

# Task Force on Climate-related Financial Disclosures

## 2020 Report



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## Introduction

RBC Global Asset Management (RBC GAM) is the asset management division of Royal Bank of Canada (RBC)<sup>1</sup>. RBC GAM manages more than US\$429 billion<sup>2</sup> in assets under management (AUM) and has approximately 1,300 employees located across Canada, the United States, Europe and Asia.

We are a provider of global investment management services and solutions to institutional, high-net-worth, and individual investors through separate accounts, pooled funds, mutual funds, hedge funds, exchange-traded funds, and specialty investment strategies. Our 23 experienced investment teams are active across capital markets and asset classes, deploying traditional and innovative strategies.

As an asset manager and fiduciary of our clients' assets, we have an important responsibility to consider all material factors that may impact the risk-adjusted returns of our investments. We believe that integrating material environmental, social, and governance (ESG) factors into our investment process can enhance long-term risk-adjusted returns. Climate change is one such factor.

RBC GAM supports the principles of the Paris Agreement and the international goal to hold global warming to “well below 2°C”.<sup>3</sup> Scientists agree that in order to meet this goal, greenhouse gas emissions must decline by at least 7.6% annually between 2020 and 2050, and achieve net-zero by mid-century.<sup>4</sup> RBC GAM recognizes the need to achieve a just transition to a low-carbon economy.

### HIGHLIGHTS

**US\$429<sup>+</sup> billion**

Assets under management (AUM)

**23** Global investment teams

**ALL INVESTMENT TEAMS**

fully integrate material environmental, social and governance (ESG) factors

Climate Dashboards for

**70<sup>+</sup> CORE FUNDS**

distributed quarterly to investment teams



**CARBON NEUTRAL**

operations for 3rd year in a row.\*

\*[RBC 2020 ESG Performance Report](#)

<sup>1</sup> In this document, references to RBC GAM (we, our or us) include the following affiliates: BlueBay Asset Management LLP (BlueBay), RBC Global Asset Management Inc. (including Phillips, Hager & North Investment Management), RBC Global Asset Management (U.S.) Inc., RBC Global Asset Management (UK) Limited, and RBC Global Asset Management (Asia) Limited, which are separate, but affiliated subsidiaries of RBC. Unless otherwise stated, BlueBay Asset Management LLP (BlueBay) is included in this document. “RBC” refers to Royal Bank of Canada and its subsidiaries in this Report.

<sup>2</sup> Inclusive of BlueBay Asset Management LLP (US\$76 billion AUM. Data as at December 31 2020.)

<sup>3</sup> [The Paris Agreement, United Nations Climate Change](#).

<sup>4</sup> [The Emissions Gap Report, United Nations Environment Programme, November 26, 2019.](#)

We support this belief by integrating material climate change considerations in our investment decision-making process. We also use our influence as active investors to make sure that companies we invest in have in place robust governance oversight of climate change and report transparently on the actions they are taking to integrate climate change into their strategic, financial, and risk management processes. We make investment decisions on a case-by-case basis and use stewardship activities to motivate companies to implement

strategies and take actions that enable climate mitigation and adaptation.

At RBC GAM we have long had a focus on responsible investment – this includes climate change. In 2020 we took the additional steps of formalizing our strategic approach. [Our approach to climate change](#) is built upon the three pillars established in [Our approach to responsible investment](#), and sets the foundation for our commitments and actions to address climate-related risks and opportunities.



#### Fully integrated ESG

We integrate climate-related risks and opportunities in our investment process to help enhance long-term, risk-adjusted returns.



#### Active stewardship

We encourage issuers and regulators to consider climate mitigation and adaptation in their activities, using proxy voting, direct engagement, and collaboration with like-minded investors.

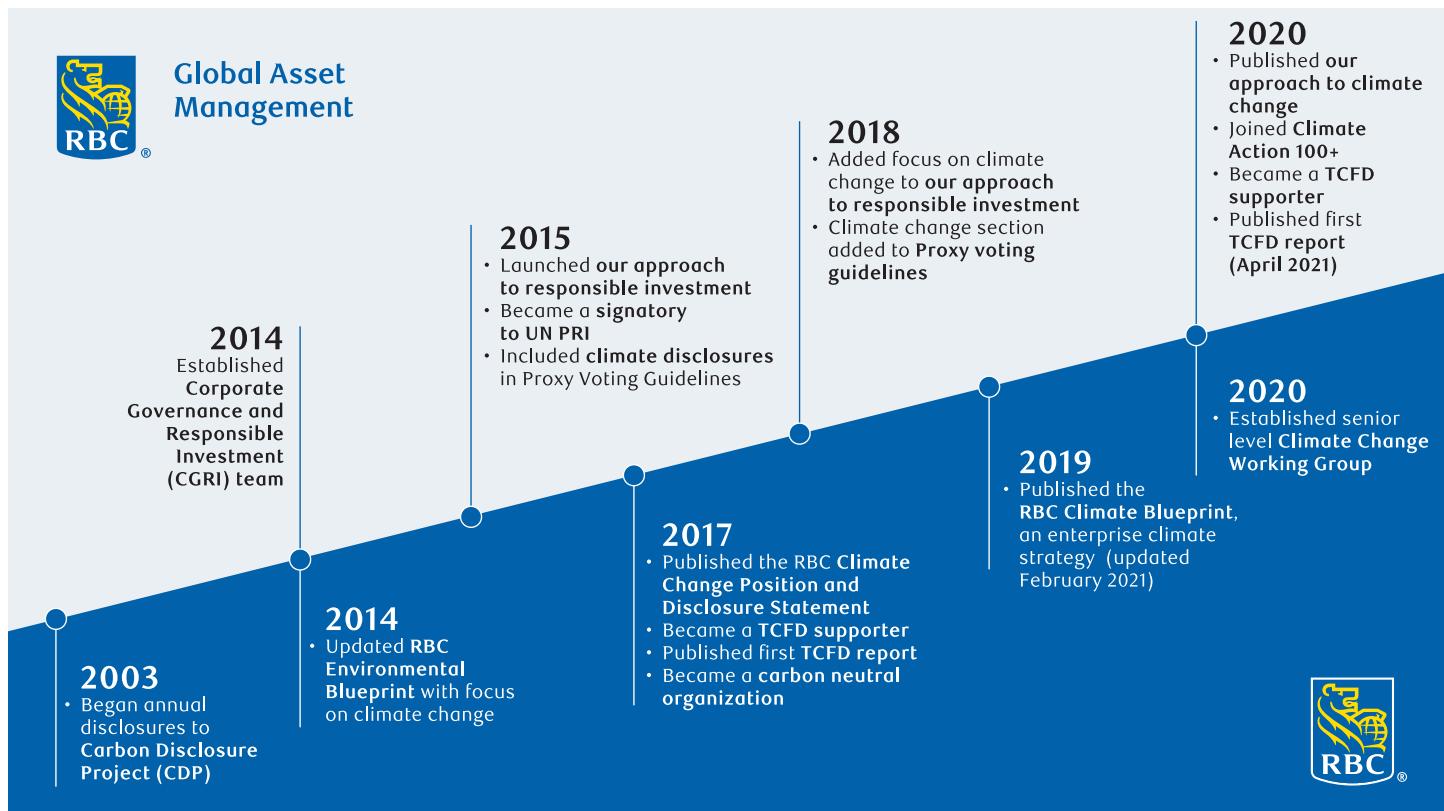


#### Client-driven solutions and reporting

We develop solutions, drive insights and provide transparent reporting related to climate change.

[Our approach to climate change](#) supports and aligns with the [RBC Climate Blueprint](#), which is the RBC strategy to accelerate clean economic growth and support clients in the low-carbon transition. Both RBC and RBC GAM have a long history of action on climate change, as highlighted below.

#### Our history of climate change action



# TCFD support and alignment

The recommendations of the Task Force on Climate-related Financial Disclosures (TCFD), mandated by the Financial Stability Board, are a set of voluntary guidelines for disclosure of material climate-related risks and opportunities. Since 2017, the TCFD has catalyzed a growth in climate-related disclosure with more than 1,500 organizations expressing support for the recommendations.<sup>5</sup>

Enhancing the comprehensiveness, consistency and comparability of climate-related metrics and disclosures is a critical imperative for financial institutions, corporate issuers, regulators, and governments. RBC GAM has supported and encouraged TCFD disclosures through active stewardship since 2018 and became a signatory to the TCFD in 2020,

as described in [Our approach to climate change](#). RBC has been a supporter of the TCFD since 2017 and provides annual TCFD disclosures in the RBC Annual Report and in a stand-alone [RBC TCFD Report 2020](#).

This report is RBC GAM's first disclosure aligned to the TCFD recommendations and covers calendar year 2020. As recommended by the TCFD and as described below, RBC GAM is taking a phased approach to implementing the TCFD recommendations, and we have structured this report according to the TCFD disclosure framework (Figure 1).<sup>6</sup> We are committed to continuous improvement and expect that our TCFD disclosures and the actions we take to address climate change will advance over time.

**Figure 1: RBC GAM progress against TCFD disclosure framework and requirements**

| 1   | Governance                                     | Disclose the organization's governance around climate-related risks and opportunities.  |                                       |
|-----|--|---|---------------------------------------|
| 1.1 | Board oversight                                | Describe the Board's oversight of climate-related risks and opportunities.  | <span style="color: orange;">●</span> |
| 1.2 | Management's role                              | Describe management's role in assessing and managing climate-related risks and opportunities.   | <span style="color: blue;">●</span>   |
| 2   | Strategy                                       | Disclose actual and potential impacts of climate-related risks and opportunities on the organization's businesses, strategy, and financial planning, where the information is material. |                                       |
| 2.1 | Description of climate risks and opportunities | Describe the climate-related risks and opportunities the organization has identified over the short, medium, and long term.   | <span style="color: blue;">●</span>   |
| 2.2 | Impact of climate risks and opportunities      | Describe the impact of climate-related risks and opportunities on the organization's businesses, strategy, and financial planning.  | <span style="color: blue;">●</span>   |
| 2.3 | Resilience to climate risks and opportunities  | Describe the potential impact of different scenarios, including a 2 degree scenario, on the organization's businesses, strategy, and financial planning.                                | <span style="color: orange;">●</span> |
| 3   | Risk management                                | Disclose how the organization identifies, assesses, and manages climate-related risks.  |                                       |
| 3.1 | Identification and assessment of climate risks | Describe the organization's processes for identifying and assessing climate-related risks.  | <span style="color: blue;">●</span>   |
| 3.2 | Management of climate risks                    | Describe the organization's processes for managing climate-related risks.   | <span style="color: orange;">●</span> |
| 3.3 | Integration of climate risks                   | Describe how processes for identifying, assessing and managing climate-related risks are integrated into the organization's overall risk management.                                    | <span style="color: orange;">●</span> |
| 4   | Metrics and targets                            | Describe the metrics and targets used to assess and manage relevant climate-related risks and opportunities, where the information is material.   |                                       |
| 4.1 | Climate-related metrics                        | Disclose the metrics used by the organization to assess climate-related risks and opportunities in line with its strategy and risk management process.                                  | <span style="color: orange;">●</span> |
| 4.2 | Operational emissions                          | Disclose Scope 1, Scope 2, and if appropriate Scope 3 greenhouse gas emissions, and the related risks.  | <span style="color: blue;">●</span>   |
| 4.3 | Climate-related targets                        | Describe the targets used by the organization to manage climate-related risks and opportunities and performance against targets.  | <span style="color: orange;">●</span> |

● complete    ● in progress

<sup>5</sup> [TCFD Status Report 2020, Task Force on Climate-related Financial Disclosures, October 2020](#)

<sup>6</sup> Adapted from [TCFD Final recommendations](#), June 2017.



# 1. Governance

Disclose the organization's governance around climate-related risks and opportunities.

## 1.1 Board oversight

The various Boards of Directors (Boards) of RBC GAM oversee the overall performance of their firms, which includes strategic priorities related to responsible investment. The Boards delegate responsibility for implementation of strategic priorities to the Chief Executive Officer (CEO), Chief Investment Officer (CIO) and senior leadership team of RBC GAM, collectively called the RBC GAM Leadership Committee (Leadership Committee).

The Leadership Committee is responsible for reviewing and monitoring progress against strategic objectives on a semi-annual basis, and reports regularly to the Boards. The Leadership Committee is comprised of the CEO, CIO, and leaders across the Corporate Governance & Responsible Investment (CGRI) team and the fixed income and equities investment teams, among others. The Leadership Committee has identified the advancement of responsible investment, inclusive of climate change, as a strategic objective for the organization. The CEO reviews and reports to the Boards on all strategic priorities on an annual basis. The direct annual compensation of management includes an assessment of performance in achieving these strategic priorities. In addition, performance on strategic initiatives can also contribute to the overall firm-level performance factor that is applied to employees' annual variable compensation amount.

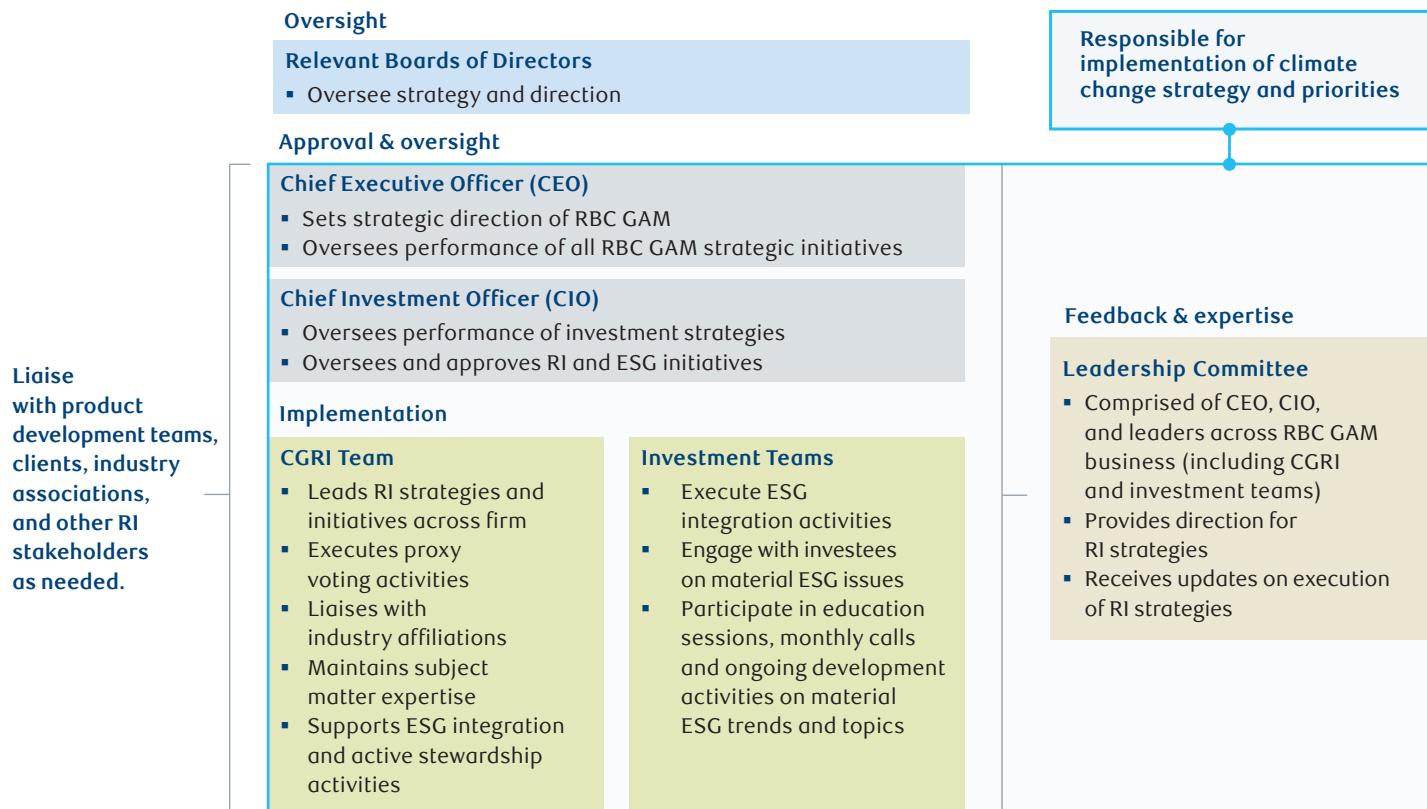
## 1.2 Management's role

[Our approach to responsible investment](#) and [Our approach to climate change](#) set out the organization's strategic priorities and commitments, which are reviewed by the Leadership Committee. The Leadership Committee meets once per month, and reviews and updates strategic priorities on an annual basis. The Head of CGRI reports quarterly to the Leadership Committee on strategic priorities for responsible investment, including climate change. In 2020, the Leadership Committee was invited to participate in the RBC GAM Climate Education Series, which focused on building climate-related knowledge and understanding by bringing in external expertise.

Management oversight of climate-related risks and responsibilities includes the following:

- The CEO oversees and manages the firm's activities and strategies and is responsible for approving RBC GAM's investment priorities, including our approach to climate change.
- The CIO is responsible for overseeing and managing all investment activities and is the ultimate investment risk owner responsible for climate change.
- The CGRI and investment teams are responsible for the implementation of our responsible investment (RI) activities and strategic priorities, and the Head of CGRI is a permanent member of the Leadership Committee. All investment teams and the CGRI team report directly to the CIO.
- Heads of institutional and retail businesses oversee product development with input from the CGRI team and oversight by the CIO and CEO.

The following chart describes RBC GAM's governance oversight of climate change.





## 2. Strategy

Disclose the actual and potential impacts of climate-related risks and opportunities on the organization's businesses, strategy, and financial planning.

### 2.1 Description of climate risks and opportunities

Climate change will impact economies, markets, and societies, posing both financial risks and opportunities for issuers and investors. The impacts of climate change are systemic and unprecedented. They are also already apparent.

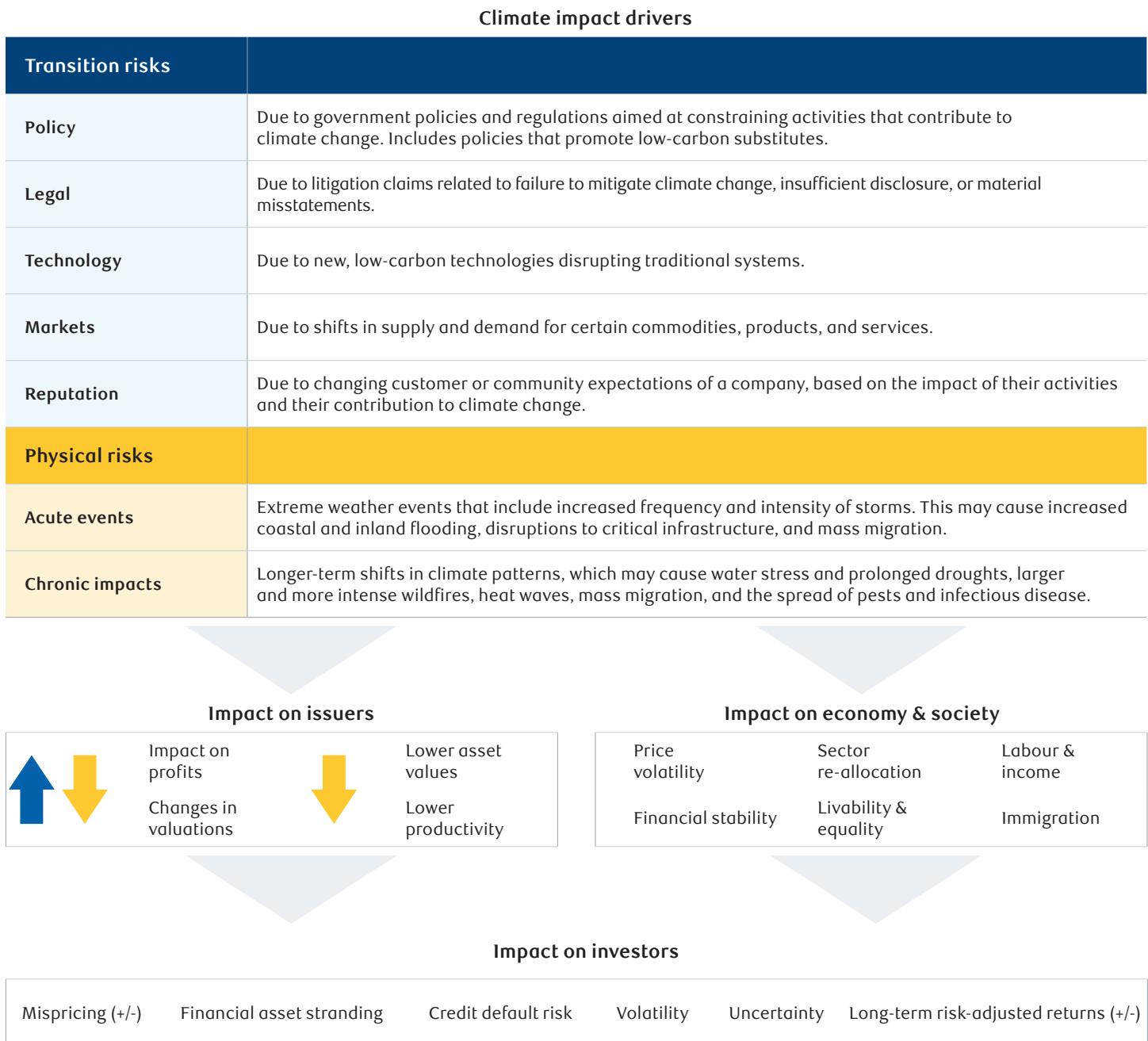
- **Climate risks** include transition risks from the shift to a low-carbon economy, and physical risks from more extreme weather events and changing climate patterns.
- **Climate opportunities** arise from investment in resource efficiency, low-carbon energy sourcing, the development of new products and services, access to new markets and customers, and enabling business resilience.

Rising global temperatures cause the physical impacts of climate change, which are driven by an increase in frequency and intensity of extreme weather events, and longer-term shifts in climate patterns. Efforts to reduce greenhouse gas (GHG) emissions cause the transition impacts of climate change, and are driven by: government policies and regulations, increasing legal action and litigation claims, technology disruption and transformation, shifts in supply and demand, and changing consumer and employee expectations related to climate change.

Corporate and sovereign issuers may be directly and indirectly affected by both the physical and transition impacts of climate change (Figure 2). Depending on the issuer, this may impact profitability, the value of their financial assets, and productivity. Climate change may also impact economic growth, prices and inflation, employment and labour productivity, trade flows, debt, and financial stability within the economies and societies within which issuers and investors operate.

Investors are indirectly affected by climate change – through their investments and exposure to economies and markets more broadly. Portfolio exposure to issuers across global markets and asset classes may result in the mispricing of assets, asset stranding, and credit default risks. This in turn can lead to an increase in volatility and uncertainty in markets, which may positively or negatively impact long-term risk-adjusted returns.

**Figure 2: Description of climate risks and opportunities**



## Asset classes and time horizon

The most significant and material risks of climate change are expected to appear at the end of the decade and beyond. These include the policy, technology, and market impacts that drive the transition to a low-carbon economy, and the acute and chronic physical impacts that drive the need to adapt and build resilience to a changing climate. As investors and fiduciaries of our clients' assets, we actively consider how climate-related risks and opportunities impact equity, fixed income, and real assets in our portfolios.

Our principal duty is to maximize investment returns for our clients without undue risk of loss. We do this within the investment limits described in each investment mandate. The majority of our mandates follow a medium to long-term time horizon. As such, this is the investment time horizon we generally consider in our investment activities and processes. However, we recognize that the physical impacts of climate change are currently being felt in some geographies, resulting in more short-term impacts. In addition, governments are implementing more stringent regulatory requirements (e.g., carbon pricing, pollution reduction), that may result in policy and market impacts for some sectors and geographies in the short term (see Figure 3).



**Equities:** As equity investors, we are concerned about the value of businesses in which we invest and therefore consider relevant climate-related risks and opportunities to determine if they have been priced into an issuer's valuation. Corporate issuers in all sectors and geographies may be impacted by climate change, although in different ways. Within sectors, it is a company's business model, strategy, the geographic location of its assets, and the quality of its corporate governance that will ultimately determine the size and impact of climate change on its profits and valuation.



**Fixed income:** Debt issuers' credit risk ratings and ability to pay their debts may also be affected by climate change. The impact of climate change on fixed income securities depends on the nature of the issuer (corporate versus sovereign), the nature of the security, and the time horizon of the investment. While in the short to medium term, climate change is unlikely to impact most fixed income securities, in the long term it will likely affect all issuers to some degree.



**Real assets:** The effects of climate change on real assets is primarily due to physical impacts and therefore depends in large part on the geographic location of these assets. Acute and chronic physical risks, like flooding, hurricanes, and rising sea levels, are typically the biggest climate risks for real assets, with both the damage to physical assets and loss of income generated from these assets posing risks to real estate and mortgage investors. A longer term concern includes potential cost increases due to higher energy and water costs and related upgrades that may be required to adapt to new policy requirements and physical climate conditions.

**Figure 3: Time horizon of potential climate impact by asset class**

| Material climate impact drivers | Equities | Fixed income | Real assets |
|---------------------------------|----------|--------------|-------------|
| <b>Transition impacts (+/-)</b> |          |              |             |
| Policy                          | ST-MT    | MT-LT        | MT-LT       |
| Technology                      | MT-LT    | MT-LT        | MT-LT       |
| Markets                         | ST-MT    | ST-MT        | MT-LT       |
| <b>Physical impacts (+/-)</b>   |          |              |             |
| Acute events                    | ST-MT    | MT-LT        | ST-MT       |
| Chronic impacts                 | MT-LT    | MT-LT        | ST-MT       |

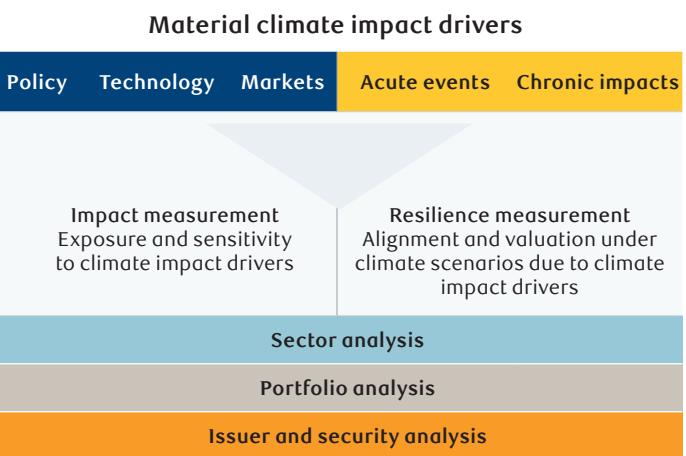
ST = 0-1 year; MT = 1-5 years; LT = 5-15 years

## Assessment process

While all climate impact drivers may be material to certain sectors or asset classes, our approach to assessing climate-related risks and opportunities focuses specifically on key transition impact drivers (policy, technology, markets) and physical impact drivers (acute events, chronic impacts). We assess both the impact of, and resilience to material climate risk drivers at a sector, portfolio, issuer, and security level. This methodology combines both a top-down and bottom-up approach to climate analysis that aims to provide a comprehensive view of the impact of climate-related risks and opportunities on investments today and under future climate scenarios. The following sections describe this approach and key outputs of our assessment.

The portfolio assessment included in this report represents 48% (US\$206.4 billion)<sup>7</sup> of RBC GAM total AUM. This includes the following portfolios: Canadian equities, U.S. equities, Emerging Market equities, International equities, Canadian corporate bonds, and U.S. corporate bonds. Portfolios represent an aggregation of assets under management, by asset type and issuer country of domicile. Each portfolio is compared to a representative benchmark.<sup>8</sup> Assets that are not included in the portfolio analysis, in order of contribution, are: government bonds, cash and equivalents, other bonds, ETFs or mutual funds, mortgages, asset-backed securities, other equities (mainly real estate and money market assets), private placements, and derivatives. These assets are primarily excluded from this analysis due to limitations in data availability, applicability of methodologies, and/or small

**Figure 4: Overview of assessment process**



financial materiality to the overall AUM. Moving forward we will seek to expand the scope of our analysis to cover a greater percentage of overall AUM where possible. All metrics included in this report are as of December 31st, 2020.

## 2.2 Impact of climate risks and opportunities

RBC GAM measures climate impact drivers at a sector, portfolio, and issuer and security level in order to evaluate the contribution, exposure, and sensitivity to material climate-related risks and opportunities at each scope of analysis. In 2020, RBC GAM calculated the metrics described in the table below to assess climate impacts. Key climate metrics referenced in Figure 5 are disclosed in Section 4.1 (Climate-related metrics).

**Figure 5: Key climate metrics used to measure climate impact:**

| Metric   | Key question  | What is measured   | Scope of analysis |           |                   |
|--|---|--|-------------------|-----------|-------------------|
|  |   |  | Sector            | Portfolio | Issuer & Security |
| MEASURE IMPACT: Exposure and sensitivity to climate impact drivers |   |  |                   |           |                   |
| Carbon footprint   | How efficient is the sector, portfolio or issuer & security at managing its contribution to carbon emissions? | Carbon emissions per millions of dollars invested                    | ✓                 | ✓         | ✓                 |
|  |   | Weighted average carbon intensity by sales                           | ✓                 | ✓         | ✓                 |
|  |   | Weighted average carbon intensity by enterprise value including cash | ✓                 | ✓         | ✓                 |
| Transition risk  | How exposed is the sector, portfolio or issuer & security to low-carbon transition risk?                      | Low-carbon transition risk (score, category)                         | ✓                 | ✓         | ✓                 |
| Transition opportunity   | How exposed is the sector, portfolio or issuer & security to low-carbon transition opportunity?               | Low-carbon patents (number and score)                                | ✓                 | ✓         | ✓                 |

✓ Internal    ✅ Climate metric provided in external disclosure (RBC GAM TCFD Report 2020)

<sup>7</sup> Portfolio analysis excludes BlueBay Asset Management LLP

<sup>8</sup> Benchmarks used throughout the report: Canadian equities (S&P/TSX Capped Composite Index), U.S. equities (S&P 500 Index), Emerging Market equities (MSCI Emerging Markets (EM) Index), and International equities (MSCI Europe, Australasia, Far East (EAFE) Index), Canadian Corporate Bonds (FTSE Canada Universe Bond Index, corporates only), U.S. Corporate Bonds (ICE BofA U.S. Corporate Master Index).

## Portfolio assessment

Our investment teams integrate material climate-related risks and opportunities in their investment processes. This includes access to reports on the carbon footprint of our core equity and fixed income portfolios, and representative benchmarks.

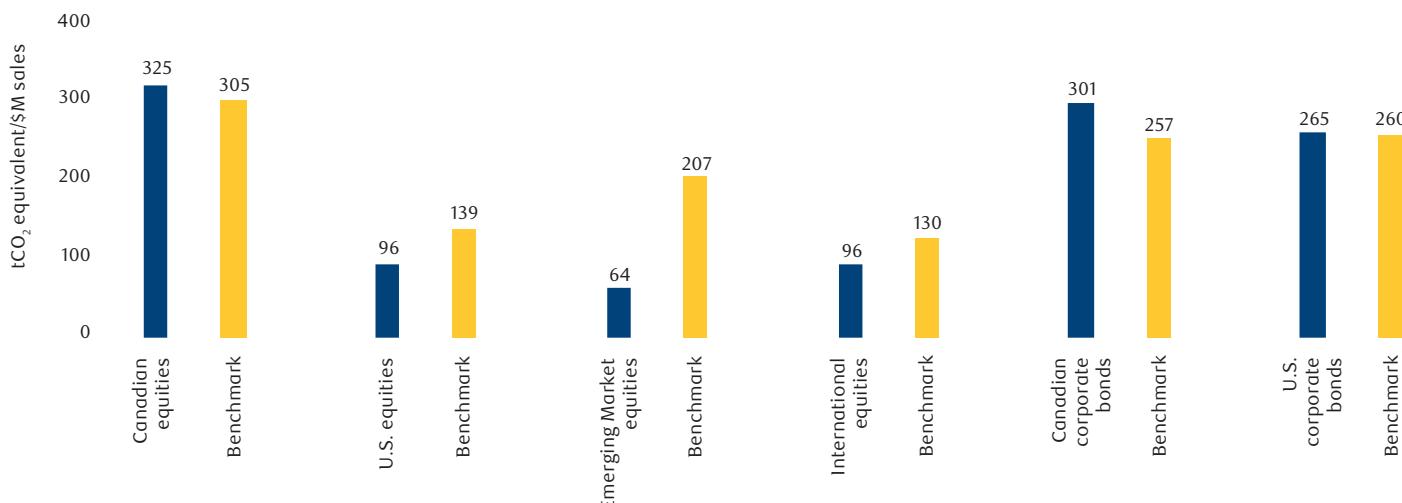
A carbon footprint is measured by the weighted average carbon intensity in tonnes of CO<sub>2</sub> equivalent per million dollars in sales (tCO<sub>2</sub>eq./\$M Sales). Data quality is of utmost importance and our preference is to use reported emissions data, calculated in line with the GHG Protocol, and collected from a verified third-party data provider. Where reported data is not available, we use estimated data, calculated using physical activity-based emissions (e.g. megawatt hours by fuel type) and economic activity-based emissions (e.g. sector average tCO<sub>2</sub>eq./revenue).<sup>9</sup> See Figure 6<sup>10</sup> for the weighted average carbon intensity of our portfolios versus benchmarks, and Figure 7<sup>11</sup> for the breakdown of reported versus estimated emissions, by portfolio and benchmark.

Our carbon footprint analysis consists of Scope 1 and 2 emissions. Since Scope 1 emissions come from the operations of a company, these are in large part determined by the activities or sector of companies. Scope 1 emissions are therefore largely driven by the sector weight of the portfolio. Since Scope 2 emissions come from the purchase of electricity by companies, this will in large part be

determined by the carbon intensity of the electricity grid of the company's operating region. For example, 81% of electricity in Canada comes from low-carbon sources, as compared to 37% in the United States, 32% in China, and 23% in India.<sup>12</sup> When evaluating a portfolio carbon footprint that is inclusive of Scope 1 and 2 emissions, both the sector weight and geographic location of company operations are important factors driving the weighted average carbon intensity (See Figure 8<sup>13</sup>).

Carbon footprint metrics provide a view on the GHG emissions of a portfolio, and may be an indicator of potential policy and technology risk. While this is a useful metric, it is also limited as it is both static and backwards-looking. It is for this reason that our investment teams make decisions on a case-by-case basis and where material may take into consideration other climate-related factors. This may include a company's investments in low-carbon technology, green revenue contribution, climate targets, executive oversight and governance, and forward-looking metrics such as climate value at risk and temperature alignment. Our investment teams also use stewardship activities, such as engagement and proxy voting, to motivate companies to implement strategies and take actions that enable climate mitigation and adaptation.

**Figure 6: Weighted average carbon intensity**



<sup>9</sup> MSCI ESG Climate Change Metrics, December 2019, MSCI®

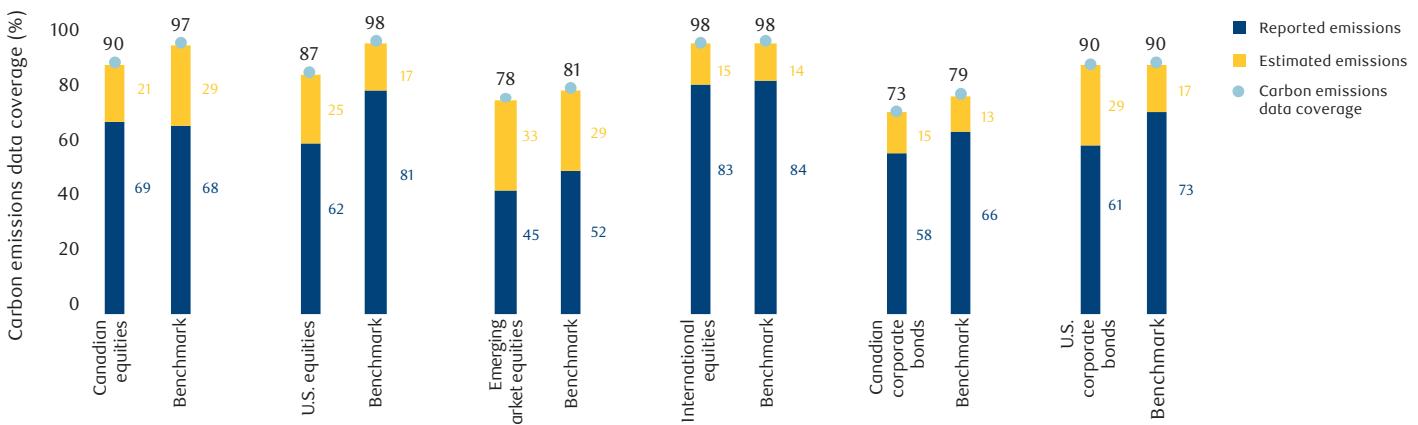
<sup>10</sup> The portfolio assessment and disclosure does not include BlueBay Asset Management LLP. All carbon emissions data, including reported versus estimated data is as at December 31, 2020 and sourced from MSCI®. Certain information © 2021 MSCI ESG Research LLC. Reproduced by permission.

<sup>11</sup> Ibid.

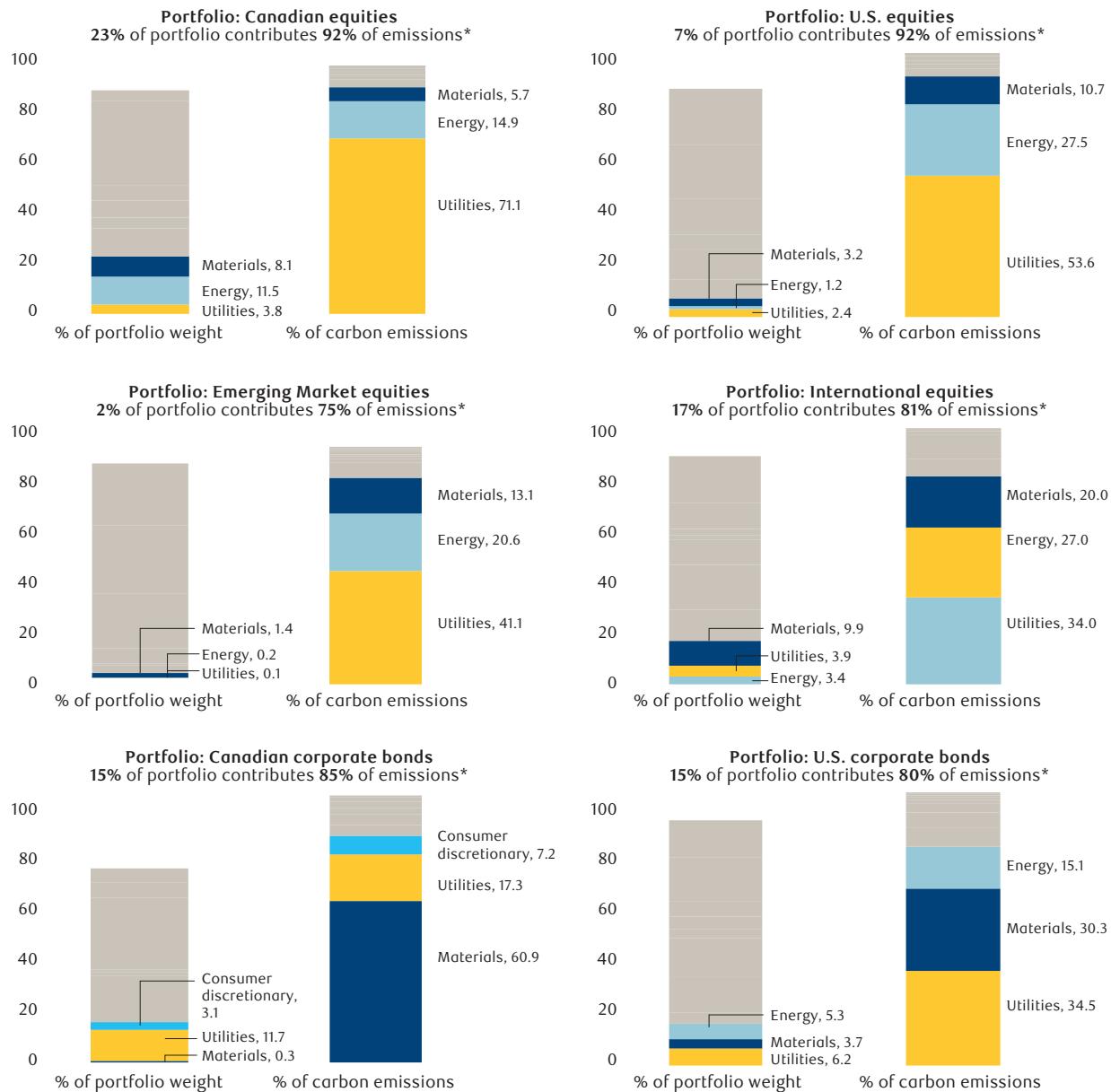
<sup>12</sup> [Electricity mix, data as at 2019, Our World in Data](#). Low-carbon electricity is the sum of electricity from nuclear and renewable sources (including solar, wind, hydropower, biomass and waste, geothermal and wave and tidal).

<sup>13</sup> The portfolio-level analysis and disclosure does not include BlueBay Asset Management LLP. All carbon emissions data is as at December 31, 2020 and sourced from MSCI®. Certain information © 2021 MSCI ESG Research LLC. Reproduced by permission.

**Figure 7: Reported vs. estimated emissions (includes Scope 1 and 2 emissions)**



**Figure 8: Sector contribution to portfolio carbon emissions**



\* Values are based on top three sectors contributing to the percentage of carbon emissions (includes Scope 1 and 2)

### 2.3 Resilience to climate risks and opportunities

The factors that drive the transition to a low-carbon economy and the physical impacts of climate change are fairly well understood. However, the way these factors will play out over time, at what speed and scale, and society's response are less certain. Climate scenario analysis enables the assessment of how a company or portfolio will perform under a range of possible future scenarios. Climate models enable the assessment of the manner with which different systems (e.g. economy, energy, land use, climate) interact, and allows investors to explore cascading effects.

RBC GAM is committed to conducting climate scenario analysis to evaluate the resilience of our investments, and where material, to integrate insights into our investment processes. In 2020, this analysis included the calculation of climate value at risk (Climate VaR) and temperature alignment (Warming Potential) at a sector, portfolio, and issuer and security level.<sup>14</sup> Both of these metrics are being considered by the TCFD as recommended disclosures for financial institutions.<sup>15</sup> Key climate metrics referenced in Figure 9 are disclosed in Section 4.1 (Climate-related metrics).

**Figure 9: Key climate metrics for measuring climate resilience**

| Metric   | Key question   | What is measured   | Scope of analysis |           |                   |
|--|--|--|-------------------|-----------|-------------------|
| MEASURE RESILIENCE: Alignment and valuation under climate scenarios, due to climate impact drivers |  |  | Sector            | Portfolio | Issuer & Security |
| Climate Value at Risk (Climate VaR)  | How might market value change under different climate scenarios? What factors drive that change? | Aggregate Climate VaR (%) by scenario  | ✓                 | ✓         | ✓                 |
|  |  | Climate VaR contribution from policy risk, technology opportunity, physical risk and opportunity | ✓                 | ✓         | ✓                 |
| Temperature alignment  | What temperature increase does the sector, portfolio or issuer & security align to?              | Warming Potential (°C)   | ✓                 | ✓         | ✓                 |

✓ Internal    ✓ Metric provided in external disclosure (RBC GAM TCFD Report 2020)

#### Description of Climate VaR

Climate VaR<sup>16</sup> is a proprietary metric developed by MSCI® that computes scenario-, company-, and security-level estimates of future costs and revenues due to key climate impact drivers (policy risk, technology opportunities, physical risks and opportunities) under transition and physical climate scenarios (Figure 10). Financial modelling is then used to derive valuation impacts, expressed as a percentage change in valuation due to climate change.

The aggregated Climate VaR consists of three component parts, as described below:

- **Policy risk Climate VaR** quantifies, at a security level, the potential cost of complying with government climate policies in order to achieve the GHG emission reductions required, for each climate scenario.
- **Technology opportunity Climate VaR** quantifies, at a security level, the potential profit derived from low-carbon revenues and low-carbon technologies, for each climate scenario.
- **Physical risk and opportunity Climate VaR** quantifies the impact, at a security level, of chronic and acute risks, for each scenario. These risks manifest in an increase (risk) or decrease (opportunity) in business interruptions or asset damages.

**Figure 10: Description of Climate VaR methodology**

| Aggregated Climate VaR = |   | Transition risks and opportunities   | + Physical risks and opportunities   |
|--------------------------|---|--|--|
| Climate metric           | Policy risk Climate VaR   | Technology opportunity Climate VaR   | Physical risk and opportunity Climate VaR  |
| Climate impact driver    | Policy  | Technology   | Acute events   Chronic impacts   |
| Modeled inputs           | <ul style="list-style-type: none"> <li>▪ GHG emissions reduction requirements</li> <li>▪ Costs of reduction requirements (based on carbon price)</li> </ul> | <ul style="list-style-type: none"> <li>▪ Advances in low-carbon technology (based on patents)</li> <li>▪ Low-carbon revenue</li> </ul> | <ul style="list-style-type: none"> <li>▪ Business interruption and asset damage due to chronic and acute physical risks</li> </ul> |
| Climate scenarios        | <ul style="list-style-type: none"> <li>✓ 1°C scenario</li> <li>✓ 2°C scenario</li> <li>✓ 3°C scenario</li> </ul>  | <ul style="list-style-type: none"> <li>✓ 1°C scenario</li> <li>✓ 2°C scenario</li> <li>✓ 3°C scenario</li> </ul>                       | <ul style="list-style-type: none"> <li>✓ Business-as-usual (average)</li> <li>✓ Business-as-usual (aggressive)</li> </ul>          |
| Time horizon             | To 2080   | To 2080  | To 2080  |

<sup>14</sup> Detailed methodologies for the calculation of Climate VaR and Warming Potential are available from [MSCI](#).<sup>12</sup>

<sup>15</sup> [TCFD Forward-looking financial sector metrics – Consultation, October 2020](#)

<sup>16</sup> Certain information © 2021 MSCI ESG Research LLC. Reproduced by permission

## Description of climate scenarios and assumptions

Climate scenarios differ based on sector and geographic coverage, temperature target, time horizon, and output variables. The following scenarios and models are used to calculate the Climate VaR:

- Transition impact scenarios:**<sup>17</sup> Our analysis uses data from three Integrated Assessment Models (IAMs) – AIM/CGE, IMAGE, and GCAM<sup>18</sup> – as well as Nationally Determined Contributions (NDCs) established under the Paris Agreement. Baseline narratives regarding population, technology, and economic growth are based on the five Shared Socioeconomic Pathways (SSPs).<sup>19</sup> The impact of policy and technology impacts are modeled for three temperature pathways, 1.5°C, 2°C, and 3°C.

- Physical impact scenarios:** Our analysis uses data from the Intergovernmental Panel on Climate Change (IPCC) Representative Concentration Pathways (RCP). RCP 8.5 is used to assess physical risks and opportunities as it is the highest emissions pathway and represents a business-as-usual (BAU) scenario: high population, relatively slow income growth, modest rates of technological change and energy intensity improvements, and no climate policies. The impact of five chronic risks (extreme heat, extreme cold, extreme precipitation, wind, snowfall) and two acute risks (coastal flooding and tropical cyclones) on business interruptions and asset damages are modeled for an average (~4.3°C) and 95th percentile RCP 8.5 (or BAU) scenario.

**Figure 11: Summary of variables used for transition impact scenarios:**<sup>20</sup>

|  | 1.5°C scenario | 2.0°C scenario | 3.0°C scenario |
|--|----------------|----------------|----------------|
| <b>Population</b>                                  |                |                |                |
| World population peak                              | 2070           | 2070           | 2070           |
| World population in 2100 ('000)                    | 8,990          | 8,990          | 8,890          |
| <b>GDP</b>   |                |                |                |
| Real GDP growth 2010-2100 (CAGR)                   | 2.3%           | 2.3%           | 2.3%           |
| <b>Electricity generation by fuel source</b>       |                |                |                |
| <b>2030 Fuel mix</b>                               |                |                |                |
| % renewables                                       | 55%            | 50%            | 30%            |
| % nuclear  | 17%            | 18%            | 18%            |
| % natural gas                                      | 18%            | 20%            | 21%            |
| % coal   | 9%             | 12%            | 31%            |
| <b>2050 fuel mix</b>                               |                |                |                |
| % renewables                                       | 85%            | 73%            | 50%            |
| % nuclear  | 9%             | 8%             | 15%            |
| % natural gas                                      | 5%             | 12%            | 15%            |
| % coal   | 1%             | 7%             | 20%            |
| <b>Low-carbon fuel sources in transport</b>        |                |                |                |
| Low-carbon fuel sources (%) in 2050                | 20.90%         | 7.60%          | 4.40%          |
| <b>Carbon sequestration (Mt CO<sub>2</sub>/yr)</b> |                |                |                |
| Uptake (surpasses 5,000 Mt/yr)                     | 2040           | 2040           | 2055           |
| Carbon sequestration peak (Mt/yr)                  | 19,234         | 22,515         | 12,311         |
| <b>Carbon price</b>                                |                |                |                |
| USD per tons of CO <sub>2</sub> eq. (2033)         | 700            | 500            | 100            |
| <b>GHG emissions</b>                               |                |                |                |
| Peak year  | 2020           | 2020           | 2020           |
| 90% reduction achieved by                          | 2045           | 2090           | N/A            |
| Zero emissions achieved by                         | 2055           | N/A            | N/A            |
| Annual change (2020-2030) (CAGR)                   | -7.1%          | -5.9%          | -0.4%          |
| Annual change (2020-2050) (CAGR)                   | -9.7%          | -4.8%          | -0.8%          |
| <b>Global warming temperature</b>                  |                |                |                |
| Temperature in 2100                                | 1.30°C         | 1.62°C         | 2.78°C         |

<sup>17</sup> Huppmann et al., 2018. IAMC 1.5°C Scenario Explorer and Data hosted by IIASA. Integrated Assessment Modeling Consortium & International Institute for Applied Systems Analysis. Doi: <https://doi.org/10.22022/SR15/08-2018.15429>

<sup>18</sup> AIM/CGE (Asia-Pacific Integrated Assessment/Computable General Equilibrium), IMAGE (Integrated Model to Assess the Global Environment), GCAM (Global Change Assessment Model). IAMC wiki. June 2018. IAMC Documentation. [https://www.iamcdocumentation.eu/index.php?title=IAMC\\_wiki&oldid=7840](https://www.iamcdocumentation.eu/index.php?title=IAMC_wiki&oldid=7840)

<sup>19</sup> Riahi et al., The Shared Socioeconomic Pathways and their energy, land use, and greenhouse gas emissions implications: An overview, Global Environmental Change, Volume 42, 2017, Pages 153-168, ISSN 0959-3780, <https://doi.org/10.1016/j.gloenvcha.2016.05.009>

<sup>20</sup> Based on AIM/CGE model.

## Portfolio assessment

Climate VaR is a downside risk indicator that determines the potential maximum drawdown that an asset could experience under a specific climate change scenario. RBC GAM portfolios have a lower aggregate Climate VaR than benchmarks for the majority of RBC GAM equity and fixed income portfolios (Figure 12).<sup>21</sup> As expected, the Climate VaR for all RBC GAM portfolios is greatest under scenarios requiring more significant GHG reductions, such as a 1.5°C scenario. Canadian equities in the 2°C scenario is the only equity portfolio that does not outperform the benchmark. Deeper analysis shows that this is due to a slightly lower contribution of the Technology opportunity Climate VaR as compared to the benchmark (0.58% for the portfolio versus 0.70% for the benchmark). A similar analysis for U.S. corporate bonds shows that a higher contribution of Policy risk Climate VaR is driving the differential between the portfolio and benchmark for this asset class. For example, in the 2°C scenario, the U.S. corporate bonds Policy Climate VaR is -8.53% vs. -8.49% for the benchmark.

Sector sensitivity analysis is an important element of the assessment process, since the type, nature and materiality of climate impacts vary by sector and geography. Sector materiality is determined based on quantitative assessment

of key impact drivers, and informed by third-party standards and frameworks such as the Sustainability Accounting Standards Board (SASB) Materiality Map® and the TCFD guidance on sectors most affected by climate change.<sup>22</sup> Sector sensitivity and materiality is considered by investment teams as part of their investment decision-making process and in direct engagements with companies.

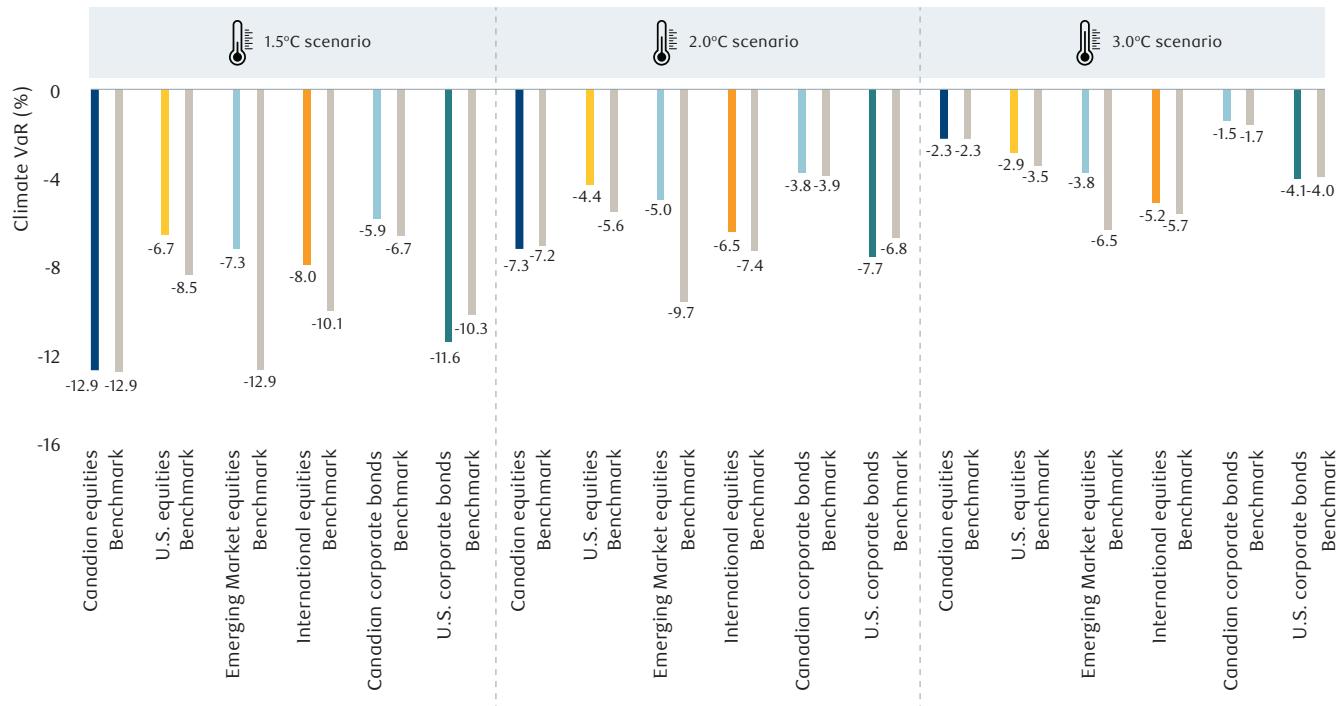
Assessment of the sector contribution to portfolio Climate VaR (Figure 13)<sup>23</sup> demonstrates the relative impact of each sector to this value. While carbon-intensive sectors such as Energy, Materials, Utilities, and Industrials are the main contributors to Climate VaR across portfolios, it is also evident that a broader set of sectors are important contributors to the overall Climate VaR. This demonstrates the importance of actions by companies across all sectors, not just those in carbon-intensive sectors, to effectively manage policy risks, technology opportunities and the physical risks and opportunities of climate change. This also emphasizes the importance of looking at a suite of climate metrics and the underlying factors in order to identify areas of potential risk and opportunity. It is for this reason that our investment teams assess a range of climate-related metrics and factors as part of their decision-making process.

<sup>21</sup> The portfolio assessment and disclosure does not include BlueBay Asset Management LLP. All Climate VaR data is as at December 31, 2020 and sourced from MSCI®. Certain information © 2021 MSCI ESG Research LLC. Reproduced by permission.

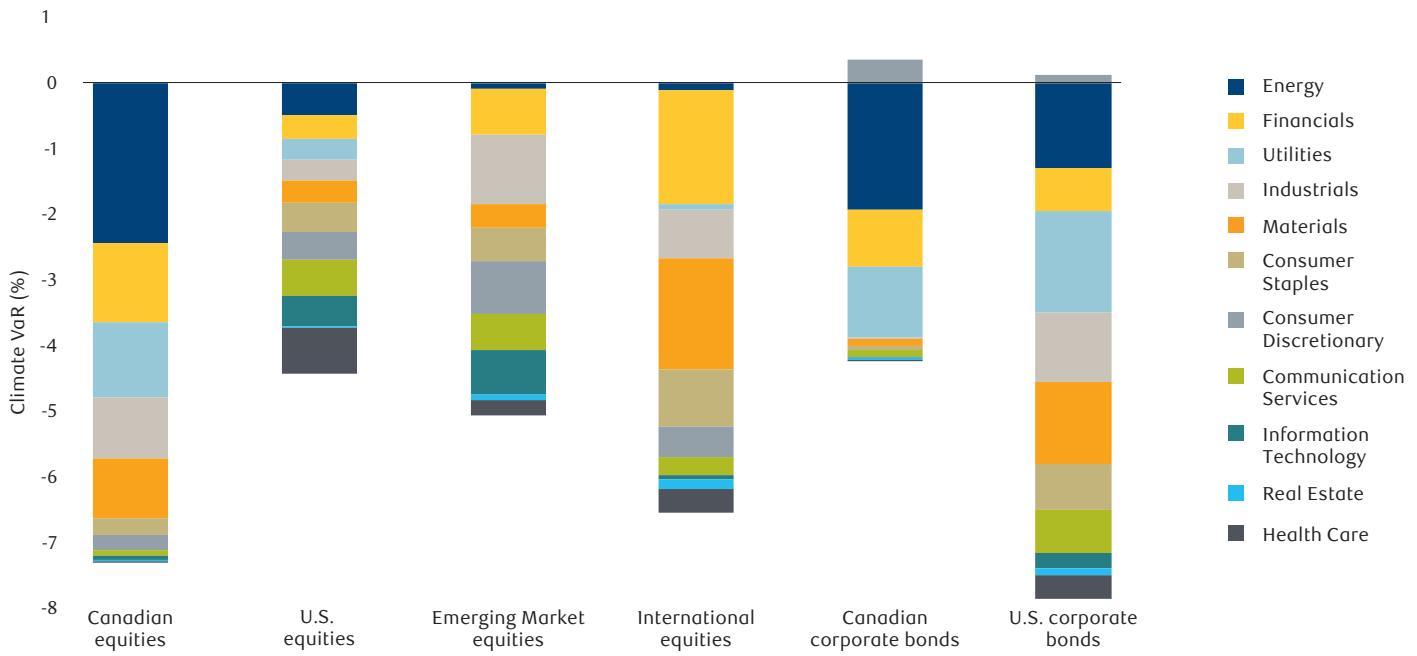
<sup>22</sup> [Implementing the Recommendations of the Task Force on Climate-related Financial Disclosures \(TCFD\), June 2017](#)

<sup>23</sup> The portfolio assessment and disclosure does not include BlueBay Asset Management LLP. All Climate VaR data is as at December 31, 2020 and sourced from MSCI®. Certain information © 2021 MSCI ESG Research LLC. Reproduced by permission.

**Figure 12: Aggregate Climate VaR, by scenario**



**Figure 13: Sector contribution to Aggregate Climate VaR, 2°C scenario**

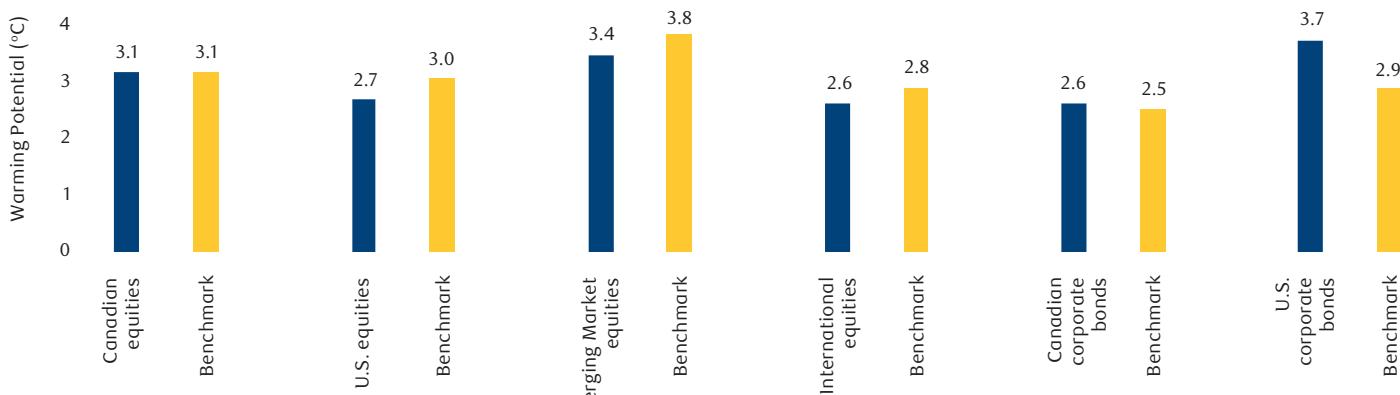


## Description of temperature alignment

Temperature alignment is measured using the MSCI® Warming Potential metric.<sup>24</sup> This metric provides an indication of how a company's business activities align to global temperature pathways. The Warming Potential allows investors to compare sectors, portfolios and issuers or securities against specific temperature goals, such as the Paris Agreement's objectives of limiting global warming to well-below 2°C. At a company level, the Warming Potential is calculated by considering the temperature alignment of Scope 1 (direct emissions), and Scope 2 (indirect emissions from the generation of purchased energy) emissions. Company-specific reduction targets for each scope of emissions are included in the calculation of this metric.

For all portfolios assessed, the Warming Potential is well below a business-as-usual temperature alignment (~4.3°C as per RCP 8.5), and in most cases represents a lower temperature alignment than the representative benchmark (Figure 14).<sup>25</sup> The calculation of this metric is complex however, and challenged by limitations in data availability, dependence on model assumptions for forward-looking modeling, and the scope of climate factors considered. For example, a company's indirect emissions from its value chain and product use, business model, governance oversight and other factors are not currently captured. As such, the Warming Potential metric should be considered as a directional indicator, which investment teams use to inform additional analysis and decision-making. Methodologies for calculating temperature alignment are still in development, and will continue to evolve over the coming years.

**Figure 14: Warming Potential (°C) (includes Scope 1 and 2 emissions)**



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<sup>25</sup> The portfolio assessment and disclosure does not include BlueBay Asset Management LLP. All Warming Potential data is as at December 31, 2020 and sourced from MSCI®. Certain information © 2021 MSCI ESG Research LLC. Reproduced by permission.



## 3. Risk Management

Disclose how the organization identifies, assesses, and manages climate-related risks.

### 3.1 Identification and assessment of climate risks

Climate change is a systemic risk that has the potential to affect the global economy. It is also a cross-cutting risk that may both impact and amplify other principal risk types, such as investment risk and operational risk. The impact of climate change on specific markets, regions, and investments are complex, varied, and uncertain. Risks are deemed material if they have the potential to impact the risk-adjusted returns of our investments.

RBC GAM is primarily exposed to climate risk through emerging regulatory and legal requirements, impacts on long-term risk-adjusted returns, the products and services we deliver to our clients, and disruptions to our operations. These are described in more detail below, along with the actions we take to mitigate those risks:

| Risk type                     | Description of risk  | Time horizon* | Actions to mitigate risk   |
|-------------------------------|--|---------------|--|
| Regulatory compliance risks   | <b>Emerging regulatory and legal requirements</b><br>Climate change regulations, frameworks, and guidance that apply to asset managers and issuers are rapidly evolving across multiple jurisdictions.   | MT            | We monitor and evaluate regulations and formal requirements as they evolve, and update our processes and disclosures as necessary.   |
| Investment risk               | <b>Long-term risk-adjusted returns</b><br>Climate change may impact the balance sheets, valuation, and credit rating of corporate and sovereign issuers. This may result in a potential mispricing of assets, asset stranding, credit default risks, and increase volatility and uncertainty in markets over time, with (positive or negative) effects on long-term risk-adjusted returns. | MT-LT         | We integrate material climate change considerations into our investment processes. This includes conducting in-depth climate analytics and scenario analysis at a firm level and for our core funds.<br>We actively engage with investee companies and sovereigns on climate change and convey our views through thoughtful proxy voting.                          |
| Strategic and reputation risk | <b>Products and services</b><br>Client interest in responsible investment and climate change continue to grow. <sup>26</sup> There is continuing demand for a variety of products and services to meet client needs, and potential reputation risk associated with not meeting client expectations.  | MT            | All investment teams consider climate risks and opportunities in their portfolios, where material. In addition, we provide fossil-fuel free and impact strategies in some geographies to meet the investment needs of clients.<br>We work with clients to conceive, innovate, and implement climate-based solutions that consider a range of strategic objectives. |

<sup>26</sup> RBC GAM 2020 Responsible Investment Survey

| Risk type        | Description of risk  | Time horizon* | Actions to mitigate risk   |
|------------------|--|---------------|--|
| Operational risk | <b>Disruptions to our operations and services</b><br>Increasing frequency and intensity of extreme weather events may disrupt operations and services at a regional level. | ST-MT         | We have a robust business continuity management plan to respond to disruptions when they arise. Continuity plans for critical business processes and supporting systems are tested annually.<br>The properties we lease or own are managed by RBC Corporate Real Estate, the function responsible for identifying properties that require enhanced facility infrastructure to mitigate site disruptions, such as those caused by extreme weather events. In addition, steps are taken to mitigate and adapt to climate change through building design. <sup>27</sup> |

\*ST = 0-1 years, MT= 1-3 years, LT = 5-15 years

### 3.2 Management of climate risks

We manage climate-related investment risk by: integrating material ESG factors into our investment processes, taking an active stewardship approach, and providing client-driven solutions and reporting.

#### Fully integrated ESG

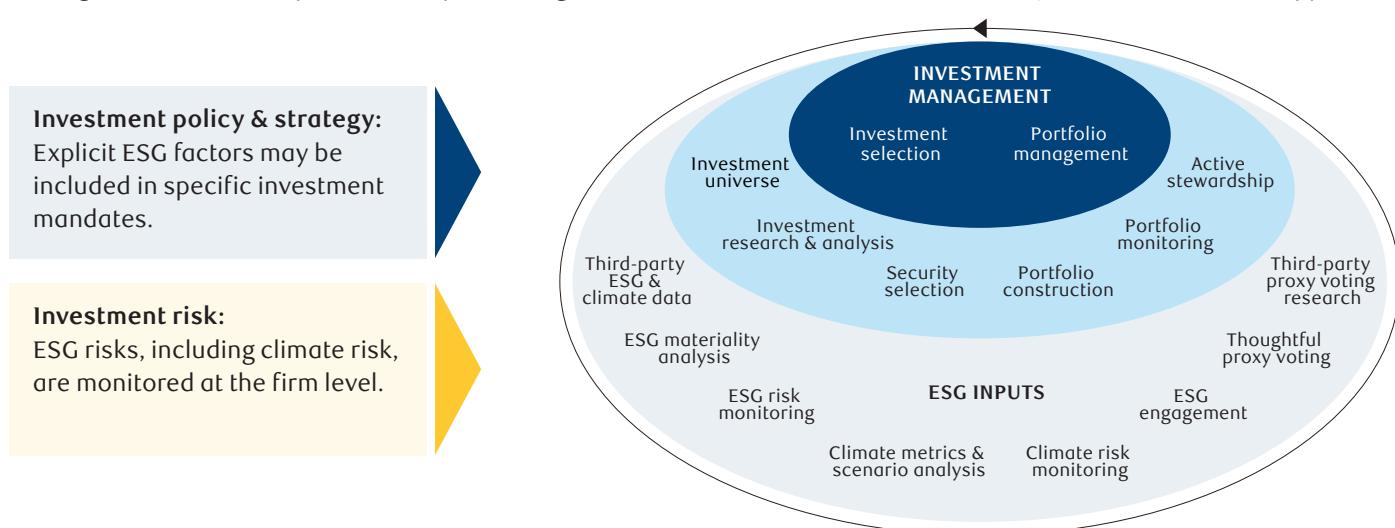
We believe that issuers that manage their material ESG risks and opportunities effectively are more likely to outperform on a risk-adjusted basis, over the long term. Our investment teams prioritize ESG factors that are considered to be most material to each investment decision. The extent to which an ESG factor is considered material depends on the issuer, the industries and geographies in which it operates, and the nature of the investment vehicle for which it is purchased. Each investment team has its own process for integrating ESG factors and for determining materiality, drawing from tools like the SASB materiality matrix and both internal and external research and expertise. Investment teams receive input from the Corporate Governance and Responsible Investment team on their process, and the quality of their process is rated and audited on an annual basis. The CIO

reviews the quality of each investment team's ESG integration process on an annual basis.

All investment teams consider climate change in their investment decision-making processes (Figure 15). In order to build climate expertise across and within investment teams, dedicated training and knowledge sessions on climate change are provided to all investment teams. These include a regular Climate Education Series that focuses on current and emerging best practices on climate-related topics. All global investment teams also have access to robust and comprehensive climate data at an issuer and portfolio level. Climate data covers: carbon emissions (Scope 1, 2, and 3), low-carbon transition risk exposure and management, low-carbon patents, carbon reduction targets, executive oversight of environmental strategy, and revenue breakdowns from sustainable and carbon-related sources, among other factors. Investment teams assess and monitor climate-related risks and opportunities on an ongoing basis, and receive a quarterly climate risk monitoring report that provides in-depth climate analysis and scenario analysis for their core strategies.

**Figure 15: ESG integration in our investment process**

This diagram illustrates how material ESG factors and responsible investment activities contribute to our overall decision-making in our investment process, complementing our investment teams' fundamental and systematic investment approaches.



<sup>27</sup> Royal Bank of Canada Annual Report 2020, page 96

## Active stewardship

Active stewardship is a core pillar of our approach to responsible investment and a means of requesting better disclosure on how corporate and sovereign issuers are addressing climate mitigation and adaptation. We convey our views on climate change through proxy voting, engagement and collaboration with other like-minded investors.

### Proxy voting

We conduct thoughtful proxy voting on climate-related shareholder proposals, in line with our [Proxy Voting Guidelines](#). We generally support proposals requesting that companies adopt or implement initiatives to reduce GHG emissions, and proposals requesting enhanced climate-related disclosures such as those aligned with the TCFD. For a review of our proxy voting activities in 2020, please see our [Semi-Annual Corporate Governance and Responsible Investment Report](#).

### Engagement

We actively engage with companies and regulators, where appropriate, to encourage climate mitigation and adaptation, and report on our activities and outcomes. In 2020, our investment teams completed 1,200+ engagements that included a significant focus on ESG factors, including climate change.<sup>30</sup> We also work collaboratively with other investors through initiatives such as Climate Action 100+, to share our views and discuss the risks and opportunities of climate change with the boards and management of the companies in which we invest on behalf of our clients.

### Collaboration and advocacy<sup>31</sup>



#### UN Principles for Responsible Investment (PRI)

RBC GAM is a signatory to the PRI since 2015. BlueBay Asset Management has been a signature to the PRI since 2013. The PRI is a United Nations-supported network of investors, works to promote sustainable investment through the incorporation of environmental, social, and governance factors.



#### Climate Action 100+

RBC GAM is a signatory to the Climate Action 100+ since 2020. Climate Action 100+ is an investor-led initiative that engages with the largest global GHG emitters (167 focus companies in total) with the objective of seeking action on climate change. As a signatory to Climate Action 100+, in 2020 RBC GAM participated in four engagements. The purpose of these engagements is to encourage companies to take actions to reduce GHG emissions, improve governance oversight of climate change, and enhance climate-related disclosures.

Please see the [RBC GAM Proxy Season Overview 2020](#) for examples of Climate Action 100+ shareholder proposals.



#### Task Force on Climate-Related Financial Disclosures (TCFD)

RBC GAM is a formal supporter of the TCFD since 2020. The TCFD recommendations are a reporting framework that seeks to improve disclosure of climate-related risks and opportunities. We support and encourage TCFD disclosures from issuers and produce our own annual TCFD disclosure, as of 2020.



#### Responsible Investment Association (RIA)

RBC GAM is a sustaining member of the Responsible Investment Association (RIA) since 2003 and participates on the Board of Directors, and is the Chair of the Governance Policy Committee. The RIA is Canada's industry association for responsible investment.



#### Canadian Coalition for Good Governance (CCGG)

RBC GAM is a member of Canadian Coalition for Good Governance (CCGG) since 2003. CCGG represents institutional investors and promotes good governance practices in Canadian public companies. In 2020, the Head of CGRI served as a member of the Policy Committee, and another member of the CGRI team joined the Environmental and Social Committee.



#### International Corporate Governance Network (ICGN)

RBC GAM is a member of the International Corporate Governance Network (ICGN) and participates on the Disclosure and Transparency Committee. The ICGN aims to promote effective standards of corporate governance and investor stewardship to advance efficient markets and sustainable economies worldwide.



#### Investor Stewardship Group (ISG)

RBC GAM is a founding member of the ISG and sits on the Board. ISG works to establish a framework of basic standards of investment stewardship for institutional investors and corporate governance principles for U.S. listed companies.

<sup>30</sup> The reported figures may not fully capture all ESG engagements as some may not be included in our tracking systems. Engagements purely on non-ESG factors are excluded.

<sup>31</sup> RBC GAM is a signatory or member of these climate-related initiatives. For a full list of our collaborative initiatives, refer to our website: [www.rbcgam.com/cgri](http://www.rbcgam.com/cgri)

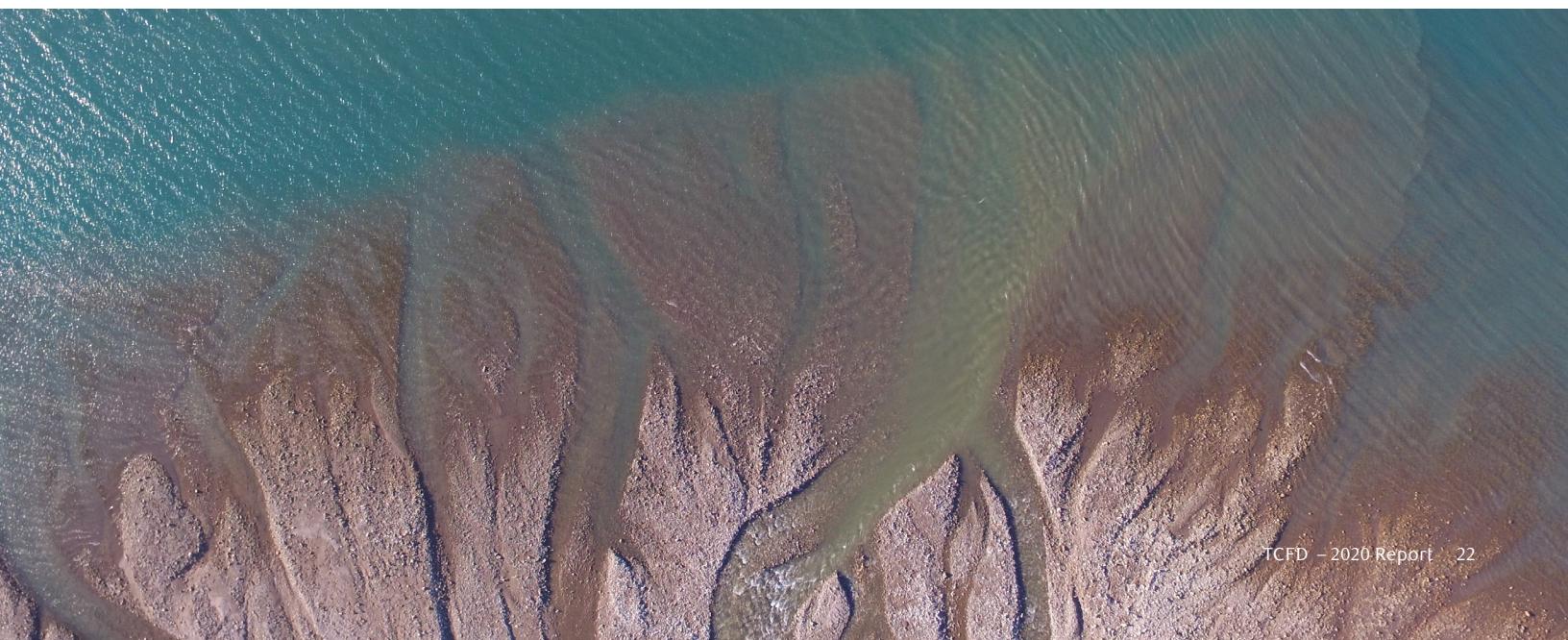
## **Client-driven solutions and reporting**

The transition to a low-carbon economy offers opportunities as well as risks, and we are committed to delivering products and solutions that meet the investment needs of our clients, and to providing transparent and meaningful reporting. Consideration of material climate change factors is integrated by investment teams into all funds. We also provide fossil-fuel free and impact strategies in some geographies, and continue to drive sustainable product development in an agile manner. This includes exploration of products that focus on climate mitigation, climate transition, climate adaptation, and resilience. The drivers and impacts of climate change are multi-faceted and varied; the solutions required to respond to the risks and opportunities it poses must be as well. We continue to share our views on climate-related topics with clients, including publications in 2020 on [Our perspective on stranded assets](#) and [Climate change: active stewardship vs. divestment](#).

## **3.3 Integration of climate risks**

The impact of material climate-related risks on principal risk types is considered as part of our investment risk process, as discussed above, and is integrated into our overall risk management process. The Investment Risk team, which reports into the Chief Investment Officer (CIO), is responsible for measuring risks at both a firm and portfolio level. The GAM Investment Risk Committee (GIRC), chaired by the CIO, is responsible for monitoring the firm's risk profile, including ESG and climate risks when material. Risk appetite is established by the CIO.

The RBC Investment Strategy Committee (RISC) is also chaired by the CIO and reviews assessments of global fiscal and monetary conditions, projected economic growth and inflation, as well as the expected course of interest rates, major currencies, corporate profits, and stock prices. From this global forecast, the Committee develops specific guidelines that can be used to manage portfolios. Where material, this may include ESG risks, including climate change. Results of the Committee's deliberations are published quarterly in [The Global Investment Outlook](#).





## 4. Metrics and Targets

Disclose the metrics and targets used to assess and manage relevant climate-related risks and opportunities.

### 4.1 Climate-related metrics

We recognize that there are multiple disclosure frameworks and that the metrics used to measure climate-related risks and opportunities are still developing, as discussed in the 2020 TCFD consultation on forward-looking financial sector metrics.<sup>32</sup> It is for this reason that we use a suite of current and forward-looking metrics to assess the impact of climate change on portfolios (Figure 20).<sup>33</sup>

We fully support efforts to advance and standardize credible, comprehensive, and comparable approaches to quantifying

the impact of climate change. As a member or signatory to the PRI, TCFD, and SASB we continue to work with experts and investors to advance these efforts and move towards a more standardized approach. This will require action to improve data quality, coverage and comparability; agreement on methodologies and metrics for measuring financial impact of climate change; and the ability to model the complex direct and indirect impacts of climate change on corporate and sovereign issuers, and the economies and markets within which they operate.

**Figure 20: Climate-related metrics**

|                              | Canadian equities  |            | U.S. equities |            | Emerging Market equities |            | International equities |            | Canadian corporate bonds |            | U.S. corporate bonds |            |            |
|------------------------------|--|------------|---------------|------------|--------------------------|------------|------------------------|------------|--------------------------|------------|----------------------|------------|------------|
|                              | Portfolio  | Benchmark  | Portfolio     | Benchmark  | Portfolio                | Benchmark  | Portfolio              | Benchmark  | Portfolio                | Benchmark  | Portfolio            | Benchmark  |            |
| <b>Carbon footprint</b>      | <b>Data coverage</b>   | <b>90%</b> | <b>97%</b>    | <b>87%</b> | <b>98%</b>               | <b>78%</b> | <b>81%</b>             | <b>98%</b> | <b>98%</b>               | <b>73%</b> | <b>79%</b>           | <b>90%</b> | <b>90%</b> |
|                              | Weighted average carbon intensity by sales (tCO <sub>2</sub> eq./\$M sales)                      | 325.00     | 305.31        | 95.89      | 139.21                   | 63.91      | 207.20                 | 95.65      | 129.64                   | 300.85     | 257.38               | 265.43     | 259.95     |
| <b>Climate value at risk</b> | Weighted average carbon intensity by Enterprise Value Including Cash (tCO <sub>2</sub> eq./EVIC) | 85.13      | 77.69         | 27.07      | 37.61                    | 21.68      | 105.79                 | 41.55      | 74.18                    | 72.17      | 56.94                | 62.29      | 51.18      |
|                              | Aggregated Climate VaR, 1.5°C scenario (%)   | -12.88     | -12.94        | -6.68      | -8.45                    | -7.34      | -12.89                 | -8.03      | -10.13                   | -5.94      | -6.74                | -11.55     | -10.34     |
|                              | Aggregated Climate VaR, 2°C scenario (%)   | -7.28      | -7.16         | -4.42      | -5.63                    | -5.03      | -9.74                  | -6.52      | -7.36                    | -3.82      | -3.92                | -7.69      | -6.84      |
| <b>Temperature alignment</b> | Aggregated Climate VaR, 3°C scenario (%)   | -2.29      | -2.27         | -2.92      | -3.53                    | -3.84      | -6.45                  | -5.19      | -5.72                    | -1.45      | -1.65                | -4.06      | -4.02      |
|                              | Warming Potential (°C)   | 3.07       | 3.14          | 2.67       | 3.02                     | 3.44       | 3.79                   | 2.59       | 2.83                     | 2.58       | 2.49                 | 3.69       | 2.86       |

<sup>32</sup> TCFD Forward-looking financial sector metrics – Consultation, October 2020

<sup>33</sup> The climate-related metrics and disclosure does not include BlueBay Asset Management LLP. All data is as at December 31, 2020 and sourced from MSCI®. Certain information © 2021 MSCI ESG Research LLC. Reproduced by permission

## 4.2 Operational GHG emissions

The performance, targets and reporting of operational GHG emissions is established as part of the robust climate change program of RBC.<sup>34</sup> In 2017, RBC became carbon neutral and committed to achieving net-zero carbon emissions in its global operations annually, which includes RBC GAM. This is accomplished through energy and emissions reduction programs in the RBC property network, Information Technology infrastructure, and by sourcing renewable energy credits and high quality carbon offsets to account for emissions that RBC cannot eliminate. The priority is focused on operational efficiency and increasing the amount of renewable energy sourced and produced. RBC aims to be less reliant on carbon offsets over time but understands there is a need for carbon offsets in the short-term for activities such as heating fuel and business travel. As per the [RBC Climate Blueprint](#), this includes two targets: a reduction in absolute GHG emissions by 70% with a baseline year of 2018, and an increase in sourcing of electricity from renewable and non-emitting sources to 100%, both by 2025.

As a signatory to the CDP, RBC has publicly reported climate-related data since 2003, including multi-year data in accordance with the GHG Protocol. RBC receives third-party limited assurance on energy and emissions metrics. RBC GAM's operational GHG emissions are included within RBC disclosure. See the RBC response to the [2020 CDP Questionnaire](#) and [RBC Environment, Social and Governance \(ESG\) Performance Report 2020](#).

## 4.3 Climate-related targets

Our approach to climate change, launched in 2020, describes the commitments and actions we are taking to address climate-related risks and opportunities. We do not set climate-related targets that apply across all of our portfolios, as we track and manage investments in line with investment mandates. Specific investment mandates may include ESG or climate-related factors. In addition, all of our global investment teams integrate material climate-related factors into their investment decision making process. We will continue to assess, monitor, and disclose our approach to climate change, and seek to continuously improve and advance this approach.

<sup>34</sup> See [RBC Climate Blueprint](#)



## Moving forward

RBC GAM believes that considering the financial impacts of climate change in our investment approach can enhance long-term, risk-adjusted returns. We support the principles of the Paris Agreement and recognize the need to achieve a just transition to a low-carbon economy and will continue to advance our capabilities and commitments in line with this need.

As we continue to implement [Our approach to climate change](#), through the course of the coming year we will focus on the following areas:



### **Build climate expertise:**

Continue to build climate expertise and knowledge across investment teams and the Leadership Committee by hosting climate education sessions and sharing case studies and insights.



### **Climate analytics and research insights:**

Enhance the depth and scope of climate research and analysis on material climate factors and impacts within and across portfolios.



### **Standardization of metrics and methodologies:**

Improve the standardization of methodologies of relevant climate metrics through collaborative initiatives.



### **Disclosure and transparency:**

Continue to provide enhanced disclosure of ESG and climate metrics to clients, as requested.



### **Active stewardship:**

Continue to focus on actively engaging with investee companies on material ESG and climate factors, and collaborate and advocate on climate-related issues through industry and investor-led initiatives.

# RBC Global Asset Management

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