

Fossil bond holdings in sustainable funds

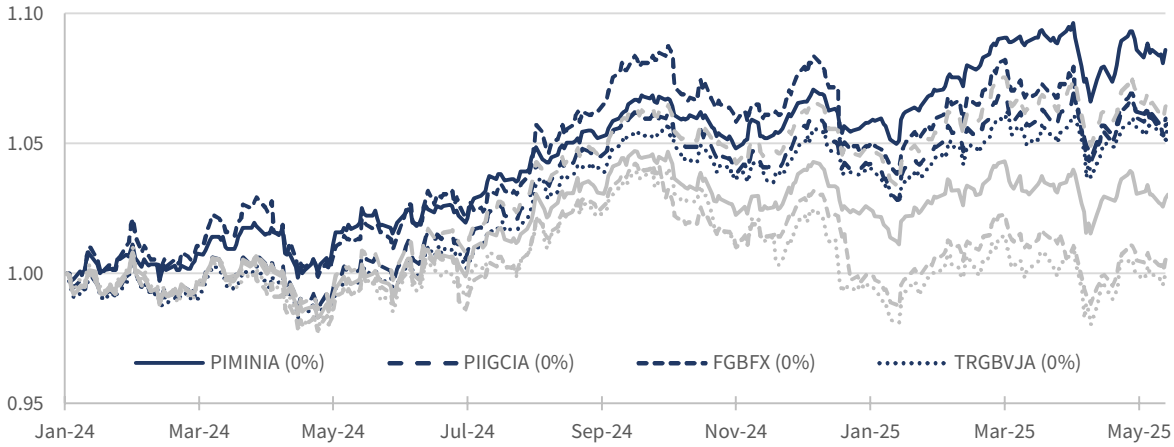
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In recent months bp, the fourth largest publicly listed oil producer by revenues, has redirected strategy away from climate transition alignment and veered towards more hydrocarbon production with associated greenhouse gas emissions,[1] which appears aligned with the broader sector.[2] This has weakened the case for holding oil majors' bond in fixed income funds with ESG targets. In this note, we explore exposure to oil majors within ESG-labelled fixed income funds, and further analyse how that may have been linked to recent bond performance.

- Several sustainable funds have investments in oil major bonds, totalling $7.3bn amongst public fund holdings. For some oil majors, the percentage of bond holders that identify with 'ESG' attributed are a non-negligible share of total bond holders.
- These investments may not be inconsistent with stated fund criteria. Baseline exclusions may not include conventional production, and ESG ratings for these names can be high, as they are broad and offer often a relative intra-sector assessment.
- This exposure seems to be associated with poorer performance and/or higher risks when analysing a group of funds using the same benchmark (see Figure 1). This supports the conclusion that investors are not disadvantaged by divesting the sector.

Our results suggest that end-investors in fixed-income ESG-labelled funds should start asking some questions. First, how should the sector's general shift toward more emissions impact buy-and-maintain mandates that expect to hold bonds to maturity? Second, how much has the inclusion of oil and gas in their funds cost investors in terms of risk-adjusted returns?

Figure 1. Normalised performance for funds (benchmark LGDRTRUH) and exposure to oil major bonds. Source, Bloomberg, AFII, accessed 16 May 2025.



[1] "BP drops climate targets in pivot back to oil and gas", Al Jazeera, accessed 16 May 2025.
[2] "New data highlights widening gulf between oil and gas company plans and climate science", Carbon Tracker, 7 Apr 2025.

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Fossil fuels and risks for bondholders

It has been identified that so-called 'sustainable' funds are frequently invested in oil and gas companies, even though this appears antithetical to their purposes.[3] Regulations are in development that support clearer naming and disclosure of these funds, so that investors better understand the rules governing asset selection.[4] Here we focus only on fixed income investments, where ongoing issuance by oil majors remains high.

Oil majors are frequent bond issuers, and the primary market process is a key point of influence by investors; when companies are directly asking for money, and are exposed to the cost of that issuance. We have seen a recent extension of maturity of issuance within this sector, and this increases risks for investors.[5]

There are also a number of potential headwinds for pricing of oil and gas bonds. For one, it is believed that credit ratings do not accurately capture the long-term risks of transition within the sector. Downgrades could force a re-allocation of investments which would be negative for pricing.[6] The European Insurance and Occupational Pensions Authority (EIOPA) has also recommended stricter capital requirements when insurers hold fossil fuel assets. Any increase in capital would reduce the effective return and may make assets less desirable as investments.[7] Lower oil prices are putting pressure on profit expectations, despite rising leverage at some firms.[8]

Fossil bond exposure in sustainable funds

The fund landscape is wide, and disclosure of holdings varies. Our search has used Bloomberg's FRSC fund screening tool, which collates publicly available fund details, to identify funds for analysis.

From a starting universe of 1,302,966 funds, we identify 30,825 that are active primary fixed income funds. Of these, 4,216 have either 'ESG', 'Climate Change', or 'Environmentally Friendly' attributes. We then screened for those with a 0.5% or greater allocation to the oil and gas sector, **resulting in 1,575 funds for analysis**.

It is worth highlighting that holding-level reports for fixed income funds are typically less complete than those for equities. This is often due to fewer assets being held in public funds, and more in private managed accounts (often managed by, and in strategies similar to, their public fund counterparts). For example, while data from Bloomberg[9] shows that 70.86% of shares in bp have disclosed holders, only 25.33% of holders of BPLN 3.36% 31s (ISIN XS2902720171) are in the public record. We therefore note that this analysis is restricted to funds for which holdings are available, which may not be representative of the whole market.

[3] "Revealed: European 'green' investments hold billions in fossil fuel majors", The Guardian, 18 May 2025.
[4] "New ESG Fund naming rules- EU and the UK", Beazley, 19 Dec 2024.
[5] "Total eclipse of the 2050 net zero deadline", AFII, 13 Jan 2025.
[6] "Credit ratings have yet to effectively capture energy transition risks facing European oil and gas sector", IEEFA, 13 Mar 2025.
[7] "EIOPA calls for special rules on insurers' fossil fuel assets to manage transition risks", IPE, 7 Nov 2024.
[8] "Are Big Oil companies prepared for a prolonged market downturn?", Financial Times, 19 May 2025.
[9] As of 16 May 2025.

For our chosen fund universe, we have analysed exposure to the oil majors: bp, Chevron, ConocoPhillips, Eni, Exxon, Shell, and TotalEnergies. We find 569 funds with exposure greater than $0.5mn.[10] Total holdings are shown in Table 1.

While holdings of bp and TotalEnergies are roughly equivalent in size, in terms of the percentage of outstanding debt TotalEnergies and Eni are the highest, at just under 5%.[11] Holdings of US oil majors are much lower.

We note that while more of the funds analysed are European than US (868 are denominated in EUR compared to 485 in USD), the difference in holdings in bp/TotalEnergies/Eni compared to Exxon/ConocoPhillips/Chevron seems more significant than this split would suggest. This may be because the European firms are rated more positively from a sustainability perspective.[12]

Table 1. Total bond holdings in oil majors from our fund universe. Source: Bloomberg, AFII, accessed 2 May 2025.

Company	Total Bonds outstanding (USD mn)	Bonds held by large ESG funds
bp	67,771	2,338
TotalEnergies	47,627	2,343
Eni	37,125	1,798
Shell	48,705	333
Exxon	31,757	225
ConocoPhillips	22,284	160
Chevron	20,132	87

bp has historically been considered the oil major with the most credible transition plan.[12] However, a recent high-profile shift of strategy by the company may force a re-assessment of its investment suitability.[13,14]

For the largest fund holdings, please see Table 5 in the Appendix.

[10] 287 funds do not have individual holdings information. 629 funds have substantial oil & gas holdings but do not report holdings in the oil majors; looking at the names these seem to be either HY or EM focused funds. Another 90 are small size funds, so even with a potential significant percentage holding in oil majors, the absolute holding is below $0.5mn.

[11] Considering the low level of disclosure for fixed income holdings, this figure will not be complete, but as a comparison figure it is still useful.

[12] For example bp is top of the analysis in: "Paris Maligned II", Carbon Tracker, 20 Mar 2024.

[13] "BP cuts renewable investment and boosts oil and gas in strategy shift", Reuters, 27 Feb 2025.

[14] Bondholders have increased risks with this strategy shift "BP's bondholder divestment risk with oil & gas output increase", AFII, 25 Feb 2025.

Deep dive fund construction

A fund labelled as sustainable does not necessarily preclude investing in the oil and gas sector. This will depend on the fund objectives and investment criteria.

With that in mind, Table 2 shows total holdings of our selected funds by parent manager, to the extent that sustainability investing criteria are interpreted in a similar way within an investment manager.

We will now look more closely at some example funds managed by the largest of these to better understand which ESG investing criteria are being used.

Table 2. Total holdings across the analysed fund universe by parent manager. Source: Bloomberg, AFII, accessed 1 May 2025.

Parent manager	Total AUM	Total oil major bond holdings (USD mn)	Total bp bonds
Carmignac Gestion SA	14,619	686	159
BlackRock Inc	40,997	444	121
Schroders PLC	40,569	368	143
M&G PLC	22,228	273	60
Morgan Stanley	21,326	234	111
DNB Bank ASA	5,469	215	47
UBS Group AG	38,140	214	78
JPMorgan Chase & Co	43,052	213	88
Intesa Sanpaolo SpA	24,737	209	63
Canton of Zurich	13,121	178	59
CaixaBank SA	6,964	172	91
Neuberger Berman Group LLC	25,174	170	120
HSBC Holdings PLC	14,333	166	67
Credit Agricole Group	42,154	163	28
Allianz SE	22,420	162	23
Invesco Ltd	10,306	160	57
AXA SA	20,797	159	48
Anima Holding SpA	6,459	149	37
Royal Bank of Canada	18,253	148	2

Carmignac

Carmignac Gestion SA tops the list with just under $700mn of oil major bonds, 4.7% of total AUM in this fund universe.

The largest holding is in Carmignac Securities EU Acc (ticker CARSECC FP Equity), a short-dated investment grade ESG fund.

Very limited information is available on the fund's website regarding its sustainable investment processes, although it notes that the fund is classified as Article 8. In the "ESG" section, top holdings by ESG rating are provided, as well as the top five active weights, which are described as the positions that have been overweighted relative to benchmark. Three of the five listed are oil and gas companies.[15] Indeed, details are given of the weight by ESG score, suggesting that leaders are overweighted, and laggards are underweighted. While this doesn't seem to be explicitly confirmed, this weighting strategy is one frequently employed by ESG funds.[16]

For reference, TotalEnergies' current ESG rating is shown as AA, while Eni and bp are scored A. AA is considered a leader in the documentation, and A is average.

Notably, a recent letter from the fund managers appears not to mention sustainability, further evidence that this may not be a priority for the fund.[17]

[15] Iberdrola +2.6%, TotalEnergies +2%, Repsol +2%, Eni +1.7%, DE Volksbank +1.6% as seen on "ESG Carmignac Securite", Carmignac, accessed 13 May 2025.
[16] For further examples please see "Deforestation exposure in corporate bond ETFs", AFII, 3 Apr 2025.
[17] "Carmignac Sécurité: Letter from the Fund Managers", Carmignac, 14 Apr 2025.

BlackRock

The largest single exposure to bp bonds is in a BlackRock managed fund called BGF-Euro Corporate Bond-A2 (ticker MLCORA2 LX Equity), with an estimated holding of $32mn. Analysis of its prospectus confirms that the BlackRock EMEA Baseline Screen is applied, which covers Controversial Weapons, Nuclear Weapons, Tobacco, Civilian Firearms, Controversial Business Practices, and Thermal coal and Oil sands production.[18] The prospectus also gives some details of "*a proprietary method to assess investments based on the extent to which they are associated with positive or negative externalities. The Investment Advisor will seek to […] limit exposure to investments that are deemed to have associated negative externalities (e.g. higher carbon emitters…).*"[19] This fund, which is focused on European credit, has 1.2% invested in bp, 0.6% in Eni, and 0.8% in TotalEnergies.

The largest exposure to all oil majors is in an iShares fund called iShares Screened Global Corporate Bond Index Fund IE (ISH SCR GBCOP BD IX IE-DGHI - ticker BIEDGHD ID Equity). The Key Investor Information Document (KIID) explains that the exclusions are as above, except for Civilian Firearms and Oil sands production. The fund has exposure to all seven oil majors, totalling 1.7% of the fund.

Schroders

Within the Schroders universe, the fund with the highest percentage invested in oil majors is Schroder Matching Plus – Buy and Maintain Credit Sterling Cashflow (SCHRODER – B&M CR S C OV 37-1 – ticker SCBM32I LX Equity) which has 4.2% exposure across the seven issuers.

The fund documentation says that at least 80% of investments are in companies that have made a commitment to decarbonisation and/or net zero emissions. Direct exclusions are limited to weapons, tobacco, and thermal coal.[20]

Summary

While we have examined a small selection of fund investment criteria, we can discern several ways that oil major debt can be included in ESG-designated funds.

- Baseline ESG exclusions, which are often used in passive and/or ESG-light funds, do not tend to consider conventional oil and gas production. The EUR corporate BlackRock fund does exclude oil sands production, however as it is focused on European issuers, we do not know whether this would extend to ConocoPhillips.[21]
- ESG ratings can be used in weighting decisions, as may be the case with the Carmignac fund. Our earlier research has shown that ESG ratings tend to be broad and apply a sector-relative approach,[22] which can accommodate investments in oil and gas companies.

[18] "BlackRock EMEA Baseline Screens Policy & Fundamental Insights Methodology", BlackRock, accessed 13 May 2025.
[19] P87 of "Prospectus BlackRock Global Funds", BlackRock, accessed 13 May 2025.
[20] "Schroder Matching Plus - Buy and Maintain Credit Sterling Cashflow Fund (2032-2040)", Schroders, accessed 13 May 2025.
[21] "ConocoPhillips: time to COP the consequences", AFII, 5 Mar 2025.
[22] For analysis of ESG ratings and deforestation please see "General Mills: lurking deforestation", AFII, 17 Dec 2024.

- Funds may commit only a portion of their investments to sustainable criteria. For example, the Schroders fund can have 20% of its total investments invested without sustainability consideration.

Fund performance

Comparing fund performance on a true like-for-like basis is extremely difficult. Even within the same fund categorisations, managers will apply judgement-based overlays which cannot be isolated from individual allocation and investment decisions.

Earlier work has suggested that low carbon credit has outperformed in 2015-2020,[23] and the latest analysis on the equity side confirms poor performance from fossil fuel equities.[24] Here, we want to try and understand how credit has performed recently.

To do so, we analyse funds referencing the most common benchmarks, and compare performance with oil major investments within this universe. Despite the Bloomberg fund universe showing over 30,000 separate fixed income funds, there are such a wide range of benchmarks available that it has been hard to find a significant universe linked to the same index.

US corporate credit

For US corporate credit funds, we use the Bloomberg US Credit Total Return Value Unhedged USD (ticker LUCRTRUU) as a benchmark. We identify 27 funds, of which eight were categorised with an ESG attribute, which use this benchmark. One was removed from analysis (ALSPRCF US Equity) as no historic performance data was available.

Full details of the funds analysed, including exposure to oil major bonds, is in Table 6 in the Appendix.

Table 3 shows average return and risk figures for these funds, organised by amount of oil major exposure.[25]

Table 3. Average returns and risk for funds using LUCRTRUU classified by oil major exposure. Source: Bloomberg, AFII, accessed 1 May 2025.

US Funds	1y TRR	prior year TRR	STDEV	Sharpe Ratio
All	6.77	2.64	6.30	-0.02
Zero exposure	6.78	3.58	5.57	0.01
0 < 0.5% exposure	6.95	2.36	6.63	-0.02
0.5%+ exposure	6.20	1.46	6.87	-0.10
Non-zero exposure	6.77	2.15	6.69	-0.04

On average, in the past year those funds with zero exposure have averaged very similar returns to those with non-zero exposure (6.78 v 6.77). However, those with medium (0-0.5%) exposure did better than those with high (0.5%+) exposure (6.95 v 6.2). When considering the prior year returns, zero exposure funds have outperformed both medium and low exposure funds.

What is perhaps more interesting are the risk numbers. The funds with no exposure have a significantly lower standard deviation (5.57 v 6.69) and a positive Sharpe ratio (0.01 on average).

[23] "Low carbon credit performance 2015-2020", AFII, 27 Jan 2021.
[24] "Another Bad Year and Decade for fossil fuel stocks", IEEFA, accessed 16 May 2025.
[25] The averages are not weighted by AUM, but are rather a straight average across the fixed number of funds.

The funds with oil major bond exposure have on average a negative Sharpe ratio, indicating they are returning on average less than the risk-free rate.[26]

Global corporate credit

It is challenging to find a global credit benchmark used by a meaningful number of funds, as there are so many different versions. For this analysis we use the Bloomberg Global Agg Credit Total Return Index Value, both Unhedged USD and Hedged USD versions.[27] This has an initial universe of 15 funds that use it as a benchmark. However, two were subsequently removed from analysis (TRPGICE LX Equity began Feb 2025 and PIMINGI LX Equity began Feb 2024) as two years of historical performance data was not available. Of the 13 remaining, eight use the hedged benchmark and five the unhedged. Six funds total are designated with an ESG attribute.

Table 4. Average returns and risk for funds using LUGDRTRUH/LGDRTRUU classified by oil major exposure. Source: Bloomberg, AFII, accessed 1 May 2025.

Global Funds	1y TRR	prior year TRR	STDEV	Sharpe Ratio
All	7.88	4.23	5.26	0.18
Zero exposure	9.09	6.22	5.27	0.35
0 < 0.5% exposure	7.66	2.67	5.05	0.03
0.5%+ exposure	6.24	2.43	5.41	0.05
Non-zero exposure	6.85	2.53	5.26	0.04

Global Funds (unhedged only)	1y TRR	prior year TRR	STDEV	Sharpe Ratio
All	8.00	4.52	4.86	0.18
Zero exposure	8.84	5.39	4.83	0.29
0 < 0.5% exposure	7.05	3.30	4.80	0.06
0.5%+ exposure	7.27	4.01	5.00	0.09
Non-zero exposure	7.16	3.65	4.90	0.07

Full details of the funds analysed, including exposure to oil major bonds, are shown in Table 7 in the Appendix.

Table 4 shows average return and risk figures for these funds, organised by oil major exposure.[25] To explore whether the currency hedging impacts the results, the table for only the unhedged funds has also been included.

We see a stronger difference of recent returns relative to the US corporate picture (although with a smaller sample size). In the past year those funds with zero exposure have performed better than those with non-zero exposure (9.09 v 6.85). This is also true for the year prior year (6.22 v 2.53). For both time periods, those funds with medium exposure have outperformed those with high exposure. Standard deviation figures are similar, but the zero exposure funds have the highest Sharpe ratio, with an average 0.35. The results for only the unhedged funds have an identical pattern.

In summary, across these sample fund universes referencing the same benchmarks, including oil major bonds appears to have resulted in recent underperformance, higher risk, or both.

[26] Typically Sharpe Ratio would be versus a benchmark but this (Bloomberg-calculated) figure does appear to be defined versus the risk-free rate, for which a negative figure would be extremely poor performance. Either way, it offers a useful comparison between the oil-exposed funds and those with zero exposure.
[27] The currency hedging may impact return figures, and so this will be examined in the analysis.

Conclusions

To achieve net zero emissions, consumption of hydrocarbons needs to reduce.[28] However, the largest oil and gas companies continue to invest in expanding production, and appear to be retreating from what were already unambitious climate goals.[29]

Our analysis of sustainable fixed income funds found that several hold bonds issued by oil majors. While this may conflict with the spirit of responsible investing, in many cases it does not appear to violate the funds' formal guidelines. These fossil fuel investments are often permitted because baseline exclusion criteria do not cover conventional oil and gas, ESG ratings are broadly defined, or a portion of the portfolio is not subject to sustainability screening.

When analysing a smaller set of funds that use the same benchmark, oil major exposure seems to be associated with poorer performance, higher risk numbers, or both, which supports the conclusion that investors are not disadvantaged by divesting the sector.

[28] "Emissions from Oil and Gas Operations in Net Zero Transitions", IEA, May 2023.
[29] "New data highlights widening gulf between oil and gas company plans and climate science", Carbon Tracker, 7 Apr 2025.

Appendix 1: ESG funds for analysis

Table 5. Fixed income funds with either ESG, Climate Change, or Environmentally Friendly general attributes with exposure to bp bonds greater than $10mn. Source: Bloomberg, accessed 1 May 2025.

Name	Ticker	Total AUM (USD mn)	SFDR	General Attribute	bp	ConocoPhillips	Shell	Exxon	Chevron	Eni	TotalEnergies	Oil & Gas sector
NB CORP HYB BND-EUR I ACC	NBCHEIA ID Equity	2,686	8	ESG	4.32%					0.00%	0.96%	6.55%
CAIXABANK MST R J PRIV EURO	CBMRFPE SM Equity	6,825	8	ESG	1.31%		0.24%			0.59%	0.33%	3.60%
CARMIGNAC SECURITE-AW EU ACC	CARSECC FP Equity	5,736	8	ESG	1.46%					1.64%	2.54%	10.63%
VONTOBEL F TFABSRETCRED C-I	VOTARCI LX Equity	4,385	8	ESG	1.49%						0.47%	1.96%
SCHRODER INTL EURO CORP-AAC	SCHEHIA LX Equity	17,378	8	ESG	0.35%			0.00%		0.26%	0.56%	2.77%
MORGAN ST-EURO CORP BD-A	MORECAI LX Equity	5,739	8	ESG	0.88%		0.11%			0.30%	0.83%	3.08%
DNB GLOBAL CREDIT-B	DNBGCNK NO Equity	3,565	8	ESG	1.31%	0.88%	0.72%	1.26%	0.06%	0.25%	1.54%	7.84%
ESIF-M&G EU CRED INV-E EUR A	ESMECAE LX Equity	8,043	8	ESG	0.58%		0.32%	0.14%		0.63%	0.80%	3.28%
HSBC GIF-GLB SHT DU BD-AC	HSGSDBA LX Equity	4,147	8	ESG	0.98%						0.37%	2.29%
EURIZON FUND-BOND CORP EUR-Z	ESYBCEZ LX Equity	2,637	8	ESG	1.45%					0.52%	0.34%	3.16%
VONTOBEL-TWNTYFR STRTI-AHI H	VOTGAHI LX Equity	6,232	8	ESG	0.61%							0.61%
L&G ABS RETURN BOND FUND-ZA	LGLPGZA LX Equity	2,395	8	ESG	1.50%					1.09%	1.80%	5.82%
CARMIGNAC-SECURT-FW CHF A H	CARPSFC LX Equity	2,235	8	ESG	1.59%					1.75%	2.84%	11.51%
PRINCIPAL-PREF SEC-D USD INC	PGIPSDI ID Equity	4,170	8	ESG	0.84%							0.84%
ESPA-BOND CORPORATE PLUS-A	ERSBCPA AV Equity	381	8	ESG	9.11%					5.54%		17.05%
NUVEEN CORE IMPACT BD FND-R6	TSBIX US Equity	6,585		ESG, Socially Responsible	0.52%	0.49%					1.11%	3.15%
AZ FD 1-AZ BD-HYB-A AZ EUACC	AZBSHAA LX Equity	1,653	8	ESG	2.07%					0.34%	0.55%	4.47%
CANDR BONDS-GLB HIGH YLD-C-C	DEXGLHC LX Equity	1,589	8	ESG	2.11%					0.69%	0.00%	2.80%
SPDR BLOOMBERG U.S. CORPORAT	SPPU GR Equity	7,281	8	ESG	0.46%	0.03%	0.34%			0.01%	0.23%	1.20%
BGF-EURO CORPORATE BOND-A2	MLCORA2 LX Equity	2,671	8	ESG	1.19%					0.64%	0.77%	2.77%
SISF-STR CRD-CGBP I SV	SSCRCGI LX Equity	2,504	8	ESG	1.19%							3.19%
ANIMA OBBLIGAZIONARIO CRP-A	GESCBEU IM Equity	1,200	8	ESG	2.39%		0.09%			4.20%	1.63%	11.74%

Name	Ticker	Total AUM (USD mn)	SFDR	General Attribute	bp	ConocoPhillips	Shell	Exxon	Chevron	Eni	TotalEnergies	Oil & Gas sector
INVESCO GBP BND-A GBP ACC	IVSTBAA LX Equity	1,209	8	ESG	2.28%							3.66%
JPMORGAN F-GBL BD OPPO F-D J	JPMGBOD LX Equity	4,123	8	ESG	0.66%			0.04%	0.03%		0.04%	2.72%
JPM GLOBAL CORP BD-A ACC USD	JPGCBAA LX Equity	6,047	8	ESG	0.45%	0.36%		0.05%		0.45%	0.45%	4.20%
MSIM GLOBAL FIXED INC OPP-A	MSGFINA LX Equity	4,584	8	ESG	0.53%						0.48%	2.67%
NR F IR CR HY BN F-IEUR	NRFHYBI ID Equity	374	8	ESG	6.11%					0.54%	7.25%	13.90%
AXA WORLD-EUR CR TOT RT-A	AXAETRA LX Equity	4,005	8	ESG	0.56%					0.70%	0.91%	2.86%
JAN HND HRZN EURO CO B-A2EUR	HHECBAA LX Equity	1,064	8	ESG	2.05%						0.27%	2.69%
BANTLEON SEL CORP HYBRIDS-IA	BANCHIA LX Equity	419	8	ESG	5.06%					3.71%	4.80%	18.90%
AXA WORLD-EUR CR SHRD-I-CAP	AXWE13C LX Equity	3,380	8	ESG	0.60%					0.34%		1.31%
HSBC-GLB CORP BD-ZC	HSGCBZC LX Equity	4,296	8	ESG	0.47%		0.01%				0.61%	1.89%
ROBECO GLOBAL CREDITS-CHEUR	RGBCCHE LX Equity	3,274	8	ESG	0.61%		0.15%	0.02%			0.50%	4.11%
SCHRODER IN-EURO CR CO-A EUR	SIECCAE LX Equity	3,483	8	ESG	0.57%					0.26%	0.62%	3.16%
CGC CREDIT 2027-AEURACC	CACC2AE FP Equity	2,090	8	ESG	0.87%					1.66%	1.26%	8.93%
ISH SCR GB COP BD IX IE-DGHI	BIEDGHD ID Equity	3,375	8	ESG	0.50%	0.15%	0.27%	0.16%	0.10%	0.18%	0.33%	3.26%
UBS LU BD-EU CP SUS EUR-PACC	UBSEUCB LX Equity	1,048	8	ESG	1.48%					0.15%	0.91%	4.49%
DWS INVEST-CORP HB-FC	DICHBFC LX Equity	300	8	ESG	4.97%					4.01%	3.74%	16.47%
ROBECO CORP HYBRID BD-IHEUR	ROCHIHE LX Equity	303	8	ESG	4.76%					2.70%	4.87%	20.86%
ROBECO EURO CRDT BND-DEUR	ROECRBD LX Equity	1,684	8	ESG	0.83%		0.10%			0.38%	0.72%	4.07%
SWC-IBF CRP USD RESP NT USD	ZKBUCBN SW Equity	2,092		ESG	0.66%	0.29%	0.39%	0.37%	0.11%		0.26%	3.90%
VONTOBEL-GL CORP BD-GUSD	VONGCHX LX Equity	929	8	ESG	1.41%	0.00%						2.69%
CARMIGNAC CREDIT 2029-FEACC	CARMCFE FP Equity	1,331	8	ESG	0.97%					1.52%	1.55%	12.19%
SCHRODER INTL GL CORP BD-AAC	SCHHGBA LX Equity	2,228	8	ESG	0.58%					0.20%	0.21%	5.44%
EURIZON FUND-BD COR EUR ST-R	SPWRLCB LX Equity	1,560	8	ESG	0.81%					1.40%	0.31%	3.97%
INVESCO GL INV GR COR BD-A-D	IGIGCAD LX Equity	1,284	8	ESG	0.97%		0.20%			0.85%	0.65%	4.74%
FIDELITY-GL INC FND-A ACC US	FDGAAUS LX Equity	2,065	8	ESG	0.59%							4.84%
KLP OBLIGASJON GLOBAL P	KLPOGII NO Equity	3,279	8	ESG	0.37%	0.19%	0.30%	0.23%	0.11%	0.20%	0.29%	2.70%
PGIM GB CRP BD UCITS-IUSDACC	PRGCBUA ID Equity	1,332	8	ESG	0.90%	0.24%	0.03%			0.39%	0.89%	4.84%

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Name	Ticker	Total AUM (USD mn)	SFDR	General Attribute	bp	ConocoPhillips	Shell	Exxon	Chevron	Eni	TotalEnergies	Oil & Gas sector
ISHRS IBND DEC 28 EUR CORP	IB28 GR Equity	1,947	8	ESG	0.62%		1.10%	0.38%		0.91%	0.80%	4.73%
MFS MER EURO CREDIT-A1 EUR	MFECA1E LX Equity	719	8	ESG	1.62%			0.17%		0.78%	0.47%	4.32%
EASTSPRING INV US CORP-D	IOFCBDU LX Equity	3,346	8	ESG	0.34%	0.24%	0.16%	0.22%			0.26%	1.89%
UBS US INVES G COR SUS-UDSIN	UBIGCUX LX Equity	1,685	8	ESG	0.67%					0.28%	0.21%	2.59%
M&G LX OPTIMAL INC-EUR CIACC	MOIECIA LX Equity	9,704	8	ESG	0.11%					0.29%	0.30%	0.82%
HANSARENTEN SPEZIAL X-A	HANSPZA GR Equity	299	8	ESG	3.62%					2.23%	7.73%	18.51%
FF-CORP BOND SUS USD-F	UBSFUSD LX Equity	2,296	8	ESG	0.47%					0.28%	0.20%	2.41%
ALLIANZ-ADVANCED FI EUR - W	AEFIEWI LX Equity	2,647	8	Environmentally Friendly, ESG, Socially Responsible	0.40%					0.32%	0.19%	1.91%

Appendix 2: Funds with the same benchmark for performance analysis

Table 6. Funds using LUCRTRUU as benchmark. Source: Bloomberg, accessed 1 May 2025.

Ticker	Name	Parent manager	Benchmark	Total AUM (USD mn)	SFDR	General attribute	Total oil major bond exposure	1y Total Return Rate	1y Standard deviation	1y Sharpe ratio
PIGIX US Equity	PIMCO INV GRD CRD BND-INST	Allianz SE	LUCRTRUU	12,604	N/A		0.04%	8.53	6.29	0.18
LAGVX US Equity	LORD ABBETT INCOME-A	Lord Abbett & Co LLC	LUCRTRUU	5,640	N/A		0.18%	7.03	5.99	0.03
MFBFX US Equity	MFS CORPORATE BOND-A	Sun Life Financial Inc	LUCRTRUU	4,518	N/A		0.38%	7.09	5.95	0.00
ACCBX US Equity	INVESCO CORPORATE BOND-A	Invesco Ltd	LUCRTRUU	3,703	N/A		0.30%	6.85	6.04	0.00
NOUCBCU LX Equity	NO1-US COR SUS STR BD-C USDE	Nordea Bank Abp	LUCRTRUU	2,872	8	ESG	0.00%	7.01	5.70	0.00
LFUCGBI LX Equity	LUM-AMR-CRD UCITS FD-GBPB IN	Generali	LUCRTRUU	2,058	6		0.20%	6.70	6.01	-0.09
FCBFX US Equity	FIDELITY CORPORATE BOND FUND	FMR LLC	LUCRTRUU	2,035	N/A		0.00%	7.47	6.21	0.05
LIIAX US Equity	COLUMBIA CORPORATE INC-A	Ameriprise Financial Inc	LUCRTRUU	1,759	N/A		1.62%	6.72	5.73	-0.05
NORBPUS LX Equity	NORDEA I-US CORP BND-BP USD	Nordea Bank Abp	LUCRTRUU	1,174	8	ESG	0.00%	7.12	5.71	0.02
FDBAX US Equity	FEDERATED HERM CORP BND-A	Federated Hermes Inc	LUCRTRUU	1,095	N/A		1.81%	6.41	5.22	-0.15
CFICX US Equity	CALVERT INCOME FUND-A	Morgan Stanley	LUCRTRUU	1,001	N/A	ESG	0.00%	8.89	5.48	0.23
FHMFX US Equity	FIDELITY SER CORP BND	FMR LLC	LUCRTRUU	757	N/A		0.08%	7.95	6.18	0.13
GSGAX US Equity	GLDMN SCHS INV GRD CRDT-A	Goldman Sachs Group Inc/The	LUCRTRUU	627	N/A		0.04%	6.97	6.32	-0.01
ABIMX US Equity	AB IMPACT MUNI INC	AllianceBernstein Holding LP	LUCRTRUU	610	N/A	ESG	0.00%	3.01	5.71	-0.41
BHK US Equity	BLACKROCK CORE BOND TRUST	BlackRock Inc	LUCRTRUU	555	N/A		0.32%	10.02	13.45	0.33
PIUICEI ID Equity	PGIS-US INV GRD CRP BND-EIN	Allianz SE	LUCRTRUU	512	6		0.07%	7.60	6.27	0.00
BRACX US Equity	BATS: SERIES C PORT	BlackRock Inc	LUCRTRUU	428	N/A		0.39%	6.64	6.16	-0.04
LMLCX US Equity	WESTERN AST SMASH SERIES C	Franklin Resources Inc	LUCRTRUU	398	N/A		1.42%	3.73	10.42	-0.31
WFUIAAU LX Equity	ALSP USD IN GRDE CR-AUSDACC	Allspring Global Investments	LUCRTRUU	332	8	ESG	0.00%	7.10	6.02	-0.07
FCOR US Equity	FIDELITY CORPORATE BOND ETF	FMR LLC	LUCRTRUU	245	N/A		0.00%	7.81	6.49	0.09
ACISX US Equity	AB CORPORATE INCOME	AllianceBernstein Holding LP	LUCRTRUU	169	N/A		0.84%	7.93	6.09	0.10
MFSCBPS US Equity	MFS VIT II CORP BD PORT-SERV	Sun Life Financial Inc	LUCRTRUU	135	N/A	ESG	0.39%	3.05	6.23	-0.61
AGUCA2A LX Equity	ABR SV I-CRDT SUS BON	Aberdeen Group PLC	LUCRTRUU	72	8	ESG	0.00%	6.85	5.35	-0.05

Ticker	Name	Parent manager	Benchmark	Total AUM (USD mn)	SFDR	General attribute	Total oil major bond exposure	1y Total Return Rate	1y Standard deviation	1y Sharpe ratio
TGMBX US Equity	PGIM CORPORATE BOND-Z	Prudential Financial Inc	LUCRTRUU	21	N/A		0.27%	7.06	5.95	-0.02
LFADIA1 LX Equity	TFGS-ASG DYNAMIC INC-A1	Alter Domus Management Co SA	LUCRTRUU	13	N/A		0.00%	5.73	3.44	0.24
IUSIAEH LX Equity	INVESCO US INV GR CP-AEUEHAD	Invesco Ltd	LUCRTRUU	12	8	ESG	0.20%	4.87	5.41	-0.10

Table 7. Funds using LGDRTRUH/LGDRTRUU as benchmark. Source: Bloomberg, accessed 1 May 2025.

Ticker	Name	Parent manager	Benchmark	Total AUM (USD mn)	SFDR	General attribute	Total oil major bond exposure	1y Total Return Rate	1y Standard deviation	1y Sharpe ratio
PIMINIA ID Equity	PIMCO GIS-INCOME FUND-INS AC	Allianz SE	LGDRTRUH	95,476	6		0.00%	9.04	4.52	0.47
PIMGIAD ID Equity	PIMCO GBL INV GRD-INS USDACC	Allianz SE	LGDRTRUH	8,511	6		0.32%	8.68	4.95	0.20
BMGCHAE ID Equity	BNY MELLON GLOB CREDT-HACHGE	Bank of New York Mellon Corp/The	LGDRTRUH	2,584	N/A	ESG	0.25%	5.43	4.65	-0.09
PIIGCIA ID Equity	PIMCO-GBL INVST GRD CD-IN A	Allianz SE	LGDRTRUH	2,509	8	ESG	0.00%	8.17	4.99	0.09
VGCAX US Equity	VANGUARD GLBL CRDT BND-ADM	Vanguard Group Inc/The	LGDRTRUH	702	N/A		0.84%	7.95	4.77	0.16
DGCB US Equity	DIMENSIONAL GLOBAL CREDIT	Dimensional Fund Advisors LP	LGDRTRUH	565	N/A		1.54%	6.60	5.22	0.01
FGBFX US Equity	FIDELITY GLOBAL CREDIT FUND	FMR LLC	LGDRTRUH	55	N/A		0.00%	10.66	5.38	0.55
TRGBVJA LX Equity	T RW- GBL IMPACT CR FD-A	T Rowe Price Group Inc	LGDRTRUH	27	9	ESG	0.00%	7.50	4.42	0.04
RUSGLCA ID Equity	RUSS INV GLB CR FND-AACC	Russell Investments Group Ltd	LGDRTRUU	824	8	ESG	0.91%	8.54	6.12	-0.18
LSGCRIA LX Equity	LOOMIS SAYLES GLB CREDIT-IA	Natixis Investment Managers SA	LGDRTRUU	133	8	ESG	0.00%	8.71	6.09	-0.16
AGIGCIT LX Equity	ALZ GL INV-ALINZ GLBL CRD-IT	Allianz SE	LGDRTRUU	74	8	Environmentally Friendly, ESG, Socially Responsible	0.28%	8.87	5.55	-0.02
FUBGIAA TT Equity	FUBON GLB INV GRADE BOND-AA	Fubon Financial Holding Co Ltd	LGDRTRUU	72	N/A		2.03%	1.88	5.54	0.20
RBNAX US Equity	ROBINSON OPPORTUN INC-A	Liberty Street Advisors Inc	LGDRTRUU	12	N/A		0.00%	10.45	6.21	1.08

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