

Climate Metrics Disclosure for Funds Managed and Operated by Manulife Investment Management (Hong Kong) Limited

Introduction

At Manulife Investment Management Hong Kong Limited (“**Manulife IM (HK)**”), we believe that climate change is a systemic risk that may have an imminent and potentially irreversible impact on the global economy, capital markets, and society at large. These impacts will manifest as both risks and opportunities for almost all companies in all industries and therefore must be properly assessed by investors in order to safeguard clients’ assets.

As part of the framework to govern its management of climate-related risks, Manulife IM (HK) monitors sustainability risks and factors relevant and material to an investment including [climate-related risks](#). Portfolio Carbon Footprint is considered to be a meaningful metric in assessing climate-related risks of the funds managed and operated by Manulife IM (HK).

Portfolio Carbon Footprint

Portfolio carbon footprint is a representation of carbon emissions normalised by the portfolio’s market value and expressed in tons of carbon dioxide equivalent emissions (CO₂e) per million dollars invested. Below is the formula for the calculation of portfolio carbon footprint¹:

$$\sum_{i=1}^N \left(\frac{\text{Current value of investment}_i}{\text{Investee company's enterprise value}_i} \times \frac{\text{Investee company's Scope 1 and Scope 2 GHG emissions}_i}{\text{Current portfolio value (\$ million)}} \right)$$

The portfolio carbon footprint of the funds managed and operated by Manulife IM (HK) calculated using the formula above are shown in the tables below.

Further information on Manulife IM (HK)’s approach to sustainability including climate-related risks is accessible at [Sustainability](https://manulifefunds.com.hk/sustainability) (manulifefunds.com.hk).

¹ [Circular to licensed corporations](#)
[Management and disclosure of climate-related risks by fund managers](#)

Portfolio Carbon Footprint of Funds Managed and Operated by Manulife IM (HK)

Fund	Carbon Footprint (tonnes CO2e/million invested (USD))	Data Coverage (%)	Data as of Fiscal Year End
ManuFlex (MIL)			
Aggressive Fund*	104.16	92.06%	31 Dec 2024
Balanced Fund*	104.54	80.14%	31 Dec 2024
Capital Guarantee Fund (HK\$)*	43.46	54.63%	31 Dec 2024
Capital Guarantee Fund (US\$)*	13.89	62.28%	31 Dec 2024
China Value Fund*	55.99	98.15%	31 Dec 2024
European Equity Fund*	12.91	97.63%	31 Dec 2024
Five Year Bond Fund**	N/A	Below 50%	31 Dec 2024
Healthcare Fund*	3.34	96.97%	31 Dec 2024
Hong Kong Equity Fund*	232.43	99.83%	31 Dec 2024
International Bond Fund*	12.81	99.10%	31 Dec 2024
International Equity Fund*	36.03	95.87%	31 Dec 2024
Japan Equity Fund*	26.13	99.19%	31 Dec 2024
JPMorgan Global Bond Fund*	N/A	Below 50%	31 Dec 2024
North American Equity Fund*	19.01	96.04%	31 Dec 2024
Pacific Asian Equity Fund*	129.39	92.70%	31 Dec 2024
Schroder Balanced Investment Fund*	47.30	59.47%	31 Dec 2024
Stable Fund*	100.86	72.85%	31 Dec 2024
Technology Fund*	9.49	100.00%	31 Dec 2024
US Equity Strategic Fund*	8.61	99.72%	31 Dec 2024
Hang Seng Index Tracking Fund**	110.86	99.99%	31 Dec 2024
Manuflex			
Balanced Fund*	104.54	80.14%	31 Dec 2024
Capital Guarantee Fund (HK\$)*	43.46	54.63%	31 Dec 2024
European Equity Fund*	12.91	97.63%	31 Dec 2024
Five Year Bond Fund**	N/A	Below 50%	31 Dec 2024
Hong Kong Equity Fund*	232.43	99.83%	31 Dec 2024
International Bond Fund*	12.81	99.10%	31 Dec 2024
International Equity Fund*	36.03	95.87%	31 Dec 2024
Japan Equity Fund*	26.13	99.19%	31 Dec 2024
North American Equity Fund*	19.01	96.04%	31 Dec 2024
Pacific Asian Equity Fund*	129.39	92.70%	31 Dec 2024
ManuFund (MIL)			
Capital Guarantee Fund (HK\$)*	43.46	54.63%	31 Dec 2024
Manufund			
Capital Guarantee Fund (HK\$)*	43.46	54.63%	31 Dec 2024
Five Year Bond Fund**	N/A	Below 50%	31 Dec 2024
Group Deposit Administration Policy (MIL)			
Capital Guarantee Fund (HK\$)*	43.46	54.63%	31 Dec 2024
International Equity Fund*	36.03	95.87%	31 Dec 2024
Group Deposit Administration Policy			
Capital Guarantee Fund (HK\$)*	43.46	54.63%	31 Dec 2024
Capital Guarantee Fund (US\$)*	13.89	62.28%	31 Dec 2024
Fifteen Year Deposit Fund*	7.59	51.51%	31 Dec 2024

Five Year Bond Fund**‡	N/A	Below 50%	31 Dec 2024
International Equity Fund*	36.03	95.87%	31 Dec 2024
Manulife Investment Trust			
Strategic Income Fund*^‡	N/A	Below 50%	31 Dec 2024
Global Semiconductor Equity Fund*^	22.37	91.35%	31 Dec 2024
Strategic Income Opportunities Fund*^‡	N/A	Below 50%	31 Dec 2024
Global Allocation Fund II*^‡	N/A	Below 50%	31 Dec 2024
US Core Fixed Income Fund*^	66.60	55.96%	31 Dec 2024
Manulife (Macau) Pension Fund Scheme			
Balanced Fund (Macau)*^	98.82	66.67%	31 Dec 2024
Guaranteed Fund (Macau)*^	97.66	55.68%	31 Dec 2024
Healthcare Fund (Macau)*^	23.15	85.12%	31 Dec 2024
HK & China Equity Fund (Macau)*^	195.99	87.68%	31 Dec 2024
Pacific Asia Bond Fund (Macau)*^‡	N/A	Below 50%	31 Dec 2024
Stable Growth Fund (Macau)*^	97.23	55.46%	31 Dec 2024
Manulife Global Select (MPF) Scheme			
Manulife MPF 2025 Retirement Fund*	88.65	80.57%	31 Mar 2024
Manulife MPF 2030 Retirement Fund*	88.32	83.61%	31 Mar 2024
Manulife MPF 2035 Retirement Fund*	87.51	87.57%	31 Mar 2024
Manulife MPF 2040 Retirement Fund*	87.25	93.57%	31 Mar 2024
Manulife MPF 2045 Retirement Fund*	88.60	93.36%	31 Mar 2024
Manulife MPF Age 65 Plus Fund*#	N/A	N/A	31 Mar 2024
Manulife MPF Aggressive Fund*	72.28	89.44%	31 Mar 2024
Manulife MPF China Value Fund*	80.75	98.25%	31 Mar 2024
Manulife MPF Conservative Fund*‡	N/A	Below 50%	31 Mar 2024
Manulife MPF Core Accumulation Fund*#	N/A	N/A	31 Mar 2024
Manulife MPF European Equity Fund*	8.33	96.89%	31 Mar 2024
Manulife MPF Fidelity Growth Fund*	80.10	65.00%	31 Mar 2024
Manulife MPF Fidelity Stable Growth Fund*‡	N/A	Below 50%	31 Mar 2024
Manulife MPF Growth Fund*	73.61	78.58%	31 Mar 2024
Manulife MPF Hang Seng Index ESG Fund**	49.90	100.00%	31 Mar 2024
Manulife MPF Healthcare Fund*	3.31	95.42%	31 Mar 2024
Manulife MPF Hong Kong Bond Fund*	106.69	74.55%	31 Mar 2024
Manulife MPF Hong Kong Equity Fund*	108.20	98.71%	31 Mar 2024
Manulife MPF Interest Fund*	77.39	75.72%	31 Mar 2024
Manulife MPF International Bond Fund*‡	N/A	Below 50%	31 Mar 2024
Manulife MPF International Equity Fund*	47.00	95.32%	31 Mar 2024
Manulife MPF Japan Equity Fund*	34.43	91.61%	31 Mar 2024
Manulife MPF North American Equity Fund*	31.58	98.69%	31 Mar 2024
Manulife MPF Sustainable Pacific Asia Bond Fund*	35.44	66.92%	31 Mar 2024
Manulife MPF Pacific Asia Equity Fund*	165.74	93.86%	31 Mar 2024
Manulife MPF Retirement Income Fund*	87.43	76.28%	31 Mar 2024
Manulife MPF RMB Bond Fund*	39.96	56.30%	31 Mar 2024
Manulife MPF Smart Retirement Fund*	90.43	79.19%	31 Mar 2024
Manulife MPF Stable Fund*	91.67	78.72%	31 Mar 2024
Manulife Provident Fund Unit Trust Series			
Manulife China A Equity Fund*	147.46	93.34%	31 Mar 2024
Manulife China Value Fund*	48.71	98.62%	31 Mar 2024

Manulife China Value Fund Series – (I)*	149.94	96.89%	31 Mar 2024
Manulife China Value Fund Series – (II)*	41.35	99.33%	31 Mar 2024
Manulife Conservative Fund**	N/A	Below 50%	31 Mar 2024
Manulife European Equity Fund*	8.33	97.52%	31 Mar 2024
Manulife European Equity Fund Series – (I)*	58.57	95.76%	31 Mar 2024
Manulife Global Investment Grade Bond Fund*	92.46	86.52%	31 Mar 2024
Manulife Healthcare Fund*	3.46	95.89%	31 Mar 2024
Manulife Healthcare Fund Series – (I)*	2.61	92.38%	31 Mar 2024
Manulife Healthcare Fund Series – (II)*	3.30	96.29%	31 Mar 2024
Manulife Hong Kong Equity Fund*	125.04	98.78%	31 Mar 2024
Manulife Hong Kong Equity Fund Series – (I)*	99.72	96.87%	31 Mar 2024
Manulife Hong Kong Medium Term Bond Fund*	106.69	74.55%	31 Mar 2024
Manulife Hong Kong Short Term Bond Fund*	57.12	74.89%	31 Mar 2024
Manulife International Bond Fund**	N/A	Below 50%	31 Mar 2024
Manulife Japan Equity Fund*	34.43	91.82%	31 Mar 2024
Manulife North American Equity Fund*	19.96	99.02%	31 Mar 2024
Manulife North American Equity Fund Series – (I)*	12.97	99.06%	31 Mar 2024
Manulife North American Equity Fund Series – (II)*	77.76	97.39%	31 Mar 2024
Manulife Sustainable Pacific Asia Bond Fund*	35.44	66.89%	31 Mar 2024
Manulife Pacific Asia Equity Fund*	174.96	93.44%	31 Mar 2024
Manulife RMB Bond Fund*	24.43	53.62%	31 Mar 2024
Manulife Technology Fund*	6.89	99.43%	31 Mar 2024
Insurance Policy			
Interest Fund Policy*	76.64	75.72%	31 Mar 2024
Stable Fund Policy*	91.12	78.72%	31 Mar 2024
Manulife Asset Allocation Fund			
Manulife Balanced Fund*	75.87	79.77%	31 Mar 2024
Manulife Growth Fund*	72.70	91.21%	31 Mar 2024
Manulife Stable Fund*	76.33	64.12%	31 Mar 2024
Other			
Manulife Career Average Guaranteed Fund*	224.34	75.74%	31 Mar 2024
Manulife Advanced Fund SPC			
China A Segregated Portfolio	383.18	94.24%	30 Jun 2024
Defined Return Segregated Portfolio I [#]	N/A	N/A	30 Jun 2024
Greater Bay Area Growth and Income Segregated Portfolio	195.39	86.89%	30 Jun 2024
Renminbi Bond Segregated Portfolio [‡]	N/A	Below 50%	30 Jun 2024
U.S. Bank Equity Segregated Portfolio	0.81	97.46%	30 Jun 2024
Manulife Global Fund			
ASEAN Equity Fund	61.99	94.92%	30 Jun 2024
Asia Dynamic Income Fund	181.83	84.37%	30 Jun 2024
Asia Pacific REIT Fund	7.91	99.07%	30 Jun 2024
Asia Total Return Fund [‡]	N/A	Below 50%	30 Jun 2024
Asian High Yield Fund	290.32	76.46%	30 Jun 2024
Asian Short Duration Bond Fund	105.68	74.90%	30 Jun 2024
Asian Small Cap Equity Fund	176.87	82.04%	30 Jun 2024
China Value Fund	179.46	94.88%	30 Jun 2024
Dragon Growth Fund	201.03	97.22%	30 Jun 2024

Dynamic Leaders Fund	25.40	87.97%	30 Jun 2024
Emerging Eastern Europe Fund	237.82	75.07%	30 Jun 2024
European Growth Fund	30.48	97.93%	30 Jun 2024
Global Climate Action Fund	8.02	99.68%	30 Jun 2024
Global Equity Fund	65.28	97.82%	30 Jun 2024
Global Multi-Asset Diversified Income Fund	108.67	79.73%	30 Jun 2024
Global REIT Fund	8.15	96.12%	30 Jun 2024
Global Resources Fund	185.15	94.96%	30 Jun 2024
Healthcare Fund	3.36	97.27%	30 Jun 2024
India Equity Fund	375.92	89.42%	30 Jun 2024
Investment Grade Preferred Securities Income Fund	186.82	87.12%	30 Jun 2024
Japan Equity Fund	35.02	97.57%	30 Jun 2024
Preferred Securities Income Fund	220.94	85.83%	30 Jun 2024
Sustainable Asia Bond Fund	30.91	64.13%	30 Jun 2024
Sustainable Asia Equity Fund	36.49	94.99%	30 Jun 2024
Taiwan Equity Fund	48.31	97.39%	30 Jun 2024
U.S. Equity Fund	21.73	97.35%	30 Jun 2024
U.S. Small Cap Equity Fund	46.86	93.20%	30 Jun 2024
U.S. Special Opportunities Fund	122.72	77.35%	30 Jun 2024
USD Income Fund	130.58	66.49%	30 Jun 2024
Manulife Hong Kong Series			
Manulife Capital Conservative Fund	70.66	58.35%	30 Jun 2024
Manulife Global Dynamic Asset Allocation Fund	63.34	63.89%	30 Jun 2024
Manulife Global Multi-Asset Diversified Income Fund	108.68	79.37%	30 Jun 2024
Manulife STARS Income and Growth Fund	111.38	56.41%	30 Jun 2024

[#]Climate-related risks are considered irrelevant for certain types of investments. For further details, please refer to [Disclosures on Climate-related Risk Management](https://www.manulifefunds.com.hk) (manulifefunds.com.hk). Funds to which climate-related risks are considered irrelevant have been tagged as “N/A” in both Carbon Footprint and Data Coverage in the above table.

[†]Effective 3 October 2023, the underlying index-tracking collective investment scheme (“ITCIS”) of the Manulife MPF Hang Seng Index Tracking Fund (the “Fund”) has been changed to ChinaAMC HSI ESG ETF (“New ITCIS”). Correspondingly, (i) the name of the Fund has changed to Manulife MPF Hang Seng Index ESG Fund, and (ii) the investment objective and balance of investments of the Fund, and the relevance of climate-related risks, have been changed in reflection of the investment policy of the New ITCIS. Please refer to the [relevant notice](https://www.manulife.com.hk) (manulife.com.hk) for details.

Funds marked with (*) are not available to Hong Kong retail investors.
Funds marked with (^) are not authorized in Hong Kong.

Manulife Investment Management places reliance on third-party data providers and Third-Party Managers where appropriate, who in turn place reliance on both company disclosed figures, estimates and other

sources to produce the data. Manulife Investment Management does not provide assurance as to the accuracy or completeness of such third-party data.

Carbon emissions as reported by companies may be subject to estimation error. Corporate reporting of climate-related data is typically either not audited or audited to a lower standard than a financial audit.

Data Coverage is calculated by dividing the value of investments in a fund's portfolio that have data reasonably available to Manulife Investment Management for the calculation of Carbon Footprint by the total value of the fund's portfolio.

†Even after taking reasonable steps to identify the portfolio carbon footprint of the Scope 1 and 2 emissions associated with the funds' underlying investments, the Data Coverage may not be sufficiently high to produce a reported portfolio carbon footprint which is meaningful or representative of the fund's actual portfolio. Accordingly, funds with Data Coverage below 50% have been tagged as having "N/A" Carbon Footprint in the above table.

For illustration purposes, Data Coverage may be impacted by cash, cash equivalents and derivatives, sovereigns and quasi-sovereigns, securitized assets, municipal bonds and related securities, and any securities where data is not reasonably available to Manulife Investment Management for the calculation of the Carbon Footprint.

For the avoidance of doubt, where a fund is in a master-feeder fund structure, the feeder fund is subject to the risks attendant in the master fund including climate-related risks, which are managed by the investment manager of that master fund. For funds that are part of a master-feeder structure the data of the feeder fund may not be available until the master fund has provided data as part of the master fund's first reporting period. There may be limitations on data availability where the investment manager of the master fund may not be subject to similar disclosure requirements.

Data disclosures, data sources and methodologies are subject to changes as industry standards evolve, data availability improves and Manulife Investment Management enhances its climate reporting capabilities. The disclosure may be updated from time to time without any prior notice.

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