



London CIV Climate Analytics

06 February 2024

Introduction

We are pleased to present the London CIV Climate Analytics report for the **London Borough of Camden Pension Fund**. The report provides an overview of climate-related risks and opportunities according to the recommendations from the Task Force on Climate-related Financial Disclosures (TCFD).

This report aims to inform the development of decarbonisation strategies, internal risk management, and support climate-related disclosures.

Should you require any further information regarding any aspect of your about the report or service, please contact our Client Service Team via e-mail (clientservice@londonciv.org.uk).

London CIV acknowledges the contribution of S&P Trucost Limited ("Trucost") data and analytics in the production of this report and we draw your attention to the disclaimer on limitations associated with the Trucost data at the end of this report.

Trucost assesses risks relating to climate change, natural resource constraints, and broader environmental, social, and governance (ESG) factors. For more information, visit www.trucost.com





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Parameters

Fund Name: LGIM - LB Camden Global Equities

Benchmark Name: MSCI ACWI Index

Holdings Date: 30 June 2023

Analysis Date: 06 February 2024

Currency: GBP

Sub-fund Value 412 mGBP

Value Covered 407 mGBP

A note on mapping: London CIV Climate Analytics leverage the Trucost Core Plus Universe, and the S&P Market Intelligence Capital IQ® platform to map listed equity and corporate fixed income instruments to their issuing entity. Detailed coverage lists can be provided upon request.

1 Carbon Footprint

2 Stranded Asse

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Net-Zero Alignmer

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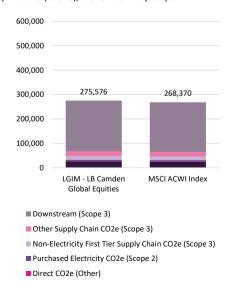
Disclaime

Carbon Footprint

The Task Force for Climate-related Financial Disclosures recommends asset owners to include carbon footprinting information in their reporting to support the assessment and management of climate-related risks.

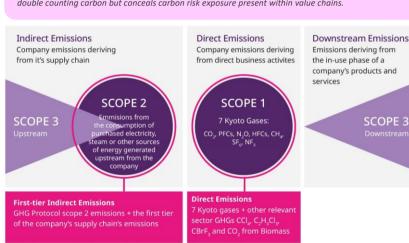
Total Carbon Footprint (tCO2e)

The chart below shows the total tonnes of carbon dioxide equivalents (tCO2e), broken down by scope.



Understanding Emissions Scopes

The diagram below summarises the different emissions scopes that can be included in footprint calculations. Restricting the scope to direct operational emissions only (scope 1) removes the risk of double counting carbon but conceals carbon risk exposure present within value chains.



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Carbon emissions should be 'normalized' by a financial indicator (either annual revenues or value invested) to provide a measure of carbon intensity. The Task Force for Climate-related Financial Disclosures favours the weighted average carbon intensity as preferred metric.

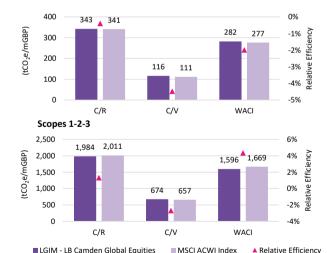
Impact-based

Risk-based

Carbon Intensity (tCO2e/mGBP)

The charts below provide an indication of the carbon intensity using the three main methodologies, carbon-to-revenue (C/R), carbon-to-value (C/V) and weighted-average carbon intensity (WACI). The analysis was completed for two sets of emission scopes.

Direct + First-Tier Indirect



Carbon Intensity Methodologies



1. Carbon to Revenue (C/R)

Carbon to Revenue provides an indication of carbon efficiency with respect to output (as revenues are closely linked to productivity).

$$\frac{\sum_{i}^{n} \left(\frac{C_{i}}{EVIC_{i}} * I_{i} \right)}{\sum_{i}^{n} \left(\frac{R_{i}}{EVIC_{i}} * I_{i} \right)}$$

2. Carbon to Value Invested (C/V)

Carbon to Value provides an indication of efficiency with respect to shareholder value creation. It is a pertinent indicator of an investor's contribution to climate change.

$$\frac{\sum_{i}^{n} \left(\frac{C_{i}}{EVIC_{i}} * I_{i} \right)}{\sum_{i}^{n} I_{i}}$$

3. Weighted Average Carbon Intensity (WACI)

The weighted average method seeks to calculate exposure to carbon intensive companies, i.e. is not an additive in terms of carbon budgets.

$$\sum_{i}^{n} \left(\frac{C_i}{R_i} * w_i \right)$$

I: Investment Value C: tCO2e R: Revenues EV: Enterprise Value w: Weight

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Disclaimer

Attribution analysis explains how sector allocation and stock selection contribute to a smaller or larger footprint relative to a benchmark. This can be used to identify opportunities for future footprint reduction. Sector allocation effects are determined using the 11 GICS Sector classifications, and the analysis has been completed based on the Carbon to Revenue Intensity (C/R). Both sets of emission scopes results are presented.

Direct Fried Heart
Sector
Communication Services
Consumer Discretionary
Consumer Staples
Energy
Financials
Health Care
Industrials

Direct + First-Tier Indirect

Energy Financials Health Care Industrials Information Technology Materials Real Estate Utilities

Weigh	nt (Revenue)	Carbon	intensity (C/R)	Attribution effect		
Fund	Benchmark	Fund	Benchmark	Sectoral allocation	Company selection	Total
5%	5%	49	49	-0.1%	0.0%	-0.1%
13%	13%	95	94	0.6%	0.0%	0.5%
11%	11%	263	258	0.0%	-0.1%	-0.1%
10%	10%	901	891	0.8%	-0.3%	0.5%
12%	11%	49	40	0.4%	-0.3%	0.1%
13%	13%	38	37	-0.1%	0.0%	-0.2%
13%	13%	218	221	0.0%	0.1%	0.2%
12%	13%	96	95	-0.5%	0.0%	-0.5%
7%	7%	1337	1326	-0.1%	-0.2%	-0.3%
1%	1%	126	127	0.0%	0.0%	0.0%
3%	3%	2397	2336	0.0%	-0.5%	-0.5%
100%	100%	343	341	1%	-1%	0%

Scopes 1-2-3

Total

Total

Sector
Communication Services
Consumer Discretionary
Consumer Staples
Energy
Financials
Health Care
Industrials
Information Technology
Materials
Real Estate
Utilities

Weigh	nt (Revenue)	Carbon	intensity (C/R)	Attribution effect		
Fund	Benchmark	Fund	Benchmark	Sectoral allocation	Company selection	Total
5%	5%	169	168	-0.1%	0.0%	-0.1%
13%	13%	1286	1282	0.3%	0.0%	0.3%
11%	11%	822	829	0.1%	0.0%	0.1%
10%	10%	6418	6406	1.0%	-0.1%	1.0%
12%	11%	421	448	0.4%	0.2%	0.5%
13%	13%	126	125	-0.1%	0.0%	-0.1%
13%	13%	4082	4047	-0.1%	-0.2%	-0.3%
12%	13%	838	885	-0.4%	0.3%	-0.1%
7%	7%	3686	3717	0.0%	0.1%	0.1%
1%	1%	987	1015	0.0%	0.0%	0.0%
3%	3%	3723	3744	0.0%	0.0%	0.0%
100%	100%	1984	2011	1%	0%	1%

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Attribution analysis explains how sector allocation and stock selection contribute to a smaller or larger footprint relative to a benchmark. This can be used to identify opportunities for future footprint reduction. Sector allocation effects are determined using the 11 GICS Sector classifications, and the analysis has been completed based on the Carbon to Value Intensity (C/V). Both sets of emission scopes results are presented.

Direct + First-Tier Indirect
Sector
Communication Services
Consumer Discretionary
Consumer Staples
Energy
Financials
Health Care
Industrials
Information Technology
Materials
Real Estate
Utilities

Weight		Carbon intensity (C/V)		Attribution effect			
Fund	Benchmark	Fund	Benchmark	Sectoral allocation	Company selection	Total	
7%	7%	12	12	-0.1%	0.0%	-0.1%	
12%	11%	38	34	0.0%	-0.4%	-0.4%	
7%	7%	134	126	0.0%	-0.5%	-0.5%	
5%	5%	665	654	0.3%	-0.5%	-0.2%	
14%	14%	14	11	0.1%	-0.4%	-0.4%	
12%	12%	14	13	0.1%	-0.1%	0.0%	
10%	10%	95	93	0.0%	-0.2%	-0.2%	
24%	24%	16	16	-0.3%	0.0%	-0.3%	
5%	5%	712	677	0.0%	-1.4%	-1.5%	
2%	2%	17	17	0.1%	0.0%	0.1%	
3%	3%	759	721	-0.2%	-0.9%	-1.1%	
100%	100%	116	111	0%	-4%	-4%	

Sector
Communication Services
Consumer Discretionary
Consumer Staples
Energy
Financials
Health Care
Industrials
Information Technology
Materials
Real Estate
Utilities
Total

Total

Scopes 1-2-3

1	Weight	Carbon i	ntensity (C/V)	Attribution effect			
Fund	Benchmark	Fund	Benchmark	Sectoral allocation	Company selection	Total	
7%	7%	43	41	-0.1%	0.0%	-0.1%	
12%	11%	510	460	0.0%	-0.9%	-0.9%	
7%	7%	418	405	0.0%	-0.1%	-0.1%	
5%	5%	4740	4698	0.4%	-0.3%	0.1%	
14%	14%	125	123	0.1%	0.0%	0.0%	
12%	12%	47	45	0.1%	0.0%	0.0%	
10%	10%	1774	1692	-0.1%	-1.3%	-1.4%	
24%	24%	141	150	-0.2%	0.3%	0.1%	
5%	5%	1962	1898	0.0%	-0.4%	-0.5%	
2%	2%	129	135	0.1%	0.0%	0.1%	
3%	3%	1178	1156	0.0%	-0.1%	-0.1%	
100%	100%	24390	657	0%	-3%	-3%	

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Weight		Carbon intensity (WACI)		Attribution effect			
Fund	Benchmark	Fund	Benchmark	Sectoral allocation	Company selection	Total	
7%	7%	52	52	-0.1%	0.0%	-0.1%	
12%	11%	121	122	0.0%	0.0%	0.0%	
7%	7%	271	268	0.0%	-0.1%	-0.1%	
5%	5%	946	933	0.2%	-0.2%	-0.1%	
14%	14%	47	38	0.1%	-0.5%	-0.4%	
12%	12%	60	59	0.0%	0.0%	0.0%	
10%	10%	256	259	0.0%	0.1%	0.1%	
24%	24%	77	78	-0.2%	0.1%	-0.1%	
5%	5%	1389	1343	0.0%	-0.7%	-0.8%	
2%	2%	147	149	0.0%	0.0%	0.1%	
3%	3%	2764	2730	-0.4%	-0.3%	-0.7%	
100%	100%	282	277	0%	-2%	-2%	

acopes 1-2-3
Sector
Communication Services
Consumer Discretionary
Consumer Staples
Energy
Financials
Health Care
Industrials
Information Technology
Materials
Real Estate
Utilities
Total

Total

Scopes 1-2-3

1	Weight		tensity (WACI)	Attribution effect			
Fund	Benchmark	Fund	Benchmark	Sectoral allocation	Company selection	Total	
7%	7%	186	186	-0.1%	0.0%	-0.1%	
12%	11%	874	860	0.0%	-0.1%	-0.1%	
7%	7%	1061	1063	0.0%	0.0%	0.0%	
5%	5%	6949	7187	0.2%	0.7%	0.9%	
14%	14%	776	799	0.0%	0.2%	0.2%	
12%	12%	189	188	0.1%	0.0%	0.0%	
10%	10%	3832	3831	-0.1%	0.0%	-0.1%	
24%	24%	1075	1320	-0.1%	3.5%	3.4%	
5%	5%	3886	3843	0.0%	-0.1%	-0.1%	
2%	2%	554	567	0.1%	0.0%	0.1%	
3%	3%	4118	4177	-0.1%	0.1%	0.0%	
100%	100%	1596	1669	0%	4%	4%	

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Disclaimer

The largest contributors to the portfolio's carbon intensity are shown below. While the first table shows the top contributors to the portfolio carbon to revenue intensity according to the two sets of emissions perimeters. The list has been determined on the basis of the Carb on to Revenue Intensity (C/R).

Top C/R Contributors: Direct	ct + First-Tier Indir	ect	C/R intensity Scopes D+FTI	C/R intensity Scopes 1-2-3	Contribution to Carbon Intensity		Climate
Name	Sector	Weight (%)	tCO2e/GBPm	tCO2e/GBPm	Scopes D+FTI	Disclosure	100+
Exxon Mobil Corporation	Energy	0.7%	1046	5069	-3.73%	Partial Disclosure	Yes
Holcim Ltd	Materials	0.1%	6643	6814	-1.57%	Full Disclosure	Yes
Chevron Corporation	Energy	0.4%	985	7063	-1.43%	Partial Disclosure	Yes
Shell plc	Energy	0.4%	798	6488	-1.40%	Partial Disclosure	Yes
NTPC Limited	Utilities	0.0%	25627	25863	-1.28%	Full Disclosure	Yes
RWE Aktiengesellschaft	Utilities	0.1%	4644	5293	-1.08%	Partial Disclosure	Yes
ArcelorMittal S.A.	Materials	0.0%	2956	3422	-0.89%	Full Disclosure	Yes
The Southern Company	Utilities	0.1%	5105	6296	-0.86%	Full Disclosure	Yes
Vistra Corp.	Utilities	0.0%	11433	11788	-0.83%	Full Disclosure	Yes
Valero Energy Corporation	Energy	0.1%	933	4553	-0.79%	Partial Disclosure	Yes

Top C/R Contributors: Scopes 1-2-3		C/R intensity	C/R intensity	Contribution to			
			Scopes D+FTI	Scopes 1-2-3	Carbon Intensity		Climate
Name	Sector	Weight (%)	tCO2e/GBPm	tCO2e/GBPm	Scopes 1-2-3	Disclosure	100+
Cummins Inc.	Industrials	0.1%	147	65988	-3.38%	Full Disclosure	Yes
Exxon Mobil Corporation	Energy	0.7%	1046	5069	-2.82%	Partial Disclosure	Yes
Coal India Limited	Energy	0.0%	4281	182728	-2.43%	Full Disclosure	Yes
Shell plc	Energy	0.4%	798	6488	-2.39%	Partial Disclosure	Yes
Chevron Corporation	Energy	0.4%	985	7063	-1.95%	Partial Disclosure	Yes
Siemens Energy AG	Industrials	0.0%	102	54592	-1.59%	Full Disclosure	No
Emerson Electric Co.	Industrials	0.1%	206	44000	-1.46%	Full Disclosure	No
Rio Tinto Group	Materials	0.2%	861	12359	-1.23%	Partial Disclosure	Yes
General Electric Company	Industrials	0.2%	90	9485	-1.09%	Full Disclosure	Yes
BHP Group Limited	Materials	0.2%	490	11846	-1.04%	Full Disclosure	Yes

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Top C/V Contributors: Direct + First-Tier Indirect		C/R intensity Scopes D+FTI	C/R intensity Scopes 1-2-3	Contribution to Carbon Intensity		Climate	
Name	Sector	Weight (%)	tCO2e/GBPm	tCO2e/GBPm	Scopes D+FTI	Disclosure	100+
Exxon Mobil Corporation	Energy	0.7%	1046	5069	-4.78%	Partial Disclosure	Yes
Fair Isaac Corporation	Utilities	0.4%	798	6488	-2.08%	Modelled	No
FedEx Corporation	Real Estate	0.4%	985	7063	-1.75%	Full Disclosure	No
Fidelity National Financial, Inc.	Industrials	0.1%	6643	6814	-1.60%	Modelled	No
Fiserv, Inc.	Utilities	0.0%	25627	25863	-1.28%	Full Disclosure	No
FirstEnergy Corp.	Communication Service	: 0.1%	933	4553	-1.17%	Partial Disclosure	Yes
Ford Motor Company	Utilities	0.1%	4644	5293	-1.12%	Full Disclosure	Yes
Freeport-McMoRan Inc.	Materials	0.1%	1022	5540	-1.10%	Full Disclosure	No
General Electric Company	Consumer Discretionary	0.0%	2956	3422	-0.98%	Full Disclosure	Yes
General Mills, Inc.	Industrials	0.0%	1872	3190	-0.87%	Full Disclosure	No

Top C/V Contributors: Scopes 1-2-3			C/R intensity Scopes D+FTI	C/R intensity Scopes 1-2-3	Contribution to Carbon Intensity		Climate
Name	Sector	Weight (%)	tCO2e/GBPm	tCO2e/GBPm	Scopes 1-2-3	Disclosure	100+
Exxon Mobil Corporation	Energy	0.7%	1046	5069	-3.89%	Partial Disclosure	Yes
Cummins Inc.	Industrials	0.1%	147	65988	-3.42%	Full Disclosure	Yes
Shell plc	Energy	0.4%	798	6488	-3.07%	Partial Disclosure	Yes
Coal India Limited	Energy	0.0%	4281	182728	-2.45%	Full Disclosure	Yes
Chevron Corporation	Energy	0.4%	985	7063	-2.27%	Partial Disclosure	Yes
Siemens Energy AG	Industrials	0.0%	102	54592	-1.63%	Full Disclosure	No
Emerson Electric Co.	Industrials	0.1%	206	44000	-1.45%	Full Disclosure	No
Rio Tinto Group	Materials	0.2%	861	12359	-1.31%	Partial Disclosure	Yes
General Electric Company	Industrials	0.2%	90	9485	-1.19%	Full Disclosure	Yes
BP p.l.c.	Energy	0.2%	733	5471	-1.11%	Partial Disclosure	Yes

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Top WACI Contributors: Direct + First-Tier Indirect			C/R intensity Scopes D+FTI	C/R intensity Scopes 1-2-3	Contribution to Carbon Intensity		Climate
Name	Sector	Weight (%)	tCO2e/GBPm	tCO2e/GBPm	Scopes D+FTI	Disclosure	100+
NextEra Energy, Inc.	Utilities	0.2%	3565	3718	-2.78%	Partial Disclosure	Yes
The Southern Company	Utilities	0.1%	5105	6296	-2.08%	Full Disclosure	Yes
Exxon Mobil Corporation	Energy	0.7%	1046	5069	-1.89%	Partial Disclosure	Yes
Duke Energy Corporation	Utilities	0.1%	4680	5461	-1.71%	Full Disclosure	Yes
Linde plc	Materials	0.3%	1774	2558	-1.58%	Full Disclosure	No
NTPC Limited	Utilities	0.0%	25627	25863	-1.52%	Full Disclosure	Yes
Holcim Ltd	Materials	0.1%	6643	6814	-1.18%	Full Disclosure	Yes
Air Products and Chemicals, Inc.	Materials	0.1%	3284	4113	-1.12%	Partial Disclosure	No
American Electric Power Company,	Utilities	0.1%	4777	4972	-1.09%	Full Disclosure	Yes
Chevron Corporation	Energy	0.4%	985	7063	-1.08%	Partial Disclosure	Yes

Top WACI: Contributors Scopes 1-2-3			C/R intensity Scopes D+FTI	C/R intensity Scopes 1-2-3	Contribution to Carbon Intensity		Climate
Name	Sector	Weight (%)	tCO2e/GBPm	tCO2e/GBPm	Scopes 1-2-3	Disclosure	100+
NVIDIA Corporation	Information Technology	1.6%	67	5532	-4.02%	Full Disclosure	No
Banco Bradesco S.A.	Financials	0.0%	9	118352	-2.41%	Partial Disclosure	No
Cummins Inc.	Industrials	0.1%	147	65988	-2.21%	Full Disclosure	Yes
Emerson Electric Co.	Industrials	0.1%	206	44000	-2.17%	Full Disclosure	No
Exxon Mobil Corporation	Energy	0.7%	1046	5069	-1.52%	Partial Disclosure	Yes
Chevron Corporation	Energy	0.4%	985	7063	-1.49%	Partial Disclosure	Yes
Trane Technologies plc	Industrials	0.1%	166	35622	-1.48%	Full Disclosure	Yes
BHP Group Limited	Materials	0.2%	490	11846	-1.46%	Full Disclosure	Yes
Broadcom Inc.	Information Technology	0.6%	81	5567	-1.41%	Full Disclosure	No
Rio Tinto Group	Materials	0.2%	861	12359	-1.09%	Partial Disclosure	Yes

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2 Stranded Assets

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Disclaime

Stranded Assets

Revenue Weighted Fossil Fuel Exposure

■ Tar sands extraction

■ Drilling oil and gas wells

■ Petroleum Power Generation

■ Support activities for oil and gas operations

The reduction in greenhouse gas emissions implies movement away from fossil fuel energy and related physical assets. London CIV measures exposure to such assets by calculating the combined value of holdings and weighted revenue exposure of companies with business activities in either fossil fuel extraction or fossil fuel energy generation industries. This helps to identify potential stranded assets that may become more apparent as economies move towards a low carbon economy.

Crude petroleum and natural gas extraction

Natural gas liquid extraction

■ Natural Gas Power Generation

■ Coal Power Generation

Value of Holdings Fossil Fuel Exposure

8.4% 12.0% 8.4% 8.38% 10.0% Weighted Average Revenue (%) 8.3% 8.0% 8.3% VOH (%) 8.2% 6.0% 8.2% 4.0% 8.1% 8.12% 2.27% 2.31% 8.1% 2.0% 8.0% 0.0% 8.0% Fund Benchmark Fund Benchmark ■ Bituminous coal and lignite surface mining Bituminous coal underground mining

Fossil fuel Exposure Metrics

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1. Revenue Weighted Exposure

Weighted average exposure to the revenues derived from fossil fuel activities.

Exposure = $\sum_{i}^{n} [Revenue\% \ activity_{ref,i} * weight_i]$

2. Value of Holdings Exposure

Combined weight of companies in the fund deriving any revenues from fossil fuel related activities.

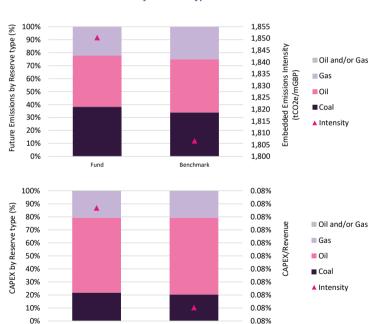
$$Exposure = \sum_{i}^{n} [Weight_{i}]$$

Together, these metrics provide a useful range of a fund's potential exposure to stranded assets.

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London CIV also measures 'Stranded Assets' exposure by estimating the carbon emissions embedded within the fossil fuel reserves of companies and their capital expenditures towards fossil-fuel related activities.

Future Emissions and CAPEX by Reserve Type



Benchmark

Understanding Stranded Assets

The total potential emissions of existing known fossil fuel reserves far vastly exceed the global carbon budget that will limit global temperatures to 1.5°C of warming above pre-industrial levels. If this is the case, the market values of companies holding reserves may be overstated because they are based in part on the present value of these reserves assuming that they can be fully utilized. Industry experts may therefore refer to these assets as 'Stranded Assets'.

The CAPEX/revenue ratio shows how aggressively the companies may be re-investing revenues back into fossil assets. A high ratio potentially indicates that companies within the fund are investing heavily. In the long term, this could deteriorate their ability to generate new revenues if these assets become stranded.

Fund

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The tables below show the largest contributors towards each fund's (1) Weighted Average Fossil Fuel Revenues; and (2) Future emissions. The company level fossil-fuel related exposure and CAPEX/Revenue ratio are also shown in the adjacent columns.

Top Contributors - Weighted Average Fossil Fuel Revenues

			Future			Weighted	
			emissions	CAPEX/	Fossil Fuel	Fossil Fuel	Climate
Name	Sector	Weight %	(tCO2e)	Revenue	Revenue	Revenue	100+
ConocoPhillips	Energy	0.20%	2281.83	11%	100%	0.200%	Yes
Chevron Corporation	Energy	0.43%	2222.19	0%	28%	0.122%	Yes
NextEra Energy, Inc.	Utilities	0.24%	0.00	0%	46%	0.110%	Yes
EOG Resources, Inc.	Energy	0.11%	1465.26	19%	100%	0.106%	No
Canadian Natural Resources Limited	Energy	0.10%	5758.34	24%	100%	0.097%	Yes
Shell plc	Energy	0.35%	1763.36	7%	24%	0.083%	Yes
Pioneer Natural Resources Company	Energy	0.08%	798.47	18%	100%	0.077%	No
Schlumberger Limited	Energy	0.11%	0.00	0%	57%	0.063%	No
Woodside Energy Group Ltd	Energy	0.06%	97.29	7%	99%	0.062%	Yes
Exxon Mobil Corporation	Energy	0.69%	3700.50	4%	8%	0.055%	Yes

Top Contributors - Future Emissions

			Future			Weighted	
			emissions	CAPEX/	Fossil Fuel	Fossil Fuel	Climate
Name	Sector	Weight %	(tCO2e)	Revenue	Revenue	Revenue	100+
Canadian Natural Resources Limited	Energy	0.10%	5758.34	24%	100%	0.097%	Yes
Exxon Mobil Corporation	Energy	0.69%	3700.50	4%	8%	0.055%	Yes
Glencore Plc	Materials	0.12%	5783.74	0%	5%	0.006%	Yes
BHP Group Limited	Materials	0.23%	5997.94	1%	15%	0.034%	Yes
China Shenhua Energy Company Limited	Energy	0.02%	31683.55	6%	69%	0.013%	Yes
BP p.l.c.	Energy	0.17%	6433.39	6%	30%	0.052%	Yes
Exxaro Resources Limited	Energy	0.00%	6798.92	7%	96%	0.003%	No
TotalEnergies SE	Energy	0.21%	4323.02	4%	12%	0.025%	Yes
ConocoPhillips	Energy	0.20%	2281.83	11%	100%	0.200%	Yes
Whitehaven Coal Limited	Energy	0.01%	1675.28	4%	88%	0.004%	No

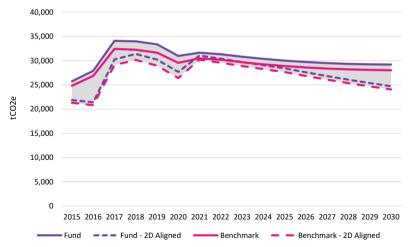
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Net-Zero Alignment

The Paris Agreement calls for coordinated efforts to ensure that global temperatures rise well below 2°C. As such, a growing number of financial institutions, including the world's largest investment managers are now making commitments to set Paris-aligned targets. The following assessment tracks fund GHG emission trajectories against the goal of limiting global warming to below 2°C.

Projected GHG Emissions Trajectories

The chart below examines the adequacy of GHG emissions reductions over time in meeting a 2°C carbon budget. It tracks past and future company emissions levels.



Why Net-Zero?

The Intergovernmental Panel on Climate Change (IPCC) has advised that limiting global temperature rise to 1.5-degree Celsius above pre-industrial levels would substantially reduce the impacts of climate change.

Scenarios assessed by the IPCC have determined that to meet this 1.5°C target, global carbon dioxde emissions would need to reach 'Net-zero' by 2050. Meeting a 2°C target requires carbon emissions to reach 'Net-Zero' by 2070.

The table below dsiplays the fund and benchmark performance against their respective 2°C carbon budget.

	Fund	Benchmark
Coverage Rate	100%	99.28%
Tonnes Carbon (Under)/Over	47,339	41,163
Carbon/mInvested (Under)/Over	117	101
Percent of Total (Under)/Over	9%	8%

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Carbon Footprint

2

Stranded Assets

3

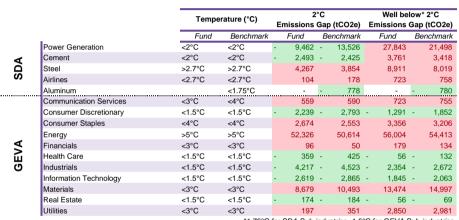
Net-Zero Alignment

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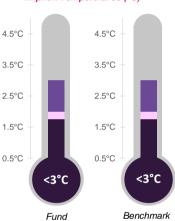
Companies are evaluated on the basis of their alignment with sectoral decarbonisation pathways. This assessment enables the calculation of an implicit temperature (°C) at company, sub-industry, and fund level based on performance over the period assessed.

Sub-Industry Carbon Budget Assessment



*1.75°C for SDA Sub-industries, 1.5°C for GEVA Sub-industries

Implicit Temperatures (°C)



Net-Zero Alignment - Best Performers

			Contr	ibution
Name	Weight	Temp. (°C)	2°C	tCO2e)
RWE Aktiengesellschaft	0.1%	1.5-2°C	-	4,325
China Shenhua Energy Company Limited	0.0%	1.5-2°C	-	2,775
ENGIE SA	0.0%	1.5-2°C	-	2,674
Amazon.com, Inc.	1.9%	1.5-2°C	-	2,573
Yang Ming Marine Transport Corporation	0.0%	1.5-2°C	-	2,563

Net-Zero Alignment - Worst Performers

			Contribution
Name	Weight	Temp. (°C)	2°C (tCO2e)
Exxon Mobil Corporation	0.7%	>5°C	14,883
Chevron Corporation	0.4%	>5°C	6,635
AGL Energy Limited	0.0%	>5°C	3,443
Shell plc	0.4%	>5°C	3,264
Phillips 66	0.1%	>5°C	3,077

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Appendix F London CIV Climate Analytics

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