

Impact-Cubed Portfolio Impact Footprint

Vegan Climate Index

Manager: Beyond Advisors

Benchmark: US Large Cap Market Benchmark

Positions date: January 2021

Number of positions: 287

Estimated total tracking error*: 660 bps

Performance relative to fund universe: top quartile

NET IMPACT
69 bps

of tracking error

from an estimated

21%

NET ACTIVE
ESG SHARES

Positive 35% 105 bps

Negative -14% -36 bps

MIN

MAX

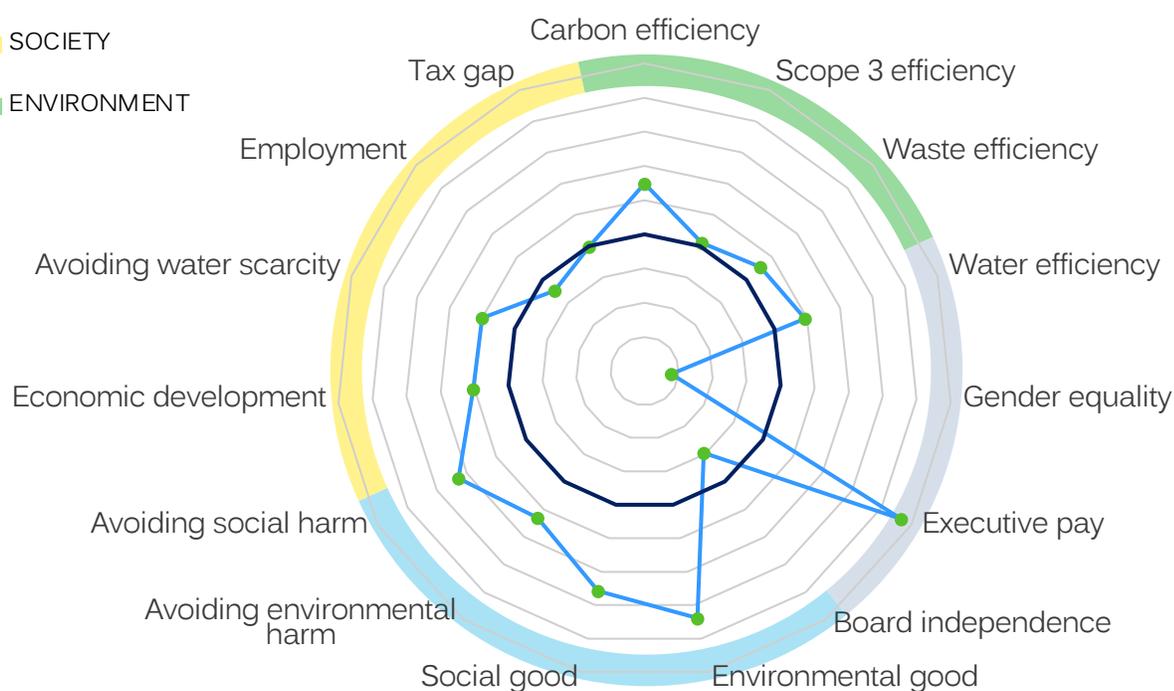


GOVERNANCE

PRODUCTS & SERVICES

SOCIETY

ENVIRONMENT



IMPACT ATTRIBUTION

COUNTRY SELECTION	0%
SECTOR SELECTION	100%

% MAPPED

PORTFOLIO	>99%
BENCHMARK	>99%

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FUND IMPACT MEASURES

	Fund	Benchmark	Based on company reported	% data estimated fund/benchmark	
Carbon efficiency	31.73	140.29	tons of GHG (Scope 1 & 2) emissions per \$1M revenue	28%	19%
Scope3 efficiency	323.43	350.35	tons of Scope 3 emissions per \$1M revenue	53%	54%
Waste efficiency	3.34	135.03	tons of waste generated per \$1M revenue	46%	47%
Water efficiency	0.31	3.97	thousand cubic metres fresh water used per \$1M revenue	44%	44%
Gender equality	23.9%	26.6%	percentage of women in boards and top management	1%	0%
Executive pay	38.1	60.4	ratio of executive level pay to average employee pay	24%	29%
Board independence	84.8%	85.7%	independent board members	1%	0%
Environmental good	25.1%	13.9%	portfolio allocated to environmental solutions	n/a	n/a
Social good	23.2%	14.5%	portfolio allocated to help alleviate social issues	n/a	n/a
Avoiding environmental harm	0.2%	3.1%	portfolio allocated to environmentally destructive industries	n/a	n/a
Avoiding social harm	0.1%	4.6%	portfolio allocated to industries aggravating social issues	n/a	n/a
Economic development	\$50,200	\$51,500	median income of portfolio weighted geography of economic activity	n/a	n/a
Avoiding water scarcity	2.65	2.67	geographic water use (World Resource Institute scale 0-5 from most to least water scarce areas)	n/a	n/a
Employment	5.6%	5.6%	unemployment in portfolio weighted area of economic activity	n/a	n/a
Tax gap	3.18%	3.17%	estimated % tax avoided by corporate tax mitigation schemes	n/a	n/a

INVESTMENT EQUIVALENTS

In real terms compared to the US Large Cap Market benchmark, \$1M invested in Vegan Climate Index finances:

		Real world equivalent	SDG relevance
Carbon efficiency	21.22	less tons of GHG emissions	7, 15
Scope3	11.36	less tons of Scope 3 emissions	
Waste efficiency	25.06	less tons of waste generated	6, 12, 14, 15
Water efficiency	0.7	less thousand cubic metres fresh water used	6
Gender equality	-2.7%	less women in top management	5
Executive pay	22.3	less multiples of average employee pay paid to top executives	10
Board independence	-0.9%	less board independence	10, 16
Environmental good	11.2%	more invested in industries contributing to solving environmental issues	most SDGs
Social good	8.7%	more invested in industries helping alleviate social issues	most SDGs
Avoiding environmental harm	2.9%	less invested in industries aggravating environmental issues	most SDGs
Avoiding social harm	4.5%	less invested in industries aggravating social issues	most SDGs
Economic development	\$ 1,300	more economic activity in less developed economies	1, 8, 9, 16, 17
Avoiding water scarcity	0.02	less water use in water scarce localities (World Resource Institute)	16, 17
Employment	0.0%	more economic activity in high unemployment geographies	1,8, 11, 12, 16
Tax gap	0.00%	more tax paid	1, 9, 10, 16

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TOP AND BOTTOM PERFORMERS

Fund top performing holding

Fund bottom performing holding

IMPACT INDICATOR LEVEL

Carbon efficiency	W R Berkley Corp
	Slack Technologies Inc
Scope 3 efficiency	Westinghouse Air Brake Technol
	Cummins Inc
Waste efficiency	Accenture PLC
	American States Water Co
Water efficiency	Avalara Inc
	Packaging Corp of America
Gender equality	Sunrun Inc
	Roku Inc
Executive pay	NVR Inc
	Boston Properties Inc
Good governance	eBay Inc
	Allice USA Inc
Environmental good	49 companies with equal % revenues from environmental good
	218 companies with no revenues from environmental good
Social good	42 companies with equal % revenues from social good
	201 companies with no revenues from social good
Avoiding environmental harm	285 companies with no revenues from environmental harm
	CSX Corp
Avoiding social harm	286 companies with no revenues from social harm
	DraftKings Inc
Economic development	KLA Corp
	126 companies with equally low activity in low GDP economies
Avoiding water scarcity	Aflac Inc
	Kansas City Southern
Employment	Autodesk Inc
	Aflac Inc
Tax gap	142 companies with no tax gap
	American Tower Corp

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UN SDG PORTFOLIO EXPOSURE

1 NO POVERTY		CARBON EFFICIENCY, GENDER EQUALITY, ENVIRONMENTAL GOOD, SOCIAL GOOD, ECONOMIC DEVELOPMENT, EMPLOYMENT
2 ZERO HUNGER		TAX GAP, ENVIRONMENTAL GOOD, SOCIAL GOOD, AVOIDING ENVIRONMENTAL HARM, ECONOMIC DEVELOPMENT, EMPLOYMENT, AVOIDING WATER SCARCITY
3 GOOD HEALTH AND WELLBEING		CARBON EFFICIENCY, WASTE EFFICIENCY, WATER EFFICIENCY, GENDER EQUALITY, TAX GAP, ENVIRONMENTAL GOOD, SOCIAL GOOD, AVOIDING ENVIRONMENTAL HARM, AVOIDING SOCIAL HARM, EMPLOYMENT, AVOIDING WATER SCARCITY
4 QUALITY EDUCATION		GENDER EQUALITY, TAX GAP, SOCIAL GOOD, EMPLOYMENT
5 GENDER EQUALITY		WATER EFFICIENCY, GENDER EQUALITY, EXECUTIVE PAY, ECONOMIC DEVELOPMENT, AVOIDING WATER SCARCITY
6 CLEAN WATER AND SANITATION		WASTE EFFICIENCY, WATER EFFICIENCY, ENVIRONMENTAL GOOD, SOCIAL GOOD, AVOIDING ENVIRONMENTAL HARM, AVOIDING SOCIAL HARM, AVOIDING WATER SCARCITY
7 AFFORDABLE AND CLEAN ENERGY		CARBON EFFICIENCY, ENVIRONMENTAL GOOD, AVOIDING ENVIRONMENTAL HARM
8 DECENT WORK AND ECONOMIC GROWTH		CARBON EFFICIENCY, WASTE EFFICIENCY, WATER EFFICIENCY, EXECUTIVE PAY, BOARD INDEPENDENCE, TAX GAP, ENVIRONMENTAL GOOD, SOCIAL GOOD, AVOIDING ENVIRONMENTAL HARM, ECONOMIC DEVELOPMENT, EMPLOYMENT, AVOIDING WATER SCARCITY
9 INDUSTRY, INNOVATION AND INFRASTRUCTURE		CARBON EFFICIENCY, WASTE EFFICIENCY, WATER EFFICIENCY, TAX GAP, ENVIRONMENTAL GOOD, SOCIAL GOOD, AVOIDING ENVIRONMENTAL HARM, AVOIDING SOCIAL HARM, ECONOMIC DEVELOPMENT, AVOIDING WATER SCARCITY
10 REDUCED INEQUALITIES		GENDER EQUALITY, EXECUTIVE PAY, BOARD INDEPENDENCE, TAX GAP, ECONOMIC DEVELOPMENT, EMPLOYMENT, AVOIDING WATER SCARCITY
11 SUSTAINABLE CITIES AND COMMUNITIES		CARBON EFFICIENCY, WASTE EFFICIENCY, WATER EFFICIENCY, TAX GAP, ENVIRONMENTAL GOOD, SOCIAL GOOD, AVOIDING ENVIRONMENTAL HARM, AVOIDING SOCIAL HARM, ECONOMIC DEVELOPMENT, EMPLOYMENT, AVOIDING WATER SCARCITY
12 RESPONSIBLE CONSUMPTION AND PRODUCTION		CARBON EFFICIENCY, WASTE EFFICIENCY, WATER EFFICIENCY, ENVIRONMENTAL GOOD, SOCIAL GOOD, AVOIDING ENVIRONMENTAL HARM, AVOIDING SOCIAL HARM,
13 CLIMATE ACTION		CARBON EFFICIENCY, WASTE EFFICIENCY, WATER EFFICIENCY, ENVIRONMENTAL GOOD, AVOIDING ENVIRONMENTAL HARM, ECONOMIC DEVELOPMENT, AVOIDING WATER SCARCITY
14 LIFE BELOW WATER		CARBON EFFICIENCY, WASTE EFFICIENCY, WATER EFFICIENCY, ENVIRONMENTAL GOOD, AVOIDING ENVIRONMENTAL HARM, AVOIDING WATER SCARCITY
15 LIFE ON LAND		CARBON EFFICIENCY, WASTE EFFICIENCY, WATER EFFICIENCY, ENVIRONMENTAL GOOD, SOCIAL GOOD, AVOIDING ENVIRONMENTAL HARM, AVOIDING WATER SCARCITY
16 PEACE, JUSTICE AND STRONG INSTITUTIONS		GENDER EQUALITY, EXECUTIVE PAY, BOARD INDEPENDENCE, TAX GAP, ENVIRONMENTAL GOOD, SOCIAL GOOD, AVOIDING ENVIRONMENTAL HARM, AVOIDING SOCIAL HARM, ECONOMIC DEVELOPMENT, EMPLOYMENT
17 PARTNERSHIPS FOR THE GOALS		GENDER EQUALITY, EXECUTIVE PAY, TAX GAP, ECONOMIC DEVELOPMENT

METHODOLOGY NOTE

IMPACT NUMBER

Our measure of total impact is the risk of the active ESG shares needed to achieve the fund's SDG factor exposures. The total number is a net of positive and negative impacts, so our measure can be negative if the portfolio has more negative exposures than positive (think 'sin' fund). The impact number will always fall between the total tracking error figure and its negative. For example, if a portfolio has 100bps tracking error, its impact will fall between -100 and 100.

Negative and positive impact numbers

The negative and positive impact numbers are shown separately for the set of factors above and below benchmark. Separating the positive and negative impact exposures can be useful, because sometimes funds with the same net impact arrive at a similar number with very different underlying exposures.

For example, Fund 1 with Positive Impact = 41bps, and Negative Impact = 39bps, and Fund 2 with Positive Impact = 6bps and Negative Impact = 4bps both arrive at the same net Total Impact of 2bps. But if you are concerned about avoiding negative sustainability impacts through your investments, you would see Fund 2 much more positively than Fund 1.

RELATIVE PERFORMANCE

The relative performance measure shows which quartile the fund's net impact result falls within, given its tracking error, relative to all funds analysed to date by Impact Cubed. The blue marker shows approximately where the result falls within the quartile.

The fund universe is a diversified sample of 100+ ESG and mainstream funds, covering all types of geographies, market caps and other characteristics, all analysed against their own benchmark. We update the universe periodically with new results. Because the sample is not peer matched to the particular portfolio or otherwise rules-based, we advise to read the relative performance measure as a general indication only of how much of its tracking error the fund uses on sustainability exposures relative to others.

IMPACT GRAPH

How to read the impact graph

1. The symmetrical navy circle in the middle of the graph represents the benchmark.
2. The (usually more irregular) bright blue line shows the fund's factor exposures relative to its benchmark's exposures.

We use standard deviations of each indicator to unify the scale in the impact graph.

If the two lines were exactly the same, this would mean the portfolio is tracking the benchmark closely on every impact factor.

When parts of the blue line which represent the portfolio are outside the benchmark circle, that indicates a positive impact. The further they are outside the benchmark circle, the bigger the active exposure of the fund to that particular impact indicator.

When the blue line falls inside the benchmark circle, this indicates that it has negative active exposure to an impact indicator. For example, in the sample graph above, the sample portfolio allocated more capital to companies with highly paid male executives.

All the indicators used in the model are positive indicators, meaning that the fund line falling outside the benchmark circle is always a positive. By looking at the graph, we can quickly tell how the positive and negative areas either side of the benchmark circle compare to each other in terms of size (summarized in the single impact number), and also how the fund's impacts are distributed between the different indicators.

For example, if you were looking at a best in class governance quality fund, you would want to see the blue line outside the benchmark circle for *Board independence*, *Executive pay* and *Gender equality*, whereas someone looking for an environmentally focused fund would want to see strong exposures in carbon, waste, water, and water scarcity.

Our benchmarks

The benchmarks used on the Investment Impact Model website are calculated in-house to represent 90% of the investable universe. We use regional classification and follow standard industry practice in their construction. Clients subscribed to the full version of the tool may provide their own benchmarks, both bespoke and industry standard.

FUND IMPACT MEASURES

This section reports the raw data in terms of impact vs. the benchmark, indicator by indicator. For example, for *Executive pay* we will show the weighted average of the ratio of top management pay over average employee pay for the fund and the benchmark side by side. The standardized difference in these values is what is plotted on the impact graph.

Estimated data

This is the percentage of positions by weight in the portfolio that did not report the data we use to calculate an indicator. We fill gaps in company reporting with proprietary estimation models

and run quality checks on reported data to identify outliers. In rare instances, the numbers reported by companies are completely implausible and we actually replace them with estimations, as these are more reliable. We disclose the percentage of reported data for transparency, and because it is a simple and commonly recognized metric to understand how much of the data comes directly from companies and how much relies on estimation.

INVESTMENT EQUIVALENTS

This table translates the Fund Impact Measures from the previous section into the impacts per unit of investment (for instance a euro, a pound or a dollar), and maps each of them to the UN Sustainable Development Goals. The values in green are positive impacts, and those in red are negative.

For example, in real terms, what is the difference between investing in a fund with 8% tax gap vs. 12%? This section would translate this difference into 3 cents less tax paid by the listed companies held in this portfolio per 1 dollar invested, compared to investing in the benchmark portfolio. This number would show up in red because it's a negative impact, and in the last column in the table you will see that this impact relates to Sustainable Development Goals 1, 9, 10, and 16.

IMPACT ATTRIBUTION ANALYSIS

This part of the report shows the drivers of the portfolio's impact both by indicator and at overall portfolio level. It is based on traditional financial performance attribution for a portfolio.

Country, sector and company selection

We list what proportion of the impact in % is due to country selection, sector selection, and company selection.

This attribution helps further deepen the understanding of the impact profile of a portfolio and differentiate between similarly performing funds.

For example, a fund performing well on *Avoiding water scarcity* where 80% of this performance can be attributed to country selection is different than one with similar performance on this indicator driven 80% by company selection.

The first would hint that most of the impact may be achieved simply by investing more in markets where water scarcity is not an issue. The second would suggest that the same positive impact is more so the outcome of selecting companies which use water as a resource efficiently regardless of their geography of operation.

Top and bottom contributors and performers

Under Fund Top and Bottom Contributor, we name the securities held in the fund alone which contribute most positively and most negatively to the portfolio level score on each factor (maximum and minimum of weight times exposure).

Under Benchmark Top and Bottom Performer we name the securities from the fund and benchmark holdings combined that

have the highest and lowest factor exposures. For *Tax gap*, *Gender equality*, and business model based indicators, we report the number of positions which have no revenues from environmental and social good and harm, and those that have no diversity in top management or no tax gap. This offers some insight into the positions which drag down and those that boost the indicator and overall portfolio exposure on a particular issue.

CONTRIBUTION BY SDG GOAL

This table shows to what degree the portfolio analysed contributes to each of the 17 SDGs. The measure we use is a weighted average of all factor exposures mapped to a particular SDG, adjusted for the number of these factors. The weighted average takes into account the direct or indirect relationship between factors and a specific goal, each assigned a 100% or 50% weight respectively.

	NO POVERTY
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	GOOD HEALTH AND WELLBEING
	QUALITY EDUCATION
	GENDER EQUALITY
	CLEAN WATER AND SANITATION
	AFFORDABLE AND CLEAN ENERGY
	DECENT WORK AND ECONOMIC GROWTH
	INDUSTRY, INNOVATION AND INFRASTRUCTURE
	REDUCED INEQUALITIES
	SUSTAINABLE CITIES AND COMMUNITIES
	RESPONSIBLE CONSUMPTION AND PRODUCTION
	CLIMATE ACTION
	LIFE BELOW WATER
	LIFE ON LAND
	PEACE, JUSTICE AND STRONG INSTITUTIONS
	PARTNERSHIPS FOR THE GOALS

CONTACT US

If you have questions about the Investment Impact report, or you would like to discuss the model and its application with us further, we will be happy to hear from you at info@impact-cubed.com.

ABOUT IMPACT-CUBED

Impact-Cubed measures Investment Impact in terms of sustainable development for any portfolio of listed securities.

Understanding, measuring and managing investment impact facilitates cheaper access to capital for more sustainable companies, and with that, encourages a flourishing planet.

Impact-Cubed was originally used to measure investment impact in-house by Auriel Equity Investors LLP. It was spun off as a separate company (currently seeking B-Corp Certification in the UK) in summer 2017 with the intention of becoming a self-sustaining service to the investment community.

It is our hope that this service helps investors make informed decisions about the way they allocate capital, by shedding light on the varying levels and areas of impact delivered by different investment funds.

DISCLAIMER

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