

C0. Introduction

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C0.1

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**(C0.1) Give a general description and introduction to your organization.**

CBRE Group, Inc. (NYSE:CBRE), a Fortune 500 and S&P 500 company headquartered in Los Angeles, is the world's largest commercial real estate services and investment firm (based on 2017 revenue). The company has more than 80,000 employees (excluding affiliates), and serves real estate investors and occupiers through approximately 450 offices (excluding affiliates) worldwide. CBRE offers a broad range of integrated services, including facilities, transaction and project management; property management; investment management; appraisal and valuation; property leasing; strategic consulting; property sales; mortgage services and development services. Please visit our website at [www.cbre.com](http://www.cbre.com).

C0.2

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**(C0.2) State the start and end date of the year for which you are reporting data.**

	Start date	End date	Indicate if you are providing emissions data for past reporting years	Select the number of past reporting years you will be providing emissions data for
Row 1	January 1 2017	December 31 2017	Please select	<Not Applicable>
Row 2	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Row 3	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Row 4	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>

C0.3

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**(C0.3) Select the countries/regions for which you will be supplying data.**

C0.4

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**(C0.4) Select the currency used for all financial information disclosed throughout your response.**

USD

C0.5

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**(C0.5) Select the option that describes the reporting boundary for which climate-related impacts on your business are being reported. Note that this option should align with your consolidation approach to your Scope 1 and Scope 2 greenhouse gas inventory.**

Operational control

C1. Governance

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C1.1

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**(C1.1) Is there board-level oversight of climate-related issues within your organization?**

No

C1.1c

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**(C1.1c) Why is there no board-level oversight of climate-related issues and what are your plans to change this in the future?**

	Primary reason	Board-level oversight of climate-related issues will be introduced within the next two years	Please explain
Row 1	We have not historically had board-level oversight of climate-related issues. However, a member of our board of directors has been an active participant in our Global Corporate Responsibility Steering Committee for the past three years, and climate-related issues are covered at these committee meetings.	Yes, we plan to do so within the next two years	We recognize the importance of the board being informed about and understanding climate-related risks. We plan to introduce board-level oversight of climate-related issues within the next two years. This may take the form of monitoring and overseeing progress against goals and targets for addressing climate-related issues.

**C1.2**

**(C1.2) Below board-level, provide the highest-level management position(s) or committee(s) with responsibility for climate-related issues.**

Name of the position(s) and/or committee(s)	Responsibility	Frequency of reporting to the board on climate-related issues
Other, please specify (Executive VP, General Counsel)	Both assessing and managing climate-related risks and opportunities	As important matters arise

**C1.2a**

**(C1.2a) Describe where in the organizational structure this/these position(s) and/or committees lie, what their associated responsibilities are, and how climate-related issues are monitored.**

The Executive Vice President, General Counsel reports directly to the CEO. The Senior Vice President, Corporate Responsibility reports directly to General Counsel and is responsible for leading global corporate responsibility strategy development and implementation. Environmental sustainability is an element of corporate responsibility at our company. The corporate responsibility team is responsible for setting of greenhouse gas emission reduction targets and monitoring and reporting of progress toward those targets. The team also stays informed about climate-related topics through participation in industry organizations and brings that information into the company for consideration.

**C1.3**

**(C1.3) Do you provide incentives for the management of climate-related issues, including the attainment of targets?**

Yes

**C1.3a**

**(C1.3a) Provide further details on the incentives provided for the management of climate-related issues.**

**Who is entitled to benefit from these incentives?**

In 2017, we created the CBRE Climate Change Champion Award, which is presented to Asset Services teams for CBRE-managed properties that achieve a 10% or greater year-over-year increase in their ENERGY STAR score. In 2018, this award was presented to teams at 22 CBRE-managed properties. These buildings together resulted in a total greenhouse gas emission reduction of 10,188 metric tons of CO2e.

- Energy reduction target
- Recognition (non-monetary)
- Facilities manager

**Types of incentives**

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- Energy reduction target
- Recognition (non-monetary)

**Activity incentivized**

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- Energy reduction target

**Comment**

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**C2. Risks and opportunities**

C2.1

**(C2.1) Describe what your organization considers to be short-, medium- and long-term horizons.**

	From (years)	To (years)	Comment
Short-term	0	3	
Medium-term	3	6	
Long-term	6	10	

C2.2

**(C2.2) Select the option that best describes how your organization's processes for identifying, assessing, and managing climate-related issues are integrated into your overall risk management.**

Integrated into multi-disciplinary company-wide risk identification, assessment, and management processes

C2.2a

**(C2.2a) Select the options that best describe your organization's frequency and time horizon for identifying and assessing climate-related risks.**

	Frequency of monitoring	How far into the future are risks considered?	Comment
Row 1	Annually	3 to 6 years	

C2.2b

**(C2.2b) Provide further details on your organization's process(es) for identifying and assessing climate-related risks.**

Climate change has been recently added as a risk in the CBRE Business Risk Inventory (BRI). Risks included in the BRI are assessed through our enterprise risk management process every two years to determine the appropriate level of action required.

C2.2c

**(C2.2c) Which of the following risk types are considered in your organization's climate-related risk assessments?**

	Relevance & inclusion	Please explain
Current regulation	Relevant, sometimes included	This risk was discussed recently at the Enterprise Risk Committee level and we expect that it will be explored further in the near future.
Emerging regulation	Relevant, sometimes included	This risk was discussed recently at the Enterprise Risk Committee level and we expect that it will be explored further in the near future.
Technology	Not evaluated	
Legal	Not evaluated	
Market	Not evaluated	
Reputation	Not evaluated	
Acute physical	Relevant, sometimes included	This risk was discussed recently at the Enterprise Risk Committee level and we expect that it will be explored further in the near future.
Chronic physical	Relevant, sometimes included	This risk was discussed recently at the Enterprise Risk Committee level and we expect that it will be explored further in the near future.
Upstream	Not evaluated	
Downstream	Not evaluated	

C2.2d

**(C2.2d) Describe your process(es) for managing climate-related risks and opportunities.**

The Director of Corporate Responsibility is responsible for evaluating climate change risks and opportunities on an ongoing basis. The Director of Corporate Responsibility provides regular briefings on risks and opportunities to the Senior Vice President of Corporate Responsibility, who provides updates as relevant to General Counsel.

C2.3

**(C2.3) Have you identified any inherent climate-related risks with the potential to have a substantive financial or strategic impact on your business?**

Yes

C2.3a

**(C2.3a) Provide details of risks identified with the potential to have a substantive financial or strategic impact on your business.**

**Identifier**

0  
Our current method for managing this risk includes evaluating regulatory requirements at the federal, state, and local level. These management methods allow CBRE to respond to reporting obligations such as AB 802 in California, USA and ESOS in UK. Besides our ad-hoc knowledge of the space, we have a service we provide to customers in EMEA called a 'legal register' which identifies on a continuous basis what the legal landscape looks like in Energy and Sustainability for all markets. Also in the US, CBRE has been an active partner with the Institute for Market Transformation (IMT) in their work to introduce balanced energy disclosure regulations in several cities.  
There could be a potential financial impact as a result of governmental fines as a result of not complying with the reporting requirements.  
100000  
Medium  
Likely  
Short-term  
Energy use and emissions reporting are fundamental requirements of effective energy management, and these requirements will likely increase across our managed portfolio. Reporting obligations vary by city, country, and regionally and these variations by location increase risks of noncompliance and costs of compliance.  
Policy and legal: Increased operating costs (e.g., higher compliance costs, increased insurance premiums)  
Policy and legal: Enhanced emissions-reporting obligations  
Transition risk  
Customer  
Risk 1

**Where in the value chain does the risk driver occur?**

0  
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Transition risk  
Customer

**Risk type**

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Transition risk

**Primary climate-related risk driver**

0  
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**Type of financial impact driver**

0  
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100000

Medium

Likely

Short-term

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Policy and legal: Increased operating costs (e.g., higher compliance costs, increased insurance premiums)

#### Company- specific description

0

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Short-term

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#### Time horizon

0

Our current method for managing this risk includes evaluating regulatory requirements at the federal, state, and local level. These management methods allow CBRE to respond to reporting obligations such as AB 802 in California, USA and ESOS in UK. Besides our ad-hoc knowledge of the space, we have a service we provide to customers in EMEA called a 'legal register' which identifies on a continuous basis what the legal landscape looks like in Energy and Sustainability for all markets. Also in the US, CBRE has been an active partner with the Institute for Market Transformation (IMT) in their work to introduce balanced energy disclosure regulations in several cities.

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100000

Medium

Likely

Short-term

#### Likelihood

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100000

Medium

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#### Magnitude of impact

0

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Medium

#### Potential financial impact

0

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#### Explanation of financial impact

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#### Management method

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**Cost of management**

0

**Comment**

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**Identifier**

250000

Our method for managing the risk is CBRE's Business Continuity program, which provides services related to the preparation and response to significant weather or natural disaster such as planned emergency responses to safeguard people, properties and the interests of employees, tenants and clients. The program addresses data back-up and recovery; alternative communications with tenants, clients and employees; and alternative physical locations. The program prepares for potential market impact, such as droughts and severe weather events limiting expansion of the real estate market.

Our potential financial impact is that the failure to prepare for and/or respond to natural disasters could result in a loss of client business.

10000000

Medium

Likely

Current

The increasing frequency and severity of weather and precipitation events such as drought, flooding, tropical cyclones and snow/ice associated with climate change put our business operations at risk.

Reduced revenues from lower sales/output

Acute: Increased severity of extreme weather events such as cyclones and floods

Physical risk

Direct operations

Risk 2

**Where in the value chain does the risk driver occur?**

250000

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Physical risk

**Primary climate-related risk driver**

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**Type of financial impact driver**

250000

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#### **Company- specific description**

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#### **Time horizon**

250000

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#### **Likelihood**

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#### **Magnitude of impact**

250000

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Medium

#### **Potential financial impact**

250000

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#### **Explanation of financial impact**

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#### **Management method**

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#### **Cost of management**

250000

## Comment

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### Identifier

Our current method for managing the risk is to incorporate employee sustainability training as part of CBRE's protocol. CBRE continues to place a strong focus on equipping building staff with the knowledge, proper tools and best practices they need to successfully manage and reduce energy consumption. In partnership with Building Owners and Managers Association International (BOMA), CBRE licenses BOMA Energy Efficiency Program (BEEP) training and offers weekly webinars to employees. Using the EPA ENERGY STAR Portfolio Manager as a foundational tool, BEEP educates industry professionals on how to reduce energy consumption and costs with proven no- and low-cost strategies for optimizing equipment, people and practices. While this training program requirement has been in place for many years for all property management staff, during 2016 the training curriculum was expanded as required learning for all national engineering staff. In total, more than 23,000 attendees had participated in the four-part weekly training series by the end of 2017.

Medium

More likely than not

Short-term

The inability to provide services for climate change-related requirements as a results of staff not being adequately trained is a risk to our business reputation. The inability to provide these services will reduce the demand for our services and impact our service capacity.

Reputation: Reduced revenue from decreased demand for goods/services

Reputation: Shifts in consumer preferences

Transition risk

Direct operations

Risk 3

### Where in the value chain does the risk driver occur?

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Transition risk

### Primary climate-related risk driver

Our current method for managing the risk is to incorporate employee sustainability training as part of CBRE's protocol. CBRE continues to place a strong focus on equipping building staff with the knowledge, proper tools and best practices they need to successfully manage and reduce energy consumption. In partnership with Building Owners and Managers Association International (BOMA), CBRE licenses BOMA Energy Efficiency Program (BEEP) training and offers weekly webinars to employees. Using the EPA ENERGY STAR Portfolio Manager as a foundational tool, BEEP educates industry professionals on how to reduce energy consumption and costs with proven no- and low-cost strategies for optimizing equipment, people and practices. While this training program requirement has been in place for many years for all property management staff, during 2016 the training curriculum was expanded as required learning for all national engineering staff. In total, more than 23,000 attendees had participated in the four-part weekly training series by the end of 2017.

Medium

More likely than not

Short-term

The inability to provide services for climate change-related requirements as a results of staff not being adequately trained is a risk to our business reputation. The inability to provide these services will reduce the demand for our services and impact our service capacity.

Reputation: Reduced revenue from decreased demand for goods/services

Reputation: Shifts in consumer preferences

### Type of financial impact driver

Our current method for managing the risk is to incorporate employee sustainability training as part of CBRE's protocol. CBRE continues to place a strong focus on equipping building staff with the knowledge, proper tools and best practices they need to successfully manage and reduce energy consumption. In partnership with Building Owners and Managers Association International (BOMA), CBRE licenses BOMA Energy Efficiency Program (BEEP) training and offers weekly webinars to employees. Using the EPA ENERGY STAR Portfolio Manager as a foundational tool, BEEP educates industry professionals on how to reduce energy consumption and costs with proven no- and low-cost strategies for optimizing equipment, people and practices. While this training program requirement has been in place for many years for all property management staff, during 2016 the training curriculum was expanded as required learning for all national engineering staff. In total, more than 23,000 attendees had participated in the four-part weekly training series by the end of 2017.

Medium

More likely than not

#### Short-term

The inability to provide services for climate change-related requirements as a result of staff not being adequately trained is a risk to our business reputation. The inability to provide these services will reduce the demand for our services and impact our service capacity.

Reputation: Reduced revenue from decreased demand for goods/services

#### Company-specific description

Our current method for managing the risk is to incorporate employee sustainability training as part of CBRE's protocol. CBRE continues to place a strong focus on equipping building staff with the knowledge, proper tools and best practices they need to successfully manage and reduce energy consumption. In partnership with Building Owners and Managers Association International (BOMA), CBRE licenses BOMA Energy Efficiency Program (BEEP) training and offers weekly webinars to employees. Using the EPA ENERGY STAR Portfolio Manager as a foundational tool, BEEP educates industry professionals on how to reduce energy consumption and costs with proven no- and low-cost strategies for optimizing equipment, people and practices. While this training program requirement has been in place for many years for all property management staff, during 2016 the training curriculum was expanded as required learning for all national engineering staff. In total, more than 23,000 attendees had participated in the four-part weekly training series by the end of 2017.

Medium

More likely than not

Short-term

The inability to provide services for climate change-related requirements as a result of staff not being adequately trained is a risk to our business reputation. The inability to provide these services will reduce the demand for our services and impact our service capacity.

#### Time horizon

Our current method for managing the risk is to incorporate employee sustainability training as part of CBRE's protocol. CBRE continues to place a strong focus on equipping building staff with the knowledge, proper tools and best practices they need to successfully manage and reduce energy consumption. In partnership with Building Owners and Managers Association International (BOMA), CBRE licenses BOMA Energy Efficiency Program (BEEP) training and offers weekly webinars to employees. Using the EPA ENERGY STAR Portfolio Manager as a foundational tool, BEEP educates industry professionals on how to reduce energy consumption and costs with proven no- and low-cost strategies for optimizing equipment, people and practices. While this training program requirement has been in place for many years for all property management staff, during 2016 the training curriculum was expanded as required learning for all national engineering staff. In total, more than 23,000 attendees had participated in the four-part weekly training series by the end of 2017.

Medium

More likely than not

Short-term

#### Likelihood

Our current method for managing the risk is to incorporate employee sustainability training as part of CBRE's protocol. CBRE continues to place a strong focus on equipping building staff with the knowledge, proper tools and best practices they need to successfully manage and reduce energy consumption. In partnership with Building Owners and Managers Association International (BOMA), CBRE licenses BOMA Energy Efficiency Program (BEEP) training and offers weekly webinars to employees. Using the EPA ENERGY STAR Portfolio Manager as a foundational tool, BEEP educates industry professionals on how to reduce energy consumption and costs with proven no- and low-cost strategies for optimizing equipment, people and practices. While this training program requirement has been in place for many years for all property management staff, during 2016 the training curriculum was expanded as required learning for all national engineering staff. In total, more than 23,000 attendees had participated in the four-part weekly training series by the end of 2017.

Medium

More likely than not

#### Magnitude of impact

Our current method for managing the risk is to incorporate employee sustainability training as part of CBRE's protocol. CBRE continues to place a strong focus on equipping building staff with the knowledge, proper tools and best practices they need to successfully manage and reduce energy consumption. In partnership with Building Owners and Managers Association International (BOMA), CBRE licenses BOMA Energy Efficiency Program (BEEP) training and offers weekly webinars to employees. Using the EPA ENERGY STAR Portfolio Manager as a foundational tool, BEEP educates industry professionals on how to reduce energy consumption and costs with proven no- and low-cost strategies for optimizing equipment, people and practices. While this training program requirement has been in place for many years for all property management staff, during 2016 the training curriculum was expanded as required learning for all national engineering staff. In total, more than 23,000 attendees had participated in the four-part weekly training series by the end of 2017.

Medium

#### Potential financial impact

Our current method for managing the risk is to incorporate employee sustainability training as part of CBRE's protocol. CBRE continues to place a strong focus on equipping building staff with the knowledge, proper tools and best practices they need to successfully manage and reduce energy consumption. In partnership with Building Owners and Managers Association International (BOMA), CBRE licenses BOMA Energy Efficiency Program (BEEP) training and offers weekly webinars to employees. Using the EPA ENERGY STAR Portfolio Manager as a foundational tool, BEEP educates industry professionals on how to reduce energy consumption and costs with proven no- and low-cost strategies for optimizing equipment, people and practices. While this training program requirement has been in place for many years for all property management staff, during 2016 the training curriculum was expanded as required learning for all national engineering staff. In total, more than 23,000 attendees had participated in the four-part weekly training series by the end of 2017.

#### Explanation of financial impact

Our current method for managing the risk is to incorporate employee sustainability training as part of CBRE's protocol. CBRE continues to place a strong focus on equipping building staff with the knowledge, proper tools and best practices they need to successfully manage and reduce energy consumption. In partnership with Building Owners and Managers Association International (BOMA), CBRE licenses BOMA Energy Efficiency Program (BEEP) training and offers weekly webinars to employees. Using the EPA ENERGY STAR Portfolio Manager as a foundational tool, BEEP educates industry professionals on how to reduce energy consumption and costs with proven no- and low-cost strategies for optimizing equipment, people and practices. While this training program requirement has been in place for many years for all property management staff, during 2016 the training curriculum was expanded as required learning for all national engineering staff. In total, more than 23,000 attendees had participated in the four-part weekly training series by the end of 2017.

#### Management method

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#### Cost of management

#### Comment

## C2.4

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### (C2.4) Have you identified any climate-related opportunities with the potential to have a substantive financial or strategic impact on your business?

Yes

## C2.4a

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### (C2.4a) Provide details of opportunities identified with the potential to have a substantive financial or strategic impact on your business.

#### Identifier

5000000

During 2017 CBRE provide some level of these services for approximately 2.25 billion square feet of client owned and managed space. These services included benchmarking more than 6200 buildings in the EPA ENERGY STAR program and completing 478 green building certifications. On behalf of more than 1.9 billion square feet of managed client space in the Americas and EMEA, our team identified more than \$75 million in energy savings.

Our 2017 revenue from energy and sustainability services was \$65,500,000. We expect these revenues to significantly expand in future years.

65500000

Medium

Likely

Current

As more governing entities enact energy disclosure regulations, and as more companies respond to the growing need to measure, report, and reduce their energy usage and the related carbon emissions, CBRE's opportunity to provide a range of energy and sustainability services expands.

Better competitive position to reflect shifting consumer preferences, resulting in increased revenues

Shift in consumer preferences

Products and services

Customer

Opp1

#### Where in the value chain does the opportunity occur?

5000000

During 2017 CBRE provide some level of these services for approximately 2.25 billion square feet of client owned and managed space. These services included benchmarking more than 6200 buildings in the EPA ENERGY STAR program and completing 478 green building certifications. On behalf of more than 1.9 billion square feet of managed client space in the Americas and EMEA, our team identified more than \$75 million in energy savings.

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Products and services

Customer

#### Opportunity type

5000000

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Better competitive position to reflect shifting consumer preferences, resulting in increased revenues

Shift in consumer preferences

Products and services

#### Primary climate-related opportunity driver

5000000

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Current

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Better competitive position to reflect shifting consumer preferences, resulting in increased revenues

Shift in consumer preferences

#### Type of financial impact driver

5000000

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65500000  
Medium  
Likely  
Current

As more governing entities enact energy disclosure regulations, and as more companies respond to the growing need to measure, report, and reduce their energy usage and the related carbon emissions, CBRE's opportunity to provide a range of energy and sustainability services expands. Better competitive position to reflect shifting consumer preferences, resulting in increased revenues

**Company- specific description**

5000000

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65500000  
Medium  
Likely  
Current

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**Time horizon**

5000000

During 2017 CBRE provide some level of these services for approximately 2.25 billion square feet of client owned and managed space. These services included benchmarking more than 6200 buildings in the EPA ENERGY STAR program and completing 478 green building certifications. On behalf of more than 1.9 billion square feet of managed client space in the Americas and EMEA, our team identified more than \$75 million in energy savings.

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65500000  
Medium  
Likely  
Current

**Likelihood**

5000000

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65500000  
Medium  
Likely

**Magnitude of impact**

5000000

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Our 2017 revenue from energy and sustainability services was \$65,500,000. We expect these revenues to significantly expand in future years.

65500000  
Medium

**Potential financial impact**

5000000

During 2017 CBRE provide some level of these services for approximately 2.25 billion square feet of client owned and managed space. These services included benchmarking more than 6200 buildings in the EPA ENERGY STAR program and completing 478 green building certifications. On behalf of more than 1.9 billion square feet of managed client space in the Americas and EMEA, our team identified more than \$75 million in energy savings.

Our 2017 revenue from energy and sustainability services was \$65,500,000. We expect these revenues to significantly expand in future years.

65500000

**Explanation of financial impact**

5000000

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Our 2017 revenue from energy and sustainability services was \$65,500,000. We expect these revenues to significantly expand in future years.

**Strategy to realize opportunity**

5000000

During 2017 CBRE provide some level of these services for approximately 2.25 billion square feet of client owned and managed space. These services included benchmarking more than 6200 buildings in the EPA ENERGY STAR program and completing 478 green building certifications. On behalf of more than 1.9 billion square feet of managed client space in the Americas and EMEA, our team identified more than \$75 million in energy savings.

**Cost to realize opportunity**

5000000

**Comment**

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**Identifier**

100000

We are considering developing an "asset resiliency index" to aid our clients in their efforts to determine risk factors and prepare appropriate design and response plans. This index could then be implemented across our managed assets.

Medium

Likely  
Short-term  
CBRE's occupier and investor clients are considering climate risk and resiliency as an important part of their real estate decision process. We can develop new services to help clients ensure resiliency in their real estate portfolio.  
Increased revenue through new products and services related to ensuring resiliency  
Other  
Resilience  
Customer  
Opp2

**Where in the value chain does the opportunity occur?**

100000  
We are considering developing an "asset resiliency index" to aid our clients in their efforts to determine risk factors and prepare appropriate design and response plans. This index could then be implemented across our managed assets.

Medium  
Likely  
Short-term  
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Increased revenue through new products and services related to ensuring resiliency  
Other  
Resilience  
Customer

**Opportunity type**

100000  
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Medium  
Likely  
Short-term  
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Increased revenue through new products and services related to ensuring resiliency  
Other  
Resilience

**Primary climate-related opportunity driver**

100000  
We are considering developing an "asset resiliency index" to aid our clients in their efforts to determine risk factors and prepare appropriate design and response plans. This index could then be implemented across our managed assets.

Medium  
Likely  
Short-term  
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Increased revenue through new products and services related to ensuring resiliency  
Other

**Type of financial impact driver**

100000  
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Medium  
Likely  
Short-term  
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Increased revenue through new products and services related to ensuring resiliency

**Company- specific description**

100000  
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Medium  
Likely  
Short-term  
CBRE's occupier and investor clients are considering climate risk and resiliency as an important part of their real estate decision process. We can develop new services to help clients ensure resiliency in their real estate portfolio.

**Time horizon**

100000  
We are considering developing an "asset resiliency index" to aid our clients in their efforts to determine risk factors and prepare appropriate design and response plans. This index could then be implemented across our managed assets.

Medium  
Likely  
Short-term

**Likelihood**

100000  
We are considering developing an "asset resiliency index" to aid our clients in their efforts to determine risk factors and prepare appropriate design and response plans. This index could then be implemented across our managed assets.

Medium  
Likely

**Magnitude of impact**

100000

We are considering developing an "asset resiliency index" to aid our clients in their efforts to determine risk factors and prepare appropriate design and response plans. This index could then be implemented across our managed assets.

Medium

**Potential financial impact**

100000

We are considering developing an "asset resiliency index" to aid our clients in their efforts to determine risk factors and prepare appropriate design and response plans. This index could then be implemented across our managed assets.

**Explanation of financial impact**

100000

We are considering developing an "asset resiliency index" to aid our clients in their efforts to determine risk factors and prepare appropriate design and response plans. This index could then be implemented across our managed assets.

**Strategy to realize opportunity**

100000

We are considering developing an "asset resiliency index" to aid our clients in their efforts to determine risk factors and prepare appropriate design and response plans. This index could then be implemented across our managed assets.

**Cost to realize opportunity**

100000

**Comment****Identifier**

Our current method for managing the effects of severe weather events is through CBRE's Business Continuity program, which provides planned emergency responses to safeguard people, properties and the interests of employees, tenants and clients. The program addresses such vital areas as data back-up and recovery; alternative communications with tenants, clients and employees; and alternative physical locations. CBRE's managers also include weather changes in business planning. For example, managers take into consideration the potential for market impact arising from persistent droughts and severe weather events limiting expansion of the real estate markets in some areas while encouraging expansion in less weather-stricken areas.

Medium

Likely

Short-term

As part of our business continuity program, we provide remediation and recovery efforts due to severe weather events. As climate change increases the likelihood of droughts, flooding, tropical cyclones, snow, and ice, there is an opportunity for us to increase our business in remediation and recovery.

Other, please specify (Increased revenue: continuity services)

Other

Products and services

Customer

Opp3

**Where in the value chain does the opportunity occur?**

Our current method for managing the effects of severe weather events is through CBRE's Business Continuity program, which provides planned emergency responses to safeguard people, properties and the interests of employees, tenants and clients. The program addresses such vital areas as data back-up and recovery; alternative communications with tenants, clients and employees; and alternative physical locations. CBRE's managers also include weather changes in business planning. For example, managers take into consideration the potential for market impact arising from persistent droughts and severe weather events limiting expansion of the real estate markets in some areas while encouraging expansion in less weather-stricken areas.

Medium

Likely

Short-term

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Other, please specify (Increased revenue: continuity services)

Other

Products and services

Customer

**Opportunity type**

Our current method for managing the effects of severe weather events is through CBRE's Business Continuity program, which provides planned emergency responses to safeguard people, properties and the interests of employees, tenants and clients. The program addresses such vital areas as data back-up and recovery; alternative communications with tenants, clients and employees; and alternative physical locations. CBRE's managers also include weather changes in business planning. For example, managers take into consideration the potential for market impact arising from persistent droughts and severe weather events limiting expansion of the real estate markets in some areas while encouraging expansion in less weather-stricken areas.

Medium

Likely

Short-term

As part of our business continuity program, we provide remediation and recovery efforts due to severe weather events. As climate change increases the likelihood of droughts, flooding, tropical cyclones, snow, and ice, there is an opportunity for us to increase our business in remediation and recovery.

Other, please specify (Increased revenue: continuity services)

Other

Products and services

**Primary climate-related opportunity driver**

Our current method for managing the effects of severe weather events is through CBRE's Business Continuity program, which provides planned emergency responses to safeguard people, properties and the interests of employees, tenants and clients. The program addresses such vital areas as data back-up and recovery; alternative communications with tenants, clients and employees; and alternative physical locations. CBRE's managers also include weather changes in business planning. For example, managers take into consideration the potential for market impact arising from persistent droughts and severe weather events limiting expansion of the real estate markets in some areas while encouraging expansion in less weather-stricken areas.

Medium

Likely

Short-term

As part of our business continuity program, we provide remediation and recovery efforts due to severe weather events. As climate change increases the likelihood of droughts, flooding, tropical cyclones, snow, and ice, there is an opportunity for us to increase our business in remediation and recovery.

Other, please specify (Increased revenue: continuity services)

Other

#### Type of financial impact driver

Our current method for managing the effects of severe weather events is through CBRE's Business Continuity program, which provides planned emergency responses to safeguard people, properties and the interests of employees, tenants and clients. The program addresses such vital areas as data back-up and recovery; alternative communications with tenants, clients and employees; and alternative physical locations. CBRE's managers also include weather changes in business planning. For example, managers take into consideration the potential for market impact arising from persistent droughts and severe weather events limiting expansion of the real estate markets in some areas while encouraging expansion in less weather-stricken areas.

Medium

Likely

Short-term

As part of our business continuity program, we provide remediation and recovery efforts due to severe weather events. As climate change increases the likelihood of droughts, flooding, tropical cyclones, snow, and ice, there is an opportunity for us to increase our business in remediation and recovery.

Other, please specify (Increased revenue: continuity services)

#### Company- specific description

Our current method for managing the effects of severe weather events is through CBRE's Business Continuity program, which provides planned emergency responses to safeguard people, properties and the interests of employees, tenants and clients. The program addresses such vital areas as data back-up and recovery; alternative communications with tenants, clients and employees; and alternative physical locations. CBRE's managers also include weather changes in business planning. For example, managers take into consideration the potential for market impact arising from persistent droughts and severe weather events limiting expansion of the real estate markets in some areas while encouraging expansion in less weather-stricken areas.

Medium

Likely

Short-term

As part of our business continuity program, we provide remediation and recovery efforts due to severe weather events. As climate change increases the likelihood of droughts, flooding, tropical cyclones, snow, and ice, there is an opportunity for us to increase our business in remediation and recovery.

#### Time horizon

Our current method for managing the effects of severe weather events is through CBRE's Business Continuity program, which provides planned emergency responses to safeguard people, properties and the interests of employees, tenants and clients. The program addresses such vital areas as data back-up and recovery; alternative communications with tenants, clients and employees; and alternative physical locations. CBRE's managers also include weather changes in business planning. For example, managers take into consideration the potential for market impact arising from persistent droughts and severe weather events limiting expansion of the real estate markets in some areas while encouraging expansion in less weather-stricken areas.

Medium

Likely

Short-term

#### Likelihood

Our current method for managing the effects of severe weather events is through CBRE's Business Continuity program, which provides planned emergency responses to safeguard people, properties and the interests of employees, tenants and clients. The program addresses such vital areas as data back-up and recovery; alternative communications with tenants, clients and employees; and alternative physical locations. CBRE's managers also include weather changes in business planning. For example, managers take into consideration the potential for market impact arising from persistent droughts and severe weather events limiting expansion of the real estate markets in some areas while encouraging expansion in less weather-stricken areas.

Medium

Likely

#### Magnitude of impact

Our current method for managing the effects of severe weather events is through CBRE's Business Continuity program, which provides planned emergency responses to safeguard people, properties and the interests of employees, tenants and clients. The program addresses such vital areas as data back-up and recovery; alternative communications with tenants, clients and employees; and alternative physical locations. CBRE's managers also include weather changes in business planning. For example, managers take into consideration the potential for market impact arising from persistent droughts and severe weather events limiting expansion of the real estate markets in some areas while encouraging expansion in less weather-stricken areas.

Medium

#### Potential financial impact

Our current method for managing the effects of severe weather events is through CBRE's Business Continuity program, which provides planned emergency responses to safeguard people, properties and the interests of employees, tenants and clients. The program addresses such vital areas as data back-up and recovery; alternative communications with tenants, clients and employees; and alternative physical locations. CBRE's managers also include weather changes in business planning. For example, managers take into consideration the potential for market impact arising from persistent droughts and severe weather events limiting expansion of the real estate markets in some areas while encouraging expansion in less weather-stricken areas.

#### Explanation of financial impact

Our current method for managing the effects of severe weather events is through CBRE's Business Continuity program, which provides planned emergency responses to safeguard people, properties and the interests of employees, tenants and clients. The program addresses such vital areas as data back-up and recovery; alternative communications with tenants, clients and employees; and alternative physical locations. CBRE's managers also include weather changes in business planning. For example, managers take into consideration the potential for market impact arising from persistent droughts and severe weather events limiting expansion of the real estate markets in some areas while encouraging expansion in less weather-stricken areas.

#### Strategy to realize opportunity

Our current method for managing the effects of severe weather events is through CBRE's Business Continuity program, which provides planned emergency responses to safeguard people, properties and the interests of employees, tenants and clients. The program addresses such vital areas as data back-up and recovery; alternative communications with tenants, clients and employees; and alternative physical locations. CBRE's managers also include weather changes in business planning. For example, managers take into consideration the potential for market impact arising from persistent droughts and severe weather events limiting expansion of the real estate markets in some areas while encouraging expansion in less weather-stricken areas.

#### Cost to realize opportunity

#### Comment

## C2.5

### (C2.5) Describe where and how the identified risks and opportunities have impacted your business.

	Impact	Description
Products and services	Impacted	CBRE offers energy and sustainability services such as data management, smart buildings systems integration, energy consulting, energy procurement solutions, certification services and sustainability consulting. As part of our business continuity program, we also provide remediation and recovery efforts due to severe weather events.
Supply chain and/or value chain	Impacted	Our clients have been impacted by energy disclosure regulations in a number of markets. They are also addressing stakeholder requests to measure, report, and reduce their energy usage and GHG emissions.
Adaptation and mitigation activities	Not evaluated	
Investment in R&D	Not yet impacted	We are considering developing an "asset resiliency index" to aid our clients in their efforts to determine risk factors and prepare appropriate design and response plans.
Operations	Impacted	In 2017, our operations were impacted by severe weather events, including Hurricane Harvey (Texas), Hurricane Irma (Florida), Hurricane Maria (Puerto Rico & Caribbean), Earthquake (Mexico City), and Wildfires (Northern and Southern California).
Other, please specify	We have not identified any risks or opportunities	

## C2.6

### (C2.6) Describe where and how the identified risks and opportunities have factored into your financial planning process.

	Relevance	Description
Revenues	Impacted	Our 2017 revenue from energy and sustainability services was \$65,500,000. We expect these revenues to significantly expand in future years.
Operating costs	Impacted	If revenues from energy and sustainability services increase, we will likely need to hire additional staff to provide these services.
Capital expenditures / capital allocation	Not evaluated	
Acquisitions and divestments	Impacted	We may need to acquire companies that offer specialized energy and sustainability services. For example, in 2018, we invested in Redaptive, an energy efficiency as a service firm, that measurably increased our ability to diagnose, manage, audit, and finance energy efficiency projects.
Access to capital	Not evaluated	
Assets	Not evaluated	
Liabilities	Not evaluated	
Other	We have not identified any risks or opportunities	

## C3. Business Strategy

### C3.1

#### (C3.1) Are climate-related issues integrated into your business strategy?

Yes

#### C3.1a

#### (C3.1a) Does your organization use climate-related scenario analysis to inform your business strategy?

No, but we anticipate doing so in the next two years

#### C3.1c

**(C3.1c) Explain how climate-related issues are integrated into your business objectives and strategy.**

i. Our business objectives and strategy have been influenced by client demands for solutions to help them address the impacts of climate change in their real estate portfolio. We formed our Global Energy and Sustainability team more than a decade ago to provide our clients with fact-based outcomes that lessen environmental impact – generating both immediate results and long-term financial benefits through key integrated strategies. Our team includes more than 220 energy and sustainability experts and experienced professionals. Services provided include data management, smart buildings systems integration, energy consulting, energy procurement solutions, certification services and sustainability consulting. In 2017, revenue from energy and sustainability services totaled more than \$65.6 million across our United States and EMEA regions. Globally, 6,788 buildings under management totaling 1.895 billion square feet were provided with energy and sustainability services.

ii. While we have absolute emissions reduction targets for our Scope 1 and Scope 2 emissions, these targets are not linked to our business strategy at this time.

iii. The most substantial business decision made during 2017 that was influenced by client demands for solutions to help them address climate change was the opening of a Smart Building Client Experience Center (CEC) to spotlight leading building technology solutions. Located outside Milwaukee in the Gateway West Commerce Center, CBRE’s Smart Building Client Experience Center is a 34,000-square-foot, Class-A office building that has been designed, built, and managed as a showcase headquarters of CBRE|ESI, the company’s smart building solutions business.

CBRE’s CEC is one of just six buildings in the world that have earned a Triple LEED Platinum rating. It has also achieved an Energy Star rating of 99, an impressive achievement for this facility type and location. The center evaluates new technologies on behalf of corporate clients, equipment, and technology partners around the globe.

Capabilities include the ability to track an occupant from arrival on site to departure, with real-time capability to adjust air quality, temperature, light, audio, and visual capabilities based on movement throughout the environment. CBRE|ESI uses an advanced integration and analytics platform to securely gather and analyze data from sensors, various building systems, meters, and other devices. Best practices for network security and internet-of-things (IoT) design are showcased throughout the facility.

CBRE|ESI’s CEC also demonstrates the tangible results of cost reduction and environmental stewardship clients can achieve. The center itself performed 41% more efficiently than design models had projected. It also eliminated 223 tons of CO2 (equivalent of consuming 25,000 gallons of gasoline) in the building’s first year of occupancy.

“The smart building process, expertise, and technology within CBRE|ESI create tremendous value for both individual facilities and global portfolios,” said Bill Concannon, CEO of CBRE’s Global Workplace Solutions. “We provide transparent assurance to our clients that their facilities are operating efficiently and optimally through the right combination of people, process and technology, while simultaneously enhancing the workplace experience for their clients and occupants.”

By opening the CBRE|ESI headquarters space to clients as an experience center, CBRE seeks to show building owners and occupiers how the blend of intelligent design, advanced technology, proactive operations planning, and strategic maintenance protocols can be applied to achieve optimal facilities performance.

**C3.1g**

**(C3.1g) Why does your organization not use climate-related scenario analysis to inform your business strategy?**

We have not used climate-related scenario analysis to inform our business strategy to date. As a B2B services firm, our Scope 1 and Scope 2 emissions are relatively small compared to other companies of similar revenue and headcount, and our stakeholders have not asked us to pursue climate-related scenario analysis. However, we have recently committed to formally supporting the TCFD recommendations and we recognize that climate-related scenario analysis is an important component of the recommendations. We plan to implement climate-related scenario analysis in the next two years by first educating senior management on what climate-related scenario analysis is and how it will aid us in strategic planning. We will then incorporate climate-related scenario analysis into our enterprise risk management processes.

**C4. Targets and performance**

**C4.1**

**(C4.1) Did you have an emissions target that was active in the reporting year?**

Absolute target

**C4.1a**

**(C4.1a) Provide details of your absolute emissions target(s) and progress made against those targets.**

**Target reference number**

While it appears that we have already achieved this goal, we know that our Scope 1 emissions fluctuate each year due to changes in the number of vehicles we own. In 2017, our fleet count decreased due to a reduction in the number of owned vehicles associated with client-managed accounts. We also saw a decrease in average per-vehicle miles in our EMEA region.

Underway

100

Yes, we consider this a science-based target, but this target has not been approved as science-based by the Science-Based Targets initiative

2026

63414

2017

2016

20

100

Scope 1

Abs 1

**Scope**

While it appears that we have already achieved this goal, we know that our Scope 1 emissions fluctuate each year due to changes in the number of vehicles we own. In 2017, our fleet count decreased due to a reduction in the number of owned vehicles associated with client-managed accounts. We also saw a decrease in average per-vehicle miles in our EMEA region.

Underway

100

Yes, we consider this a science-based target, but this target has not been approved as science-based by the Science-Based Targets initiative

2026

63414

2017

2016

20

100

Scope 1

#### **% emissions in Scope**

While it appears that we have already achieved this goal, we know that our Scope 1 emissions fluctuate each year due to changes in the number of vehicles we own. In 2017, our fleet count decreased due to a reduction in the number of owned vehicles associated with client-managed accounts. We also saw a decrease in average per-vehicle miles in our EMEA region.

Underway

100

Yes, we consider this a science-based target, but this target has not been approved as science-based by the Science-Based Targets initiative

2026

63414

2017

2016

20

100

#### **% reduction from base year**

While it appears that we have already achieved this goal, we know that our Scope 1 emissions fluctuate each year due to changes in the number of vehicles we own. In 2017, our fleet count decreased due to a reduction in the number of owned vehicles associated with client-managed accounts. We also saw a decrease in average per-vehicle miles in our EMEA region.

Underway

100

Yes, we consider this a science-based target, but this target has not been approved as science-based by the Science-Based Targets initiative

2026

63414

2017

2016

20

20

#### **Base year**

While it appears that we have already achieved this goal, we know that our Scope 1 emissions fluctuate each year due to changes in the number of vehicles we own. In 2017, our fleet count decreased due to a reduction in the number of owned vehicles associated with client-managed accounts. We also saw a decrease in average per-vehicle miles in our EMEA region.

Underway

100

Yes, we consider this a science-based target, but this target has not been approved as science-based by the Science-Based Targets initiative

2026

63414

2017

2016

#### **Start year**

While it appears that we have already achieved this goal, we know that our Scope 1 emissions fluctuate each year due to changes in the number of vehicles we own. In 2017, our fleet count decreased due to a reduction in the number of owned vehicles associated with client-managed accounts. We also saw a decrease in average per-vehicle miles in our EMEA region.

Underway

100

Yes, we consider this a science-based target, but this target has not been approved as science-based by the Science-Based Targets initiative

2026

63414

2017

#### **Base year emissions covered by target (metric tons CO2e)**

While it appears that we have already achieved this goal, we know that our Scope 1 emissions fluctuate each year due to changes in the number of vehicles we own. In 2017, our fleet count decreased due to a reduction in the number of owned vehicles associated with client-managed accounts. We also saw a decrease in average per-vehicle miles in our EMEA region.

Underway

100

Yes, we consider this a science-based target, but this target has not been approved as science-based by the Science-Based Targets initiative

2026

63414

#### **Target year**

While it appears that we have already achieved this goal, we know that our Scope 1 emissions fluctuate each year due to changes in the number of vehicles we own. In 2017, our fleet count decreased due to a reduction in the number of owned vehicles associated with client-managed accounts. We also saw a decrease in average per-vehicle miles in our EMEA region.

Underway

100

Yes, we consider this a science-based target, but this target has not been approved as science-based by the Science-Based Targets initiative

2026

**Is this a science-based target?**

While it appears that we have already achieved this goal, we know that our Scope 1 emissions fluctuate each year due to changes in the number of vehicles we own. In 2017, our fleet count decreased due to a reduction in the number of owned vehicles associated with client-managed accounts. We also saw a decrease in average per-vehicle miles in our EMEA region.

Underway  
100

Yes, we consider this a science-based target, but this target has not been approved as science-based by the Science-Based Targets initiative

**% achieved (emissions)**

While it appears that we have already achieved this goal, we know that our Scope 1 emissions fluctuate each year due to changes in the number of vehicles we own. In 2017, our fleet count decreased due to a reduction in the number of owned vehicles associated with client-managed accounts. We also saw a decrease in average per-vehicle miles in our EMEA region.

Underway  
100

**Target status**

While it appears that we have already achieved this goal, we know that our Scope 1 emissions fluctuate each year due to changes in the number of vehicles we own. In 2017, our fleet count decreased due to a reduction in the number of owned vehicles associated with client-managed accounts. We also saw a decrease in average per-vehicle miles in our EMEA region.

Underway

**Please explain**

While it appears that we have already achieved this goal, we know that our Scope 1 emissions fluctuate each year due to changes in the number of vehicles we own. In 2017, our fleet count decreased due to a reduction in the number of owned vehicles associated with client-managed accounts. We also saw a decrease in average per-vehicle miles in our EMEA region.

**Target reference number**

Underway  
88

Yes, we consider this a science-based target, but this target has not been approved as science-based by the Science-Based Targets initiative

2025  
33949  
2016  
2015  
30  
100  
Scope 2 (location-based)  
Abs 2

**Scope**

Underway  
88

Yes, we consider this a science-based target, but this target has not been approved as science-based by the Science-Based Targets initiative

2025  
33949  
2016  
2015  
30  
100  
Scope 2 (location-based)

**% emissions in Scope**

Underway  
88

Yes, we consider this a science-based target, but this target has not been approved as science-based by the Science-Based Targets initiative

2025  
33949  
2016  
2015  
30  
100

**% reduction from base year**

Underway  
88

Yes, we consider this a science-based target, but this target has not been approved as science-based by the Science-Based Targets initiative

2025  
33949  
2016  
2015  
30

**Base year**

Underway  
88

Yes, we consider this a science-based target, but this target has not been approved as science-based by the Science-Based Targets initiative

2025  
33949  
2016  
2015

**Start year**

Underway  
88

Yes, we consider this a science-based target, but this target has not been approved as science-based by the Science-Based Targets initiative  
2025  
33949  
2016

**Base year emissions covered by target (metric tons CO2e)**

Underway  
88

Yes, we consider this a science-based target, but this target has not been approved as science-based by the Science-Based Targets initiative  
2025  
33949

**Target year**

Underway  
88

Yes, we consider this a science-based target, but this target has not been approved as science-based by the Science-Based Targets initiative  
2025

**Is this a science-based target?**

Underway  
88

Yes, we consider this a science-based target, but this target has not been approved as science-based by the Science-Based Targets initiative

**% achieved (emissions)**

Underway  
88

**Target status**

Underway

**Please explain**

---

**Target reference number**

Underway  
53

Yes, we consider this a science-based target, but this target has not been approved as science-based by the Science-Based Targets initiative  
2035  
33949  
2016  
2015  
50  
100  
Scope 2 (location-based)  
Abs 3

**Scope**

Underway  
53

Yes, we consider this a science-based target, but this target has not been approved as science-based by the Science-Based Targets initiative  
2035  
33949  
2016  
2015  
50  
100  
Scope 2 (location-based)

**% emissions in Scope**

Underway  
53

Yes, we consider this a science-based target, but this target has not been approved as science-based by the Science-Based Targets initiative  
2035  
33949  
2016  
2015  
50  
100

**% reduction from base year**

Underway  
53

Yes, we consider this a science-based target, but this target has not been approved as science-based by the Science-Based Targets initiative  
2035  
33949  
2016  
2015  
50

**Base year**

Underway  
53

Yes, we consider this a science-based target, but this target has not been approved as science-based by the Science-Based Targets initiative  
2035  
33949

2016  
2015

**Start year**

Underway

53

Yes, we consider this a science-based target, but this target has not been approved as science-based by the Science-Based Targets initiative

2035

33949

2016

**Base year emissions covered by target (metric tons CO2e)**

Underway

53

Yes, we consider this a science-based target, but this target has not been approved as science-based by the Science-Based Targets initiative

2035

33949

**Target year**

Underway

53

Yes, we consider this a science-based target, but this target has not been approved as science-based by the Science-Based Targets initiative

2035

**Is this a science-based target?**

Underway

53

Yes, we consider this a science-based target, but this target has not been approved as science-based by the Science-Based Targets initiative

**% achieved (emissions)**

Underway

53

**Target status**

Underway

**Please explain**

C4.2

(C4.2) Provide details of other key climate-related targets not already reported in question C4.1/a/b.

C4.3

(C4.3) Did you have emissions reduction initiatives that were active within the reporting year? Note that this can include those in the planning and/or implementation phases.

Yes

C4.3a

(C4.3a) Identify the total number of projects at each stage of development, and for those in the implementation stages, the estimated CO2e savings.

	Number of projects	Total estimated annual CO2e savings in metric tonnes CO2e (only for rows marked *)
Under investigation	0	
To be implemented*	1	425000
Implementation commenced*	1	2600
Implemented*	1	346
Not to be implemented	0	

C4.3b

(C4.3b) Provide details on the initiatives implemented in the reporting year in the table below.

**Activity type**

During 2017, CBRE provided energy and sustainability services for more than 1.8 billion square feet of client space and identified more than \$75 million in energy savings. When fully accomplished, these projects will eliminate more than 425,000 metric tons of CO2e.

Please select

Please select

75000000

Voluntary

Scope 3

425000

Building controls  
Energy efficiency: Building services

**Description of activity**

During 2017, CBRE provided energy and sustainability services for more than 1.8 billion square feet of client space and identified more than \$75 million in energy savings. When fully accomplished, these projects will eliminate more than 425,000 metric tons of CO2e.

Please select  
Please select  
75000000  
Voluntary  
Scope 3  
425000  
Building controls

**Estimated annual CO2e savings (metric tonnes CO2e)**

During 2017, CBRE provided energy and sustainability services for more than 1.8 billion square feet of client space and identified more than \$75 million in energy savings. When fully accomplished, these projects will eliminate more than 425,000 metric tons of CO2e.

Please select  
Please select  
75000000  
Voluntary  
Scope 3  
425000

**Scope**

During 2017, CBRE provided energy and sustainability services for more than 1.8 billion square feet of client space and identified more than \$75 million in energy savings. When fully accomplished, these projects will eliminate more than 425,000 metric tons of CO2e.

Please select  
Please select  
75000000  
Voluntary  
Scope 3

**Voluntary/Mandatory**

During 2017, CBRE provided energy and sustainability services for more than 1.8 billion square feet of client space and identified more than \$75 million in energy savings. When fully accomplished, these projects will eliminate more than 425,000 metric tons of CO2e.

Please select  
Please select  
75000000  
Voluntary

**Annual monetary savings (unit currency – as specified in CC0.4)**

During 2017, CBRE provided energy and sustainability services for more than 1.8 billion square feet of client space and identified more than \$75 million in energy savings. When fully accomplished, these projects will eliminate more than 425,000 metric tons of CO2e.

Please select  
Please select  
75000000

**Investment required (unit currency – as specified in CC0.4)**

During 2017, CBRE provided energy and sustainability services for more than 1.8 billion square feet of client space and identified more than \$75 million in energy savings. When fully accomplished, these projects will eliminate more than 425,000 metric tons of CO2e.

Please select  
Please select

**Payback period**

During 2017, CBRE provided energy and sustainability services for more than 1.8 billion square feet of client space and identified more than \$75 million in energy savings. When fully accomplished, these projects will eliminate more than 425,000 metric tons of CO2e.

Please select  
Please select

**Estimated lifetime of the initiative**

During 2017, CBRE provided energy and sustainability services for more than 1.8 billion square feet of client space and identified more than \$75 million in energy savings. When fully accomplished, these projects will eliminate more than 425,000 metric tons of CO2e.

Please select

**Comment**

During 2017, CBRE provided energy and sustainability services for more than 1.8 billion square feet of client space and identified more than \$75 million in energy savings. When fully accomplished, these projects will eliminate more than 425,000 metric tons of CO2e.

---

**Activity type**

By the end of 2017, we had opened 65 Workplace360 offices worldwide, representing 24% of our global occupied square footage. An additional 22 Workplace360 offices are underway in 2018. Each Workplace360 office is a “free address” environment, supported by leading-edge technology tools and platforms. Assigned offices and workstations are eliminated; instead, up to 15 different types of workspaces are offered based on carefully calculated employee usage patterns. In these new spaces, we have reduced our footprint significantly while offering greater functionality and flexibility. This has resulted in lower energy use and carbon emissions.

Please select  
Please select  
Voluntary  
Scope 2 (location-based)  
2600  
<Not Applicable>  
Other, please specify (Space attrition)

**Description of activity**

By the end of 2017, we had opened 65 Workplace360 offices worldwide, representing 24% of our global occupied square footage. An additional 22 Workplace360 offices

are underway in 2018. Each Workplace360 office is a “free address” environment, supported by leading-edge technology tools and platforms. Assigned offices and workstations are eliminated; instead, up to 15 different types of workspaces are offered based on carefully calculated employee usage patterns. In these new spaces, we have reduced our footprint significantly while offering greater functionality and flexibility. This has resulted in lower energy use and carbon emissions.

Please select

Please select

Voluntary

Scope 2 (location-based)

2600

<Not Applicable>

#### **Estimated annual CO2e savings (metric tonnes CO2e)**

By the end of 2017, we had opened 65 Workplace360 offices worldwide, representing 24% of our global occupied square footage. An additional 22 Workplace360 offices are underway in 2018. Each Workplace360 office is a “free address” environment, supported by leading-edge technology tools and platforms. Assigned offices and workstations are eliminated; instead, up to 15 different types of workspaces are offered based on carefully calculated employee usage patterns. In these new spaces, we have reduced our footprint significantly while offering greater functionality and flexibility. This has resulted in lower energy use and carbon emissions.

Please select

Please select

Voluntary

Scope 2 (location-based)

2600

#### **Scope**

By the end of 2017, we had opened 65 Workplace360 offices worldwide, representing 24% of our global occupied square footage. An additional 22 Workplace360 offices are underway in 2018. Each Workplace360 office is a “free address” environment, supported by leading-edge technology tools and platforms. Assigned offices and workstations are eliminated; instead, up to 15 different types of workspaces are offered based on carefully calculated employee usage patterns. In these new spaces, we have reduced our footprint significantly while offering greater functionality and flexibility. This has resulted in lower energy use and carbon emissions.

Please select

Please select

Voluntary

Scope 2 (location-based)

#### **Voluntary/Mandatory**

By the end of 2017, we had opened 65 Workplace360 offices worldwide, representing 24% of our global occupied square footage. An additional 22 Workplace360 offices are underway in 2018. Each Workplace360 office is a “free address” environment, supported by leading-edge technology tools and platforms. Assigned offices and workstations are eliminated; instead, up to 15 different types of workspaces are offered based on carefully calculated employee usage patterns. In these new spaces, we have reduced our footprint significantly while offering greater functionality and flexibility. This has resulted in lower energy use and carbon emissions.

Please select

Please select

Voluntary

#### **Annual monetary savings (unit currency – as specified in CC0.4)**

By the end of 2017, we had opened 65 Workplace360 offices worldwide, representing 24% of our global occupied square footage. An additional 22 Workplace360 offices are underway in 2018. Each Workplace360 office is a “free address” environment, supported by leading-edge technology tools and platforms. Assigned offices and workstations are eliminated; instead, up to 15 different types of workspaces are offered based on carefully calculated employee usage patterns. In these new spaces, we have reduced our footprint significantly while offering greater functionality and flexibility. This has resulted in lower energy use and carbon emissions.

Please select

Please select

#### **Investment required (unit currency – as specified in CC0.4)**

By the end of 2017, we had opened 65 Workplace360 offices worldwide, representing 24% of our global occupied square footage. An additional 22 Workplace360 offices are underway in 2018. Each Workplace360 office is a “free address” environment, supported by leading-edge technology tools and platforms. Assigned offices and workstations are eliminated; instead, up to 15 different types of workspaces are offered based on carefully calculated employee usage patterns. In these new spaces, we have reduced our footprint significantly while offering greater functionality and flexibility. This has resulted in lower energy use and carbon emissions.

Please select

Please select

#### **Payback period**

By the end of 2017, we had opened 65 Workplace360 offices worldwide, representing 24% of our global occupied square footage. An additional 22 Workplace360 offices are underway in 2018. Each Workplace360 office is a “free address” environment, supported by leading-edge technology tools and platforms. Assigned offices and workstations are eliminated; instead, up to 15 different types of workspaces are offered based on carefully calculated employee usage patterns. In these new spaces, we have reduced our footprint significantly while offering greater functionality and flexibility. This has resulted in lower energy use and carbon emissions.

Please select

Please select

#### **Estimated lifetime of the initiative**

By the end of 2017, we had opened 65 Workplace360 offices worldwide, representing 24% of our global occupied square footage. An additional 22 Workplace360 offices are underway in 2018. Each Workplace360 office is a “free address” environment, supported by leading-edge technology tools and platforms. Assigned offices and workstations are eliminated; instead, up to 15 different types of workspaces are offered based on carefully calculated employee usage patterns. In these new spaces, we have reduced our footprint significantly while offering greater functionality and flexibility. This has resulted in lower energy use and carbon emissions.

Please select

#### **Comment**

By the end of 2017, we had opened 65 Workplace360 offices worldwide, representing 24% of our global occupied square footage. An additional 22 Workplace360 offices are underway in 2018. Each Workplace360 office is a “free address” environment, supported by leading-edge technology tools and platforms. Assigned offices and workstations are eliminated; instead, up to 15 different types of workspaces are offered based on carefully calculated employee usage patterns. In these new spaces, we have reduced our footprint significantly while offering greater functionality and flexibility. This has resulted in lower energy use and carbon emissions.

---

#### **Activity type**

During 2017, we benchmarked a total of 6200 buildings under management, representing more than 375,000,000 sq. ft. Our average EPA ENERGY STAR score for these properties was 80.3 and we through our efficiency efforts, we saved 1,586,397,500 kBtu of total energy for the year, or approximately 346 metric tons of CO2e.

Please select

Please select

Voluntary

Scope 3

346  
 Building controls  
 Energy efficiency: Building services

**Description of activity**

During 2017, we benchmarked a total of 6200 buildings under management, representing more than 375,000,000 sq. ft. Our average EPA ENERGY STAR score for these properties was 80.3 and we through our efficiency efforts, we saved 1,586,397,500 kBtu of total energy for the year, or approximately 346 metric tons of CO2e.

Please select  
 Please select  
 Voluntary  
 Scope 3  
 346  
 Building controls

**Estimated annual CO2e savings (metric tonnes CO2e)**

During 2017, we benchmarked a total of 6200 buildings under management, representing more than 375,000,000 sq. ft. Our average EPA ENERGY STAR score for these properties was 80.3 and we through our efficiency efforts, we saved 1,586,397,500 kBtu of total energy for the year, or approximately 346 metric tons of CO2e.

Please select  
 Please select  
 Voluntary  
 Scope 3  
 346

**Scope**

During 2017, we benchmarked a total of 6200 buildings under management, representing more than 375,000,000 sq. ft. Our average EPA ENERGY STAR score for these properties was 80.3 and we through our efficiency efforts, we saved 1,586,397,500 kBtu of total energy for the year, or approximately 346 metric tons of CO2e.

Please select  
 Please select  
 Voluntary  
 Scope 3

**Voluntary/Mandatory**

During 2017, we benchmarked a total of 6200 buildings under management, representing more than 375,000,000 sq. ft. Our average EPA ENERGY STAR score for these properties was 80.3 and we through our efficiency efforts, we saved 1,586,397,500 kBtu of total energy for the year, or approximately 346 metric tons of CO2e.

Please select  
 Please select  
 Voluntary

**Annual monetary savings (unit currency – as specified in CC0.4)**

During 2017, we benchmarked a total of 6200 buildings under management, representing more than 375,000,000 sq. ft. Our average EPA ENERGY STAR score for these properties was 80.3 and we through our efficiency efforts, we saved 1,586,397,500 kBtu of total energy for the year, or approximately 346 metric tons of CO2e.

Please select  
 Please select

**Investment required (unit currency – as specified in CC0.4)**

During 2017, we benchmarked a total of 6200 buildings under management, representing more than 375,000,000 sq. ft. Our average EPA ENERGY STAR score for these properties was 80.3 and we through our efficiency efforts, we saved 1,586,397,500 kBtu of total energy for the year, or approximately 346 metric tons of CO2e.

Please select  
 Please select

**Payback period**

During 2017, we benchmarked a total of 6200 buildings under management, representing more than 375,000,000 sq. ft. Our average EPA ENERGY STAR score for these properties was 80.3 and we through our efficiency efforts, we saved 1,586,397,500 kBtu of total energy for the year, or approximately 346 metric tons of CO2e.

Please select  
 Please select

**Estimated lifetime of the initiative**

During 2017, we benchmarked a total of 6200 buildings under management, representing more than 375,000,000 sq. ft. Our average EPA ENERGY STAR score for these properties was 80.3 and we through our efficiency efforts, we saved 1,586,397,500 kBtu of total energy for the year, or approximately 346 metric tons of CO2e.

Please select

**Comment**

During 2017, we benchmarked a total of 6200 buildings under management, representing more than 375,000,000 sq. ft. Our average EPA ENERGY STAR score for these properties was 80.3 and we through our efficiency efforts, we saved 1,586,397,500 kBtu of total energy for the year, or approximately 346 metric tons of CO2e.

C4.3c

**(C4.3c) What methods do you use to drive investment in emissions reduction activities?**

Method	Comment
Compliance with regulatory requirements/standards	This applies to investments in reducing our own emissions.
Dedicated budget for low-carbon product R&D	This applies to investments in reducing emissions in the properties we manage for our clients.
Internal incentives/recognition programs	Our CBRE Climate Change Champion Award is presented to Asset Services teams for CBRE-managed properties that achieve a 10% or greater year-over-year increase in their ENERGY STAR score.

C4.5

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**(C4.5) Do you classify any of your existing goods and/or services as low-carbon products or do they enable a third party to avoid GHG emissions?**

Yes

**C4.5a**

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**(C4.5a) Provide details of your products and/or services that you classify as low-carbon products or that enable a third party to avoid GHG emissions.**

**Level of aggregation**

Revenue from energy and sustainability services totaled more than \$65.6 million across our United States and EMEA regions. [Note that while we also provided energy and sustainability services throughout our APAC region, we do not have data for that region at this time.]

0.5

Please select

Avoided emissions

Our environmental sustainability services directly enable third parties to avoid Scope 1 and Scope 2 emissions associated with energy use. These services include: a) Energy Program Management - CBRE has built a network of energy program professionals to manage our clients' energy consumption. Utilizing best practices, these energy managers offer CBRE-developed solutions to help clients gain a competitive advantage while driving towards peak energy performance. Strategies include: Strategic Program Planning, Utility Data and Carbon Footprint Management, Demand/Supply- Side Energy Management, Performance Reporting, Training and Awareness Programs. b) Certification Programs – CBRE helps clients improve operating efficiencies and document cost savings to provide owners and occupiers of commercial property with a market-leading economic advantage. CBRE provides expert support in green building certification standards for BREEAM, NABERS, ISO 14001, LEED and others.

Group of products

**Description of product/Group of products**

Revenue from energy and sustainability services totaled more than \$65.6 million across our United States and EMEA regions. [Note that while we also provided energy and sustainability services throughout our APAC region, we do not have data for that region at this time.]

0.5

Please select

Avoided emissions

Our environmental sustainability services directly enable third parties to avoid Scope 1 and Scope 2 emissions associated with energy use. These services include: a) Energy Program Management - CBRE has built a network of energy program professionals to manage our clients' energy consumption. Utilizing best practices, these energy managers offer CBRE-developed solutions to help clients gain a competitive advantage while driving towards peak energy performance. Strategies include: Strategic Program Planning, Utility Data and Carbon Footprint Management, Demand/Supply- Side Energy Management, Performance Reporting, Training and Awareness Programs. b) Certification Programs – CBRE helps clients improve operating efficiencies and document cost savings to provide owners and occupiers of commercial property with a market-leading economic advantage. CBRE provides expert support in green building certification standards for BREEAM, NABERS, ISO 14001, LEED and others.

**Are these low-carbon product(s) or do they enable avoided emissions?**

Revenue from energy and sustainability services totaled more than \$65.6 million across our United States and EMEA regions. [Note that while we also provided energy and sustainability services throughout our APAC region, we do not have data for that region at this time.]

0.5

Please select

Avoided emissions

**Taxonomy, project or methodology used to classify product(s) as low-carbon or to calculate avoided emissions**

Revenue from energy and sustainability services totaled more than \$65.6 million across our United States and EMEA regions. [Note that while we also provided energy and sustainability services throughout our APAC region, we do not have data for that region at this time.]

0.5

Please select

**% revenue from low carbon product(s) in the reporting year**

Revenue from energy and sustainability services totaled more than \$65.6 million across our United States and EMEA regions. [Note that while we also provided energy and sustainability services throughout our APAC region, we do not have data for that region at this time.]

0.5

**Comment**

Revenue from energy and sustainability services totaled more than \$65.6 million across our United States and EMEA regions. [Note that while we also provided energy and sustainability services throughout our APAC region, we do not have data for that region at this time.]

---

**C5. Emissions methodology**

---

**C5.1**

---

**(C5.1) Provide your base year and base year emissions (Scopes 1 and 2).**

**Scope 1**

**Base year start**

January 1 2016

**Base year end**

December 31 2016

**Base year emissions (metric tons CO2e)**

63414

**Comment**

**Scope 2 (location-based)**

**Base year start**

January 1 2015

**Base year end**

December 31 2015

**Base year emissions (metric tons CO2e)**

33949

**Comment**

**Scope 2 (market-based)**

**Base year start**

**Base year end**

**Base year emissions (metric tons CO2e)**

**Comment**

**C5.2**

---

**(C5.2) Select the name of the standard, protocol, or methodology you have used to collect activity data and calculate Scope 1 and Scope 2 emissions.**

The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)

**C6. Emissions data**

---

**C6.1**

---

**(C6.1) What were your organization's gross global Scope 1 emissions in metric tons CO2e?**

**Row 1**

**Gross global Scope 1 emissions (metric tons CO2e)**

46057

**End-year of reporting period**

<Not Applicable>

**Comment**

**C6.2**

---

**(C6.2) Describe your organization's approach to reporting Scope 2 emissions.**

**Row 1**

**Scope 2, location-based**

We are reporting a Scope 2, location-based figure

**Scope 2, market-based**

We have operations where we are able to access electricity supplier emission factors or residual emissions factors, but are unable to report a Scope 2, market-based figure

**Comment**

**C6.3**

---

**(C6.3) What were your organization's gross global Scope 2 emissions in metric tons CO2e?**

Row 1

**Scope 2, location-based**

25010

**Scope 2, market-based (if applicable)**

<Not Applicable>

**End-year of reporting period**

<Not Applicable>

**Comment**

C6.4

---

**(C6.4) Are there any sources (e.g. facilities, specific GHGs, activities, geographies, etc.) of Scope 1 and Scope 2 emissions that are within your selected reporting boundary which are not included in your disclosure?**

No

C6.5

---

**(C6.5) Account for your organization's Scope 3 emissions, disclosing and explaining any exclusions.**

**Purchased goods and services**

**Evaluation status**

Relevant, not yet calculated

**Metric tonnes CO2e**

**Emissions calculation methodology**

**Percentage of emissions calculated using data obtained from suppliers or value chain partners**

**Explanation**

We have not obtained this data from our suppliers.

**Capital goods**

**Evaluation status**

Not relevant, explanation provided

**Metric tonnes CO2e**

**Emissions calculation methodology**

**Percentage of emissions calculated using data obtained from suppliers or value chain partners**

**Explanation**

No significant capital goods purchased during reporting period.

**Fuel-and-energy-related activities (not included in Scope 1 or 2)**

**Evaluation status**

Relevant, not yet calculated

**Metric tonnes CO2e**

**Emissions calculation methodology**

**Percentage of emissions calculated using data obtained from suppliers or value chain partners**

**Explanation**

This category is relevant to us since we are an end user of electricity but we have not yet calculated emissions for this source.

**Upstream transportation and distribution**

**Evaluation status**

Not relevant, explanation provided

**Metric tonnes CO2e**

**Emissions calculation methodology**

**Percentage of emissions calculated using data obtained from suppliers or value chain partners**

**Explanation**

No significant transport of purchased goods.

**Waste generated in operations****Evaluation status**

Relevant, not yet calculated

**Metric tonnes CO2e****Emissions calculation methodology****Percentage of emissions calculated using data obtained from suppliers or value chain partners****Explanation**

Emissions from waste data not collected.

**Business travel****Evaluation status**

Relevant, calculated

**Metric tonnes CO2e**

18626

**Emissions calculation methodology**

NON-AMERICAS REGIONS DEFRA: 2017 UK Government GHG Conversion Factors v1.0, published July 2017 ([www.gov.uk/government/publications/greenhouse-gasreporting-conversionfactors-2017](http://www.gov.uk/government/publications/greenhouse-gasreporting-conversionfactors-2017)) AMERICAS REGION US EPA GHG Emission Factors for Greenhouse Inventories, November 19th 2015, v2 (Table 8) [[http://www.epa.gov/sites/production/files/2015-12/documents/emissionfactors\\_nov\\_2015.pdf](http://www.epa.gov/sites/production/files/2015-12/documents/emissionfactors_nov_2015.pdf)] using IPCC AR4 100-year GWP Factors

**Percentage of emissions calculated using data obtained from suppliers or value chain partners**

100

**Explanation**

CBRE employees travel to client meetings, industry conferences, internal meetings and training sessions.

**Employee commuting****Evaluation status**

Relevant, not yet calculated

**Metric tonnes CO2e****Emissions calculation methodology****Percentage of emissions calculated using data obtained from suppliers or value chain partners****Explanation**

Emissions related to employee commuting have not yet been calculated.

**Upstream leased assets****Evaluation status**

Not relevant, explanation provided

**Metric tonnes CO2e****Emissions calculation methodology****Percentage of emissions calculated using data obtained from suppliers or value chain partners****Explanation**

Emissions associated with upstream leased assets are accounted for in our Scope 1 and 2 emissions.

**Downstream transportation and distribution****Evaluation status**

Not relevant, explanation provided

**Metric tonnes CO2e****Emissions calculation methodology****Percentage of emissions calculated using data obtained from suppliers or value chain partners****Explanation**

Not applicable to our business as a service company.

**Processing of sold products****Evaluation status**

Not relevant, explanation provided

**Metric tonnes CO2e****Emissions calculation methodology****Percentage of emissions calculated using data obtained from suppliers or value chain partners****Explanation**

Not applicable to our business as a service company.

#### Use of sold products

##### Evaluation status

Not relevant, explanation provided

##### Metric tonnes CO2e

##### Emissions calculation methodology

##### Percentage of emissions calculated using data obtained from suppliers or value chain partners

##### Explanation

Not applicable to our business as a service company.

#### End of life treatment of sold products

##### Evaluation status

Not relevant, explanation provided

##### Metric tonnes CO2e

##### Emissions calculation methodology

##### Percentage of emissions calculated using data obtained from suppliers or value chain partners

##### Explanation

Not applicable to our business as a service company.

#### Downstream leased assets

##### Evaluation status

Not relevant, explanation provided

##### Metric tonnes CO2e

##### Emissions calculation methodology

##### Percentage of emissions calculated using data obtained from suppliers or value chain partners

##### Explanation

Not applicable to our business as a service company.

#### Franchises

##### Evaluation status

Not relevant, explanation provided

##### Metric tonnes CO2e

##### Emissions calculation methodology

##### Percentage of emissions calculated using data obtained from suppliers or value chain partners

##### Explanation

We do not operate under a franchise model.

#### Investments

##### Evaluation status

Relevant, not yet calculated

##### Metric tonnes CO2e

##### Emissions calculation methodology

##### Percentage of emissions calculated using data obtained from suppliers or value chain partners

##### Explanation

Emissions from investments managed by our wholly-owned subsidiary CBRE Global Investors have not been calculated.

#### Other (upstream)

##### Evaluation status

##### Metric tonnes CO2e

##### Emissions calculation methodology

##### Percentage of emissions calculated using data obtained from suppliers or value chain partners

##### Explanation

#### Other (downstream)

##### Evaluation status

##### Metric tonnes CO2e

##### Emissions calculation methodology

##### Percentage of emissions calculated using data obtained from suppliers or value chain partners

##### Explanation

## C6.7

### (C6.7) Are carbon dioxide emissions from biologically sequestered carbon relevant to your organization?

No

## C6.10

### (C6.10) Describe your gross global combined Scope 1 and 2 emissions for the reporting year in metric tons CO<sub>2</sub>e per unit currency total revenue and provide any additional intensity metrics that are appropriate to your business operations.

#### Intensity figure

While CBRE's revenue increased from 2016 to 2017, both Scope 1 and Scope 2 emissions decreased. Scope 2 reductions were primarily achieved through space attrition and efficiencies gained through our Workplace360 initiative. Each Workplace360 office is a "free address" environment, supported by leading-edge technology tools and platforms. Assigned offices and workstations are eliminated; instead, up to 15 different types of workspaces are offered based on carefully calculated employee usage patterns. In these new spaces, we have reduced our space footprint significantly while offering greater functionality and flexibility. This has resulted in lower energy use and greenhouse gas emissions. Also in 2017, our fleet count decreased due to a reduction in the number of owned vehicles associated with client-managed accounts. We also saw a decrease in average per-vehicle miles in our EMEA region. These factors led to our Scope 1 emissions reduction.

Decreased

30

Location-based

14209608000

unit total revenue

71067

0.000005

#### Metric numerator (Gross global combined Scope 1 and 2 emissions)

While CBRE's revenue increased from 2016 to 2017, both Scope 1 and Scope 2 emissions decreased. Scope 2 reductions were primarily achieved through space attrition and efficiencies gained through our Workplace360 initiative. Each Workplace360 office is a "free address" environment, supported by leading-edge technology tools and platforms. Assigned offices and workstations are eliminated; instead, up to 15 different types of workspaces are offered based on carefully calculated employee usage patterns. In these new spaces, we have reduced our space footprint significantly while offering greater functionality and flexibility. This has resulted in lower energy use and greenhouse gas emissions. Also in 2017, our fleet count decreased due to a reduction in the number of owned vehicles associated with client-managed accounts. We also saw a decrease in average per-vehicle miles in our EMEA region. These factors led to our Scope 1 emissions reduction.

Decreased

30

Location-based

14209608000

unit total revenue

71067

#### Metric denominator

While CBRE's revenue increased from 2016 to 2017, both Scope 1 and Scope 2 emissions decreased. Scope 2 reductions were primarily achieved through space attrition and efficiencies gained through our Workplace360 initiative. Each Workplace360 office is a "free address" environment, supported by leading-edge technology tools and platforms. Assigned offices and workstations are eliminated; instead, up to 15 different types of workspaces are offered based on carefully calculated employee usage patterns. In these new spaces, we have reduced our space footprint significantly while offering greater functionality and flexibility. This has resulted in lower energy use and greenhouse gas emissions. Also in 2017, our fleet count decreased due to a reduction in the number of owned vehicles associated with client-managed accounts. We also saw a decrease in average per-vehicle miles in our EMEA region. These factors led to our Scope 1 emissions reduction.

Decreased

30

Location-based

14209608000

unit total revenue

#### Metric denominator: Unit total

While CBRE's revenue increased from 2016 to 2017, both Scope 1 and Scope 2 emissions decreased. Scope 2 reductions were primarily achieved through space attrition and efficiencies gained through our Workplace360 initiative. Each Workplace360 office is a "free address" environment, supported by leading-edge technology tools and platforms. Assigned offices and workstations are eliminated; instead, up to 15 different types of workspaces are offered based on carefully calculated employee usage patterns. In these new spaces, we have reduced our space footprint significantly while offering greater functionality and flexibility. This has resulted in lower energy use and greenhouse gas emissions. Also in 2017, our fleet count decreased due to a reduction in the number of owned vehicles associated with client-managed accounts. We also saw a decrease in average per-vehicle miles in our EMEA region. These factors led to our Scope 1 emissions reduction.

Decreased

30

Location-based

14209608000

#### Scope 2 figure used

While CBRE's revenue increased from 2016 to 2017, both Scope 1 and Scope 2 emissions decreased. Scope 2 reductions were primarily achieved through space attrition and efficiencies gained through our Workplace360 initiative. Each Workplace360 office is a "free address" environment, supported by leading-edge technology tools and platforms. Assigned offices and workstations are eliminated; instead, up to 15 different types of workspaces are offered based on carefully calculated employee usage patterns. In these new spaces, we have reduced our space footprint significantly while offering greater functionality and flexibility. This has resulted in lower energy use and greenhouse gas emissions. Also in 2017, our fleet count decreased due to a reduction in the number of owned vehicles associated with client-managed accounts. We also saw a decrease in average per-vehicle miles in our EMEA region. These factors led to our Scope 1 emissions reduction.

Decreased

30

Location-based

#### % change from previous year

While CBRE's revenue increased from 2016 to 2017, both Scope 1 and Scope 2 emissions decreased. Scope 2 reductions were primarily achieved through space attrition and efficiencies gained through our Workplace360 initiative. Each Workplace360 office is a "free address" environment, supported by leading-edge technology tools and

platforms. Assigned offices and workstations are eliminated; instead, up to 15 different types of workspaces are offered based on carefully calculated employee usage patterns. In these new spaces, we have reduced our space footprint significantly while offering greater functionality and flexibility. This has resulted in lower energy use and greenhouse gas emissions. Also in 2017, our fleet count decreased due to a reduction in the number of owned vehicles associated with client-managed accounts. We also saw a decrease in average per-vehicle miles in our EMEA region. These factors led to our Scope 1 emissions reduction.

Decreased  
30

#### Direction of change

While CBRE's revenue increased from 2016 to 2017, both Scope 1 and Scope 2 emissions decreased. Scope 2 reductions were primarily achieved through space attrition and efficiencies gained through our Workplace360 initiative. Each Workplace360 office is a "free address" environment, supported by leading-edge technology tools and platforms. Assigned offices and workstations are eliminated; instead, up to 15 different types of workspaces are offered based on carefully calculated employee usage patterns. In these new spaces, we have reduced our space footprint significantly while offering greater functionality and flexibility. This has resulted in lower energy use and greenhouse gas emissions. Also in 2017, our fleet count decreased due to a reduction in the number of owned vehicles associated with client-managed accounts. We also saw a decrease in average per-vehicle miles in our EMEA region. These factors led to our Scope 1 emissions reduction.

Decreased

#### Reason for change

While CBRE's revenue increased from 2016 to 2017, both Scope 1 and Scope 2 emissions decreased. Scope 2 reductions were primarily achieved through space attrition and efficiencies gained through our Workplace360 initiative. Each Workplace360 office is a "free address" environment, supported by leading-edge technology tools and platforms. Assigned offices and workstations are eliminated; instead, up to 15 different types of workspaces are offered based on carefully calculated employee usage patterns. In these new spaces, we have reduced our space footprint significantly while offering greater functionality and flexibility. This has resulted in lower energy use and greenhouse gas emissions. Also in 2017, our fleet count decreased due to a reduction in the number of owned vehicles associated with client-managed accounts. We also saw a decrease in average per-vehicle miles in our EMEA region. These factors led to our Scope 1 emissions reduction.

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#### Intensity figure

While CBRE's employee headcount increased from 2016 to 2017, both Scope 1 and Scope 2 emissions decreased. Scope 2 reductions were primarily achieved through space attrition and efficiencies gained through our Workplace360 initiative. Each Workplace360 office is a "free address" environment, supported by leading-edge technology tools and platforms. Assigned offices and workstations are eliminated; instead, up to 15 different types of workspaces are offered based on carefully calculated employee usage patterns. In these new spaces, we have reduced our space footprint significantly while offering greater functionality and flexibility. This has resulted in lower energy use and greenhouse gas emissions. Also in 2017, our fleet count decreased due to a reduction in the number of owned vehicles associated with client-managed accounts. We also saw a decrease in average per-vehicle miles in our EMEA region. These factors led to our Scope 1 emissions reduction.

Decreased

28

Location-based

80000

full time equivalent (FTE) employee

71067

0.89

#### Metric numerator (Gross global combined Scope 1 and 2 emissions)

While CBRE's employee headcount increased from 2016 to 2017, both Scope 1 and Scope 2 emissions decreased. Scope 2 reductions were primarily achieved through space attrition and efficiencies gained through our Workplace360 initiative. Each Workplace360 office is a "free address" environment, supported by leading-edge technology tools and platforms. Assigned offices and workstations are eliminated; instead, up to 15 different types of workspaces are offered based on carefully calculated employee usage patterns. In these new spaces, we have reduced our space footprint significantly while offering greater functionality and flexibility. This has resulted in lower energy use and greenhouse gas emissions. Also in 2017, our fleet count decreased due to a reduction in the number of owned vehicles associated with client-managed accounts. We also saw a decrease in average per-vehicle miles in our EMEA region. These factors led to our Scope 1 emissions reduction.

Decreased

28

Location-based

80000

full time equivalent (FTE) employee

71067

#### Metric denominator

While CBRE's employee headcount increased from 2016 to 2017, both Scope 1 and Scope 2 emissions decreased. Scope 2 reductions were primarily achieved through space attrition and efficiencies gained through our Workplace360 initiative. Each Workplace360 office is a "free address" environment, supported by leading-edge technology tools and platforms. Assigned offices and workstations are eliminated; instead, up to 15 different types of workspaces are offered based on carefully calculated employee usage patterns. In these new spaces, we have reduced our space footprint significantly while offering greater functionality and flexibility. This has resulted in lower energy use and greenhouse gas emissions. Also in 2017, our fleet count decreased due to a reduction in the number of owned vehicles associated with client-managed accounts. We also saw a decrease in average per-vehicle miles in our EMEA region. These factors led to our Scope 1 emissions reduction.

Decreased

28

Location-based

80000

full time equivalent (FTE) employee

#### Metric denominator: Unit total

While CBRE's employee headcount increased from 2016 to 2017, both Scope 1 and Scope 2 emissions decreased. Scope 2 reductions were primarily achieved through space attrition and efficiencies gained through our Workplace360 initiative. Each Workplace360 office is a "free address" environment, supported by leading-edge technology tools and platforms. Assigned offices and workstations are eliminated; instead, up to 15 different types of workspaces are offered based on carefully calculated employee usage patterns. In these new spaces, we have reduced our space footprint significantly while offering greater functionality and flexibility. This has resulted in lower energy use and greenhouse gas emissions. Also in 2017, our fleet count decreased due to a reduction in the number of owned vehicles associated with client-managed accounts. We also saw a decrease in average per-vehicle miles in our EMEA region. These factors led to our Scope 1 emissions reduction.

Decreased

28

Location-based

80000

#### Scope 2 figure used

While CBRE's employee headcount increased from 2016 to 2017, both Scope 1 and Scope 2 emissions decreased. Scope 2 reductions were primarily achieved through space attrition and efficiencies gained through our Workplace360 initiative. Each Workplace360 office is a "free address" environment, supported by leading-edge technology tools and platforms. Assigned offices and workstations are eliminated; instead, up to 15 different types of workspaces are offered based on carefully calculated employee usage patterns. In these new spaces, we have reduced our space footprint significantly while offering greater functionality and flexibility. This has resulted in

lower energy use and greenhouse gas emissions. Also in 2017, our fleet count decreased due to a reduction in the number of owned vehicles associated with client-managed accounts. We also saw a decrease in average per-vehicle miles in our EMEA region. These factors led to our Scope 1 emissions reduction.

Decreased

28

Location-based

**% change from previous year**

While CBRE's employee headcount increased from 2016 to 2017, both Scope 1 and Scope 2 emissions decreased. Scope 2 reductions were primarily achieved through space attrition and efficiencies gained through our Workplace360 initiative. Each Workplace360 office is a "free address" environment, supported by leading-edge technology tools and platforms. Assigned offices and workstations are eliminated; instead, up to 15 different types of workspaces are offered based on carefully calculated employee usage patterns. In these new spaces, we have reduced our space footprint significantly while offering greater functionality and flexibility. This has resulted in lower energy use and greenhouse gas emissions. Also in 2017, our fleet count decreased due to a reduction in the number of owned vehicles associated with client-managed accounts. We also saw a decrease in average per-vehicle miles in our EMEA region. These factors led to our Scope 1 emissions reduction.

Decreased

28

**Direction of change**

While CBRE's employee headcount increased from 2016 to 2017, both Scope 1 and Scope 2 emissions decreased. Scope 2 reductions were primarily achieved through space attrition and efficiencies gained through our Workplace360 initiative. Each Workplace360 office is a "free address" environment, supported by leading-edge technology tools and platforms. Assigned offices and workstations are eliminated; instead, up to 15 different types of workspaces are offered based on carefully calculated employee usage patterns. In these new spaces, we have reduced our space footprint significantly while offering greater functionality and flexibility. This has resulted in lower energy use and greenhouse gas emissions. Also in 2017, our fleet count decreased due to a reduction in the number of owned vehicles associated with client-managed accounts. We also saw a decrease in average per-vehicle miles in our EMEA region. These factors led to our Scope 1 emissions reduction.

Decreased

**Reason for change**

While CBRE's employee headcount increased from 2016 to 2017, both Scope 1 and Scope 2 emissions decreased. Scope 2 reductions were primarily achieved through space attrition and efficiencies gained through our Workplace360 initiative. Each Workplace360 office is a "free address" environment, supported by leading-edge technology tools and platforms. Assigned offices and workstations are eliminated; instead, up to 15 different types of workspaces are offered based on carefully calculated employee usage patterns. In these new spaces, we have reduced our space footprint significantly while offering greater functionality and flexibility. This has resulted in lower energy use and greenhouse gas emissions. Also in 2017, our fleet count decreased due to a reduction in the number of owned vehicles associated with client-managed accounts. We also saw a decrease in average per-vehicle miles in our EMEA region. These factors led to our Scope 1 emissions reduction.

**C7. Emissions breakdowns**

**C7.1**

**(C7.1) Does your organization have greenhouse gas emissions other than carbon dioxide?**

Yes

**C7.1a**

**(C7.1a) Break down your total gross global Scope 1 emissions by greenhouse gas type and provide the source of each used greenhouse warming potential (GWP).**

Greenhouse gas	Scope 1 emissions (metric tons of CO2e)	GWP Reference
CO2	45810	IPCC Fourth Assessment Report (AR4 - 100 year)
CH4	37	IPCC Fourth Assessment Report (AR4 - 100 year)
N2O	210	IPCC Fourth Assessment Report (AR4 - 100 year)

**C7.2**

**(C7.2) Break down your total gross global Scope 1 emissions by country/region.**

Country/Region	Scope 1 emissions (metric tons CO2e)
Americas	30362
Asia Pacific (or JAPA)	151
Europe, Middle East and Africa (EMEA)	15544

**C7.3**

**(C7.3) Indicate which gross global Scope 1 emissions breakdowns you are able to provide.**

Please select

## C7.5

### (C7.5) Break down your total gross global Scope 2 emissions by country/region.

Country/Region	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)	Purchased and consumed electricity, heat, steam or cooling (MWh)	Purchased and consumed low-carbon electricity, heat, steam or cooling accounted in market-based approach (MWh)
Americas	10382		32551	
Europe, Middle East and Africa (EMEA)	6912		21381	
Asia Pacific (or JAPA)	7716		13986	

## C7.6

### (C7.6) Indicate which gross global Scope 2 emissions breakdowns you are able to provide.

Please select

## C7.9

### (C7.9) How do your gross global emissions (Scope 1 and 2 combined) for the reporting year compare to those of the previous reporting year?

Decreased

## C7.9a

### (C7.9a) Identify the reasons for any change in your gross global emissions (Scope 1 and 2 combined) and for each of them specify how your emissions compare to the previous year.

	Change in emissions (metric tons CO2e)	Direction of change	Emissions value (percentage)	Please explain calculation
Change in renewable energy consumption		<Not Applicable >		
Other emissions reduction activities	4668	Decreased	5	These reductions were primarily achieved through space attrition and efficiencies gained through our Workplace360 initiative. Each Workplace360 office is a "free address" environment, supported by leading-edge technology tools and platforms. Assigned offices and workstations are eliminated; instead, up to 15 different types of workspaces are offered based on carefully calculated employee usage patterns. In these new spaces, we have reduced our footprint significantly – avoiding more than 320,000 square feet globally since the program was launched in 2013 – while offering greater functionality and flexibility. This has resulted in lower energy use and carbon emissions. Last year 4668 tons of CO2e were reduced through this initiative, and our total Scope 1 and Scope 2 emissions in the previous year was 93092 tCO2e, therefore we arrived at -5% through $(-4668/93092) * 100 = -5\%$ (i.e. a 5% decrease in emissions).
Divestment		<Not Applicable >		
Acquisitions		<Not Applicable >		
Mergers		<Not Applicable >		
Change in output	17357	Decreased	19	In 2017, our fleet count decreased due to a reduction in the number of owned vehicles associated with client-managed accounts. We also saw a decrease in average per-vehicle miles in our EMEA region. Last year 17357 tons of CO2e were reduced as a result, and our total Scope 1 and Scope 2 emissions in the previous year was 93092 tCO2e, therefore we arrived at -19% through $(-17357/93092) * 100 = -19\%$ (i.e. a 19% decrease in emissions).
Change in methodology		<Not Applicable >		
Change in boundary		<Not Applicable >		
Change in physical operating conditions		<Not Applicable >		
Unidentified		<Not Applicable >		
Other		<Not Applicable >		

## C7.9b

**(C7.9b) Are your emissions performance calculations in C7.9 and C7.9a based on a location-based Scope 2 emissions figure or a market-based Scope 2 emissions figure?**

Location-based

## C8. Energy

### C8.1

**(C8.1) What percentage of your total operational spend in the reporting year was on energy?**

More than 0% but less than or equal to 5%

### C8.2

**(C8.2) Select which energy-related activities your organization has undertaken.**

	Indicate whether your organization undertakes this energy-related activity
Consumption of fuel (excluding feedstocks)	Yes
Consumption of purchased or acquired electricity	Yes
Consumption of purchased or acquired heat	Yes
Consumption of purchased or acquired steam	No
Consumption of purchased or acquired cooling	No
Generation of electricity, heat, steam, or cooling	No

### C8.2a

**(C8.2a) Report your organization's energy consumption totals (excluding feedstocks) in MWh.**

	Heating value	MWh from renewable sources	MWh from non-renewable sources	Total MWh
Consumption of fuel (excluding feedstock)	LHV (lower heating value)	0	190502	190502
Consumption of purchased or acquired electricity	<Not Applicable>	0	49685	49685
Consumption of purchased or acquired heat	<Not Applicable>	0	18233	18233
Consumption of purchased or acquired steam	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Consumption of purchased or acquired cooling	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Consumption of self-generated non-fuel renewable energy	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Total energy consumption	<Not Applicable>	0	258420	258420

### C8.2b

**(C8.2b) Select the applications of your organization's consumption of fuel.**

	Indicate whether your organization undertakes this fuel application
Consumption of fuel for the generation of electricity	No
Consumption of fuel for the generation of steam	No
Consumption of fuel for the generation of cooling	No
Consumption of fuel for co-generation or tri-generation	No

### C8.2c

**(C8.2c) State how much fuel in MWh your organization has consumed (excluding feedstocks) by fuel type.**

**Fuels (excluding feedstocks)**

<Not Applicable>

<Not Applicable>

<Not Applicable>

<Not Applicable>

<Not Applicable>

131335

LHV (lower heating value)

Motor Gasoline

**Heating value**

<Not Applicable>

<Not Applicable>  
<Not Applicable>  
<Not Applicable>  
<Not Applicable>  
131335  
LHV (lower heating value)

**Total fuel MWh consumed by the organization**

<Not Applicable>  
<Not Applicable>  
<Not Applicable>  
<Not Applicable>  
<Not Applicable>  
131335

**MWh fuel consumed for the self-generation of electricity**

<Not Applicable>  
<Not Applicable>  
<Not Applicable>  
<Not Applicable>  
<Not Applicable>

**MWh fuel consumed for self-generation of heat**

<Not Applicable>  
<Not Applicable>  
<Not Applicable>  
<Not Applicable>

**MWh fuel consumed for self-generation of steam**

<Not Applicable>  
<Not Applicable>  
<Not Applicable>

**MWh fuel consumed for self-generation of cooling**

<Not Applicable>  
<Not Applicable>

**MWh fuel consumed for self- cogeneration or self-trigeneration**

<Not Applicable>

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**Fuels (excluding feedstocks)**

<Not Applicable>  
<Not Applicable>  
<Not Applicable>  
<Not Applicable>  
<Not Applicable>  
2959  
LHV (lower heating value)  
Fuel Oil Number 2

**Heating value**

<Not Applicable>  
<Not Applicable>  
<Not Applicable>  
<Not Applicable>  
<Not Applicable>  
2959  
LHV (lower heating value)

**Total fuel MWh consumed by the organization**

<Not Applicable>  
<Not Applicable>  
<Not Applicable>  
<Not Applicable>  
<Not Applicable>  
2959

**MWh fuel consumed for the self-generation of electricity**

<Not Applicable>  
<Not Applicable>  
<Not Applicable>  
<Not Applicable>  
<Not Applicable>

**MWh fuel consumed for self-generation of heat**

<Not Applicable>  
<Not Applicable>  
<Not Applicable>  
<Not Applicable>

**MWh fuel consumed for self-generation of steam**

<Not Applicable>  
<Not Applicable>  
<Not Applicable>

**MWh fuel consumed for self-generation of cooling**

<Not Applicable>

<Not Applicable>

**MWh fuel consumed for self- cogeneration or self-trigeneration**

<Not Applicable>

---

**Fuels (excluding feedstocks)**

<Not Applicable>

<Not Applicable>

<Not Applicable>

<Not Applicable>

<Not Applicable>

56208

LHV (lower heating value)

Diesel

**Heating value**

<Not Applicable>

<Not Applicable>

<Not Applicable>

<Not Applicable>

<Not Applicable>

56208

LHV (lower heating value)

**Total fuel MWh consumed by the organization**

<Not Applicable>

<Not Applicable>

<Not Applicable>

<Not Applicable>

<Not Applicable>

56208

**MWh fuel consumed for the self-generation of electricity**

<Not Applicable>

<Not Applicable>

<Not Applicable>

<Not Applicable>

<Not Applicable>

**MWh fuel consumed for self-generation of heat**

<Not Applicable>

<Not Applicable>

<Not Applicable>

<Not Applicable>

**MWh fuel consumed for self-generation of steam**

<Not Applicable>

<Not Applicable>

<Not Applicable>

**MWh fuel consumed for self-generation of cooling**

<Not Applicable>

<Not Applicable>

**MWh fuel consumed for self- cogeneration or self-trigeneration**

<Not Applicable>

---

C8.2d

---

**(C8.2d) List the average emission factors of the fuels reported in C8.2c.**

**Diesel**

**Emission factor**

2.6

**Unit**

kg CO2e per liter

**Emission factor source**

2017 UK Government GHG Conversion Factors v1.0, published July 2017 ([www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2017](http://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2017))

**Comment**

**Fuel Oil Number 2**

**Emission factor**

22.58

**Unit**

lb CO2e per gallon

**Emission factor source**

US EPA GHG Emission Factors for Greenhouse Inventories, November 19th 2015, v2 (Table 1) [[http://www.epa.gov/sites/production/files/2015-12/documents/emission-factors\\_nov\\_2015.pdf](http://www.epa.gov/sites/production/files/2015-12/documents/emission-factors_nov_2015.pdf)] using IPCC AR4 100-year GWP Factors

**Comment**

**Motor Gasoline**

**Emission factor**

19.43

**Unit**

lb CO2e per gallon

**Emission factor source**

US EPA GHG Emission Factors for Greenhouse Inventories, November 19th 2015, v2 (Table 1) [[http://www.epa.gov/sites/production/files/2015-12/documents/emission-factors\\_nov\\_2015.pdf](http://www.epa.gov/sites/production/files/2015-12/documents/emission-factors_nov_2015.pdf)] using IPCC AR4 100-year GWP Factors

**Comment**

**C8.2f**

---

**(C8.2f) Provide details on the electricity, heat, steam and/or cooling amounts that were accounted for at a low-carbon emission factor in the market-based Scope 2 figure reported in C6.3.**

**Basis for applying a low-carbon emission factor**

<Not Applicable>

<Not Applicable>

<Not Applicable>

No purchases or generation of low-carbon electricity, heat, steam or cooling accounted with a low-carbon emission factor

**Low-carbon technology type**

<Not Applicable>

<Not Applicable>

<Not Applicable>

**MWh consumed associated with low-carbon electricity, heat, steam or cooling**

<Not Applicable>

<Not Applicable>

**Emission factor (in units of metric tons CO2e per MWh)**

<Not Applicable>

**Comment**

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**C9. Additional metrics**

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**C9.1**

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**(C9.1) Provide any additional climate-related metrics relevant to your business.**

**C10. Verification**

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C10.1

(C10.1) Indicate the verification/assurance status that applies to your reported emissions.

	Verification/assurance status
Scope 1	Third-party verification or assurance process in place
Scope 2 (location-based or market-based)	Third-party verification or assurance process in place
Scope 3	Third-party verification or assurance process in place

C10.1a

(C10.1a) Provide further details of the verification/assurance undertaken for your Scope 1 and/or Scope 2 emissions and attach the relevant statements.

**Scope**

100  
ISO14064-3  
Pages 1-2  
CBRE 2017 GHG Verification Statement\_FINAL.pdf  
Limited assurance  
Complete  
Annual process  
Scope 1

**Verification or assurance cycle in place**

100  
ISO14064-3  
Pages 1-2  
CBRE 2017 GHG Verification Statement\_FINAL.pdf  
Limited assurance  
Complete  
Annual process

**Status in the current reporting year**

100  
ISO14064-3  
Pages 1-2  
CBRE 2017 GHG Verification Statement\_FINAL.pdf  
Limited assurance  
Complete

**Type of verification or assurance**

100  
ISO14064-3  
Pages 1-2  
CBRE 2017 GHG Verification Statement\_FINAL.pdf  
Limited assurance

**Attach the statement**

100  
ISO14064-3  
Pages 1-2  
CBRE 2017 GHG Verification Statement\_FINAL.pdf

**Page/ section reference**

100  
ISO14064-3  
Pages 1-2

**Relevant standard**

100  
ISO14064-3

**Proportion of reported emissions verified (%)**

100

**Scope**

100  
ISO14064-3  
Pages 1-2  
CBRE 2017 GHG Verification Statement\_FINAL.pdf  
Limited assurance  
Complete  
Annual process  
Scope 2 location-based

**Verification or assurance cycle in place**

100  
ISO14064-3  
Pages 1-2

CBRE 2017 GHG Verification Statement\_FINAL.pdf  
Limited assurance  
Complete  
Annual process

**Status in the current reporting year**

100  
ISO14064-3  
Pages 1-2  
CBRE 2017 GHG Verification Statement\_FINAL.pdf  
Limited assurance  
Complete

**Type of verification or assurance**

100  
ISO14064-3  
Pages 1-2  
CBRE 2017 GHG Verification Statement\_FINAL.pdf  
Limited assurance

**Attach the statement**

100  
ISO14064-3  
Pages 1-2  
CBRE 2017 GHG Verification Statement\_FINAL.pdf

**Page/ section reference**

100  
ISO14064-3  
Pages 1-2

**Relevant standard**

100  
ISO14064-3

**Proportion of reported emissions verified (%)**

100

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## C10.1b

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**(C10.1b) Provide further details of the verification/assurance undertaken for your Scope 3 emissions and attach the relevant statements.**

**Scope**

ISO14064-3  
Pages 1-2  
CBRE 2017 GHG Verification Statement\_FINAL.pdf  
Complete  
Annual process  
Scope 3- at least one applicable category

**Verification or assurance cycle in place**

ISO14064-3  
Pages 1-2  
CBRE 2017 GHG Verification Statement\_FINAL.pdf  
Complete  
Annual process

**Status in the current reporting year**

ISO14064-3  
Pages 1-2  
CBRE 2017 GHG Verification Statement\_FINAL.pdf  
Complete

**Attach the statement**

ISO14064-3  
Pages 1-2  
CBRE 2017 GHG Verification Statement\_FINAL.pdf

**Page/section reference**

ISO14064-3  
Pages 1-2

**Relevant standard**

ISO14064-3

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## C10.2

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**(C10.2) Do you verify any climate-related information reported in your CDP disclosure other than the emissions figures reported in C6.1, C6.3, and C6.5?**

No, we do not verify any other climate-related information reported in our CDP disclosure

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## C11. Carbon pricing

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### C11.1

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**(C11.1) Are any of your operations or activities regulated by a carbon pricing system (i.e. ETS, Cap & Trade or Carbon Tax)?**

No, and we do not anticipate being regulated in the next three years

### C11.2

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**(C11.2) Has your organization originated or purchased any project-based carbon credits within the reporting period?**

No

### C11.3

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**(C11.3) Does your organization use an internal price on carbon?**

No, and we do not currently anticipate doing so in the next two years

## C12. Engagement

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### C12.1

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**(C12.1) Do you engage with your value chain on climate-related issues?**

Yes, our customers

### C12.1b

---

**(C12.1b) Give details of your climate-related engagement strategy with your customers.**

#### Type of engagement

During 2017, CBRE registered and benchmarked a record-breaking 6,197 buildings, representing more than 370.7 million square feet, in the U.S. Department of Energy's ENERGY STAR program. CBRE's 349 labeled buildings under management represent 3.5% of all 9,904 U.S. office buildings labeled in ENERGY STAR. We manage another 907 properties with a score of 75 or above that are either currently in the ENERGY STAR application process or are eligible to apply. In 2017, we made a significant improvement in energy efficiency with our core office portfolio, totaling 1,707 buildings. This portfolio has an average ENERGY STAR score of 80.3 and achieved an average reduction in site energy use of 16.2% compared to prior year.

Our Global Energy and Sustainability team provides comprehensive energy and sustainability services to our clients, focusing on fact-based outcomes that lessen environmental impact – generating both immediate results and long-term financial benefits through key integrated strategies. Our team includes more than 220 energy and sustainability experts and experienced professionals. Services provided include data management, smart buildings systems integration, energy consulting, energy procurement solutions, certification services and sustainability consulting. In 2017, globally, 6,788 buildings under management totaling 1.895 billion square feet were provided with energy and sustainability services. This equates to approximate 34% of buildings under management, which is the number that we used for the size of our engagement.

0

34

Share information about your products and relevant certification schemes (i.e. Energy STAR)

Education/information sharing

#### Details of engagement

During 2017, CBRE registered and benchmarked a record-breaking 6,197 buildings, representing more than 370.7 million square feet, in the U.S. Department of Energy's ENERGY STAR program. CBRE's 349 labeled buildings under management represent 3.5% of all 9,904 U.S. office buildings labeled in ENERGY STAR. We manage another 907 properties with a score of 75 or above that are either currently in the ENERGY STAR application process or are eligible to apply. In 2017, we made a significant improvement in energy efficiency with our core office portfolio, totaling 1,707 buildings. This portfolio has an average ENERGY STAR score of 80.3 and achieved an average reduction in site energy use of 16.2% compared to prior year.

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0

34

Share information about your products and relevant certification schemes (i.e. Energy STAR)

#### Size of engagement

During 2017, CBRE registered and benchmarked a record-breaking 6,197 buildings, representing more than 370.7 million square feet, in the U.S. Department of Energy's ENERGY STAR program. CBRE's 349 labeled buildings under management represent 3.5% of all 9,904 U.S. office buildings labeled in ENERGY STAR. We manage

another 907 properties with a score of 75 or above that are either currently in the ENERGY STAR application process or are eligible to apply. In 2017, we made a significant improvement in energy efficiency with our core office portfolio, totaling 1,707 buildings. This portfolio has an average ENERGY STAR score of 80.3 and achieved an average reduction in site energy use of 16.2% compared to prior year.

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0  
34

#### **% Scope 3 emissions as reported in C6.5**

During 2017, CBRE registered and benchmarked a record-breaking 6,197 buildings, representing more than 370.7 million square feet, in the U.S. Department of Energy's ENERGY STAR program. CBRE's 349 labeled buildings under management represent 3.5% of all 9,904 U.S. office buildings labeled in ENERGY STAR. We manage another 907 properties with a score of 75 or above that are either currently in the ENERGY STAR application process or are eligible to apply. In 2017, we made a significant improvement in energy efficiency with our core office portfolio, totaling 1,707 buildings. This portfolio has an average ENERGY STAR score of 80.3 and achieved an average reduction in site energy use of 16.2% compared to prior year.

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0

#### **Please explain the rationale for selecting this group of customers and scope of engagement**

During 2017, CBRE registered and benchmarked a record-breaking 6,197 buildings, representing more than 370.7 million square feet, in the U.S. Department of Energy's ENERGY STAR program. CBRE's 349 labeled buildings under management represent 3.5% of all 9,904 U.S. office buildings labeled in ENERGY STAR. We manage another 907 properties with a score of 75 or above that are either currently in the ENERGY STAR application process or are eligible to apply. In 2017, we made a significant improvement in energy efficiency with our core office portfolio, totaling 1,707 buildings. This portfolio has an average ENERGY STAR score of 80.3 and achieved an average reduction in site energy use of 16.2% compared to prior year.

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#### **Impact of engagement, including measures of success**

During 2017, CBRE registered and benchmarked a record-breaking 6,197 buildings, representing more than 370.7 million square feet, in the U.S. Department of Energy's ENERGY STAR program. CBRE's 349 labeled buildings under management represent 3.5% of all 9,904 U.S. office buildings labeled in ENERGY STAR. We manage another 907 properties with a score of 75 or above that are either currently in the ENERGY STAR application process or are eligible to apply. In 2017, we made a significant improvement in energy efficiency with our core office portfolio, totaling 1,707 buildings. This portfolio has an average ENERGY STAR score of 80.3 and achieved an average reduction in site energy use of 16.2% compared to prior year.

---

### C12.3

#### **(C12.3) Do you engage in activities that could either directly or indirectly influence public policy on climate-related issues through any of the following?**

Trade associations  
Other

---

### C12.3b

#### **(C12.3b) Are you on the board of any trade associations or do you provide funding beyond membership?**

Yes

---

### C12.3c

**(C12.3c) Enter the details of those trade associations that are likely to take a position on climate change legislation.**

**Trade association**

We support and promote BOMA's position on voluntary and incentive-based programs for reducing GHGs through our client services and messaging. However, we have also actively advocated for BOMA to take a different position on building energy disclosure.

BOMA supports voluntary and incentive-based programs for reducing greenhouse gas emissions, and believes that buildings should accrue credits or offsets in a regulatory cap and trade program. BOMA opposes cap and trade policy options that do not reinvest funds raised into energy efficiency and would increase costs to businesses without reinvesting to effectively accomplish its environmental objective. However, CBRE generally supports regulatory requirements for building energy disclosure, which BOMA consistently opposes.

Mixed

Building Owners and Managers Association (BOMA)

**Is your position on climate change consistent with theirs?**

We support and promote BOMA's position on voluntary and incentive-based programs for reducing GHGs through our client services and messaging. However, we have also actively advocated for BOMA to take a different position on building energy disclosure.

BOMA supports voluntary and incentive-based programs for reducing greenhouse gas emissions, and believes that buildings should accrue credits or offsets in a regulatory cap and trade program. BOMA opposes cap and trade policy options that do not reinvest funds raised into energy efficiency and would increase costs to businesses without reinvesting to effectively accomplish its environmental objective. However, CBRE generally supports regulatory requirements for building energy disclosure, which BOMA consistently opposes.

Mixed

**Please explain the trade association's position**

We support and promote BOMA's position on voluntary and incentive-based programs for reducing GHGs through our client services and messaging. However, we have also actively advocated for BOMA to take a different position on building energy disclosure.

BOMA supports voluntary and incentive-based programs for reducing greenhouse gas emissions, and believes that buildings should accrue credits or offsets in a regulatory cap and trade program. BOMA opposes cap and trade policy options that do not reinvest funds raised into energy efficiency and would increase costs to businesses without reinvesting to effectively accomplish its environmental objective. However, CBRE generally supports regulatory requirements for building energy disclosure, which BOMA consistently opposes.

**How have you, or are you attempting to, influence the position?**

We support and promote BOMA's position on voluntary and incentive-based programs for reducing GHGs through our client services and messaging. However, we have also actively advocated for BOMA to take a different position on building energy disclosure.

---

**Trade association**

We support and promote USGBC's position through our client services and messaging.

The majority of efforts to address climate change through green buildings are focused on reducing greenhouse gas emissions reflected in the USGBC Leadership in Energy and Environmental Design (LEED) rating system, which allocates points for reducing GHG emissions associated with building systems, transportation, water, waste and construction materials.

Consistent

US Green Building Council (USGBC)

**Is your position on climate change consistent with theirs?**

We support and promote USGBC's position through our client services and messaging.

The majority of efforts to address climate change through green buildings are focused on reducing greenhouse gas emissions reflected in the USGBC Leadership in Energy and Environmental Design (LEED) rating system, which allocates points for reducing GHG emissions associated with building systems, transportation, water, waste and construction materials.

Consistent

**Please explain the trade association's position**

We support and promote USGBC's position through our client services and messaging.

The majority of efforts to address climate change through green buildings are focused on reducing greenhouse gas emissions reflected in the USGBC Leadership in Energy and Environmental Design (LEED) rating system, which allocates points for reducing GHG emissions associated with building systems, transportation, water, waste and construction materials.

**How have you, or are you attempting to, influence the position?**

We support and promote USGBC's position through our client services and messaging.

---

**C12.3e**

**(C12.3e) Provide details of the other engagement activities that you undertake.**

We are involved with a number of organizations that could either directly or indirectly influence public policy on climate change. These include:

\* We are a member of the Center for Climate and Energy Solutions' (C2ES) Business Environmental Leadership Council (BELC). BELC engages businesses in developing efficient, effective solutions to the climate problem.

\* We are a member of the Global Real Estate Sustainability Benchmark (GRESB), an industry-driven organization committed to assessing the ESG performance of real assets globally, including real estate portfolios and infrastructure assets. Additionally, Francijn de Ruijter of CBRE Global Investors sits on the GRESB Real Estate Advisory Board, Jessica Feng of CBRE and Yilan Koh of CBRE Global Investors sit on the GRESB Asia Benchmark Committee, Dave Pogue of CBRE sits on the GRESB American Benchmark Committee, and Emma McMahon of CBRE sit on the GRESB Australian Benchmark Committee.

\* We have been involved with the Sustainability Accounting Standards Board (SASB), which sets industry-specific standards for corporate sustainability disclosure, with a view towards ensuring that disclosure is material, comparable, and decision-useful for investors. CBRE joined as a member of the SASB Alliance in 2017. Laura Tyson, a member of the CBRE Board of Directors, sits on the SASB Foundation Board of Directors. Additionally, CBRE has provided feedback to SASB on many occasions. The nature of our engagement with these organizations has also included thought leadership and advisory on climate strategies in commercial real estate, speaking engagements and sponsorships.

---

**C12.3f**

**(C12.3f) What processes do you have in place to ensure that all of your direct and indirect activities that influence policy are consistent with your overall climate change strategy?**

We recognize that our leadership in the commercial real estate industry requires that we have a voice in how the commercial environment is built, sourced, traded and managed. All climate change strategy and activities are managed through the corporate responsibility team, ensuring consistency in all aspects of our engagement with internal and external stakeholders.

**C12.4**

**(C12.4) Have you published information about your organization's response to climate change and GHG emissions performance for this reporting year in places other than in your CDP response? If so, please attach the publication(s).**

**Publication**

Emissions figures  
Emission targets  
CBRE\_2017\_CR\_Report.pdf  
Complete  
In voluntary sustainability report

**Status**

Emissions figures  
Emission targets  
CBRE\_2017\_CR\_Report.pdf  
Complete

**Attach the document**

Emissions figures  
Emission targets  
CBRE\_2017\_CR\_Report.pdf

**Content elements**

Emissions figures  
Emission targets

**C14. Signoff**

**C-FI**

**(C-FI) Use this field to provide any additional information or context that you feel is relevant to your organization's response. Please note that this field is optional and is not scored.**

**C14.1**

**(C14.1) Provide details for the person that has signed off (approved) your CDP climate change response.**

	Job title	Corresponding job category
Row 1	Director of Corporate Responsibility	Environment/Sustainability manager

**SC. Supply chain module**

**SC0.0**

**(SC0.0) If you would like to do so, please provide a separate introduction to this module.**

**SC0.1**

**(SC0.1) What is your company's annual revenue for the stated reporting period?**

	Annual Revenue
Row 1	14209608000

SC0.2

---

**(SC0.2) Do you have an ISIN for your company that you would be willing to share with CDP?**

Yes

SC0.2a

---

**(SC0.2a) Please use the table below to share your ISIN.**

	ISIN country code (2 letters)	ISIN numeric identifier and single check digit (10 numbers overall)
Row 1	US	12504L1098

SC1.1

---

**(SC1.1) Allocate your emissions to your customers listed below according to the goods or services you have sold them in this reporting period.**

SC1.2

---

**(SC1.2) Where published information has been used in completing SC1.1, please provide a reference(s).**

SC1.3

---

**(SC1.3) What are the challenges in allocating emissions to different customers, and what would help you to overcome these challenges?**

Allocation challenges	Please explain what would help you overcome these challenges
Customer base is too large and diverse to accurately track emissions to the customer level	

SC1.4

---

**(SC1.4) Do you plan to develop your capabilities to allocate emissions to your customers in the future?**

No

SC1.4b

---

**(SC1.4b) Explain why you do not plan to develop capabilities to allocate emissions to your customers.**

We are a B2B services firm and do not manufacture products. It does not make sense to allocate our emissions to our clients.

SC2.1

---

**(SC2.1) Please propose any mutually beneficial climate-related projects you could collaborate on with specific CDP Supply Chain members.**

SC2.2

---

**(SC2.2) Have requests or initiatives by CDP Supply Chain members prompted your organization to take organizational-level emissions reduction initiatives?**

No

SC3.1

---

**(SC3.1) Do you want to enroll in the 2018-2019 CDP Action Exchange initiative?**

No

SC3.2

---

---

(SC3.2) Is your company a participating supplier in CDP's 2017-2018 Action Exchange initiative?

No

SC4.1

---

(SC4.1) Are you providing product level data for your organization's goods or services, if so, what functionality will you be using?

No, I am not providing data

SC4.2d

---

(SC4.2d) Have any of the initiatives described in SC4.2c been driven by requesting CDP Supply Chain members?

No

Submit your response

---

In which language are you submitting your response?

English

Please confirm how your response should be handled by CDP

	Public or Non-Public Submission	I am submitting to	Are you ready to submit the additional Supply Chain Questions?
I am submitting my response	Public	Investors Customers	Yes, submit Supply Chain Questions now

Please confirm below

I have read and accept the applicable Terms