Broadridge Financial Solutions Inc - Climate Change 2019

C0. Introduction

C0.1

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

Broadridge is a leading full-service outsourcing provider to the global financial industry, capable of meeting the most demanding requirements for efficient, secure and scalable operational support. Our reach spans the world, and encompasses an extensive array of services - from account opening and securities transaction processing to correspondent clearing to document management and investor communications as well as full operational staff outsourcing. A steadfast source of processing support, we help financial services institutions and public companies increase productivity, streamline operations, enter new markets with new products more quickly, drive down back-office costs, and better manage risk. Our technologically advanced investor communication solutions include: proxy distribution, voting, and tabulation; mutual fund proxy solicitation; electronic delivery; complete document management, from workflow to delivery and archival solutions; highly personalized, on-demand printed 401(k) kits, and other marketing communications; transaction reporting – confirmations, statements, and tax documents to year-end tax information processing. In 2008, Broadridge began participating in the CDP Response and has worked each year thereafter to improve upon both the comprehensiveness and accuracy of our response, as well as to further document the results of our performance over time with regard to our corporate-wide greenhouse gas (GHG) emissions. In FY2011 (July 2010 to June 2011), Broadridge initiated its most aggressive internal awareness campaign with the overarching goal of reducing our total GHG emissions. Those initial 2011 efforts included our first external verification exercise, to ensure that we are accurately reporting our GHG emissions in accordance with acceptable practices. In FY2013, Broadridge was impacted by Hurricane Sandy which struck the east coast of the United States of America on 28 October. This impact included disruption to the business activities of our New York corporate headquarters and our offices in Jersey City, New Jersey. In addition, hundreds of our employees saw a personal impact with the loss of property and worse. In part due to the destructive impacts of Hurricane Sandy, the commitment we have to GHG emissions reduction took on greater focus. 2014 was a year in which significant capital investments were made to reduce our energy use, resulting in a reduction of electricity usage at some of the largest facilities in our organization. This is a direct result of our commitment to GHG emissions reduction, and our desire to be a leader in our industry. In our FY2015, we once again focused our efforts on the accuracy of our response, the integrity of our data, and a goal for Scope 1 + Scope 2 emissions reduction, on both an absolute- and intensity-based level, and established goals for GHG emissions reduction, which have built upon our previous successes accomplished in 2014. FY2016 also exhibited a continuation of our multi-year program for reducing GHG emissions. This trend in corporate-wide Scope 1 + Scope 2 GHG emissions reductions over the last several years has been illustrative of Broadridge's overriding corporate commitments to energy efficiency, energy use reduction, and reductions in GHG emissions. After completion of FY2016, as part of Broadridge's continuing, aggressive corporate growth strategy, Broadridge completed the acquisition of a major U.S./Canadian printing production operation at the beginning of FY2017. As part of that transaction, we obtained ownership of both a solar energy facility, along with a natural gas-fired cogeneration facility. This represents Broadridge's first capital investment in the renewable energy sector, and, as such, a further continuation of our ongoing commitment to energy use and GHG emissions reductions. In FY2018, Broadridge completed the integration of the acquired facilities and operations, and began the process of achieving associated streamlining and operational efficiency improvements available. In FY2019, as demonstrated by the results of our GHG emissions inventory detailed herein, Broadridge has achieved both of its 2020 Scope 1 + Scope 2 GHG emissions reduction targets: absolute emissions and emissions intensity, one year ahead of schedule (based on a 2013 GHG emissions base year, and 7-year performance period). As such, during our FY2020 GHG emissions management program, Broadridge will evaluate various options for setting a science-based target (SBT), including potentially setting such a SBT for GHG emissions within the next two (2) years.

C0.2

(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	May 1 2018	April 30 2019	No	<Not Applicable>

C0.3

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

Australia
Canada
China, Hong Kong Special Administrative Region
Czechia
Germany
India
Israel
Japan
Poland
Russian Federation
Singapore
United Kingdom of Great Britain and Northern Ireland
United States of America

C0.4

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

USD

C0.5

(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

C1.1

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

No

C1.1c

(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	The primary reason for the lack of direct board-level oversight of climate-related issues is that the initial development of Broadridge's greenhouse gas accounting and reporting program was designated by the ICS CEO to be a part of the Broadridge Corporate Environmental Committee, which is overseen by the COO. Direction and execution of Broadridge's climate change and carbon management program has been under the auspices of the VP of Procurement initially, and now resides with the VP of Facilities and Real Estate.	No, we do not currently plan to do so	

C1.2

(C1.2) Provide the highest management-level 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
Chief Operating Officer (COO)	Other, please specify (Funding/oversight of BR climate program)	Not reported to the board

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 (do not include the names of individuals).

The monitoring of climate-related issues within Broadridge rests with the Broadridge Environmental Committee (BEC). The BEC consists of representatives from various Broadridge locations which can act on behalf of initiatives agreed upon by the BEC. The BEC regularly shares ideas and sets goals for energy reduction across all locations. Members are at various levels within the organization from management and location responsibility, empowered to act on behalf of the initiatives developed by the BEC. Our senior executive sponsor within Broadridge is our COO, Mr. Robert Kalenka. Mr. Kalenka has been part of Broadridge for over 20 years. He reports all environmental activities to the Broadridge CEO and Board of Directors. As part of his commitment to the organization, he ensures that the Committee has at its disposal the resources to ensure the goals are achieved and measurable so results can be shared company-wide. The BEC communicates initiatives globally to Broadridge associates and maintains an active Sharepoint Database where information is shared and disseminated across business unit platforms. Each member of the BEC is considered a champion of the location/division they are representing. In some cases, a champion will develop a specific plan for energy and emissions reduction. This plan is developed in conjunction with the Broadridge Facilities Division, which leads the initiatives on energy management, energy efficiency, and energy use reduction. Based on those efforts, Broadridge has established GHG emissions reduction targets, and now have several years' worth of associated results produced by our efforts. Broadridge's 2019 CDP reporting on our current year results herein, and the achievement of our 2020 GHG emissions reduction targets for Scope 1 + Scope 2 total GHG emissions one (1) year ahead of schedule, further demonstrates our commitment to significant GHG emissions reductions.

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 (do not include the names of individuals).

Who is entitled to benefit from these incentives?
Management group

Types of incentives
Monetary reward

Activity incentivized
Efficiency project

Comment
We recognize our facilities managers across our various US locations for efforts to reduce energy usage and emissions.

Who is entitled to benefit from these incentives?
All employees

Types of incentives
Recognition (non-monetary)

Activity incentivized
Behavior change related indicator

Comment
Employees are recognized for contributions to energy reduction and better environmental practices.

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	>6 years	

C2.2b

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

In mid-2013, Broadridge organized a new department called Corporate Business Continuity Planning Governance (CBCPG). This group is comprised of associates across various departments in the organization that share a dual role of daily responsibilities and participation in the CBCPG. By integrating individuals across our various business units, leaders of this department aggregate all corporate-wide, critical operations which are most vulnerable to climate risks, and assess potential impacts and propose plans for mitigation. In 2014, Broadridge expanded its level of risk assessment to include categories which impact information security. Chief among these risks is the potential exposure of client data and other compromises to our systems. As we view our risk models, we incorporate a strategy of migrating customer communications from physical paper to electronic formats. This enables our ability to reduce exposure via theft in postage delivery platforms, and subsequently drives toward our goal of suppressing as much physical mail which includes paper and transportation methods. At our key facility locations, we utilize our respective Environmental Management Systems to help identify potential risks associated with our continuous operations abilities and potential impacts of events such as climate-driven storms, ever increasing temperature extremes, or other related weather patterns which could potentially disrupt business continuity.

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, not included	All of Broadridge's facilities have very low Scope 1 CO2 emissions, and, as such, are not subject to any current air emissions regulations (GHG, criteria pollutant, or air toxics) at this time, or in the foreseeable future.
Emerging regulation	Relevant, always included	Future potential federal and state regulations in the areas of carbon emissions and energy taxes, energy efficiency standards, renewable energy policy and regulation could all significantly affect Broadridge's energy costs and supply reliability.
Technology	Relevant, not included	The types of technological improvements or innovations, which support the transition to a lower-carbon and energy-efficient economy, relevant to Broadridge's business lines would predominantly be in the areas of high-speed printing and electronic transfer/management of financial and other confidential data and information. Broadridge has made major investments and acquisitions in each of those areas over the last couple decades, helping to establish and maintain our leadership position in this industry segment: as demonstrated by our continued, consistent strong growth in revenues and profits during that time period (as well as commensurate reductions in energy usage and intensity, and GHG emissions: see also Section 4.1 of this disclosure) . As such, for Broadridge's GHG/carbon risk management program and our lines of business, the technology risk area, while relevant and important (over the long-term), does not present potential climate change risks as great as those in the Market, Reputation, and Physical Risks areas.
Legal	Relevant, always included	As the effects of climate change continue to become more severe, we anticipate more stringent carbon-related regulations to be implemented, primarily affecting Broadridge's value chain of suppliers and customers, and indirectly Broadridge as well. Increased compliance costs, reporting requirements, claims and litigation across multiple industries could all combine to have a significant impact on Broadridge.
Market	Relevant, always included	Shifts in supply and demand for certain services and products is a central focus of Broadridge's corporate risk management and strategic planning processes. The demand from consumers and leading corporations/ commercial customers for greater transparency and corporate responsibility, particularly with regard to climate change and sustainability performance, is ever-increasing and expanding across all industries worldwide. It is crucial that Broadridge continues to respond to these market drivers in order to maintain our ongoing financial success.
Reputation	Relevant, always included	With carbon performance being of ever increasing importance to Broadridge's clients and other stakeholders, reputational risk is a key driver for the continued growth and expansion of Broadridge's climate change and carbon management program. Proposal requirements and contract terms and conditions regarding Broadridge's carbon management program performance continue to make this type of risk a priority for the firm.
Acute physical	Relevant, always included	After Superstorm Sandy in 2012 and its impacts on Broadridge's New Jersey and Long Island operations, business continuity planning and disaster recovery have taken on even more importance for Broadridge. The increasing severity and frequency of extreme weather events (floods, hurricanes, and cyclones), particularly in the U.S., makes this type of risk one of ongoing importance, now and for the foreseeable future.
Chronic physical	Relevant, always included	Sea level rise, flooding risks, and sustained higher temperatures and chronic heat waves present increasing risks over time to Broadridge's Long Island, New York City, New Jersey, Texas, California, and India operations.
Upstream	Relevant, always included	As referenced above in part, many of Broadridge's primary climate change risks involve our supply chain's key suppliers. More frequent and severe weather events, chronic heat waves and electric power reliability impacts, disruption of supply shipping/ logistics, etc. all have negative impacts on Broadridge's major suppliers: paper producers, transport/shipping firms, data center hosts, electricity generation/T&D companies. Additionally, any future carbon taxes and/or GHG emissions regulations would impact all of those key Broadridge suppliers, and would increase the costs of their products & services, thus increasing our operating costs.
Downstream	Relevant, always included	In a similar vein to the various upstream impacts described above, some of those same climate change risks apply to the critical element of Broadridge's downstream part of our value chain: our customers. In particular, acute and chronic physical risks, e.g., more frequent and severe weather events, and chronic long-term shifts in climate patterns, have the ability to disrupt the services that we provide to our customers. Cloud based computing and data storage, data center hosts' operations, integral communication systems performance, and electricity transmission are all subject to potential outage from all of the physical climate risks, and could negatively impact Broadridge's ability to serve our customers.

C2.2d

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

In conjunction with Broadridge's annual greenhouse gas emissions inventory development program, and associated public carbon disclosure reporting activities, the climate change and carbon management team updates their assessment of climate-related risks and opportunities. As part of that overall effort, facilities management and procurement personnel are contacted for their inputs to this risk assessment process. Additionally, in conjunction with the Broadridge Environmental Committee, cross-functional teams representing Broadridge's production lines and sales associates provide input to identification of potential mitigation opportunities, as well as communicating those efforts to existing and potential clients. Finally, Broadridge's Corporate Business Continuity Planning Governance group utilizes this information as one of many inputs to their analytical and strategic planning activities for the Company.

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

Risk 1

Where in the value chain does the risk driver occur?

Customer

Risk type

Transition risk

Primary climate-related risk driver

Reputation: Increased stakeholder concern or negative stakeholder feedback

Type of financial impact

Reduced revenue from decreased demand for goods/services

Company- specific description

With ever increasing requirements for climate-related responses, as specified in customer proposal requirements and contract terms and conditions, it is very important that Broadridge continues to maintain and improve our climate change and carbon management program. Corporate strategies for managing climate change impacts, and implementing those strategies successfully as part of a robust sustainability program, are becoming key indicators for customers. Failure to do so and successfully respond to these customer specifications could have a material negative impact on Broadridge's future business growth and success, as Broadridge's revenue growth and profitability are dependent on customer preferences and demands. Changing customer behavior and associated uncertainty in clear market signals adds to the complexity of proactively and successfully assessing and managing this risk.

Time horizon

Short-term

Likelihood

Very likely

Magnitude of impact

Medium-high

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact figure

Not yet quantified

Management method

Continue to further integrate Broadridge's climate change and carbon management program with corporate activities in marketing and sales, facilities/engineering/operations, procurement, and policy functions. Establish corporate officer direct responsibility for the program, with board oversight thereof.

Cost of management
200000

Comment
Annual costs going forward

Identifier
Risk 2

Where in the value chain does the risk driver occur?
Direct operations

Risk type
Physical risk

Primary climate-related risk driver
Acute: Increased severity of extreme weather events such as cyclones and floods

Type of financial impact
Increased capital costs (e.g., damage to facilities)

Company- specific description
Threat of more powerful hurricanes and other severe weather events to major Broadridge facilities and operations in Long Island, New York, and New Jersey, as demonstrated by the significant impacts from Superstorm Sandy in October 2012. In addition to the direct physical risks associated with damage to operating facilities, there are additional financial impacts from reduced revenue associated with decreased production capacity (e.g., transport difficulties, supply chain interruptions, etc.), as well as those due to changes in precipitation patterns and extreme variability in weather patterns (chronic heat waves, interior [non-coastal] river flooding, etc.).

Time horizon
Unknown

Likelihood
Unlikely

Magnitude of impact
High

Are you able to provide a potential financial impact figure?
No, we do not have this figure

Potential financial impact figure (currency)
<Not Applicable>

Potential financial impact figure – minimum (currency)
<Not Applicable>

Potential financial impact figure – maximum (currency)
<Not Applicable>

Explanation of financial impact figure
Incalculable due to the uncertainty of event's magnitude and degree of impact on Broadridge facilities and operations

Management method
Enhanced business continuity planning, disaster recovery systems implementation, and corporate/business units integration and communication to support these efforts.

Cost of management

Comment
Costs not yet assessed

Identifier
Risk 3

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

Risk type

Transition risk

Primary climate-related risk driver
Policy and legal: Mandates on and regulation of existing products and services

Type of financial impact
Other, please specify (Abrupt and unexpected shifts in energy costs)

Company- specific description
Carbon taxes and renewable energy policy/future regulations could result in the increased costs of fossil fuels and renewable energy, as well as the limitation of availability of low cost renewable energy supply options to Broadridge in the future. This would result in significant increases in energy costs and operations costs for Broadridge. Other increased operating costs of key suppliers, due to higher monitoring and compliance costs, under such increased regulatory regimes, would further add to Broadridge's suppliers' costs to us.

Time horizon
Long-term

Likelihood
About as likely as not

Magnitude of impact
Medium

Are you able to provide a potential financial impact figure?
No, we do not have this figure

Potential financial impact figure (currency)
<Not Applicable>

Potential financial impact figure – minimum (currency)
<Not Applicable>

Potential financial impact figure – maximum (currency)
<Not Applicable>

Explanation of financial impact figure
Not yet quantified

Management method
Increase Broadridge's engagement with policy makers and tracking of regulatory/policy developments. Increase Broadridge's monitoring, analysis, and engagement with the electricity and energy suppliers' markets nationwide, with a focus on states/regions where major Broadridge facilities are located, as well as those where renewable energy supply contracts/long-term power purchase agreements are available, and with significant market activity. Continue assessment of opportunities for solar power future installations at major production facilities.

Cost of management
0

Comment
Costs of management included in Risk 1

Identifier
Risk 4

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

Risk type
Physical risk

Primary climate-related risk driver
Acute: Increased severity of extreme weather events such as cyclones and floods

Type of financial impact
Reduced revenue from decreased production capacity (e.g., delayed planning approvals, supply chain interruptions)

Company- specific description
Threat of more powerful hurricanes and other severe weather events to major Broadridge facilities and operations in Long Island, New York, and New Jersey, as demonstrated by the significant impacts from Superstorm Sandy in October 2012. These supply

chain direct physical risks, associated with reduced revenue from decreased production capacity (e.g., transport difficulties, supply chain interruptions, etc.), as well as those due to changes in precipitation patterns and extreme variability in weather patterns (chronic heat waves, interior [non-coastal] river flooding, electrical grid reliability impacts, etc.), are a major focus for Broadridge. All of these physical risks have negative impacts on Broadridge's major suppliers: paper producers, transport/shipping companies, data center/cloud computing hosts, and electricity generation and transmission companies.

Time horizon
Unknown

Likelihood
Unlikely

Magnitude of impact
High

Are you able to provide a potential financial impact figure?
No, we do not have this figure

Potential financial impact figure (currency)
<Not Applicable>

Potential financial impact figure – minimum (currency)
<Not Applicable>

Potential financial impact figure – maximum (currency)
<Not Applicable>

Explanation of financial impact figure

Management method
To manage these risks Broadridge has multiple production facilities in different regions in North America; disaster recovery plans, as part of our corporate business continuity planning governance; redundancy back-up in our 3rd party data center hosts; and multiple paper suppliers and trucking companies for shipment to our production facilities, in case of a supplier and/or regional shipping disruption.

Cost of management

Comment
Costs have not yet been assessed.

C2.4

(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

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

Identifier
Opp1

Where in the value chain does the opportunity occur?
Customer

Opportunity type
Products and services

Primary climate-related opportunity driver
Development and/or expansion of low emission goods and services

Type of financial impact

Increased revenue through demand for lower emissions products and services

Company-specific description
Broadridge has encouraged the development of non-traditional communications methods which do not rely on paper-based products but instead utilize electronic means of communications. These products maintain the integrity of the information we must secure while allowing us to migrate more clients to non-paper products, thus gaining a competitive advantage and increased market share. Broadridge's primary business is the fulfilment of communications in the investment community. This communication has included paper statements and envelopes as well as in-person annual meetings. We also offer e-delivery products effectively eliminating the paper communication. This includes e-proxy and e-delivery of investment communications such as: - Open Enrollment: an online proxy voting service allowing a shareowner to receive communications electronically. - icsdelivery.com: This secure website offers individual investors the ability to enroll for electronic delivery of shareholder communications for any or all of their accounts held with banks, brokers or other financial institutions - investordelivery.com: the customized site we created where clients log in and register to receive annual reports, 10-K wraps, prospectuses, proxy materials and more electronically. - proxyvote.com: This service allows beneficial and registered shareholders to vote their shares on the Internet. - Investor Mailbox: allows for a wide range of eDelivery solutions to be bundled into a single service, and streamlines multiple delivery channels into a single-visit financial portal accessible through a firm's client website. - eSP Lite – Electronic Smart Prospectus: A data-driven solution designed to provide investors with seamless access to their prospectus documents via their broker's website by presenting investors with individual fund-specific prospectus documents in a PDF format - eliminating paper. - PostEdge® - Document Archival and eDelivery: A unique suite of services that distributes and archives transaction correspondence to customers, increases compliance with US SEC retention regulations, and automates daily administrative processes, all for 25-40% less than paper methods.

Time horizon
Current

Likelihood
Virtually certain

Magnitude of impact
High

Are you able to provide a potential financial impact figure?
No, we do not have this figure

Potential financial impact figure (currency)
<Not Applicable>

Potential financial impact figure – minimum (currency)
<Not Applicable>

Potential financial impact figure – maximum (currency)
<Not Applicable>

Explanation of financial impact figure
Initial coarse estimate based on 2-3% of annual revenues

Strategy to realize opportunity
Broadridge's climate change and carbon management team to design and implement an initiative with the Suppressions Technologies group and their associated marketing and sales team to develop a low carbon product designation, and the necessary supporting documentation, for the e-Proxy product, as a prototype for the group.

Cost to realize opportunity
200000

Comment
one time cost

Identifier
Opp2

Where in the value chain does the opportunity occur?
Supply Chain

Opportunity type
Products and services

Primary climate-related opportunity driver
Development and/or expansion of low emission goods and services

Type of financial impact
Better competitive position to reflect shifting consumer preferences, resulting in increased revenues

Company-specific description
Building on Broadridge's successes in the R&D, product development of data driven solutions, roll-out and marketing/sales of our e-proxy and e-delivery of investment communications; and Broadridge's plans for greater participation in CDP's Supply Chain program, and further analysis of our environmental and financial results from our energy efficiency improvement and energy use reduction program. Engage directly with a number of Broadridge's key suppliers to identify and develop mutual, or bi-directional, opportunities for potential Scope 2 and Scope 3 GHG emissions reductions, in the various upstream and downstream Scope 3 optional GHG reporting categories for each party (based on the WRI GHG Protocol Scope 3 guidance). After identifying primary emission reduction category candidates from each party, assemble available in-house data to document and validate the actual GHG emissions reductions, i.e., those from avoided emissions, associated with the suite of Broadridge e-proxy and e-delivery products. Based on those analyses, resulting in Scope 2, and Scope 3-downstream, emissions reductions for Broadridge, and Scope 3-upstream emissions reductions for Broadridge's customers, work with some of our key suppliers on similar validations of their key Scopes 1-3 GHG reduction initiatives. The end result of these supplier/customer team collaboration efforts would be climate-related, market discriminating products and services offerings for Broadridge and our key suppliers, which would enhance both of our competitive positions within our respective markets/industries.

Time horizon
Medium-term

Likelihood
About as likely as not

Magnitude of impact
Medium-low

Are you able to provide a potential financial impact figure?
No, we do not have this figure

Potential financial impact figure (currency)
<Not Applicable>

Potential financial impact figure – minimum (currency)
<Not Applicable>

Potential financial impact figure – maximum (currency)
<Not Applicable>

Explanation of financial impact figure

Strategy to realize opportunity
Join the CDP Supply Chain program in the 2019-2020 timeframe. Begin discussions with 10-15 of Broadridge's largest suppliers in late 2019.

Cost to realize opportunity
500000

Comment

C2.5

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

	Impact	Description
Products and services	Not evaluated	
Supply chain and/or value chain	Not evaluated	
Adaptation and mitigation activities	Not evaluated	
Investment in R&D	Not evaluated	
Operations	Not evaluated	
Other, please specify	Not evaluated	

C2.6

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

	Relevance	Description
Revenues	Not evaluated	
Operating costs	Not evaluated	
Capital expenditures / capital allocation	Not evaluated	
Acquisitions and divestments	Not evaluated	
Access to capital	Not evaluated	
Assets	Not evaluated	
Liabilities	Not evaluated	
Other	Not evaluated	

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.

The climate-related issues integration into Broadridge's business strategy is focused overall on identifying carbon management elements which impact Broadridge's reputation, business potential, operations, and capital investments. As part of that climate-related business strategy component, Broadridge has incorporated benchmarking analyses, identification of best practices, and assessment of climate issues trends. The overarching goal of this strategy is to identify and implement business strategies which serve to reduce energy usage and costs, and to stabilize/reduce electricity pricing in energy supply contracts. Broadridge measures and estimates energy usage and associated GHG emissions, to in part focus energy use reduction and energy efficiency opportunities in corporate and facilities operations. Facility managers define annual energy consumption goals, based on analysis of such site-specific opportunities. Broadridge has implemented over fifty (50) energy use reduction and energy efficiency projects across the company, which have resulted in millions of $USD savings for the company. In conjunction Broadridge has set GHG emissions reduction targets of reducing 7.5% of total Scope 1 + 2 absolute emissions, and a 30% reduction in total Scope 1 + 2 GHG emissions intensity (based on corporate revenues), by 2020 (from a 2013 baseline). Part of Broadridge's long-term strategy's climate-related business objectives is to develop a renewable energy procurement and project development strategy for the company over the next 5 years, and to subsequently set a science-based GHG emissions reduction target.

C3.1g

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

Broadridge is not prepared yet at this time to set a science-based GHG emissions reduction target, and, as such, perform the sophisticated scenario analyses and modelling necessary to support a SBT designation and certification. However, as part of Broadridge's 5-year long-term objective to develop a renewable energy strategy for the company, we do anticipate initiating the types of qualitative and quantitative scenario analyses, within the next two (2) years, which will serve as the foundation for obtaining SBTi certification.

C4. Targets and performance

C4.1

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

Both absolute and intensity targets

C4.1a

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

Target reference number
Abs 1

Scope
Scope 1+2 (location-based)

% emissions in Scope
100

Targeted % reduction from base year
7.5

Base year
2013

Start year
2014

Base year emissions covered by target (metric tons CO2e)
73288

Target year
2020

Is this a science-based target?
No, and we do not anticipate setting one in the next 2 years

% of target achieved
100

Target status
Achieved

Please explain
In late 2013/early 2014 Broadridge launched several additional, significant energy use reduction/energy efficiency projects. Based on those new initiatives, and other energy saving programs implemented previously by Broadridge, in late 2014 Broadridge decided to make a voluntary commitment to reduce GHG emissions and emissions intensity. The details of that GHG reduction target commitment are as follows: by the end of 2020, Broadridge will reduce its Scope 1 + Scope 2 emissions total by 7.5% from its 2013 baseline emissions level, on an absolute GHG emissions basis. Also by the end of 2020, Broadridge will reduce its Scope 1 + Scope 2 total GHG emissions intensity by 30% from its 2013 baseline emissions levels, on an intensity basis of total Scope 1 + Scope 2 GHG emissions per $ Million of revenue. After the first six (6) years of this seven (7) year target commitment program, Broadridge's performance progress as of this 2019 CDP report has achieved the absolute GHG emissions reduction target commitment ahead of schedule, with an absolute emissions reduction of 24.2% from 2013 to 2019. This target's early achivement was due primarily to implementation of numerous energy efficiency and energy use reduction projects over the last 6 years; corporate streamlining/operational efficiency improvements from consolidating major printing operations after a large acquisition made at the beginning of 2017; and closing a captive Broadridge data center in FY2018 and shifting those operations to an existing contracted data host. Based on this performance success, in FY2020 Broadridge will be evaluating options for setting a new, long-term GHG emissions reduction target, as part of its expanding program for climate change and carbon management. (Note: While the relative, "greening" of the U.S. electrical grid during this time period, due to the displacement of coal by natural gas for power generation, has contributed somewhat to these GHG emissions reductions overall, Broadridge's corporate-wide electricity usage has decreased by 23% over the entire target commitment period - - despite 29% growth in total corporate revenues contemporaneously.)

C4.1b

(C4.1b) Provide details of your emissions intensity target(s) and progress made against those target(s).

Target reference number
Int 1

Scope
Scope 1+2 (location-based)

% emissions in Scope
100

Targeted % reduction from base year
30

Metric
Metric tons CO2e per unit revenue

Base year
2013

Start year
2014

Normalized base year emissions covered by target (metric tons CO2e)
0.00002076

Target year
2020

Is this a science-based target?
No, and we do not anticipate setting one in the next 2 years

% of target achieved
100

Target status
Achieved

Please explain
In late 2013/early 2014 Broadridge launched several additional, significant energy use reduction/energy efficiency projects. Based on those new initiatives, and other energy saving programs implemented previously by Broadridge, in late 2014 Broadridge decided to make a voluntary commitment to reduce GHG emissions and emissions intensity. The details of that GHG reduction target commitment are as follows: by the end of 2020, Broadridge will reduce its Scope 1 + Scope 2 emissions total by 7.5% from its 2013 baseline emissions level, on an absolute GHG emissions basis. Also by the end of 2020, Broadridge will reduce its Scope 1 + Scope 2 total GHG emissions intensity by 30% from its 2013 baseline emissions levels, on an intensity basis of total Scope 1 + Scope 2 GHG emissions per $ Million of revenue. After the first six (6) years of this seven (7) year target commitment program, Broadridge's performance progress as of this 2019 CDP report has achieved the absolute GHG emissions reduction target commitment, ahead of schedule, with an emissions intensity reduction of 41.2% from 2013 to 2019. This target's early achivement was due to implementation of numerous energy efficiency and energy use reduction projects over the last 6 years; corporate streamlining/operational efficiency improvements from consolidating major printing operations after a large acquisition made at the beginning of 2017; and closing a captive Broadridge data center in FY2018 and shifting those operations to an existing contracted data host. Based on this performance success, in FY2020 Broadridge will be evaluating options for setting a new, long-term GHG emissions intensity reduction target, as part of its expanding program for climate change and carbon management.

% change anticipated in absolute Scope 1+2 emissions
7.5

% change anticipated in absolute Scope 3 emissions
0

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 initiatives at each stage of development, and for those in the implementation stages, the estimated CO2e savings.

	Number of initiatives	Total estimated annual CO2e savings in metric tonnes CO2e (only for rows marked *)
Under investigation	6	
To be implemented*	3	
Implementation commenced*	4	
Implemented*	12	
Not to be implemented		

C4.3b

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

Initiative type
Other, please specify (Electronic Communications Displace Print)

Description of initiative
<Not Applicable>

Estimated annual CO2e savings (metric tonnes CO2e)
800

Scope
Scope 2 (location-based)

Voluntary/Mandatory
Voluntary

Annual monetary savings (unit currency – as specified in C0.4)
200000

Investment required (unit currency – as specified in C0.4)
0

Payback period
1-3 years

Estimated lifetime of the initiative
16-20 years

Comment
Electronic proxy and other electronic delivery systems of customer information: this program suppresses an additional ~3% per year of certain printed materials and mailings at our major production facilities, affecting up to half of all printing operations at those facilities.

Initiative type
Energy efficiency: Processes

Description of initiative

Other, please specify (Lighting)

Estimated annual CO2e savings (metric tonnes CO2e)
400

Scope
Scope 2 (location-based)

Voluntary/Mandatory
Voluntary

Annual monetary savings (unit currency – as specified in C0.4)
250000

Investment required (unit currency – as specified in C0.4)
950000

Payback period
1-3 years

Estimated lifetime of the initiative
6-10 years

Comment
Installation of LED retrofit lighting at two of the production facilities based in Edgewood, New York. This program eliminated 4,000 T8 parabolic3-bulb fixtures and replaced them with LED fixtures, thus reducing energy usage and eliminating mercury waste from fluorescent bulbs.

Initiative type
Energy efficiency: Processes

Description of initiative
Other, please specify (Lighting)

Estimated annual CO2e savings (metric tonnes CO2e)
400

Scope
Scope 2 (location-based)

Voluntary/Mandatory
Voluntary

Annual monetary savings (unit currency – as specified in C0.4)
500000

Investment required (unit currency – as specified in C0.4)
750000

Payback period
1-3 years

Estimated lifetime of the initiative
6-10 years

Comment
Installation of LED retrofit lighting at two of the warehouse facilities based in Edgewood, New York, and a production facility in Windsor, CT

Initiative type
Energy efficiency: Processes

Description of initiative
Other, please specify (Machine Replacement)

Estimated annual CO2e savings (metric tonnes CO2e)
300

Scope
Scope 2 (location-based)

Voluntary/Mandatory
Voluntary

Annual monetary savings (unit currency – as specified in C0.4)
100000

Investment required (unit currency – as specified in C0.4)
1500000

Payback period
1-3 years

Estimated lifetime of the initiative
11-15 years

Comment
Installation of high efficiency printers at four production facilities: two in Edgewood, NY; one in Secaucus, NJ, and one in Coppell, TX: the new printers use less electricity, have higher speed/printing capacity, use less toner, and occupy a smaller footprint within our production facilities.

Initiative type
Energy efficiency: Processes

Description of initiative
Other, please specify (HVAC)

Estimated annual CO2e savings (metric tonnes CO2e)
200

Scope
Scope 2 (location-based)

Voluntary/Mandatory
Voluntary

Annual monetary savings (unit currency – as specified in C0.4)
50000

Investment required (unit currency – as specified in C0.4)
500000

Payback period
4 - 10 years

Estimated lifetime of the initiative
6-10 years

Comment
Installation of Energy Star HVAC high efficiency rooftop HVAC units in Edgewood, NY and Secaucus, NJ: high efficiency HVAC equipment uses ~30% less energy than the equipment it replaces.

Initiative type
Other, please specify (HVAC)

Description of initiative
<Not Applicable>

Estimated annual CO2e savings (metric tonnes CO2e)
200

Scope
Scope 2 (location-based)

Voluntary/Mandatory
Voluntary

Annual monetary savings (unit currency – as specified in C0.4)
100000

Investment required (unit currency – as specified in C0.4)

1100000

Payback period
4 - 10 years

Estimated lifetime of the initiative
6-10 years

Comment
Installation of Energy Star HVAC high efficiency rooftop HVAC units at multiple locations in Edgewood, NY and in El Dorado Hills, CA. High efficiency HVAC equipment uses ~30% less energy than the equipment it replaces.

Initiative type
Energy efficiency: Processes

Description of initiative
Other, please specify (Motors and drives)

Estimated annual CO2e savings (metric tonnes CO2e)
50

Scope
Scope 2 (location-based)

Voluntary/Mandatory
Voluntary

Annual monetary savings (unit currency – as specified in C0.4)
20000

Investment required (unit currency – as specified in C0.4)
200000

Payback period
4 - 10 years

Estimated lifetime of the initiative
11-15 years

Comment
Installation of Energy Star variable speed drives on multiple air compressors at Edgewood I facility: variable speed drives utilize less energy as they can follow system load demand, using less electricity at lower loads, with lower maintenance and operational costs.

Initiative type
Energy efficiency: Processes

Description of initiative
Combined heat and power

Estimated annual CO2e savings (metric tonnes CO2e)
100

Scope
Scope 2 (location-based)

Voluntary/Mandatory
Voluntary

Annual monetary savings (unit currency – as specified in C0.4)
600000

Investment required (unit currency – as specified in C0.4)
7000000

Payback period
4 - 10 years

Estimated lifetime of the initiative
>30 years

Comment
Installation and operations of 4.2MW natural gas-fired cogeneraton system at El Dorado Hills facility: cogen plant meets partial or full load of production facility, and exports power to the grid, offsetting consumption, when possible.

Initiative type
Low-carbon energy installation

Description of initiative
Solar PV

Estimated annual CO2e savings (metric tonnes CO2e)
500

Scope
Scope 2 (location-based)

Voluntary/Mandatory
Voluntary

Annual monetary savings (unit currency – as specified in C0.4)
200000

Investment required (unit currency – as specified in C0.4)
3000000

Payback period
4 - 10 years

Estimated lifetime of the initiative
>30 years

Comment
Installation and operations of 0.8 MW solar energy system at El Dorado Hills, CA facility: first renewable energy project in Broadridge's portfolio of assets.

C4.3c

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

Method	Comment
Internal finance mechanisms	Our organization reviews capital expenditures based on client needs, technology advancements, cost reduction goals, and energy/GHG emissions reduction benefits.

C4.5

(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

(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
Group of products

Description of product/Group of products
Broadridge's primary business is the fulfilment of communications in the investment community. This communication has included paper statements and envelopes as well as in-person annual meetings. We also offer e-delivery products effectively eliminating the paper communication. This includes e-proxy and e-delivery of investment communications such as: - Open Enrollment: an online proxy voting service allowing a shareowner to receive communications electronically. - icsdelivery.com: This secure website offers individual investors the ability to enroll for electronic delivery of shareholder communications for any or all of their accounts held with banks, brokers or other financial institutions - investordelivery.com: the customized site we created where clients log in and register to receive annual reports, 10-K wraps, prospectuses, proxy materials and more electronically. - proxyvote.com: This service allows beneficial and registered shareholders to vote their shares on the Internet. - Investor Mailbox: allows for a wide range of eDelivery solutions to be bundled into a single service, and streamlines multiple delivery channels into a single-visit financial portal accessible through a firm's client website, placing regulatory delivery notices and other information into the customers' hands - eliminating paper. - eSP Lite – Electronic Smart Prospectus: A data-driven solution designed to provide investors with seamless access to their prospectus documents via their broker's website by presenting investors with individual fund-specific prospectus documents in a PDF format - eliminating paper. - PostEdge® - Document Archival and eDelivery: A unique suite of services that distributes and archives transaction correspondence to customers, increases compliance with US SEC retention regulations, and automates daily administrative processes, all for 25-40% less than paper methods (and thus reducing Scope 2 GHG emissions associated with electricity consumption by high speed printer operations, and reducing Scope 3 GHG emissions associated with paper usage and shipping). Documents that are typically distributed via PostEdge include confirmations, statements, 1099s, and many other investor or marketing mailings.

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

Taxonomy, project or methodology used to classify product(s) as low-carbon or to calculate avoided emissions
Other, please specify (Methodology to calculate avoided emissions is based on the total and y-o-y incremental suppressions products' avoided printing runs at major U.S. printing facilities, as a percentage of total printing runs, and then estimate what the total electricity usage would have been without the suppression products implementation, and compare that to the actual electricity consumption at those production facilities.)

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

Comment
Methodology to calculate avoided emissions is based on the total and y-o-y incremental suppressions products' avoided printing runs at major U.S. printing facilities, as a percentage of total printing runs, and then estimate what the total electricity usage would have been without the suppression products implementation, and compare that to the actual electricity consumption at those production facilities.

C5. Emissions methodology

C5.1

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

Scope 1

Base year start
May 1 2012

Base year end
April 30 2013

Base year emissions (metric tons CO2e)
11856

Comment

Scope 2 (location-based)

Base year start
May 1 2012

Base year end
April 30 2013

Base year emissions (metric tons CO2e)
61432

Comment

Scope 2 (market-based)

Base year start
May 1 2012

Base year end
April 30 2013

Base year emissions (metric tons CO2e)
61432

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?

Reporting year

Gross global Scope 1 emissions (metric tons CO2e)
10287

Start date
May 1 2018

End date
April 30 2019

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?

Reporting year

Scope 2, location-based
45242

Scope 2, market-based (if applicable)
<Not Applicable>

Start date
May 1 2018

End date
April 30 2019

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, calculated

Metric tonnes CO2e
60791

Emissions calculation methodology
Purchased paper GHG emissions are calculated based upon paper and envelopes purchasing data (amounts, size, paper weights, etc.) obtained from Broadridge's paper purchasing Oracle database, and GHG emissions factors for paper from the Environmental Paper Network (in metric tonne CO2e/ton paper).

Percentage of emissions calculated using data obtained from suppliers or value chain partners
100

Explanation

Capital goods

Evaluation status

Metric tonnes CO2e
<Not Applicable>

Emissions calculation methodology
<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners
<Not Applicable>

Explanation

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

Evaluation status

Metric tonnes CO2e
<Not Applicable>

Emissions calculation methodology
<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners
<Not Applicable>

Explanation

Upstream transportation and distribution

Evaluation status

Metric tonnes CO2e
<Not Applicable>

Emissions calculation methodology
<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners
<Not Applicable>

Explanation

Waste generated in operations

Evaluation status

Metric tonnes CO2e
<Not Applicable>

Emissions calculation methodology
<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners
<Not Applicable>

Explanation

Business travel

Evaluation status
Relevant, calculated

Metric tonnes CO2e
4562

Emissions calculation methodology
Business air travel GHG emissions are calculated based upon passenger-mile data by travel class and distance categories provided by Broadridge's travel agent, combined with GHG emissions factors (in kg CO2e/passenger-km) from UK DEFRA (2017).

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

Explanation

Employee commuting

Evaluation status

Metric tonnes CO2e
<Not Applicable>

Emissions calculation methodology
<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners
<Not Applicable>

Explanation

Upstream leased assets

Evaluation status

Metric tonnes CO2e
<Not Applicable>

Emissions calculation methodology
<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners
<Not Applicable>

Explanation

Downstream transportation and distribution

Evaluation status
Relevant, calculated

Metric tonnes CO2e
4430

Emissions calculation methodology
Shipping of printed paper and envelope materials are based on a Broadridge mailings distribution assessment, and ton-mile GHG emission factors for product shipping from UK-DEFRA. GHG emissions from shipment of Broadridge's paper products to their customers is estimated based upon total paper and envelope purchases, estimates of distribution distances categories across the U.S., and GHG emissions factors for product shipping (in metric tonnes CO2e/ton-mile product shipped) from UK DEFRA (2017).

Percentage of emissions calculated using data obtained from suppliers or value chain partners
100

Explanation

Processing of sold products

Evaluation status

Metric tonnes CO2e
<Not Applicable>

Emissions calculation methodology
<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners
<Not Applicable>

Explanation

Use of sold products

Evaluation status

Metric tonnes CO2e
<Not Applicable>

Emissions calculation methodology
<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners
<Not Applicable>

Explanation

End of life treatment of sold products

Evaluation status

Metric tonnes CO2e
<Not Applicable>

Emissions calculation methodology
<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners
<Not Applicable>

Explanation

Downstream leased assets

Evaluation status

Metric tonnes CO2e
<Not Applicable>

Emissions calculation methodology
<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners
<Not Applicable>

Explanation

Franchises

Evaluation status

Metric tonnes CO2e
<Not Applicable>

Emissions calculation methodology
<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners
<Not Applicable>

Explanation

Investments

Evaluation status

Metric tonnes CO2e
<Not Applicable>

Emissions calculation methodology
<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners
<Not Applicable>

Explanation

Other (upstream)

Evaluation status

Metric tonnes CO2e
<Not Applicable>

Emissions calculation methodology
<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners
<Not Applicable>

Explanation

Other (downstream)

Evaluation status

Metric tonnes CO2e
<Not Applicable>

Emissions calculation methodology
<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners
<Not Applicable>

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 CO2e per unit currency total revenue and provide any additional intensity metrics that are appropriate to your business operations.

Intensity figure

0.0000122

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

55529

Metric denominator

unit total revenue

Metric denominator: Unit total

4546000000

Scope 2 figure used

Location-based

% change from previous year

12.2

Direction of change

Decreased

Reason for change

Increased revenue combined with energy use and GHG emissions reductions due to corporate energy efficiency progam and associated investments, and ongoing consolidation/operations streamlining.

Intensity figure

5.3

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

55529

Metric denominator

full time equivalent (FTE) employee

Metric denominator: Unit total

10480

Scope 2 figure used

Location-based

% change from previous year

9.5

Direction of change

Increased

Reason for change

Continued corporate consolidation/operations streamlining, particularly after 2 years since Broadridge's major acquisition of another major North American printing company's operations, led to a lower number of FTE employees relative to that of a commensurate decrease in Scope 1 and 2 emissions.

C7. Emissions breakdowns

C7.1

(C7.1) Does your organization break down its Scope 1 emissions by greenhouse gas type?

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	10134	IPCC Fourth Assessment Report (AR4 - 100 year)
CH4	5	IPCC Fourth Assessment Report (AR4 - 100 year)
N2O	6	IPCC Fourth Assessment Report (AR4 - 100 year)
HFCs	142	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)
United States of America	9735
Canada	455
India	97

C7.3

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

By facility

C7.3b

(C7.3b) Break down your total gross global Scope 1 emissions by business facility.

Facility	Scope 1 emissions (metric tons CO2e)	Latitude	Longitude
51 Mercedes Way, Edgewood, NY USA	636	40.786277	-73.278916
1155 Long Island Ave, Edgewood, NY USA	358	40.783657	-73.285284
1100 N 28th St, Coppell, TX USA	41	32.932191	-97.022495
110 W Park Drive, Mt. Laurel, NJ USA	46	39.9342	-74.9545
Hyderabad, India	60	17.385044	78.486671
300 Executive Dr, Edgewood, NY USA	297	40.776166	-73.290185
50 Emjay Blvd, Brentwood, NY USA	220	40.775601	-73.275719
404 Royal Lane, Coppell, TX USA	66	32.966933	-97.025046
925 Paterson Plank Road , Secaucus, NJ USA	209	40.781157	-74.045874
5220 Robert J Mathews Pkwy, Eldorado Hills, CA, USA	7417	38.685737	-121.082167
2601 14th Avenue, Markham, Canada	455	43.8561	-79.337019
125 Ellington Road, South Windsor, CT, USA	344	41.848987	-72.571755
Bangalore, India	37	12.971599	77.594563
5 Dakota Drive, Lake Success, NY USA – Office natural gas usage	12	40.770657	-73.717631
5 Dakota Drive, Lake Success, NY USA – Corporate fleet fuel gasoline usage	89	40.770657	-73.717631

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)
United States of America	38243		82630	
Canada	1036		6734	
Germany	56		120	
India	5185			
United Kingdom of Great Britain and Northern Ireland	232		660	
Australia	57		43	
Japan	80		148	
China, Hong Kong Special Administrative Region	68		93	
Singapore	28		65	
Russian Federation	74		186	
Ireland	78		185	
Poland	30		41	
Czechia	44		59	
Israel	44		72	

C7.6

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

By facility

C7.6b

(C7.6b) Break down your total gross global Scope 2 emissions by business facility.

Facility	Scope 2 location-based emissions (metric tons CO2e)	Scope 2, market-based emissions (metric tons CO2e)
Andover, MA	50	
Marlborough, MA	16	
Glendale, CA	12	
Vancouver, CDN	38	
Toronto, CDN	89	
Mississauga, CDN	31	
Ft. Wayne, IN	108	
Denver, CO	302	
Philadelphia, PA	30	
Owings Mills, MD	56	
420 Lexington Ave, New York, NY	13	
Newark, NJ	508	
Secaucus, NJ	1536	
One Park Ave, New York, NY	261	
300 Executive Dr, Edgewood, NY	181	
50 Emjay Blvd, Brentwood, NY	90	
51 Mercedes Way, Edgewood, NY	9906	
1155 Long Island Ave, Edgewood, NY	6659	
5 Dakota Drive, Lake Success, NY	112	
Pittsburgh, PA	185	
Coppell, TX	2519	
Frankfurt, Germany	37	
Hyderabad, India	3748	
London, United Kingdom	208	
Prague, Czech Republic	44	
Sydney, Australia	43	
Tokyo, Japan	80	
Hong Kong	68	
New Delhi, India	380	
St. Petersburg, Russia	74	
Singapore, Singapore	43	
Mt. Laurel, NJ	173	
Boston, MA	46	
Norwell, MA	11	
Wheat Ridge, CO	734	
Phoenix, AZ	165	
San Diego, CA	49	
El Dorado Hills, CA	1969	
Markham, CDN	878	
South Windsor, CT	2796	
Needham, MA	57	
Pittsfield, MA	4	
Duluth, MN	57	
Kansas City, MO	9454	
Albany, NY	9	
White Plains, NY	25	
Bangalore, India	1057	
Gdansk, Poland	30	
Other New York, NY	75	
Edinburgh, Scotland	24	
Houston, TX	87	
Dublin, Ireland	78	
Tel Aviv, Israel	44	

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		<Not Applicable>		
Divestment		<Not Applicable>		
Acquisitions		<Not Applicable>		
Mergers		<Not Applicable>		
Change in output		<Not Applicable>		
Change in methodology		<Not Applicable>		
Change in boundary		<Not Applicable>		
Change in physical operating conditions		<Not Applicable>		
Unidentified		<Not Applicable>		
Other	4766	Decreased	7.9	Closing of major in-house data center, and continued energy use reduction/energy efficiency program. Calculation based on 2019 - 2018 difference in Total Scope 1 + 2 emissions, divided by 2018 Total.

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	No
Consumption of purchased or acquired steam	No
Consumption of purchased or acquired cooling	No
Generation of electricity, heat, steam, or cooling	Yes

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)	HHV (higher heating value)		55600	55600
Consumption of purchased or acquired electricity	<Not Applicable>		97800	97800
Consumption of purchased or acquired heat	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
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>	1500	<Not Applicable>	1500
Total energy consumption	<Not Applicable>	1500	153400	154900

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	Yes
Consumption of fuel for the generation of heat	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	Yes

C8.2c

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

Fuels (excluding feedstocks)
Natural Gas

Heating value
HHV (higher heating value)

Total fuel MWh consumed by the organization
54700

MWh fuel consumed for self-generation of electricity

MWh fuel consumed for self-generation of heat
13900

MWh fuel consumed for self-generation of steam
<Not Applicable>

MWh fuel consumed for self-generation of cooling
<Not Applicable>

MWh fuel consumed for self-cogeneration or self-trigeneration
40800

Comment

Fuels (excluding feedstocks)
Diesel

Heating value
HHV (higher heating value)

Total fuel MWh consumed by the organization
500

MWh fuel consumed for self-generation of electricity
500

MWh fuel consumed for self-generation of heat

MWh fuel consumed for self-generation of steam
<Not Applicable>

MWh fuel consumed for self-generation of cooling
<Not Applicable>

MWh fuel consumed for self-cogeneration or self-trigeneration

Comment

Fuels (excluding feedstocks)
Motor Gasoline

Heating value
HHV (higher heating value)

Total fuel MWh consumed by the organization
400

MWh fuel consumed for self-generation of electricity

MWh fuel consumed for self-generation of heat

MWh fuel consumed for self-generation of steam
<Not Applicable>

MWh fuel consumed for self-generation of cooling
<Not Applicable>

MWh fuel consumed for self-cogeneration or self-trigeneration

Comment

C8.2d

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

Diesel

Emission factor
10.24

Unit
kg CO2e per gallon

Emission factor source
U.S. EPA Emission Factors for Greenhouse Gas Inventories; March 9,2018

Comment

Motor Gasoline

Emission factor
8.809

Unit
kg CO2e per gallon

Emission factor source
U.S. EPA Emission Factors for Greenhouse Gas Inventories; March 9,2018

Comment

Natural Gas

Emission factor
53.12

Unit
kg CO2e per million Btu

Emission factor source
U.S. EPA Emission Factors for Greenhouse Gas Inventories; March 9,2018

Comment

C8.2e

(C8.2e) Provide details on the electricity, heat, steam, and cooling your organization has generated and consumed in the reporting year.

	Total Gross generation (MWh)	Generation that is consumed by the organization (MWh)	Gross generation from renewable sources (MWh)	Generation from renewable sources that is consumed by the organization (MWh)
Electricity	15400	13600	1500	1500
Heat				
Steam				
Cooling				

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.

C9. Additional metrics

C9.1

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

C10. Verification

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
Scope 1

Verification or assurance cycle in place
Annual process

Status in the current reporting year
Complete

Type of verification or assurance
Reasonable assurance

Attach the statement
Cventure Final Verification Statement_July 27 2019.pdf

Page/ section reference

Relevant standard
Corporate GHG verification guidelines from ERT

Proportion of reported emissions verified (%)
100

Scope
Scope 2 location-based

Verification or assurance cycle in place
Annual process

Status in the current reporting year
Complete

Type of verification or assurance
Reasonable assurance

Attach the statement
Cventure Final Verification Statement_July 27 2019.pdf

Page/ section reference

Relevant standard
Corporate GHG verification guidelines from ERT

Proportion of reported emissions verified (%)
100

C10.1b

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

Scope
Scope 3- at least one applicable category

Verification or assurance cycle in place
Annual process

Status in the current reporting year
Complete

Attach the statement
Cventure Final Verification Statement_July 27 2019.pdf

Page/section reference

Relevant standard
Corporate GHG verification guidelines from ERT

C10.2

(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

C11. Carbon pricing

C11.1

(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

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

C11.3

(C11.3) Does your organization use an internal price on carbon?
No, but we anticipate doing so in the next two years

C12. Engagement

C12.1

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

No, we do not engage

C12.1d

(C12.1d) Why do you not engage with any elements of your value chain on climate-related issues, and what are your plans to do so in the future?

While Broadridge has not engaged directly with individual customers or suppliers to the degree illustrated in the CDP response questions C12.1a-C12.1c, this element of Broadridge's climate change and carbon management strategy is one of importance to the company, and is targeted for near-term future actions by Broadridge. As such, during FY2020 Broadridge plans to evaluate the CDP Supply Chain program to determine the viability of full membership for the FY2021 business cycle, and, if so, would subsequently engage directly with our suppliers in FY2021 for them to provide Broadridge and CDP with their respective supply chain carbon disclosure responses.

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?

No

C12.3g

(C12.3g) Why do you not engage with policy makers on climate-related issues?

As with supply chain direct engagement, this is an area in which Broadridge has not historically played a significant role, due to the company's very limited environmental impacts which are subject to State or federal regulation. As part of our climate change and carbon management program's ongoing risk and opportunity assessments, this area will be reviewed in the FY2020 - FY2021 time period.

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

No publications with information about our response to climate-related issues and GHG emissions performance

Status

<Not Applicable>

Attach the document

<Not Applicable>

Page/Section reference

<Not Applicable>

Content elements

<Not Applicable>

Comment

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	Facilities	Facilities 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	4546000000

SC0.2

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

No

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.

Given the extremely large number of Broadridge's customers; Broadridge's GHG-related activity data are generated and tracked at the facility level, without-subaggregation by corporate division/OpCo; Broadridge's ongoing CDP reporting program is managed by the corporate Facilities and Real Estate department; and given limited internal resources, such a capabilities development effort in this area is not viable.

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 2019-2020 CDP Action Exchange initiative?

No

SC3.2

(SC3.2) Is your company a participating supplier in CDP's 2018-2019 Action Exchange initiative?

No

SC4.1

(SC4.1) Are you providing product level data for your organization's goods or services?

No, I am not providing data

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