

# MSCI Emissions Metrics Report

2021

## Emissions by Scope <sup>(1)(2)</sup>

Scope	Primary (MB) mtons CO2e	Secondary (LB) mtons CO2e
Scope 1	160	160
Scope 2	964	6,480
<b>Total</b>	<b>1,124</b>	<b>6,640</b>

## Scope 3 Emissions by Category <sup>(1)(2)</sup>

Source	mtons CO2e
C1 - Purchased Goods & Services	30,156
C3 - Fuel & Energy-Related Activities	1,878
C5 - Waste generated in operations	202
C6 - Business travel	399
C7 - Employee commuting	1,539
C11 - Use of sold products	3,044
C13 - Downstream leased assets	413
<b>Total</b>	<b>37,631</b>

2020

## Emissions by Scope <sup>(1)(2)</sup>

Scope	Primary (MB) mtons CO2e	Secondary (LB) mtons CO2e
Scope 1	230	230
Scope 2	3,507	7,360
<b>Total</b>	<b>3,737</b>	<b>7,590</b>

## Scope 3 Emissions by Category <sup>(1)(2)</sup>

Source	mtons CO2e
C1 - Purchased Goods & Services	27,349
C3 - Fuel & Energy-Related Activities	1,273
C5 - Waste generated in operations	158
C6 - Business travel	1,499
C7 - Employee commuting	1,506
C11 - Use of sold products	1,938
C13 - Downstream leased assets	417
<b>Total</b>	<b>34,140</b>

2019

**Emissions by Scope** <sup>(1)(2)</sup>

Scope	Primary (MB) mtons CO2e	Secondary (LB) mtons CO2e
Scope 1	272	272
Scope 2	4,196	7,767
<b>Total</b>	<b>4,468</b>	<b>8,039</b>

**Scope 3 Emissions by Category** <sup>(1)(2)</sup>

Source	mtons CO2e
C1 - Purchased Goods & Services	27,762
C3 - Fuel & Energy-Related Activities	609
C5 - Waste generated in operations	676
C6 - Business travel	4,417
C7 - Employee commuting	2,568
C11 - Use of sold products	1,938
C13 - Downstream leased assets	417
<b>Total</b>	<b>38,387</b>

**MSCI 2019-2021 Emissions** <sup>(1)(2)</sup>

Scope	2021	2020	2019	2021 YoY change	2020 YoY change	2019-2021 change
Primary (MB) mtons CO2e	1,124	3,737	4,468	-70%	-16%	-75%
Secondary (LB) mtons CO2e	6,640	7,590	8,039	-13%	-6%	-17%
Scope 3 Total	37,631	34,140	38,387	10%	-11%	-2%

<sup>1</sup> Carbon footprint metrics for 2019, 2020 and 2021 verified with limited assurance. Subsequently, 2019 and 2020 emissions have been re-baselined for the RCA acquisition. They may differ from those previously published due to retroactive recalculations made in accordance with the GHG Protocol. (Greenhouse Gas Protocol A Corporate Accounting and Reporting Standard REVISED EDITION. World Resources Institute. Copyright © World Resources Institute and World Business Council for Sustainable Development, March 2004. Page 35-37). <https://ghgprotocol.org/sites/default/files/standards/ghg-protocol-revised.pdf#page=37>

<sup>2</sup> MB or market-based: A method to quantify the scope 2 GHG emissions of a reporter based on GHG emissions emitted by the generators from which the reporter contractually purchases electricity bundled with contractual instruments, or contractual instruments on their own.

LB or location-based: A method to quantify scope 2 GHG emissions based on average energy generation emission factors for defined geographic locations, including local, subnational, or national boundaries.

Source: GHG Protocol Scope 2 Guidance, An amendment to the GHG Protocol Corporate Standard, World Resource Institute, 2015. Page 26. Scope 2 Guidance\_Final\_Sept26.pdf [https://ghgprotocol.org/sites/default/files/standards/Scope%202020Guidance\\_Final\\_Sept26.pdf](https://ghgprotocol.org/sites/default/files/standards/Scope%202020Guidance_Final_Sept26.pdf)

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