ventas's senior housing operators also collect health data on residents through electronic health records, which, combined with the regular assessments, allows operators to ensure that individual residents receive the appropriate level of health care services. Ventas's Senior Housing operators also obtain information on senior wellness needs from secondary data and research, such as the attached report on Wellness in Senior Living. This report includes information such as the type of fitness programs desired by seniors in their senior housing communities (see page 11). Our property managers and operators are in daily communication with our tenants and residents to gather anecdotal information that allows them to understand and respond to health and wellness needs.

H7

Does the entity use specific strategies to promote health & well-being through its real estate assets and services?

Yes

Describe the entity's top three goals for tenant and customer health and well-being promotion (maximum 250 words):

Goal 1

Ventas's senior housing and post-acute operators seek to reduce the hospitalization and return to hospital rate for their residents and patients. In addition, they seek to improve the health outcomes of their residents and patients.

Goal 2

Goal 3

Select strategies used by the organization to achieve the goals, select all that apply and indicate to which goal(s) each strategy applies:

Design and operations strategies

Acoustic comfort (e.g. sound-reducing surfaces)

Indoor air quality (e.g. green cleaning, low-emitting materials)

Outdoor air quality (e.g. pollution prevention during construction)

Lighting controls and/or access to daylight

Thermal comfort (e.g. personal control)

Toxic exposures (e.g., materials, paints, sealants, finishes)

Water quality (e.g. Water filtration system)

Social interaction (e.g. café, break area)

Ergonomic design (e.g., workplace evaluations)

Biophilic design (e.g. access to views, connections to nature)

Inclusive design (e.g. lactation room, universal design)

Other

Access and opportunity strategies

Access to medical care (including access to preventive services)

Access to mental health care

Access to recreational opportunities (e.g., gym, trails)

Access to opportunities for physical activity (e.g., active design)

Access to healthy foods (e.g., proximity to healthy food options)

Other

Programmatic strategies

Actions in surrounding neighborhood and community

Activities in areas surrounding assets (e.g., tree planting)

Activities in areas in the community (e.g., offering space for community activities such as farmers' markets, increasing access to health education)

Urban regeneration/redevelopment

Community development/revitalization

Other

No

Not applicable

Provide additional context for the answer provided (maximum 250 words)

Ventas's new development typically targets LEED certification; by utilizing LEED standards Ventas promotes all the health and wellness strategies selected above.

Our developments, particularly of senior housing and life science assets, actively engage with the local community and will provide space in the building for community events and activities.

H8

Does the organization monitor the impact of tenant and customer health promotion strategies on health and well-being goals as identified in H7?

Yes

Select monitoring method used by the organization to monitor impact on the goals described in H7, select all that applies:

Indoor environmental quality metrics (e.g., CO2 concentration, daylight)

Experience and opinions (e.g., surveys)

Behavior (e.g., use of stairways, food choices, active transportation, use of gym facilities, utilization of preventive care)

Social and economic determinants of health & well-being (e.g., access to green space, perception of safety)

Other factors

[Atria Senior Living Health and Wellness.pdf](#)

Indicate where in the evidence the relevant information can be found

All

Show investors

[Lillibridge 2016 Tenant Satisfaction Assessment.pdf](#)

Indicate where in the evidence the relevant information can be found

Medical office tenant survey questions; for health and wellness related items and open text boxes, see pages 1, 3, 7-8, 10-11

Show investors

No

Provide additional context for the answer provided (maximum 250 words)

As described in H6, Ventas's medical office tenants and residents in our seniors housing communities are typically surveyed annually for satisfaction, including health and wellness performance and needs. Our Senior Housing operators also conduct regular assessments (typically every 90 days) of residents' physical, emotional and functional status. Additional assessments are performed as needed, based on caregiver recommendations or a perceived change in condition. Many of Ventas's senior housing operators also collect health data on residents through electronic health records, which, combined with the regular assessments, allows operators to ensure that individual residents receive the appropriate level of health care services.

SUPPLEMENTS

Resilience

RS0

Would you like to participate in the Resilience Module?

Yes

No